

Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE  
 City of Waterloo, Black Hawk County, Iowa from 2008-2012  
 Composite Rank=134 Frequency Rank=129 Rate Rank=8083 Severity Rank=271

Severity of All Crashes by Year						
Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE						
City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Severity	Year					Total
	2008	2009	2010	2011	2012	
Fatal						
Major Injury		1				1
Minor Injury		2		1	1	4
Possible/Unknown Injury			1	3	3	7
Property Damage Only	15	6	6	5	1	33
<b>Total Crashes</b>	<b>15</b>	<b>9</b>	<b>7</b>	<b>9</b>	<b>5</b>	<b>45</b>
Fatal						
Major Injury		2				2
Minor Injury		2		2	3	7
Possible Injury		1	1	3	9	14
Unknown Injury						
<b>Total Injuries</b>		<b>5</b>	<b>1</b>	<b>5</b>	<b>12</b>	<b>23</b>
<b>Estimated Property Damage (thousands of \$)</b>	48,585	50,100	48,950	40,550	105,500	293,685
<b>Total Vehicles</b>	34	19	17	18	15	103

Injury Severity

Time of Day of All Crashes by Day of Week								
Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE								
City of Waterloo, Black Hawk County, Iowa from 2008-2012								
Time of Day	Day of Week							Total
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
Midnight–12:59 AM								
1:00 AM–1:59 AM								
2:00 AM–2:59 AM								
3:00 AM–3:59 AM								
4:00 AM–4:59 AM								
5:00 AM–5:59 AM								
6:00 AM–6:59 AM		2	1					3
7:00 AM–7:59 AM					1			1
8:00 AM–8:59 AM		1			1			2
9:00 AM–9:59 AM		1	1			1		3
10:00 AM–10:59 AM		1		1	2			4
11:00 AM–11:59 AM				2			1	3
Noon–12:59 PM				2	1	1		4
1:00 PM–1:59 PM			2		1		1	4
2:00 PM–2:59 PM						2		2
3:00 PM–3:59 PM			1	2	2	1	1	7
4:00 PM–4:59 PM		1	1			1		3
5:00 PM–5:59 PM	1		1					2
6:00 PM–6:59 PM					1			1
7:00 PM–7:59 PM		2				1		3
8:00 PM–8:59 PM			1			1		2
9:00 PM–9:59 PM								
10:00 PM–10:59 PM				1				1
11:00 PM–11:59 PM								
<b>Total</b>	<b>1</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>9</b>	<b>8</b>	<b>3</b>	<b>45</b>

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Major Cause of All Crashes by Severity Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Major Cause	Severity					Total
	Fatal	Major Injury	Minor Injury	Possible/ Unknown Injury	Property Damage	
Animal						
Ran Traffic Signal				3	4	7
Ran Stop Sign						
Crossed Centerline						
FTYROW:At Uncontrolled Intersection						
FTYROW:Making Right Turn on Red Signal					1	1
FTYROW:From Stop Sign					1	1
FTYROW:From Yield Sign						
FTYROW:Making Left Turn			2	1	3	6
FTYROW:From Driveway						
FTYROW:From Parked Position						
FTYROW:To Pedestrian						
FTYROW:Other						
Traveling Wrong Way or On Wrong Side of Road						
Driving Too Fast For Conditions						
Exceeded Authorized Speed						
Made Improper Turn			1	1	6	8
Improper Lane Change						
Followed Too Close					2	2
Disregarded RR Signal						
Disregarded Warning Sign						
Erratic/Reckless/Careless/Negligent/Aggressive						
Improper Backing						
Illegally Parked/Unattended						
Swerving/Evasive Action						
Over Correcting/Over Steering						
Downhill Runaway						
Equipment Failure						
Separation of Units						
Ran Off Road - Right						
Ran Off Road - Straight						
Ran Off Road - Left						
Lost Control			1		2	3
Inattentive/Distracted by:Passenger						
Inattentive/Distracted by:Phone/Device						
Inattentive/Distracted by:Fallen Object						
Inattentive/Distracted by:Fatigued/Asleep						
Other:Vision Obstructed						
Oversized Load/Vehicle						
Cargo/Equipment Loss or Shift						
Other Improper Action		1		1	8	10
Unknown				1	5	6
No Improper Action					1	1
Not Reported						
<b>Total</b>		1	4	7	33	45

