

Regional Intersections

State-wide Site Ranking (KAB) (KABCO)	City	Street Name	Number of Total Crashes	Number of Crash (KAB)	Number of Crash (CO)	Crash Type(s)	PCR values (KAB or KABCO)	Potential Countermeasures																										Latitude	Longitude
								Signal Optimization / All Red Clearance / Multi-Phase	Install Retro. Backplate / Overhead Signal / Reorient Signal	Convert to All Way Stop Control / Yield to Partial Stop Control	Install / Adjust Stop Bar	Install Upgrade / Move Signage	Install Pennants or Flashing Beacons	Install Upgrade Pavement Marking	Install Crosswalk	Install Appropriate Pedestrian / Bike Sign	Improve Bike / Pedestrian Flashing Beacon (RRFB)	Delineate / Remove / Relocate Utility or Other Roadside Objects	Restrict / Remove Parking	Clear Sight Distance / Visibility	Add turn lane / Channelization	Add / Enhance Lighting	Roundabout / Alternate Intersection Design	Enforcement activities	Install rumble strips	Install Intersection Collision Warning System	Install Turn Lane Markings	Apply Surface Friction Treatment	Employ speed feedback sign						
3618 2585	Camanche	13th Place and 7th Avenue	3	1	2	Sideswipe, driver distraction	0.002 0.21							X						X												41.79248	-90.25776		
1535 1662	Camanche	21 st Street and US 67/Washington Boulevard	9	2	7	Sideswipe, FTYROW	0.06 0.72						X	X	X																	41.80086	-90.24738		
1241 8426	Camanche	9 th Avenue and Washington Boulevard	4	2	2	Broadside	0.08 0.09						X	X																		41.78649	-90.25881		
N/A 2167	Camanche	US 67 and Mississippi River Trail	12	0	12	Broadside, rear-end	0.54						X	X	X					X			X	X								41.79761	-90.24845		
989 1789	Camanche	Washington Boulevard and 4 th Avenue	5	1	4	FTYROW, rear-end, driver distraction	0.03 0.3						X		X							X									X	41.78928	-90.25329		
771 2130	Camanche	Washington Boulevard and 7th Avenue	5	1	4	Rear-end, FTYROW, broadside	0.03 0.26							X																	X	41.78755	-90.2566		
N/A 2456	Cascade	1st Avenue East, Fox Street Southeast and Industrial Park Road	4	0	4	Broadside, rear-end	0.23							X	X																X	42.30584	-90.99546		
5816 6263	Delhi	D5X and X31	4	1	3	Angle, broadside	0.01 0.14								X																X	42.42615	-91.33687		
N/A 1867	Delhi	Franklin Street and IA 38/3rd Street	4	0	4	Broadside, sideswipe, rear-end, rear-to-side	0.29						X								X										X	42.42965	-91.33083		
387 542	DeWitt	11 th Street and 11 th Avenue	7	1	6	FTYROW, broadside	0.03 0.21	X	X						X																		41.82599	-90.54629	
2641 1309	DeWitt	11 th Street and 3 rd Avenue	10	1	9	Broadside, angle, sideswipe, rear-end, FTYROW	0.03 0.90				X			X		X							X										41.82629	-90.53452	
N/A 1820	DeWitt	11 th Street and 5 th Avenue	8	0	8	Broadside, angle, sideswipe	0.65				X			X	X								X										41.82621	-90.53747	
594 1889	DeWitt	11 th Street and 8 th Avenue	9	3	6	Broadside, sideswipe, angle	0.16 0.63				X		X	X	X							X											41.82613	-90.54194	
N/A 2380	DeWitt	11 th Street and Maynard Way	10	0	10	Broadside, rear-end, head-on, sideswipe	0.49	X								X																	41.82571	-90.5521	
728 2207	DeWitt	6 th Avenue and 8th Street	5	1	4	Rear to side, sideswipe, rear-end, backing	0.03 0.25						X		X						X												41.82328	-90.53898	
1347 2709	Dyersville	1 st Avenue East and 2 nd Street Northeast/Southeast	6	2	4	Rear-end, broadside, rear-o-side	0.07 0.42	X	X								X	X			X												42.48458	-91.1228	
1579 N/A	Dyersville	23 rd Avenue Southeast and IA 136	2	2	0	Broadside, FTYROW	0.05							X	X																		42.46508	-91.11453	
N/A 2019	Dyersville	5 th Street Northwest and Beltline Road	4	0	4	Broadside, rear-end	0.27						X																				42.48674	-91.13013	
1710 1310	Dyersville	6 th Street Southeast and 8 th Avenue Southeast	5	1	4	Broadside, sideswipe, angle	0.01 0.4				X			X	X																		42.47825	-91.11779	
N/A 2664	Dyersville	9 th Street Southeast and 10 th Avenue Southeast	3	0	3	Rear-end	0.20						X		X																		42.47664	-91.11427	
2478 1810	Dyersville	IA 136/9th Street Southeast and US 52/9th Street Southeast	5	1	4	Broadside, angle	0.01 0.3						X		X																		42.46732	-91.11424	
655 763	Farley	Old Castle Road and US 20/US 52	15	3	12	Broadside, rear-end	0.15 1.45						X	X								X		X									42.44742	-91.02006	

