

# **Traffic Crash Data for 2009**



Department of Transportation  
Engineering & Operations Division

8/2/2010

## **Introduction**

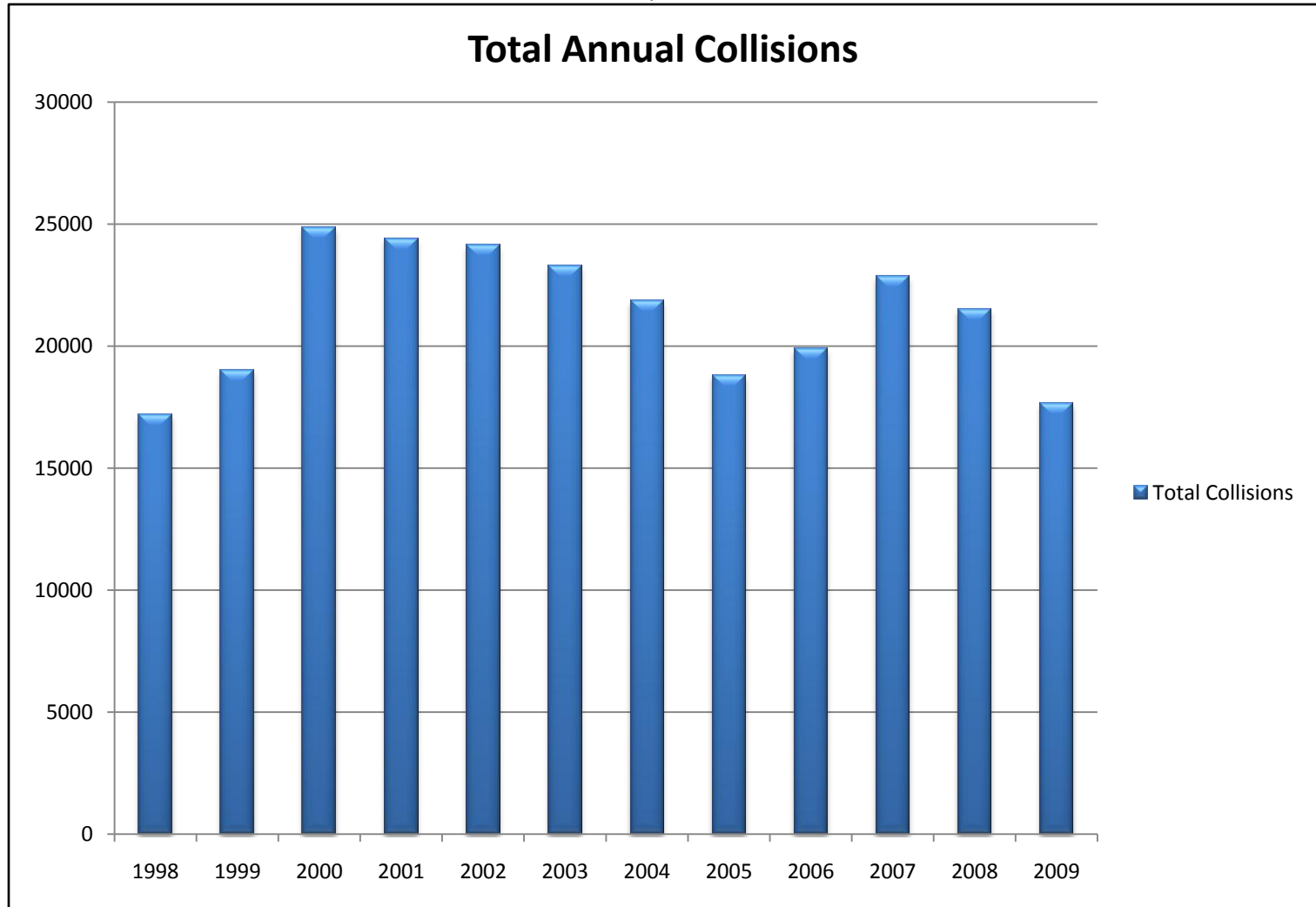
The Traffic Safety Section within the Charlotte Department of Transportation is responsible for the compilation and analysis of collisions that occur within the Right of Way inside the city limits of Charlotte. This data is used to develop projects and programs to address documented collision patterns with the ultimate goal of reducing collisions throughout the City. Included in this report are the collision data and trends from calendar year 2009. The data presented in this report does not include collisions that occurred on the Interstate highways (I-77, I-85, I-485, and I-277) or collisions that occur within parking areas.

All data used for this report is current at the date of printing. CDOT reserves the right to revise any and all collision information contained herein without providing additional notice. For current information regarding specific locations contact the Traffic Safety Section.

For additional information please contact:

Debbie Self, PE  
Traffic Safety, ITS and Special Projects Section Manager  
Charlotte Department of Transportation (CDOT)  
704.336.3935  
[drself@charlottenc.gov](mailto:drself@charlottenc.gov)