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Manner of Collision of Crashes by Year Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Manner of Collision	Year					Total
	2008	2009	2010	2011	2012	
Non-Collision						
Head-on						
Rear-end	4	2	1	2		9
Angle, oncoming left turn	3	3		2	3	11
Broadside	1	1	4	2	1	9
Sideswipe, same direction	7	3	2	3	1	16
Sideswipe, opposite direction						
Unknown						
Not Reported						
<b>Total Crashes</b>	<b>15</b>	<b>9</b>	<b>7</b>	<b>9</b>	<b>5</b>	<b>45</b>

Weather Condition of Crashes by Year Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Weather Condition	Year					Total
	2008	2009	2010	2011	2012	
Clear	8	2	5	6	4	25
Partly Cloudy	4	2		1	1	8
Cloudy	1	4	1	1		7
Fog/Smoke						
Mist		1				1
Rain	2					2
Sleet/Hail/Freezing Rain						
Snow			1	1		2
Severe Winds						
Blowing Sand/Soil/Dirt/Snow						
Not Reported						
Other						
Unknown						
<b>Total Crashes</b>	<b>15</b>	<b>9</b>	<b>7</b>	<b>9</b>	<b>5</b>	<b>45</b>

Surface Condition of Crashes by Year Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Surface Condition	Year					Total
	2008	2009	2010	2011	2012	
Dry	10	8	4	8	4	34
Wet	3	1			1	5
Ice	2		1			3
Snow			1	1		2
Slush			1			1
Sand/Mud/Dirt/Oil/Gravel						
Water (Standing/Moving)						
Other						
Unknown						
Not Reported						
<b>Total Crashes</b>	<b>15</b>	<b>9</b>	<b>7</b>	<b>9</b>	<b>5</b>	<b>45</b>

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Drug or Alcohol Related Crashes by Year						
Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE						
City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Drug/Alcohol	Year					Total
	2008	2009	2010	2011	2012	
Drug						
Alcohol (<Statutory)						
Alcohol (Statutory)						
Drug/Alcohol (<Statutory)						
Drug/Alcohol (Statutory)						
Refused						
Under Influence of Alcohol/Drugs/Medications						
None Indicated	15	9	7	9	5	45
<b>Total Crashes</b>	15	9	7	9	5	45

Vehicle Action of Drivers Involved in Crashes by Initial Direction of Travel							
Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE							
City of Waterloo, Black Hawk County, Iowa from 2008-2012							
Vehicle Action	Initial Direction of Travel						Total
	North	East	South	West	Unknown	Not Reported	
Movement Essentially Straight	3	10	9	10			32
Turning Left	2	8	23	3			36
Turning Right	1	6	1	1			9
Making U-turn		1					1
Overtake/Passing							
Changing Lanes							
Entering Traffic Lane (Merging)							
Leaving Traffic Lane							
Backing							
Slowing/Stopping		1	2	3			6
Stopped for Stop Sign/Signal	2	6	8	2			18
Legally Parked							
Illegally Parked/Unattended							
Other		1					1
Not Reported							
Unknown							
<b>Total Crashes</b>	8	33	43	19			103

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Driver Contributing Circumstances of Drivers by Severity						
Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE						
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Driver Contributing Circumstances	Severity					Total
	Fatal	Major Injury	Minor Injury	Possible/ Unknown Injury	Property Damage	
Ran Traffic Signal				3	4	7
Ran Stop Sign						
Exceeded Authorized Speed						
Driving Too Fast For Conditions						
Made Improper Turn			1	1	8	10
Traveling Wrong Way or On Wrong Side Of Road						
Crossed Centerline						
Lost Control			1		4	5
Followed Too Close					2	2
Swerved To Avoid: Vehicle/Object/Non-motorist/or Animal						
Over Correcting/Over Steering						
Operating Vehicle in an						
FTYROW: From Stop Sign					1	1
FTYROW: From Yield Sign						
FTYROW: Making Left Turn			2	1	3	6
FTYROW: Making Right Turn On Red Signal					1	1
FTYROW: From Driveway						
FTYROW: From Parked Position						
FTYROW: To Pedestrian						
FTYROW: At Uncontrolled Intersection						
FTYROW: Other						
Inattentive/Distracted By: Passenger						
Inattentive/Distracted By: Use of Phone or Other Device						
Inattentive/Distracted By: Fallen Object						
Inattentive/Distracted By:Fatigued/Asleep						
Other: Vision Obstructed						
Other Improper Action		1		1	8	10
No Improper Action		2	5	12	31	50
Not Reported						
Unknown				2	9	11
<b>Total Crashes</b>		3	9	20	71	103