Regional Intersections

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Appendix C. Intersection Countermeasure Summary Table

Regional Segments						Suggested Countermeasures																	
State-wide Rank	City	Corridor Name	Number of Crash (KAB)	Number of Crash (CO)	Crash Types	PCR	Optimize signal operations	Investigate redesign of intersection or roadway	Undertake driver awareness campaign	Add rumble strips	Conduct speed studies	Employ speed feedback signs (temp. or permanent)	Improve existing markings	Conduct targeted enforcement	Provide/improve delineation	Perform vegetation/relocate signage	Identify/address sight distance issues	Add lighting	Modify winter maintenance issues	Investigate animal mitigation strategies			
141	Camanche	Highway 67 on Border of Camanche	5	17	Broadside, sideswipe	KABCO						X				X			X				
141	Camanche	Highway 67 South of Camanche	1	26	Single vehicle, broadside, animal-vehicle	KABCO										X			X		X		
71	Delaware	US 20 Corridor	2	18	Single vehicle, rear-end, animal-vehicle	KABCO					X	X									X		
67	DeWitt	11th Street Corridor	14	55	Broadside, sideswipe, rear-end, angle, head-on	KABCO	X	X				X			X								
9	DeWitt	Highway 61 Interchange Curve	6	10	Speed, lane departure, loss of control	KABCO				X	X		X	X							X		
231	DeWitt	US 30 Corridor	1	31	Run off road, animal-vehicle, driver distraction	KABCO				X				X					X		X		
54	DeWitt	US 61 Corridor	1	31	Speed, animal-vehicle, driver distraction	KABCO				X			X				X	X			X		
321	DeWitt	US Highway 61 Corridor South of US 30 Interchange	8	32	Sideswipe, animal-vehicle, speed, loss of control	KABCO							X			X				X	X		
393	Durnago	Highway 3 Corridor	0	6	Animal-vehicle	KABCO									X		X				X		
35	Dyersville	US 20 Corridor	3	26	Lane departure, broadside	KABCO						X		X			X		X		X		
91	Worthington	Route 136	0	4	Broadside	KABCO										X							

Dubuque Intersections

[illegible]