2009 Crash Summary  
Collisions by Year

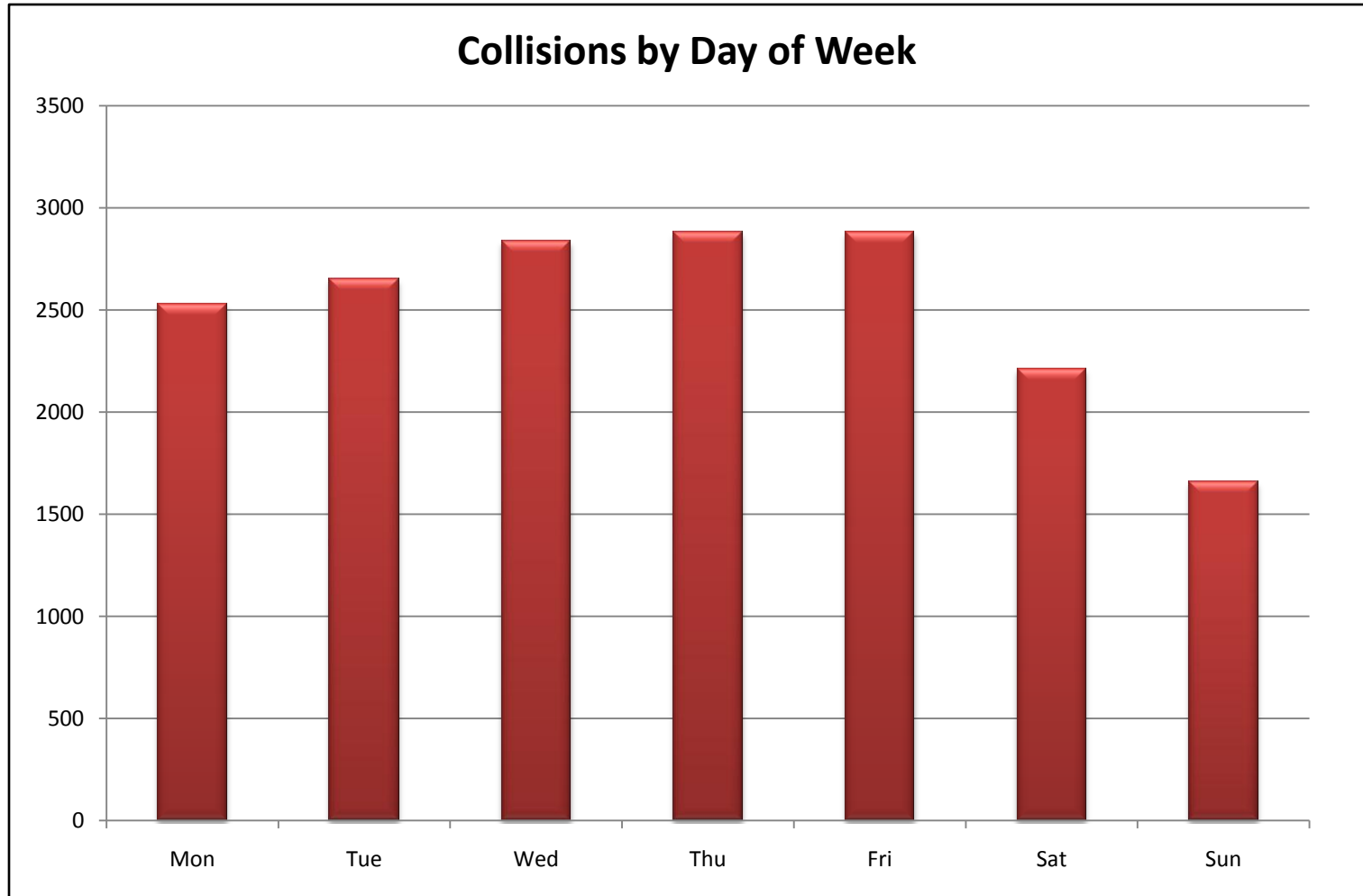


2009 Crash Summary

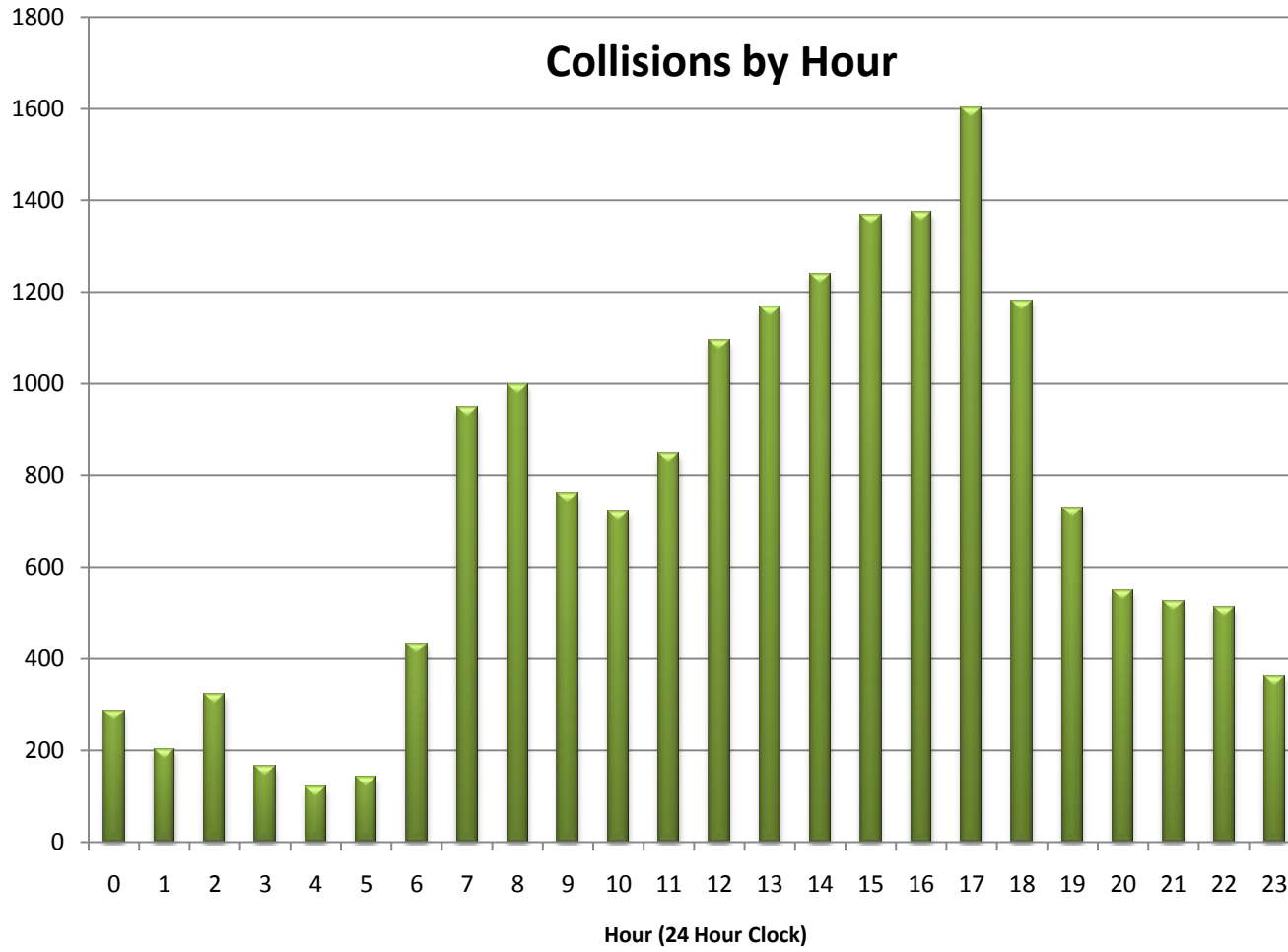
Collisions by Month

Month of Year	Total Number of Crashes	Percent of Total
January	1,508	8.54%
February	1,564	8.86%
March	1,688	9.96%
April	1,374	7.79%
May	1,483	8.40%
June	1,305	7.39%
July	1,302	7.38%
August	1,336	7.57%
September	1,376	7.80%
October	1,605	9.09%
November	1,584	8.98%
December	1,523	8.63%
<b>Total</b>	<b>17,648</b>	<b>100.00%</b>

2009 Crash Summary  
Collisions by Day of Week



2009 Crash Summary  
Collisions by Hour Day of the Day



2009 Crash Summary  
Collisions by Environmental Factors

Road Condition

Type of Condition	Total Number of Crashes	Percent of Total
Dry	13,317	75.46%
Wet	3,862	21.88%
Ice	176	1.00%
Snow	120	0.68%
Water (standing, moving)	100	0.57%
Unknown	42	0.24%
Slush	20	0.11%
Other*	5	0.03%
Fuel, Oil	4	0.02%
Sand, Mud, Dirt, Gravel	2	0.01%
<b>Total</b>	<b>17,648</b>	<b>100%</b>

Ambient Light

Type of Condition	Total Number of Crashes	Percent of Total
Daylight	12,422	70.39%
Dark - lighted roadway	3,403	19.28%
Dark - roadway not lighted	812	4.60%
Dusk	466	2.64%
Dawn	322	1.82%
Dark - unknown lighting	132	0.75%
Unknown	84	0.48%
Other*	7	0.04%
<b>Total</b>	<b>17,648</b>	<b>100.00%</b>

2009 Crash Summary  
Collisions Severity and Outcome

<b>Collision Severity</b>	<b>Total Collisions</b>	<b>Percent of Total Collisions</b>
Fatal	40	0.28%
Injury	6,100	34.51%
Property Damage Only	11,508	65.21%
<b>Total</b>	<b>17,648</b>	<b>100%</b>



2009 Crash Summary  
Collisions by Motorist Contributing Circumstances

Contributing Circumstances	Total Collisions	Percent of Total Collisions
Inattention	3,812	22.38%
Failure to reduce speed	3,215	18.87%
Failed to yield right of way	2,302	13.51%
No contributing circumstance indicated	987	5.79%
Unable to determine	876	5.14%
Followed too closely	771	4.53%
Improper lane change	616	3.62%
Disregarded traffic signals	595	3.49%
Improper turn	583	3.42%
Exceeded safe speed for conditions	495	2.91%
Alcohol use	284	1.67%
Other*	249	1.46%
Overcorrected/oversteered	216	1.27%
Improper backing	214	1.26%
Operated vehicle in erratic, reckless, careless, negligent or aggressive manner	210	1.23%
Crossed centerline/going wrong way	206	1.21%
Swerved or avoided due to wind, slippery surface, vehicle, object, non-motorist	197	1.16%
Driver distracted	180	1.06%
Unknown	167	0.98%
Disregarded stop sign	162	0.95%
Other improper passing	147	0.86%
Exceeded authorized speed limit	135	0.79%
Visibility obstructed	115	0.68%
Operated defective equipment	99	0.58%
Disregarded other traffic signs	50	0.29%
Use of improper lane	48	0.28%
Disregarded road markings	31	0.18%
Disregarded yield sign	19	0.11%
Right turn on red	18	0.11%
Improper parking	14	0.08%
Drug use	9	0.05%
Passed stopped school bus	6	0.04%
Improper or no signal	3	0.02%
Passed on hill	2	0.01%
Passed on curve	2	0.01%
<b>Total</b>	<b>17,035</b>	<b>100.00%</b>