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Driver Age of All Crashes by Year						
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City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Driver Age	Year					Total
	2008	2009	2010	2011	2012	
< 14						
= 14						
= 15	1					1
= 16						
= 17		1				1
= 18	1	1				2
= 19	1	2		1		4
= 20	3		1	1		5
21-24	5	1	2		2	10
25-29	5	2	2	1	1	11
30-34	3			1		4
35-39	2	1		1	2	6
40-44			1	1	2	4
45-49	2		1	2	2	7
50-54	1	3	3	2	3	12
55-59	4	1	1		1	7
60-64		3	1	2	1	7
65-69	2	1	3			6
70-74	1	2		1		4
75-79			1	2		3
80-84	2	1	1	2	1	7
85-89						
90-94				1		1
> 95						
Not Reported						
Unknown	1					1
<b>Total Crashes</b>	<b>34</b>	<b>19</b>	<b>17</b>	<b>18</b>	<b>15</b>	<b>103</b>

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Vehicle Configuration of Drivers Involved in Crashes by Year Intersection of W SAN MARNAN DR & E SAN MARNAN DR & KIMBALL AVE City of Waterloo, Black Hawk County, Iowa from 2008-2012						
Vehicle Configuration	Year					Total
	2008	2009	2010	2011	2012	
Passenger Car	18	11	11	7	5	52
Four-tire Light Truck (Pick-up/Panel)	4	2	1	1	4	12
Van or Mini-van	5	1	2	2	1	11
Sport Utility Vehicle	6	2	3	6	4	21
Single-unit Truck (2-axle/6-tire)	1			1		2
Single-unit Truck (>= 3 axle)						
Truck/Trailer						
Truck Tractor (Bobtail)						
Tractor/Semi-trailer		2		1	1	4
Tractor/Doubles						
Tractor/Triples						
Other Heavy Truck (cannot classify)						
Motor Home/Recreational Vehicle						
Motorcycle						
Moped/All-Terrain Vehicle						
School Bus (seats>15)						
Small School Bus (seats 9-15)						
Other Bus (seats>15)		1				1
Other Small Bus (seats 9-15)						
Farm Vehicle/Equipment						
Maintenance/Construction Vehicle						
Train						
Other						
Not Reported						
Unknown						
<b>Total Crashes</b>	34	19	17	18	15	103

**Disclaimer:**

The information contained in this report was derived from the January 15, 2014 Iowa Department of Transportation crash database.

If errors or odd cases are found, please communicate the case number or send a printed crash report to Michael Pawlovich, Iowa DOT, Office of Traffic and Safety, ([Michael.Pawlovich@dot.iowa.gov](mailto:Michael.Pawlovich@dot.iowa.gov), 515.239.1428).