Dubuque Intersections

Dubuque Intersections							Countermeasures																													
Area-wide Site Ranking	Street Name	Number of Total Crashes	Number of Crash (KAB)	Number of Crash (CO)	Crash Type(s)	PCR values (KAB or KABCO)	Signal Optimization / All Red Clearance / Multi-Phase	Install Retro. Backplate / Overhead Signal / Reorient Signal	Convert to All Way Stop Control / Yield to Partial Stop Control	Install / Adjust Stop Bar	Install / Upgrade / Move Siganage	Install Pennants or Flashing Beacons	Install / Upgrade Pavement Marking	Install Crosswalk	Install Appropriate Pedestrian / Bike Sign	Install Rapid Rectangular Flashing Beacon (RRFB)	Improve Bike / Pedestrian Facility	Delineate / Remove / Relocate Utility or Other Roadside Objects	Restrict / Remove Parking	Access Management	Clear Sight Distance / Visibility	Add turn lane / Channelization	Add / Enhance Lighting	Roundabout / Alternate Intersection Design	Public Education	Road Geometry Improvements	Install / Upgrade / Move Railroad Crossing Sign	Install Barrier	Install Turn Lane Markings	Apply Surface Friction Treatment	Relocate Bus Stop	Latitude	Longitude			
141	Central Avenue and East 8 th Street	7	1	6	Sideswipe	0.56								X		X			X			X										42.501458	-90.665101			
173	Central Avenue and West 13th Street	10	1	9	Broadside, Rear-end, Sideswipe	0.40					X	X			X												X					42.505534	-90.667313			
174	Central Avenue and West 16th Street	7	1	6	Sideswipe, Broadside	0.40				X	X	X															X					42.50799	-90.66864			
82	Central Avenue and West 23 rd Street	13	0	13	Rear-end	1.34			X	X			X																			42.514837	-90.67212			
31	Central Avenue and West 5 th Street	13	2	11	Broadside, Rear-end	0.11	X	X													X						X					42.499028	-90.66376			
95	Central Avenue and West 7 th Street	13	0	13	Sideswipe, Rear-end	1.02	X											X			X											42.50065	-90.664656			
104	Chaney Road and Hillcrest Road	10	0	10	Broadside, Rear-end	0.89			X		X	X						X				X					X					42.505599	-90.708209			
72	Charter Street and South Locust Street	27	1	26	Rear-end, Angle, Broadside	2.18	X																X									42.489081	-90.665235			
127	Chavenelle Road and Radford Road	9	0	9	Broadside	0.63			X		X		X	X										X				X				42.491505	-90.749936			
192	Clark, Dorgan, Ellis and West Locust Streets	6	0	6	Rear-end	0.29			X	X	X	X												X			X					42.508057	-90.673767			
189	Clarke Drive and Grandview Avenue	19	0	19	Rear-end, Broadside	0.32					X	X													X		X					42.505275	-90.695789			
92	Cornell Street and Pickett Street	11	2	9	Non-collision, Broadside	1.03					X		X	X			X										X					42.504734	-90.673362			
111	East 11 th Street and Washington Street	9	2	7	Broadside	0.77			X		X			X		X		X									X					42.504782	-90.663458			
34	East 11 th Street and White Street	21	2	19	Broadside, Sideswipe	0.11	X														X											42.504197	-90.665423			
195	East 13 th Street and Jackson Street	6	1	5	Broadside	0.25					X		X				X										X					42.506113	-90.665329			
7	East 14 th Street and Elm Street	29	5	24	Broadside	0.41				X	X			X	X		X				X						X					42.507521	-90.663798			
70	East 14 th Street and Jackson Street	19	1	18	Broadside	2.24	X											X														42.506935	-90.665787			
55	East 14 th Street and Washington Street	7	2	5	Broadside, Rear-end	0.07			X	X		X			X	X		X									X					42.507231	-90.664786			
51	East 14 th Street and White Street	39	2	37	Broadside, Sideswipe	0.08	X										X					X										42.506649	-90.666752			
22	East 16 th Street and Elm Street	17	3	14	Broadside	0.17	X			X	X										X					X						42.509164	-90.664701			
78	East 16 th Street and Jackson Street	13	0	13	Broadside	1.45			X	X		X										X					X					42.508576	-90.666657			
196	East 16 th Street and Kerper Boulevard	17	2	15	Broadside, Rear-end, Angle	0.24	X						X	X			X															42.512225	-90.654062			
63	East 16 th Street and White Street	28	1	27	Broadside	3.43					X		X				X				X						X					42.508275	-90.667652			
23	East 17 th Street and Jackson Street	13	3	10	Broadside	0.15			X		X	X																				42.509398	-90.667128			
53	East 19 th Street and Jackson Street	5	2	3	Rear-end, Broadside	0.07				X		X						X							X		X					42.511044	-90.668			
5	East 20th Street and Jackson Street	27	5	22	Broadside, Rear-end, Non-collision	0.42	X					X				X	X					X										42.511698	-90.668381			
66	East 20 th Street and White Street	30	0	30	Broadside, Sideswipe, Non-collision, Rear-end	3.11	X				X						X					X										42.511419	-90.669358			
40	East 22 nd Street and Jackson Street	13	2	11	Broadside	0.10			X			X					X										X					42.513715	-90.670556			
43	East 22 nd Street and Windsor Avenue	11	2	9	Rear-end	0.09	X	X		X				X			X	X														42.516818	-90.666074			
49	East 24 th Street and Jackson Street	17	2	15	Broadside	0.08				X		X		X		X		X									X					42.51653	-90.671322			
155	East 24th Street and Queen Street	6	1	5	Broadside	0.47				X		X		X													X					42.517579	-90.668221			
58	East 24 th Street and White Street	10	2	8	Broadside	0.05			X	X		X		X													X					42.516269	-90.672105			
81	East 24 th Street and White Street	14	2	12	Rear-end	1.39				X		X	X			X		X				X					X					42.516004	-90.672835			
99	East 24 th Street and Windsor Avenue	10	1	9	Sideswipe	0.93				X		X		X		X		X									X					42.517938	-90.667253			
27	East 25 th Street and Jackson Street	4	4	0	Non-collision	0.12			X	X	X			X	X		X		X			X										42.518084	-90.672387			
130	East 27 th Street and Jackson Street	7	1	6	Broadside	0.60				X		X					X										X					42.521647	-90.675413			
12	East 5th Street and White Street	28	4	24	Broadside	0.29							X	X	X	X		X														42.499314	-90.662792			
157	East 7th Street and White Street	7	0	7	Sideswipe	0.47				X		X																				42.500937	-90.663697			
177	East 9th Street and Jackson Street	5	1	4	Broadside	0.39					X																X					42.502857	-90.663597			
9	East 9 th Street and White Street	18	4	14	Broadside	0.30					X	X				X	X					X										42.50257	-90.664562			