## 2009 Crash Summary

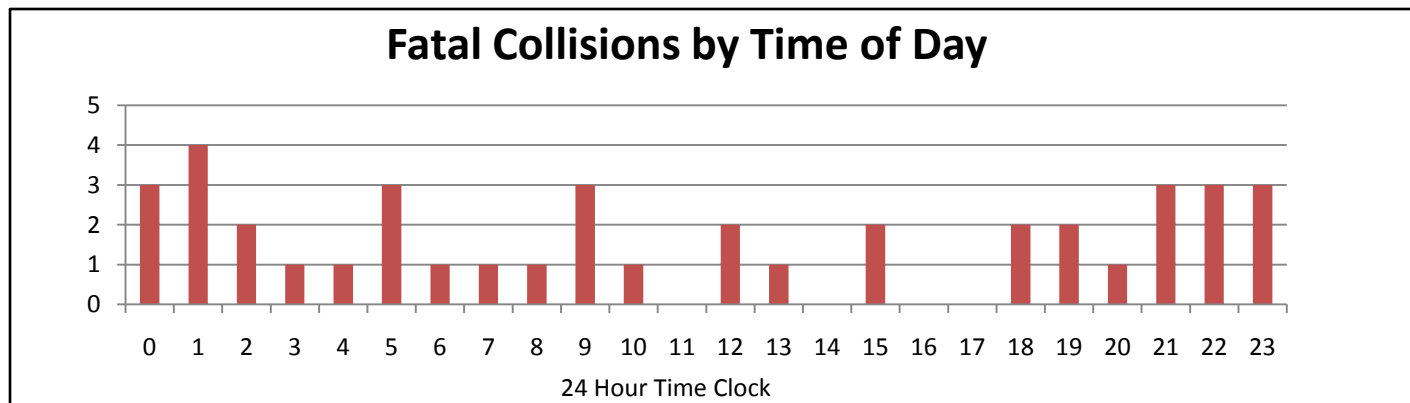
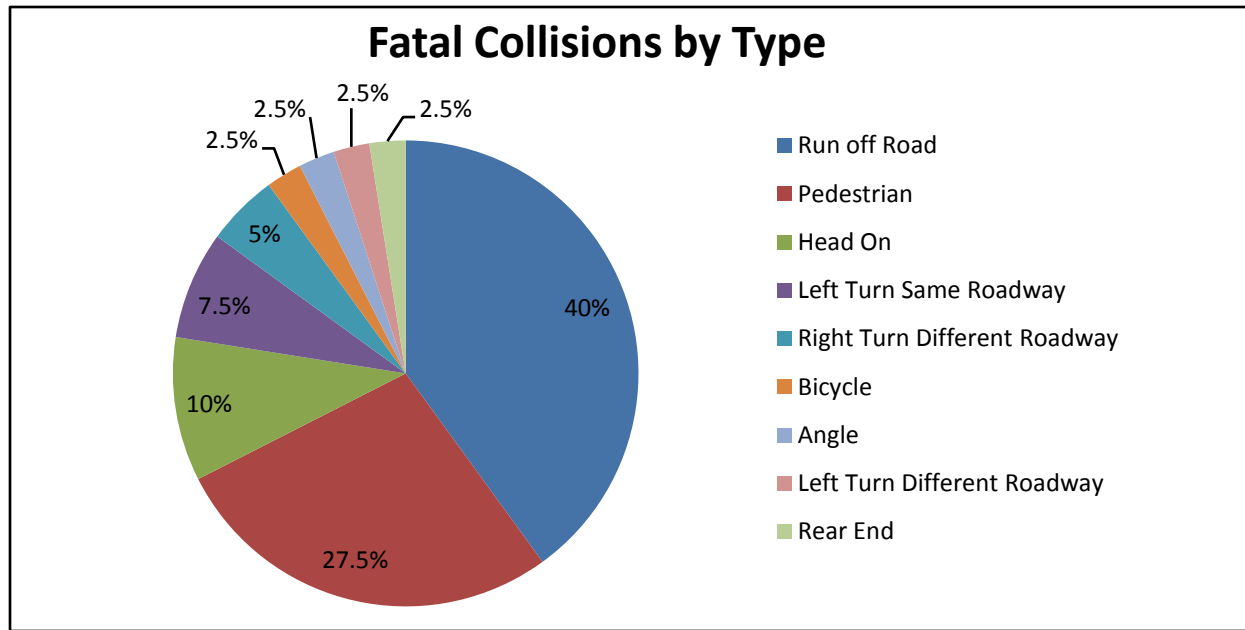
### Collision Rates by Volume

Year	VMT	Crashes	Crashes Per Million Vehicle Miles	Fatal Crashes	Fatalities Per Million Vehicle Miles
2000	17,050,383	24,856	1,458	79	4.63
2001	17,035,215	24,407	1,433	45	2.64
2002	17,699,261	24,137	1,364	48	2.71
2003	18,583,633	23,302	1,254	53	2.85
2004	20,095,648	21,860	1,088	39	1.94
2005	22,412,325	18,802	839	51	2.28
2006	22,343,242	19,892	890	63	2.82
2007	22,516,834	22,224	987	52	2.31
2008	22,051,666	22,401	1,016	42	1.90
2009	20,333,841	17,648	868	40	1.97

### Pedestrian and Bicycle Collisions by Population

Year	Population	Pedestrian Collisions	Pedestrian Crashes Per 10,000 Persons	Bicycle Collisions	Bicycle Collisions Per 10,000 Persons
2000	540,828	249	4.60	115	2.13
2001	551,645	263	4.77	94	1.70
2002	579,684	234	4.04	98	1.69
2003	594,176	271	4.56	71	1.19
2004	614,330	223	3.63	105	1.71
2005	632,760	198	3.13	79	1.25
2006	640,270	230	3.59	92	1.44
2007	664,342	311	4.68	91	1.37
2008	674,752	345	5.11	114	1.69
2009	692,097	297	4.29	83	1.20

2009 Crash Summary  
Fatal Collision Summary



## 2010 High Accident Locations

### **Introduction**

CDOT releases the annual High Accident Locations (HAL) to heighten motorist awareness of locations that have an elevated crash rate. This list is also used in conjunction with other statistical reports to determine locations that have the potential for crash reduction countermeasures. These countermeasures are selected based on detailed engineering studies, availability of funding and other various factors.

### **HAL Calculation Methodology**

The calculation for the HAL is as follows:

Step 1. Select all intersections with 15 or more collisions in a 3-year period

Step 2. Section any intersections not identified above having 5 or more collisions with 75% occurring in the current year (2009).

Step 3. Calculate crash rates for all intersections meeting above criteria.

$$\text{Crash Rate} = (C * 1,000,000) / (V * N * 365)$$

where;

C= 3 years' collisions

V= Intersection volume

N= Number of years

Step 4. Determine HAL cutoff, should be an even number and allow for at least 50 locations. The cutoff for 2006, 2007 and 2008 was a crash rate of 1.30. The cutoff for 2009 is a crash rate of 1.20.

Two versions of the HAL are presented on the following pages, rank order and street name order.