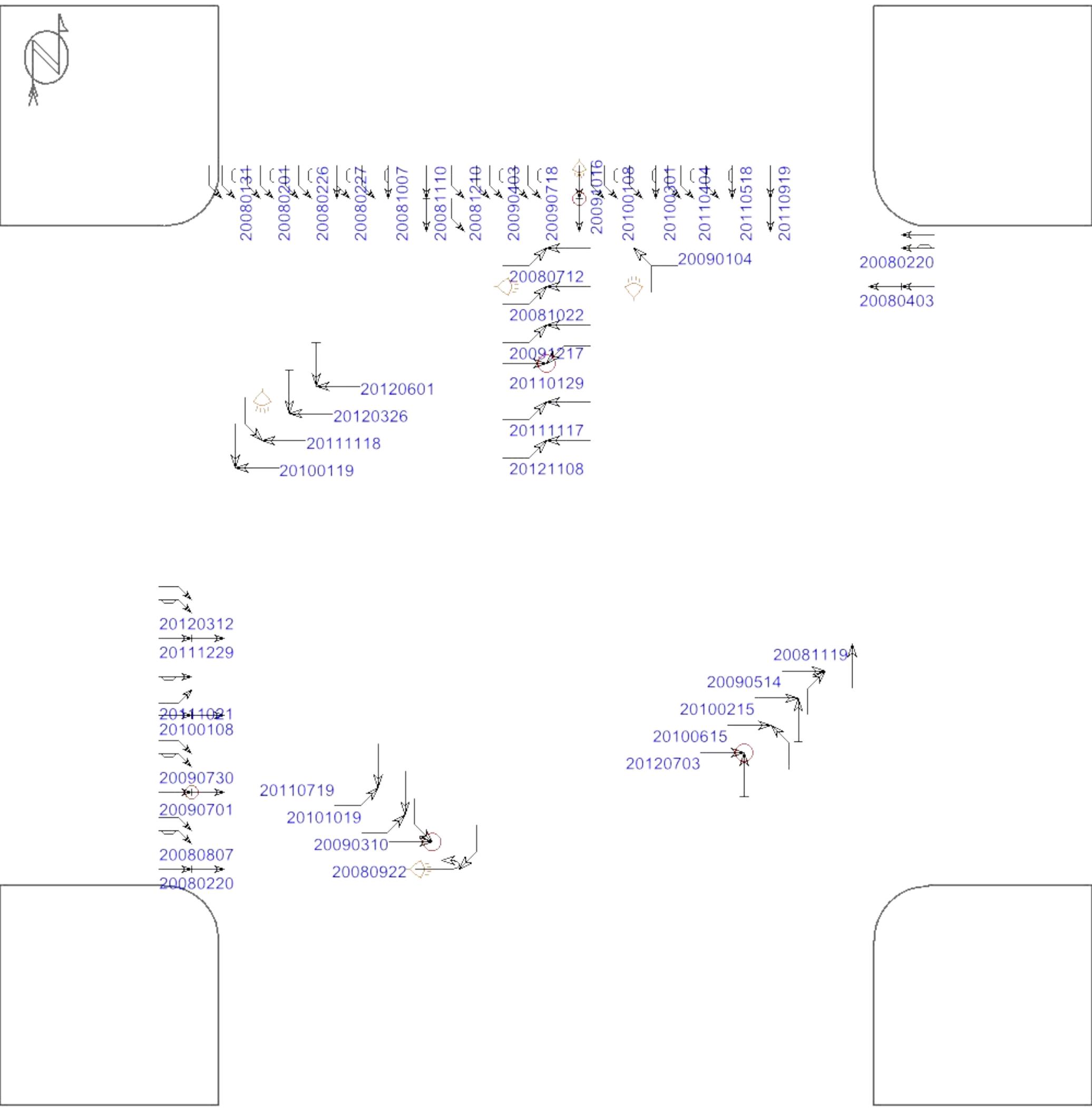


IOWA STATE  
UNIVERSITY



# San Marnan Dr. & Kimball Ave.

2008 - 2012 Reportable Crashes



(0) crashes could not be placed in this schematic

- |  |  |   |  |
|--|--|---|--|
| <ul style="list-style-type: none"> <li>← Straight</li> <li>← Stopped</li> <li>← Unknown</li> <li>← Backing</li> <li>← Overtaking</li> <li>← Sideswipe</li> </ul> | <ul style="list-style-type: none"> <li>▭ Parked</li> <li>← Erratic</li> <li>← Out of control</li> <li>↘ Right turn</li> <li>↙ Left turn</li> <li>↻ U-turn</li> </ul> | <ul style="list-style-type: none"> <li>× Pedestrian</li> <li>⊗ Bicycle</li> <li>○ Injury</li> <li>⊙ Fatality</li> <li>☾ Nighttime</li> <li>⚠ DUI</li> </ul> | <p><b>Fixed objects:</b></p> <ul style="list-style-type: none"> <li>□ General</li> <li>▣ Signal</li> <li>▤ Tree</li> <li>▣ Pole</li> <li>▣ Curb</li> <li>⊗ Animal</li> </ul> |
|  |  |   | <ul style="list-style-type: none"> <li>◁ 3rd vehicle</li> <li>* Extra data</li> </ul>  |