Dubuque Intersections

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Area-wide Site Ranking	Street Name	Number of Total Crashes	Number of Crash (KAB)	Number of Crash (CO)	Crash Type(s)	PCR values (KAB or KABCO)	Signal Optimization / All Red Clearance / Multi-Phase	Install Retro. Backplate / Overhead Signal / Reorient Signal	Convert to All Way Stop Control / Yield to Partial Stop Control	Install / Adjust Stop Bar	Install / Upgrade / Move Signage	Install Pennants or Flashing Beacons	Install / Upgrade Pavement Marking	Install Crosswalk	Install Appropriate Pedestrian / Bike Sign	Install Rapid Rectangular Flashing Beacon (RRFB)	Improve Bike / Pedestrian Facility	Delineate / Remove / Relocate Utility or Other Roadside Objects	Restrict / Remove Parking	Access Management	Clear Sight Distance / Visibility	Add turn lane / Channelization	Add / Enhance Lighting	Roundabout / Alternate Intersection Design	Public Education	Road Geometry Improvements	Install / Upgrade / Move Railroad Crossing Sign	Install Red Pennants to Stop Sign	Install Barrier	Install Turn Lane Markings	Apply Surface Friction Treatment	Relocate Bus Stop	Latitude	Longitude		
153	East 9 th Street-Kerper Boulevard and Elm Street	11	0	11	Non-collision, Rear-end	0.49	X																										42.503468	-90.661458		
15	Embassy West Drive and Pennsylvania Avenue	12	3	9	Angle, Broadside	0.20					X	X	X									X						X						42.500605	-90.743735	
197	Farley Street and Lincoln Avenue	4	2	2	Broadside	0.23			X	X				X																				42.520206	-90.662045	
38	Fengler Street and Garfield Avenue	10	2	8	Broadside	0.10				X		X	X									X						X						42.519664	-90.658634	
10	Fengler Street and Kerper Boulevard	18	4	14	Angle, Broadside	0.30	X													X														42.518459	-90.655959	
48	Fengler Street and Rhomberg Avenue	16	2	14	Sideswipe, Angle, Broadside	0.09				X		X				X		X										X						42.520186	-90.659725	
56	Fillmore Street and Grandview Avenue	3	2	1	Rear-end	0.06				X		X						X										X						42.501123	-90.689103	
42	Fremont Avenue and US 20 Ramp	10	2	8	Broadside	0.10	X	X									X																	42.490637	-90.688717	
138	Garfield Avenue and Windsor Avenue	6	1	5	Non-collision, Rear-end	0.57						X	X									X						X						42.515089	-90.662532	
180	Grandview Avenue and Bennett Street	5	1	4	Broadside, Rear-end	0.38					X		X	X	X																			42.495901	-90.687764	
144	Grandview Avenue and Bradley Street	6	1	5	Non-collision	0.53					X		X				X											X						42.48451	-90.678295	
117	Grandview Avenue and Kane Street	8	0	8	Broadside	0.69			X	X		X	X															X						42.519142	-90.696882	
37	Grandview Avenue and Kaufmann Avenue	24	2	22	Broadside	0.11			X	X		X	X				X											X						42.516598	-90.694245	
119	Grandview Avenue and West 3 rd Street	11	1	10	Broadside, Rear-end	0.66					X		X																					42.494934	-90.687645	
14	Great River Road and Maquoketa Drive	23	5	18	Rear-end, Non-collision	0.20					X	X					X																	42.454622	-90.677922	
166	Humboldt Street and Rhomberg Avenue	6	1	5	Rear-end	0.44						X	X					X										X						42.51759	-90.661942	