ID	Location	Collisions			3 Years Total	Avg Volume	Crash Rate	Rank	Prior Year Rank	Notes
		2007	2008	2009						
13108	E MARTIN LUTHER KING JR BV & S DAVIDSON ST	11	19	16	46	9,800	4.29	1	3	Recent CDOT Signalization Project, Estimated Volume
13736	CAMDEN RD & E PARK AV & W PARK AV	4	8	2	14	4,900	2.61	2	4	Estimated Volume
27388	CONLAN CR & JOHN J DELANEY DR	13	12	7	32	11,200	2.61	3	5	Estimated Volume
11693	E 12TH ST & N COLLEGE ST	15	6	3	24	8,800	2.49	4	2	ADT from 2008
48168	NORTHLAKE MALL DR & PERIMETER PY	8	11	6	25	9,800	2.33	5	13	Estimated Volume
2975	BROWNE RD & EASTFIELD RD	10	12	6	28	11,000	2.32	6	6	NCDOT Signalization Project
3146	MALLARD CREEK RD & ODELL SCHOOL RD	14	9	7	30	12,300	2.23	7	19	Recent NCDOT Project
11331	E W T HARRIS BV & MEADOW ROSE LN & MILTON RD	39	25	21	85	36,000	2.16	8	10	Recent CDOT Signalization Project
9902	CAMBRIDGE COMMONS DR & HARRISBURG RD	9	13	17	39	17,000	2.10	9	52	
8847	E SUGAR CREEK RD & N TRYON ST & W SUGAR CREEK RD	44	27	46	117	51,100	2.09	10	11	ADT from 2007
10100	ASHLEY RD & FREEDOM DR & TUCKASEEGEE RD	42	33	12	87	38,900	2.04	11	8	ADT from 2007
4866	E MALLARD CREEK CHURCH RD & N TRYON ST & W MALLARD CREEK CHURCH RD	37	38	27	102	47,100	1.98	12	26	ADT from 2008
3152	EASTFIELD RD & OLD STATESVILLE RD	12	13	6	31	14,500	1.95	13	18	
13600	3RD-4TH CONNECTOR ST & E 4TH ST & N KINGS DR & S KINGS DR	29	41	23	93	45,400	1.87	14	15	
11956	E 9TH ST & N COLLEGE ST	7	8	2	17	8,400	1.85	15	1	ADT from 2008
12170	S POPLAR ST & W 4TH ST	12	6	3	21	10,500	1.83	16	20	2-way Conversion, ADT from 2008
24904	PINEVILLE-MATTHEWS RD & PROVIDENCE RD	56	54	31	141	71,300	1.81	17	22	ADT from 2008
10622	MULBERRY CHURCH RD & QUEEN CITY DR	16	15	6	37	18,800	1.80	18	43	
6971	N TRYON ST & REAGAN DR	6	12	5	23	11,700	1.80	19	12	Estimated Volume
5672	BEATTIES FORD RD & SUNSET RD	35	28	13	76	39,000	1.78	20	16	Beatties Ford Widening
12110	S MINT ST & W 4TH ST	8	5	4	17	8,800	1.76	21	30	Potential 2-way Conversion, ADT from 2008
21549	S TRYON ST & SANDY PORTER RD	23	28	15	66	34,200	1.76	22	25	ADT from 2007
11639	PARKWOOD AV & PEGRAM ST	15	10	9	34	17,800	1.74	23	14	Estimated Volume
12413	E 6TH ST & N BREVARD ST	11	11	5	27	14,200	1.74	24	55	ADT from 2007
13420	E BLAND ST & S TRYON ST & W BLAND ST	9	11	9	29	15,300	1.73	25	111	ADT from 2008
12396	E TRADE ST & N COLLEGE ST & S COLLEGE ST	15	18	12	45	23,800	1.73	26	24	Under construction, ADT from 2006
12618	E 5TH ST & N CALDWELL ST	5	17	13	35	18,700	1.71	27	89	ADT from 2008
21514	E ARROWOOD RD & NATIONS FORD RD & W ARROWOOD RD	21	23	11	55	29,500	1.70	28	7	Potential Intersection Enhancement Project, ADT from 2008
50041	CHARLOTTETOWNE AV METROPOLITAN AV	0	7	15	22	12,000	1.67	29	Not Ranked	
4698	LAWING RD & MIRANDA RD & OAKDALE RD & SUNSET RD	8	3	2	13	7,100	1.67	30	17	Recent Spot Safety Project
25815	PINEVILLE-MATTHEWS RD & REA RD	32	37	23	92	50,900	1.65	31	41	
15762	HOPEDALE AV & QUEENS RD	6	5	3	14	7,800	1.64	32	45	Estimated Volume
11972	N POPLAR ST & W 5TH ST	9	5	3	17	9,700	1.60	33	29	Potential 2-way Conversion, ADT from 2008
4061	DAVID COX RD & LAKEVIEW RD & OLD STATESVILLE RD	9	11	8	28	16,000	1.60	34	28	
15253	ALBEMARLE RD & E W T HARRIS BV	45	63	55	163	93,200	1.60	35	50	Bond Project
15882	EAST BV & QUEENS RD WEST & S KINGS DR	20	19	14	53	30,400	1.59	36	32	
12038	E 8TH ST & N COLLEGE ST	8	5	2	15	8,700	1.57	37	9	Estimated Volume
22250	SHARON LAKES RD & SOUTH BV & SWEDEN RD	21	16	16	53	30,800	1.57	38	54	
13763	CENTRAL AV & EASTWAY DR	32	46	22	100	58,200	1.57	39	23	
21312	E ARROWOOD RD & SOUTH BV & STARBROOK DR	24	29	16	69	40,800	1.54	40	51	
3149	MALLARD CREEK RD & RIDGE RD	13	3	9	25	14,800	1.54	41	126	Estimated Volume
11262	EASTWAY DR & FRONTENAC AV & SHAMROCK DR	36	33	17	86	51,000	1.54	42	36	
12991	E MOREHEAD ST & S TRYON ST & W MOREHEAD ST	20	21	12	53	31,500	1.54	43	72	ADT from 2007
12809	E 7TH ST & N MCDOWELL ST	16	16	13	45	26,800	1.53	44	109	
8329	BEATTIES FORD RD & LASALLE ST	17	22	11	50	29,900	1.53	45	21	
15287	ALBEMARLE RD & N SHARON AMITY RD	48	57	27	132	79,000	1.53	46	56	
7195	REAGAN DR & TOM HUNTER DR	6	4	6	16	9,600	1.52	47	67	
15195	ALBEMARLE RD & FARM POND LN	37	29	32	98	58,800	1.52	48	76	
11979	E 12TH ST & E BROOKSHIRE FR RA & N CALDWELL ST	16	25	13	54	32,400	1.52	49	97	ADT from 2008
13343	E 7TH ST & E INDEPENDENCE BV	16	19	18	53	32,000	1.51	50	136	
17151	E INDEPENDENCE BV & IDLEWILD RD	48	60	40	148	89,900	1.50	51	83	ADT from 2007
12265	S CHURCH ST & W 4TH ST	16	7	9	32	19,500	1.50	52	42	ADT from 2003
8181	FREEDOM DR & TODDVILLE RD	12	11	8	31	19,000	1.49	53	65	ADT from 2007
11232	BARRINGTON DR & MILTON RD	6	10	6	22	13,500	1.49	54	64	Estimated Volume
12135	E 7TH ST & N COLLEGE ST	7	12	6	25	15,600	1.46	55	Not Ranked	ADT from 2008

ID	Location	Collisions			3 Years Total	Avg Volume	Crash Rate	Rank	Prior Year Rank	Notes
		2007	2008	2009						
4364	N I-85 RA & W MALLARD CREEK CHURCH RD	11	17	8	36	22,500	1.46	56	Not Ranked	Estimated Volume
998	CAROWINDS BV & CATAWBA TRACE & CHOATE CR	11	16	15	42	26,600	1.44	57	135	ADT from 2007
7380	REAGAN DR & W SUGAR CREEK RD	33	24	19	76	48,400	1.43	58	57	ADT from 2007
11311	MILTON RD & N SHARON AMITY RD	19	17	13	49	31,400	1.43	59	133	
11625	E 11TH ST & N COLLEGE ST	13	14	8	35	22,500	1.42	60	66	Spot Safety Project, ADT from 2008
19869	ARCHDALE DR & CHERRYCREST LN	7	8	3	18	11,600	1.42	61	46	Estimated Volume
13912	CHARLOTTETOWNE AV & E JOHN BELK RA & KENILWORTH AV	15	31	21	67	43,400	1.41	62	Not Ranked	
14442	CENTRAL AV & N SHARON AMITY RD	45	35	24	104	67,600	1.40	63	44	
15908	HOLBROOK DR & N SHARON AMITY RD	10	2	6	18	11,700	1.40	64	60	Estimated Volume
18776	SOUTH BV & TYVOLA RD	49	39	15	103	67,500	1.39	65	37	
13302	E 4TH ST & E JOHN BELK RA	9	11	7	27	17,700	1.39	66	80	Estimated Volume
23328	SLEDGE RD & STEELE CREEK RD	7	12	9	28	18,500	1.38	67	96	Estimated Volume
16439	OLD PINEVILLE RD & SCALEYBARK RD & SOUTH BV	23	16	7	46	30,400	1.38	68	73	
8549	LASALLE ST & NEWCASTLE ST & NEWLAND RD	6	11	5	22	14,600	1.38	69	118	Estimated Volume
13531	REMOUNT RD & WEST BV	14	15	12	41	27,400	1.37	70	88	
11707	N GRAHAM ST & W 6TH ST	12	21	10	43	28,800	1.36	71	85	ADT from 2008
7554	BACK CREEK CHURCH RD & ROCKY RIVER RD	7	9	3	19	12,800	1.36	72	103	Estimated Volume
11981	N CHURCH ST & W 6TH ST	11	4	3	18	12,100	1.36	73	128	Estimated Volume
10162	E SUGAR CREEK RD & THE PLAZA	21	28	13	62	42,200	1.34	74	33	
14183	OLD STEELE CREEK RD & WEST BV	15	8	8	31	21,200	1.34	75	Not Ranked	
12779	E TRADE ST & N DAVIDSON ST & S DAVIDSON ST	9	8	10	27	18,500	1.33	76	Not Ranked	ADT from 2008
12978	E MARTIN LUTHER KING JR BV & S CALDWELL ST	9	5	3	17	11,700	1.33	77	34	Estimated Volume
15243	ALBEMARLE RD & REGAL OAKS DR	28	19	24	71	49,000	1.32	78	Not Ranked	ADT from 2007
9768	EASTWAY DR & THE PLAZA	33	24	27	84	58,100	1.32	79	78	
21992	S TRYON ST & WESTINGHOUSE BV	33	34	13	80	55,800	1.31	80	47	ADT from 2007
11846	BOYER ST & OLD DOWD RD	5	11	7	23	16,200	1.30	81	98	Estimated Volume
13667	E 7TH ST & HAWTHORNE LN	12	22	4	38	27,200	1.28	82	77	
5832	KEN HOFFMAN DR & N TRYON ST	11	20	13	44	31,500	1.28	83	108	ADT from 2008
12220	E 6TH ST & N COLLEGE ST	8	13	6	27	19,400	1.27	84	Not Ranked	ADT from 2007
4332	S I-85 RA & W MALLARD CREEK CHURCH RD	14	17	18	49	35,300	1.27	85	107	
12013	FREEDOM DR & W MOREHEAD ST	23	20	7	50	36,200	1.26	86	53	ADT from 2007
13099	E TRADE ST & ELIZABETH AV & N MCDOWELL ST & S MCDOWELL ST	16	13	10	39	28,300	1.26	87	70	
3973	MALLARD CREEK RD & PROSPERITY CHURCH RD & W MALLARD CREEK CHURCH RD	23	20	15	58	42,100	1.26	88	Not Ranked	ADT from 2008
12285	E TRADE ST & N TRYON ST & S TRYON ST & W TRADE ST	15	5	7	27	19,600	1.26	89	Not Ranked	ADT from 2008
12089	E 12TH ST & N DAVIDSON ST	12	13	9	34	24,700	1.26	90	105	ADT from 2008
12068	N POPLAR ST & S POPLAR ST & W TRADE ST	8	6	7	21	15,300	1.25	91	Not Ranked	ADT from 2008
11164	CAMP GREENE ST & FREEDOM DR	18	17	6	41	30,000	1.25	92	91	ADT from 2007
11055	MATHESON AV & THE PLAZA	19	20	10	49	35,900	1.25	93	120	
12806	E STONEWALL ST & S COLLEGE ST	14	15	7	36	26,400	1.25	94	74	ADT from 2008
11847	E 9TH ST & N TRYON ST & W 9TH ST	6	11	4	21	15,400	1.25	95	75	ADT from 2008
14431	N COLONIAL AV & RANDOLPH RD & S COLONIAL AV	13	16	9	38	27,900	1.24	96	Not Ranked	Potential Spot Safety, Estimate Volume
4175	LAKEVIEW RD & STATESVILLE RD	11	5	3	19	14,000	1.24	97	31	Estimated Volume
20422	S TRYON ST & W ARROWOOD RD	27	24	22	73	53,800	1.24	98	134	ADT from 2008
12721	S CHURCH ST & W HILL ST & W JOHN BELK RA	6	5	5	16	11,800	1.24	99	114	Estimated Volume
23162	SHARON RD WEST & SOUTH BV	24	29	5	58	42,900	1.23	100	62	
6943	BEATTIES FORD RD & CINDY LN & GRIERS GROVE RD	10	10	6	26	19,400	1.22	101	Not Ranked	ADT from 2008
14078	EAST BV & SOUTH BV	17	25	19	61	45,600	1.22	102	Not Ranked	
12695	E TRADE ST & N CALDWELL ST & S CALDWELL ST	14	10	8	32	24,000	1.22	103	124	ADT from 2008
12517	N SHARON AMITY RD & SHAMROCK DR	24	20	12	56	42,200	1.21	104	99	
9604	FREEDOM DR & S I-85 RA	15	7	4	26	19,600	1.21	105	129	Estimated Volume
22547	E HEBRON ST & SOUTH BV	19	14	7	40	30,200	1.21	106	101	
14091	E 7TH ST & N CASWELL RD & PECAN AV	15	14	12	41	31,000	1.21	107	79	
11592	N CEDAR ST & S CEDAR ST & W TRADE ST	11	8	9	28	21,200	1.21	108	100	ADT from 2008
12101	E 6TH ST & N TRYON ST & W 6TH ST	13	11	7	31	23,500	1.20	109	116	ADT from 2003
12611	S CHURCH ST & W STONEWALL ST	11	6	6	23	17,500	1.20	110	90	ADT from 2007

ID	Location	Collisions			3 Years Total	Avg Volume	Crash Rate	Rank	Prior Year Rank	Notes
		2007	2008	2009						
13118	CENTRAL AV & E 7TH ST & N KINGS DR	12	31	11	54	41,100	1.20	111	59	
12896	E 6TH ST & N MCDOWELL ST	11	9	4	24	18,300	1.20	112	104	
11783	N GRAHAM ST & W 5TH ST	7	12	13	32	24,400	1.20	113	<i>Not Ranked</i>	ADT from 2008
10936	LITTLE ROCK RD & SCOTT FUTRELL DR	5	12	10	27	20,600	1.20	114	<i>Not Ranked</i>	ADT from 2008
5714	JOHN KIRK DR & UNIVERSITY CITY BV	19	35	17	71	54,200	1.20	115	39	Current Intersection Enhancement Project
13985	CAMDEN RD & EAST BV & WEST BV	9	8	8	25	19,100	1.20	116	<i>Not Ranked</i>	