16	Humke Road and Seippel Road	6	3	3	Rear-end, Broadside	0.20					X	X	X	X								X						X						42.484871	-90.779343	
129	Iowa Street and West 14 th Street	14	0	14	Broadside	0.60	X								X																			42.506085	-90.668735	
169	Iowa Street and West 16th Street	6	0	6	Rear-end	0.42						X	X					X										X						42.507708	-90.669594	
184	Jackson Street and East 19th Street	5	2	3	Rear-end	0.36						X	X	X														X			X			42.511044	-90.668	
123	Jackson Street and East 28 th Street	8	1	7	Broadside	0.64			X	X		X		X				X										X						42.523124	-90.676805	
176	Jackson Street and East 32nd Street	12	0	12	Angle, Non-collision	0.39	X	X			X		X																					42.528279	-90.681596	
57	Johnson Street and Rhomberg Avenue	9	2	7	Sideswipe	0.06					X				X	X		X					X											42.514648	-90.66445	
52	Kennedy Road and Carter Road	39	3	36	Broadside, Rear-end	0.08					X	X	X									X						X						42.501797	-90.721347	
113	Kennedy Road and Crestwood Drive	9	1	8	Rear-end, Broadside	0.75				X	X	X	X															X						42.499068	-90.721166	
60	Kennedy Road and Hillcrest Road	40	1	39	Broadside, Angle	5.27					X		X	X	X													X						42.506261	-90.720524	
11	Kennedy Road and Kaufmann Avenue	26	4	22	Broadside, Rear-end, Angle	0.29					X	X	X		X	X	X					X		X				X						42.514901	-90.720544	
50	Kennedy Road and Kennedy Circle	12	2	10	Angle, Sideswipe	0.08					X		X						X									X						42.505266	-90.721135	
2	Kennedy Road and Pennsylvania Avenue	59	8	51	Broadside, Rear-end	0.54	X	X											X															42.500476	-90.721259	
88	Kennedy Road and Stoneman Road	14	1	13	Broadside	1.20					X		X						X									X						42.496908	-90.720881	
65	Kennedy Road and Wacker Drive	40	2	38	Rear-end, Sideswipe	3.39	X				X		X											X										42.495954	-90.720225	
135	Kennedy Road and West 32 nd Street	8	2	6	Broadside, Head-on, Rear-end	0.57					X	X																X						42.52693	-90.726151	
143	Lincoln Avenue and Windsor Avenue	9	1	8	Broadside	0.55			X			X																X						42.516128	-90.664693	
100	Locust Street and Clarke Drive	9	1	8	Rear-end, Sideswipe	0.93					X	X				X							X											42.506659	-90.693899	
149	Locust Street and Kirkwood Street	6	0	6	Rear-end, Sideswipe	0.51				X	X							X																42.508959	-90.679198	
128	Locust Street and Pierce Street	10	0	10	Broadside, Rear-end	0.62					X							X	X															42.508906	-90.678408	
35	Locust Street and West 10 th Street	19	2	17	Broadside	0.11	X	X										X				X												42.502136	-90.669176	
181	Locust Street and West 11th Street	6	1	5	Sideswipe, Angle, Head-on	0.38				X	X	X		X											X									42.502972	-90.669632	
39	Locust Street and West 14 th Street	40	2	38	Broadside, Rear-end	0.10	X	X			X						X	X																42.505447	-90.670939	
172	Locust Street and West 15th Street	5	1	4	Broadside, Sideswipe	0.40								X				X				X												42.506262	-90.671351	
84	Locust Street and West 17 th Street	14	1	13	Broadside, Rear-end	1.31						X		X				X										X						42.507683	-90.672975	
68	Locust Street and West 3 rd Street	23	0	23	Broadside, Sideswipe	2.29						X	X		X							X						X						42.49647	-90.666063	