ID	Location	Collisions			3 Years Total	Avg Volume	Crash Rate	Rank	Prior Year Rank	Notes
		2007	2008	2009						
13600	3RD-4TH CONNECTOR ST & E 4TH ST & N KINGS DR & S KINGS DR	29	41	23	93	45,400	1.87	14	15	
15253	ALBEMARLE RD & E W T HARRIS BV	45	63	55	163	93,200	1.60	35	50	Bond Project
15195	ALBEMARLE RD & FARM POND LN	37	29	32	98	58,800	1.52	48	76	
15287	ALBEMARLE RD & N SHARON AMITY RD	48	57	27	132	79,000	1.53	46	56	
15243	ALBEMARLE RD & REGAL OAKS DR	28	19	24	71	49,000	1.32	78	Not Ranked	ADT from 2007
19869	ARCHDALE DR & CHERRYCREST LN	7	8	3	18	11,600	1.42	61	46	Estimated Volume
10100	ASHLEY RD & FREEDOM DR & TUCKASEEGEE RD	42	33	12	87	38,900	2.04	11	8	ADT from 2007
7554	BACK CREEK CHURCH RD & ROCKY RIVER RD	7	9	3	19	12,800	1.36	72	103	Estimated Volume
11232	BARRINGTON DR & MILTON RD	6	10	6	22	13,500	1.49	54	64	Estimated Volume
6943	BEATTIES FORD RD & CINDY LN & GRIERS GROVE RD	10	10	6	26	19,400	1.22	101	Not Ranked	ADT from 2008
8329	BEATTIES FORD RD & LASALLE ST	17	22	11	50	29,900	1.53	45	21	
5672	BEATTIES FORD RD & SUNSET RD	35	28	13	76	39,000	1.78	20	16	Beatties Ford Widening
11846	BOYER ST & OLD DOWD RD	5	11	7	23	16,200	1.30	81	98	Estimated Volume
2975	BROWNE RD & EASTFIELD RD	10	12	6	28	11,000	2.32	6	6	NCDOT Signalization Project
9902	CAMBRIDGE COMMONS DR & HARRISBURG RD	9	13	17	39	17,000	2.10	9	52	
13736	CAMDEN RD & E PARK AV & W PARK AV	4	8	2	14	4,900	2.61	2	4	Estimated Volume
13985	CAMDEN RD & EAST BV & WEST BV	9	8	8	25	19,100	1.20	116	Not Ranked	
11164	CAMP GREENE ST & FREEDOM DR	18	17	6	41	30,000	1.25	92	91	ADT from 2007
998	CAROWINDS BV & CATAWBA TRACE & CHOATE CR	11	16	15	42	26,600	1.44	57	135	ADT from 2007
13118	CENTRAL AV & E 7TH ST & N KINGS DR	12	31	11	54	41,100	1.20	111	59	
13763	CENTRAL AV & EASTWAY DR	32	46	22	100	58,200	1.57	39	23	
14442	CENTRAL AV & N SHARON AMITY RD	45	35	24	104	67,600	1.40	63	44	
13912	CHARLOTTETOWNE AV & E JOHN BELK RA & KENILWORTH AV	15	31	21	67	43,400	1.41	62	Not Ranked	
50041	CHARLOTTETOWNE AV METROPOLITAN AV	0	7	15	22	12,000	1.67	29	Not Ranked	
27388	CONLAN CR & JOHN J DELANEY DR	13	12	7	32	11,200	2.61	3	5	Estimated Volume
4061	DAVID COX RD & LAKEVIEW RD & OLD STATESVILLE RD	9	11	8	28	16,000	1.60	34	28	
11625	E 11TH ST & N COLLEGE ST	13	14	8	35	22,500	1.42	60	66	Spot Safety Project, ADT from 2008
11979	E 12TH ST & E BROOKSHIRE FR RA & N CALDWELL ST	16	25	13	54	32,400	1.52	49	97	ADT from 2008
11693	E 12TH ST & N COLLEGE ST	15	6	3	24	8,800	2.49	4	2	ADT from 2008
12089	E 12TH ST & N DAVIDSON ST	12	13	9	34	24,700	1.26	90	105	ADT from 2008
13302	E 4TH ST & E JOHN BELK RA	9	11	7	27	17,700	1.39	66	80	Estimated Volume
12618	E 5TH ST & N CALDWELL ST	5	17	13	35	18,700	1.71	27	89	ADT from 2008
12413	E 6TH ST & N BREVARD ST	11	11	5	27	14,200	1.74	24	55	ADT from 2007
12220	E 6TH ST & N COLLEGE ST	8	13	6	27	19,400	1.27	84	Not Ranked	ADT from 2007
12896	E 6TH ST & N MCDOWELL ST	11	9	4	24	18,300	1.20	112	104	
12101	E 6TH ST & N TRYON ST & W 6TH ST	13	11	7	31	23,500	1.20	109	116	ADT from 2003
13343	E 7TH ST & E INDEPENDENCE BV	16	19	18	53	32,000	1.51	50	136	
13667	E 7TH ST & HAWTHORNE LN	12	22	4	38	27,200	1.28	82	77	
14091	E 7TH ST & N CASWELL RD & PECAN AV	15	14	12	41	31,000	1.21	107	79	
12135	E 7TH ST & N COLLEGE ST	7	12	6	25	15,600	1.46	55	Not Ranked	ADT from 2008
12809	E 7TH ST & N MCDOWELL ST	16	16	13	45	26,800	1.53	44	109	
12038	E 8TH ST & N COLLEGE ST	8	5	2	15	8,700	1.57	37	9	Estimated Volume
11956	E 9TH ST & N COLLEGE ST	7	8	2	17	8,400	1.85	15	1	ADT from 2008
11847	E 9TH ST & N TRYON ST & W 9TH ST	6	11	4	21	15,400	1.25	95	75	ADT from 2008
21514	E ARROWOOD RD & NATIONS FORD RD & W ARROWOOD RD	21	23	11	55	29,500	1.70	28	7	Potential Intersection Enhancement Project, ADT from 2008
21312	E ARROWOOD RD & SOUTH BV & STARBROOK DR	24	29	16	69	40,800	1.54	40	51	
13420	E BLAND ST & S TRYON ST & W BLAND ST	9	11	9	29	15,300	1.73	25	111	ADT from 2008
22547	E HEBRON ST & SOUTH BV	19	14	7	40	30,200	1.21	106	101	
17151	E INDEPENDENCE BV & IDLEWILD RD	48	60	40	148	89,900	1.50	51	83	ADT from 2007
4866	E MALLARD CREEK CHURCH RD & N TRYON ST & W MALLARD CREEK CHURCH RD	37	38	27	102	47,100	1.98	12	26	ADT from 2008
12978	E MARTIN LUTHER KING JR BV & S CALDWELL ST	9	5	3	17	11,700	1.33	77	34	Estimated Volume
13108	E MARTIN LUTHER KING JR BV & S DAVIDSON ST	11	19	16	46	9,800	4.29	1	3	Recent CDOT Signalization Project, Estimated Volume
12991	E MOREHEAD ST & S TRYON ST & W MOREHEAD ST	20	21	12	53	31,500	1.54	43	72	ADT from 2007
12806	E STONEWALL ST & S COLLEGE ST	14	15	7	36	26,400	1.25	94	74	ADT from 2008
8847	E SUGAR CREEK RD & N TRYON ST & W SUGAR CREEK RD	44	27	46	117	51,100	2.09	10	11	ADT from 2007
10162	E SUGAR CREEK RD & THE PLAZA	21	28	13	62	42,200	1.34	74	33	
13099	E TRADE ST & ELIZABETH AV & N MCDOWELL ST & S MCDOWELL ST	16	13	10	39	28,300	1.26	87	70	
12695	E TRADE ST & N CALDWELL ST & S CALDWELL ST	14	10	8	32	24,000	1.22	103	124	ADT from 2008



ID	Location	Collisions			3 Years Total	Avg Volume	Crash Rate	Rank	Prior Year Rank	Notes
		2007	2008	2009						
12396	E TRADE ST & N COLLEGE ST & S COLLEGE ST	15	18	12	45	23,800	1.73	26	24	Under construction, ADT from 2006
12779	E TRADE ST & N DAVIDSON ST & S DAVIDSON ST	9	8	10	27	18,500	1.33	76	Not Ranked	ADT from 2008
12285	E TRADE ST & N TRYON ST & S TRYON ST & W TRADE ST	15	5	7	27	19,600	1.26	89	Not Ranked	ADT from 2008
11331	E W T HARRIS BV & MEADOW ROSE LN & MILTON RD	39	25	21	85	36,000	2.16	8	10	Recent CDOT Signalization Project
15882	EAST BV & QUEENS RD WEST & S KINGS DR	20	19	14	53	30,400	1.59	36	32	
14078	EAST BV & SOUTH BV	17	25	19	61	45,600	1.22	102	Not Ranked	
3152	EASTFIELD RD & OLD STATESVILLE RD	12	13	6	31	14,500	1.95	13	18	
11262	EASTWAY DR & FRONTENAC AV & SHAMROCK DR	36	33	17	86	51,000	1.54	42	36	
9768	EASTWAY DR & THE PLAZA	33	24	27	84	58,100	1.32	79	78	
9604	FREEDOM DR & S I-85 RA	15	7	4	26	19,600	1.21	105	129	Estimated Volume
8181	FREEDOM DR & TODDVILLE RD	12	11	8	31	19,000	1.49	53	65	ADT from 2007
12013	FREEDOM DR & W MOREHEAD ST	23	20	7	50	36,200	1.26	86	53	ADT from 2007
15908	HOLBROOK DR & N SHARON AMITY RD	10	2	6	18	11,700	1.40	64	60	Estimated Volume
15762	HOPEDALE AV & QUEENS RD	6	5	3	14	7,800	1.64	32	45	Estimated Volume
5714	JOHN KIRK DR & UNIVERSITY CITY BV	19	35	17	71	54,200	1.20	115	39	Current Intersection Enhancement Project
5832	KEN HOFFMAN DR & N TRYON ST	11	20	13	44	31,500	1.28	83	108	ADT from 2008
4175	LAKEVIEW RD & STATESVILLE RD	11	5	3	19	14,000	1.24	97	31	Estimated Volume
8549	LASALLE ST & NEWCASTLE ST & NEWLAND RD	6	11	5	22	14,600	1.38	69	118	Estimated Volume
4698	LAWING RD & MIRANDA RD & OAKDALE RD & SUNSET RD	8	3	2	13	7,100	1.67	30	17	Recent Spot Safety Project
10936	LITTLE ROCK RD & SCOTT FUTRELL DR	5	12	10	27	20,600	1.20	114	Not Ranked	ADT from 2008
3146	MALLARD CREEK RD & ODELL SCHOOL RD	14	9	7	30	12,300	2.23	7	19	Recent NCDOT Project
3973	MALLARD CREEK RD & PROSPERITY CHURCH RD & W MALLARD CREEK CHURCH RD	23	20	15	58	42,100	1.26	88	Not Ranked	ADT from 2008
3149	MALLARD CREEK RD & RIDGE RD	13	3	9	25	14,800	1.54	41	126	Estimated Volume
11055	MATHESON AV & THE PLAZA	19	20	10	49	35,900	1.25	93	120	
11311	MILTON RD & N SHARON AMITY RD	19	17	13	49	31,400	1.43	59	133	
10622	MULBERRY CHURCH RD & QUEEN CITY DR	16	15	6	37	18,800	1.80	18	43	
11592	N CEDAR ST & S CEDAR ST & W TRADE ST	11	8	9	28	21,200	1.21	108	100	ADT from 2008
11981	N CHURCH ST & W 6TH ST	11	4	3	18	12,100	1.36	73	128	Estimated Volume
14431	N COLONIAL AV & RANDOLPH RD & S COLONIAL AV	13	16	9	38	27,900	1.24	96	Not Ranked	Potential Spot Safety, Estimate Volume
11783	N GRAHAM ST & W 5TH ST	7	12	13	32	24,400	1.20	113	Not Ranked	ADT from 2008
11707	N GRAHAM ST & W 6TH ST	12	21	10	43	28,800	1.36	71	85	ADT from 2008
4364	N I-85 RA & W MALLARD CREEK CHURCH RD	11	17	8	36	22,500	1.46	56	Not Ranked	Estimated Volume
12068	N POPLAR ST & S POPLAR ST & W TRADE ST	8	6	7	21	15,300	1.25	91	Not Ranked	ADT from 2008
11972	N POPLAR ST & W 5TH ST	9	5	3	17	9,700	1.60	33	29	Potential 2-way Conversion, ADT from 2008
12517	N SHARON AMITY RD & SHAMROCK DR	24	20	12	56	42,200	1.21	104	99	
6971	N TRYON ST & REAGAN DR	6	12	5	23	11,700	1.80	19	12	Estimated Volume
48168	NORTHLAKE MALL DR & PERIMETER PY	8	11	6	25	9,800	2.33	5	13	Estimated Volume
16439	OLD PINEVILLE RD & SCALEYBARK RD & SOUTH BV	23	16	7	46	30,400	1.38	68	73	
14183	OLD STEELE CREEK RD & WEST BV	15	8	8	31	21,200	1.34	75	Not Ranked	
11639	PARKWOOD AV & PEGRAM ST	15	10	9	34	17,800	1.74	23	14	Estimated Volume
24904	PINEVILLE-MATTHEWS RD & PROVIDENCE RD	56	54	31	141	71,300	1.81	17	22	ADT from 2008
25815	PINEVILLE-MATTHEWS RD & REA RD	32	37	23	92	50,900	1.65	31	41	
7195	REAGAN DR & TOM HUNTER RD	6	4	6	16	9,600	1.52	47	67	
7380	REAGAN DR & W SUGAR CREEK RD	33	24	19	76	48,400	1.43	58	57	ADT from 2007
13531	REMOUNT RD & WEST BV	14	15	12	41	27,400	1.37	70	88	
12265	S CHURCH ST & W 4TH ST	16	7	9	32	19,500	1.50	52	42	ADT from 2003
12721	S CHURCH ST & W HILL ST & W JOHN BELK RA	6	5	5	16	11,800	1.24	99	114	Estimated Volume
12611	S CHURCH ST & W STONEWALL ST	11	6	6	23	17,500	1.20	110	90	ADT from 2007
4332	S I-85 RA & W MALLARD CREEK CHURCH RD	14	17	18	49	35,300	1.27	85	107	
12110	S MINT ST & W 4TH ST	8	5	4	17	8,800	1.76	21	30	Potential 2-way Conversion, ADT from 2008
12170	S POPLAR ST & W 4TH ST	12	6	3	21	10,500	1.83	16	20	2-way Conversion, ADT from 2008
21549	S TRYON ST & SANDY PORTER RD	23	28	15	66	34,200	1.76	22	25	ADT from 2007
20422	S TRYON ST & W ARROWOOD RD	27	24	22	73	53,800	1.24	98	134	ADT from 2008
21992	S TRYON ST & WESTINGHOUSE BV	33	34	13	80	55,800	1.31	80	47	ADT from 2007
22250	SHARON LAKES RD & SOUTH BV & SWEDEN RD	21	16	16	53	30,800	1.57	38	54	
23162	SHARON RD WEST & SOUTH BV	24	29	5	58	42,900	1.23	100	62	
23328	SLEDGE RD & STEELE CREEK RD	7	12	9	28	18,500	1.38	67	96	Estimated Volume
18776	SOUTH BV & TYVOLA RD	49	39	15	103	67,500	1.39	65	37	

## 2009 Intersection Safety Warrant List

As part of the Charlotte Department of Transportation's goal of providing a safe transportation system for all road users, the Traffic Safety Section has developed a list of locations that have promise as sites for safety improvements. Additionally, this list provides a more stable picture of the collision patterns at locations throughout the City to aid in the development of capital projects and programs. City of Charlotte staff is the primary user of this information; however, other transportation professionals may find the information helpful in developing projects and programs. The warrant list will be updated every 2 years with additional warrants for pedestrians, bicyclists and roadway segments to be released in late 2009.

The following are a few key points regarding the warrant list that may be helpful to non-primary users of this information:

- The locations are selected and prioritized using many crash-related factors. Some of the factors include frequency, rate, severity and crash pattern. To find more information on the screening process, you can consult the appendix included in the full report.
- This listing is not based strictly on highest rate, injuries or frequency. Thus it is **not** an effort to list "the most dangerous locations."
- The locations listed in this publication are only preliminary candidates for safety improvements. The final decision to install safety countermeasures at a location will depend upon the findings of a detailed engineering investigation, the availability of funds and other various factors.