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29	Locust Street and West 4 th Street	12	2	10	Broadside, Sideswipe	0.11	X	X														X									42.497284	-90.666511		
121	Locust Street and West 8 th Street	10	0	10	Broadside	0.65	X											X				X									42.500551	-90.668334		
71	Locust Street and West 9 th Street	23	0	23	Broadside	2.22	X				X								X	X											42.501349	-90.668757		
156	Locust Street South and West 5th Street	11	1	10	Broadside, Sideswipe	0.47	X	X			X		X																		42.498099	-90.666982		
79	Locust Street, Bluff Street and West 16 th Street	13	0	13	Sideswipe, Rear-end	1.43													X					X							42.507072	-90.671814		
110	Loras Boulevard and Algona Street	9	0	9	Angle, Broadside, Sideswipe	0.78			X	X		X		X					X									X			42.499578	-90.691577		
151	Loras Boulevard and Bluff Street	13	0	13	Broadside	0.49	X	X					X						X												42.505222	-90.671718		
152	Loras Boulevard and Cummins Street	7	2	5	Sideswipe, Rear-end	0.49							X										X							X	42.503115	-90.679055		
163	Loras Boulevard and Dell Street	6	0	6	Sideswipe, Broadside, Head-on	0.45					X		X	X														X			42.50464	-90.673669		
83	Loras Boulevard and Henion Street	16	0	16	Broadside, Rear-end	1.32						X	X	X					X				X				X				42.504335	-90.674783		
36	Loras Boulevard and Wood Street	8	2	6	Rear-end	0.11				X		X						X	X		X	X					X				42.500952	-90.68655		
41	Madison Street, Main Street and West 17 th Street	28	2	26	Broadside	0.10				X	X		X						X											X	42.508234	-90.671117		
126	Main Street and West 13 th Street	8	0	8	Broadside	0.63					X		X			X		X									X				42.504939	-90.669416		
33	Main Street and West 14 th Street	20	20	18	Broadside	0.11	X															X									42.505763	-90.669848		
124	Main Street and West 15 th Street	7	1	6	Broadside, Rear-end	0.64					X	X	X		X				X								X				42.506572	-90.670273		
76	Main Street and West 1 st Street	16	0	16	Rear to rear, Sideswipe	1.59													X				X								42.495071	-90.664049		
146	Main Street and West 3rd Street	12	0	12	Broadside, Rear-end	0.51	X	X																X							42.496799	-90.664972		
74	Main Street and West 4 th Street	16	1	15	Broadside, Sideswipe	1.90			X						X				X												42.497612	-90.665423		
116	Main Street and West 5 th Street	8	1	7	Broadside	0.70						X				X											X				42.498462	-90.665887		
115	Main Street and West 9 th Street	15	0	15	Broadside, Rear-end	0.71	X												X			X									42.50167	-90.667651		
150	Maquoketa Street and Rockdale Road	8	0	8	Broadside	0.49						X					X							X				X			42.454823	-90.678496		
171	Mineral Street and New Haven Street	6	2	4	Head-on, Broadside, Non-collision, Rear-end, Sideswipe	0.41					X	X		X									X								42.49597	-90.699832		
64	Northwest Arterial and Asbury Road	63	4	59	Rear-end, Sideswipe, Broadside	3.41	X					X	X																		42.515285	-90.740925		
19	Northwest Arterial and Chavenelle Road	32	5	27	Rear-end	0.18	X	X									X														42.497187	-90.740678		
17	Northwest Arterial and Holliday Drive	19	3	16	Broadside, Rear-end	0.20	X	X															X								42.509541	-90.740833		
54	Northwest Arterial and Kennedy Road	35	3	32	Rear-end, Broadside	0.07	X	X																							42.525657	-90.723598		
61	Northwest Arterial and Pennsylvania Avenue	58	3	55	Rear-end, Broadside, Sideswipe	4.59	X						X															X	X		42.500963	-90.740761		
4	Northwest Arterial and Plaza Drive	18	6	12	Broadside, Angle	0.46	X				X		X	X																	42.520755	-90.738528		
91	Pennsylvania Avenue and Alicia Street	11	0	11	Rear-end	1.06				X		X		X																	42.501571	-90.737655		
134	Pennsylvania Avenue and Donovan Drive	7	0	7	Rear-end	0.57						X			X		X														42.50139	-90.738591		
167	Pennsylvania Avenue and Green Street	6	0	6	Rear-end	0.44						X				X	X														42.499814	-90.701972		
145	Pennsylvania Avenue and Key Way	8	1	7	Rear-end, Angle, Broadside	0.52			X				X					X									X				42.500487	-90.725824		
96	Pennsylvania Avenue and Lucy Drive	11	0	11	Rear-end	1.01						X																			42.501284	-90.734485		
187	Peru Road and Sheridan Road	6	1	5	Non-collision, Sideswipe	0.34					X		X														X				42.532647	-90.675038		
165	Peru Road and Tanzanite Drive	6	0	6	Non-collision	0.44						X			X																42.545787	-90.678286		
125	Peru Road and Toledo Street	8	1	7	Broadside, Non-collision, Rear-end	0.64					X	X	X		X												X				42.538821	-90.675977		
178	Prince Street and East 24th Street	5	0	5	Broadside, Angle, Sideswipe	0.39							X						X						X		X				42.517197	-90.669346		
28	Rhomberg Avenue and Stafford Street	16	3	13	Broadside, Rear-end, Sideswipe	0.12				X	X			X			X		X				X					X				42.516608	-90.662779	

Dubuque Intersections

Dubuque Intersections							Countermeasures																											
Area-wide Site Ranking	Street Name	Number of Total Crashes	Number of Crash (KAB)	Number of Crash (CO)	Crash Type(s)	PCR values (KAB or KABCO)	Signal Optimization / All Red Clearance / Multi-Phase	Install Retro. Backplate / Overhead Signal / Reorient Signal	Convert to All Way Stop Control / Yield to Partial Stop Control	Install / Adjust Stop Bar	Install / Upgrade / Move Siganage	Install Pennants or Flashing Beacons	Install / Upgrade Pavement Marking	Install Crosswalk	Install Appropriate Pedestrian / Bike Sign	Install Rapid Rectangular Flashing Beacon (RRFB)	Improve Bike / Pedestrian Facility	Delineate / Remove / Relocate Utility or Other Roadside Objects	Access Management	Clear Sight Distance / Visibility	Add turn lane / Channelization	Add / Enhance Lighting	Roundabout / Alternate Intersection Design	Public Education	Road Geometry Improvements	Install / Upgrade / Move Railroad Crossing Sign	Install Red Pennants to Stop Sign	Install Barrier	Install Turn Lane Markings	Apply Surface Friction Treatment	Relocate Bus Stop	Latitude	Longitude	
140	Rhomberg Avenue and Windsor Avenue	12	1	11	Broadside, Rear-end	0.56	X	X										X														42.515614	-90.663625	
147	Rosedale Avenue and Locust Street	7	0	7	Rear-end, Sideswipe	0.51											X	X				X										42.509089	-90.686238	
112	Rosedale Avenue and Saint Ambrose Street	8	0	8	Broadside	0.76			X		X															X						42.503944	-90.698214	
179	Rosedale Avenue, Avoca Street, and Grandview Avenue	6	0	6	Broadside	0.39					X	X					X					X				X						42.503931	-90.695777	
142	Spruce Street and Wilbur Street	7	0	7	Non-collision	0.56			X								X	X			X											42.500193	-90.673323	
175	University Avenue and Air Hill Street	6	1	5	Rear-end, Non-collision	0.40				X		X						X											X			42.500203	-90.674123	
87	University Avenue and Alpine Street	13	0	13	Broadside	1.22				X	X							X								X				X		42.499337	-90.679774	
77	University Avenue and Alta Vista Street	15	1	14	Broadside	1.56			X	X	X						X			X												42.499462	-90.678793	
191	University Avenue and Auburn Street	8	0	8	Broadside	0.29				X		X	X									X				X						42.498106	-90.690891	
24	University Avenue and Booth Street	13	3	10	Broadside, Sideswipe	0.14				X	X	X					X									X						42.499074	-90.68191	
148	University Avenue and Center Place	7	0	7	Rear-end, Angle, Broadside, Sideswipe	0.51				X	X	X					X															42.499624	-90.677506	
103	University Avenue and Nevada Street	10	1	9	Broadside, Sideswipe	0.90	X	X											X													42.499201	-90.680838	
120	University Avenue and Wilson Street	8	1	7	Broadside	0.65				X		X		X		X										X						42.499734	-90.676621	
69	US 20 and Bluff Street	38	3	35	Rear-end	2.28						X										X										42.491914	-90.668059	
20	US 20 and Brunskill Road	23	3	20	Rear-end, Broadside	0.18						X												X			X					42.492401	-90.710274	
59	US 20 and Bryant Street	48	1	47	Rear-end	6.00				X		X										X										42.490752	-90.679447	
45	US 20 and Cedar Cross Road	101	7	94	Rear-end, Broadside, Sideswipe	0.09	X	X			X																					42.492267	-90.714644	
25	US 20 and Century Drive	42	6	36	Rear-end, Sideswipe	0.13	X	X								X												X				42.491892	-90.723779	
86	US 20 and Locust Street	85	2	83	Rear-end, Sideswipe	1.28	X				X	X										X										42.492001	-90.665111	
94	US 20 and Menard Court	60	5	55	Rear-end	1.02	X			X	X											X										42.492874	-90.714544	
73	US 20 and Westside Drive	45	1	44	Rear-end, Sideswipe	2.12	X			X	X																					42.486516	-90.747568	
6	US 20/Dodge Street and Wacker Drive	84	9	75	Rear-end, Broadside, Angle	0.41	X	X																X								42.492084	-90.720483	
26	US 52/US 61 and Lake Eleanor Road	6	3	3	Angle	0.12					X	X	X													X						42.447568	-90.68016	
32	US 61 and Grandview Avenue South Interchange	9	2	7	Broadside, Rear-end	0.11						X				X										X						42.478018	-90.668467	
46	Wacker Drive and Parking Entrances	24	2	22	Broadside	0.09				X	X										X					X						42.493475	-90.720496	
170	West 11th Street and Main Street	6	1	5	Broadside	0.41						X	X				X															42.503301	-90.668546	
185	West 17th Street and Iowa Street	5	0	5	Sideswipe, Broadside, Head-on, Rear-end	0.35						X	X	X												X			X			42.50853	-90.670042	
159	West 32nd Street and Carter Road	6	1	5	Angle, Head-on, Non-collision, Rear-end, Sideswipe	0.46														X		X										42.525451	-90.7055	
164	West 3 rd Street and North Booth Street	6	0	6	Rear-end	0.45					X	X							X						X							42.495523	-90.682102	
131	West 5 th Street and Wilson Street	8	0	8	Rear-end	0.58							X				X															42.496351	-90.674556	
105	White Street and East 10 th Street	10	0	10	Broadside	0.89					X						X									X						42.503382	-90.664982	
102	White Street and East 15 th Street	12	1	11	Sideswipe	0.90					X			X			X				X					X						42.507473	-90.667197	
98	White Street and East 17 th Street	14	0	14	Broadside, Sideswipe	0.98	X	X														X										42.509099	-90.668108	
114	White Street and East 18 th Street	9	1	8	Rear-end	0.72				X	X	X		X			X				X					X						42.509925	-90.668548	
139	White Street and East 30 th Street	8	1	7	Rear-end, Sideswipe	0.56				X		X			X		X															42.525371	-90.680891	
132	White Street and East 6 th Street	8	0	8	Sideswipe	0.58				X		X									X						X					42.500113	-90.663219	
186	White Street and West 4th Street	5	1	4	Sideswipe	0.35					X	X		X												X						42.498441	-90.662551	
188	Wilson Street and West 5 th Street	6	0	6	Sideswipe	0.34		X														X										42.496413	-90.674984	

Appendix C. Intersection Countermeasure Summary Table
Dubuque Segments

State- wide Rank	Corridor Name	Number of Crash (KAB)	Number of Crash (CO)	Crash Types	PCR value(s)	Suggested Countermeasures																									
						Optimize signal operations	Install a signal ahead warning system	Investigate redesign of intersection or roadway	Undertake driver awareness campaign	Add rumble strips	Add retroreflective backplates	Employ speed feedback signs (temp. or permanent)	Implement dedicated left turn phasing	Determine friction levels and apply surfacing	Public awareness campaigns	Improve existing markings	Conduct targeted enforcement	Provide/improve delineation	Install/upgrade/relocate signage	Add curbing	Perform vegetation removal	Add pennants or beacons to stop signs	Review speeds, adjust speed limits	Identify/address sight distance issues	Access management	Alternative pedestrian signaling	Add crosswalks	Modify winter maintenance operations	Add shoulders or widen lanes	Investigate animal mitigation strategies	Add barriers
1	Dodge Street/US 20 Mississippi River Bridge	1	67	Rear end	KABCO = 6.77	X	X	X	X																						
206	Dodge Street/US 20 between Century Drive and Old Highway Road	21	298	Rear-end, sideswipe, broadside	KAB =2.56 KABCO = 0.70	X					X	X	X	X			X														
96	Dodge Street/US 20 between Gandolfo Street and Kennedy Road	16	195	Rear-end, sideswipe, broadside,non-collision single-vehicle	KAB = 1.04 KABCO = 1.48	X					X	X	X	X	X	X															
10	Roosevelt Street	8	54	Lane departure	KABCO = 3.94			X						X			X	X	X	X											
4	Asbury Road Corridor	20	218	Rear-end	KABCO = 4.75	X	X								X																
7	West Locust Street Corridor	12	134	Running off the road to the right, rear-end,same-direction sideswipe.	KABCO = 4.25							X				X					X	X									
18	Northwest Arterial Corridor	5	58	Rear-end,non-collisions, non-reported and lane departures	KABCO = 4.21	X						X				X							X								
N/A	Kennedy Road Corridor	9	90	Broadside and rear end	N/A													X						X	X	X					
16	Cedar Cross Road Corridor	5	57	Lane departure, broadside, non-collision, and rear-end.	KABCO = 3.17							X		X			X	X									X	X			
20	Pennsylvania Avenue Corridor	30	296	Broadside, rear end, angle	KABCO = 2.66				X					X				X						X							
48	Highway 3 Corridor	3	15	Loss of control	KABCO = 1.84							X			X			X		X									X		
59	Kaufman Avenue Corridor	10	77	Broadside, rear-end, and angle	KABCO = 1.76										X			X			X										
83	East 16th Street Corridor	8	59	Broadside, rear-end, and sideswipe same direction.	KABCO = 1.5									X		X					X										
914	Kelly Lane Corridor	4	27	Non-collision single-vehicle, rear-end, sideswipe (same direction), and broadside.	KAB = 0.53 KABCO = 0.31							X				X								X							X
541	Highway 61 Corridor near Dubuque Regional Airport	11	46	Non-collision single-vehicle, rear-end and broadside (front-to-side)	KAB = 0.71 KABCO = 0.14,					X		X				X				X									X		
914	Fremont Avenue Corridor	4	20	Non-collision single-vehicle, rear-end, broadside, and angle	KAB = 0.53 KABCO = 0.31							X				X															X
91	Central Avenue Corridor	15	124	Non-collision single-vehicle, head-on, rear-end, angle, broadside, and same-direction sideswipe.	KAB = 0.53. KABCO = -0.04							X			X	X		X													X
2006	Chavenelle Road	16	195	Rear-end, and sideswipe, broadside and non-collision	KAB = 0.99 KABCO = 0.16	X					X	X	X	X			X														X