**The 2009 Intersection Safety Warrant List is the same list presented in the 2008 Annual Report.**

GISValue Id	Location Name	Signalized	5 Year Collision Total	Intersection Warrants					Pedestrian & Bike Warrants				2009 Hal Rank	
				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3years	Night	Alcohol	Chronic		
6454	AINTREE RD & THE PLAZA	No	11			X								
108	AIRPORT DR & WEST BV	No	15			X								
161	ALBEMARLE RD & E WT HARRIS BV	Yes	302								P			50
4342	ALBEMARLE RD & ARLINGTON CHURCH RD & BROOKS MILL RD	No	11					X						
1601	ALBEMARLE RD & BLAIR RD	Yes	48	X										
2278	ALBEMARLE RD & CABARRUS RD	No	32	X										
22716	ALBEMARLE RD & CENTRAL AV	Yes	69				X							
1077	ALBEMARLE RD & CLEAR CREEK COMMERCE DR & ROCKY RIVER CHURCH RD	Yes	40	X										
2268	ALBEMARLE RD & DOOLEY DR	No	12			X								
263	ALBEMARLE RD & EXECUTIVE CENTER DR & JENKINS DR	Yes	86				X							
722	ALBEMARLE RD & FARM POND LN	Yes	162						P	P		P		76
22908	ALBEMARLE RD & I-485 RA	Yes	33			X								
4535	ALBEMARLE RD & PINE GROVE AV	No	13			X								
1176	ALBEMARLE RD & POINT LAKE DR	No	26	X										
1488	ALBEMARLE RD & REDDMAN RD	Yes	101										B	
577	ALBEMARLE RD & REGAL OAKS DR	Yes	120							P			P,B	
326	ALBEMARLE RD & WINTERHAVEN DR	Yes	85				X							
1410	ALLEGHANY ST & ASHLEY RD	Yes	43	X										
1629	ALLEN A BROWN RD & BROWNE RD & DEARMON RD	No	17				X							
653	ANDOVER RD & PROVIDENCE RD	No	13			X								
1202	ARCHDALE DR & MONTPELIER RD	No	13					X						
1916	ARCHDALE DR & OLD PINEVILLE RD	Yes	44	X										
24789	ARDREY KELL RD & BLAKENEY HEATH RD & BLAKENEY PROFESSIONAL DR	No	11			X								
1034	ARDREY KELL RD & COMMUNITY HOUSE RD	No	28	X										
5698	ARDREY KELL RD & LANCASTER HY	Yes	48	X										
8314	ARDREY KELL RD & REA RD	Yes	76				X							
4105	ARDSLEY RD & QUEENS RD & QUEENS RD WEST	No	23					X						
4543	ARLINGTON AV & S CALDWELL ST & SOUTH BV	No	29	X										
345	ARNOLD DR & CENTRAL AV	No	15			X							B	
1473	ARNOLD DR & EASTWAY DR	No	59				X							
1383	ARROW RIDGE BV & N I-77 EXIT 3 RA & WARROWOOD RD	No	30	X										
923	ASHLEY RD & TUCKASEEGEE RD	Yes	78	X										
5549	ASHMORE DR & E INDEPENDENCE BV	No	32				X							
954	ATANDO AV & LASALLE ST & N I-77 EXIT 12 RA	Yes	33	X										
68	ATANDO AV & N GRAHAM ST	Yes	39	X										
1489	ATANDO AV & STATESVILLE AV	Yes	75	X										
5175	ATMORE ST & E SUGAR CREEK RD	No	30				X							
114	AUSTIN DR & N TRYON ST	No	46	X										
6510	AYRSLEY TOWN BV & S TRYON ST & WHITEHALL PARK DR	Yes	75				X							
6305	BACK CREEK CHURCH RD & HANBERRY BV	No	10			X								
1560	BACK CREEK CHURCH RD & ROCKY RIVER RD	No	35	X										103
572	BACK CREEK DR & E WT HARRIS BV	No	50				X							
5056	BAINBRIDGE RD & MONROE RD	No	11			X								
5199	BALLANTYNE COMMONS PY & DURANT BV & JOHN J DELANEY DR	No	39	X										
825	BALLANTYNE COMMONS PY & JOHN J DELANEY DR	No	56	X										
467	BALLANTYNE COMMONS PY & JOHNSTON RD	Yes	104				X							
979	BALLANTYNE COMMONS PY & NORTH COMMUNITY HOUSE RD	Yes	31	X										
482	BALLANTYNE COMMONS PY & REA RD	Yes	84				X							
2356	BANNER ELK DR & SUNSET RD	No	51	X										
2073	BARCLAY DOWNS DR & BULFINCH RD	No	29	X										
1331	BARRINGER DR & CLANTON RD	Yes	31	X	X									
381	BARRINGER DR & REMOUNT RD	Yes	32	X										
495	BARRINGTON DR & MILTON RD	No	39	X		X								64
165	BARTON CREEK DR & N TRYON ST	No	29	X										

GISValue Id	Location Name	Signalized	5 Year Collision Total	Intersection Warrants					Pedestrian & Bike Warrants				2009 Hal Rank	
				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3years	Night	Alcohol	Chronic		
832	BAXTER ST & S KINGS DR	Yes	32										P	
1281	BEAL ST & N WENDOVER RD	No	29	X										
5423	BEARD RD & RIDGE RD	No	11			X								
5611	BEATTIES FORD RD & BOOKER AV & OAKLAWN AV	Yes	45	X										
20	BEATTIES FORD RD & CATHERINE SIMMONS AV	No	57	X									P	
1994	BEATTIES FORD RD & CINDY LN & GRIERS GROVE RD	Yes	37	X										
1840	BEATTIES FORD RD & DIXON ST	Yes	32						P					
1211	BEATTIES FORD RD & FRENCH ST	Yes	43	X										
853	BEATTIES FORD RD & GILBERT ST & MONTANA DR	Yes	55	X										
2127	BEATTIES FORD RD & KELLER AV	No	26	X										
1741	BEATTIES FORD RD & LASALLE ST	Yes	104	X									P	21
250	BEATTIES FORD RD & N I-85 EXIT 37 RA	Yes	70	X										
2408	BEATTIES FORD RD & SANDERS AV	No	18						P	P				
382	BEATTIES FORD RD & SUNSET RD	Yes	112	X										16
1334	BECKMORE PL & PINEVILLE-MATTHEWS RD	No	12			X								
2034	BELLHAVEN BV & MT HOLLY-HUNTERSVILLE RD & ROZZELLES FERRY RD	Yes	62	X			X							93
254	BELMONT AV & N DAVIDSON ST	No	33	X										115
1282	BELMONT AV & SEIGLE AV	No	18					X						
907	BELVEDERE AV & THE PLAZA	Yes	30	X										
656	BENNETT ST & N TRYON ST	No	68	X										
1885	BEVINGTON PL & REA RD	Yes	27	X										
277	BILLY GRAHAM PY & BOYER ST	Yes	120				X							121
23007	BILLY GRAHAM PY & N I-85 EXIT 33 RA	No	28					X						
5476	BINGHAM DR & N TRYON ST	No	27	X										
5164	BIRNEN DR & JOHNSTON RD & PARK RD	Yes	61				X							
1427	BISCAYNE DR & EASTWAY DR	No	26	X										
2189	BLACK FARMS RD & MAYES RD & SAM FURR RD	No	13			X								
1240	BLUE HERON DR & PINEVILLE-MATTHEWS RD	No	16			X								
1216	BONNIE CONE LN & E MALLARD CREEK CHURCH RD & MARY ALEXANDER RD	Yes	27	X										
1241	BOYER ST & OLD DOWD RD	No	32	X			X							98
1378	BRANDON FOREST DR & SHARON RD WEST	Yes	23			X								
1163	BRIAR CREEK RD & E INDEPENDENCE/BRIAR CREEK RA	No	30	X										
4161	BRIARWOOD DR & THE PLAZA	No	15			X								
10572	BROOKFORD ST & SOUTH COMMERCE BV & WESTINGHOUSE BV	No	12			X								
1987	BROOKSHIRE BV & MT HOLLY-HUNTERSVILLE RD	Yes	79				X							
479	BROOKSHIRE BV & OAKDALE RD	No	84	X										
2109	BROOKSHIRE BV & OLD PLANK RD	No	22			X								
383	BROWNE RD & EASTFIELD RD	No	49	X			X							6
10702	BROWNE RD & HUCKS RD	No	12			X								
1126	BROWN-GRIER RD & SANDY PORTER RD & WARROWOOD RD	Yes	56	X										
1188	BROWN-GRIER RD & STEELE CREEK RD	Yes	26	X										
232	BUICK DR & CONFERENCE DR & E INDEPENDENCE BV	Yes	104						P					
425	BURGIN ST & EASTWAY DR	No	20			X								
2241	BUSINESS CENTER DR & LITTLE ROCK RD & QUEEN CITY DR	No	32	X										
1573	BYRUM DR & PIPER LN & YORKMONT RD	No	12			X								
562	CALIBRE CROSSING DR & CROSS POINT CR & E INDEPENDENCE BV	No	27	X										
7954	CALLABRIDGE CT & MT HOLLY-HUNTERSVILLE RD	Yes	45				X							
4253	CAMBRIDGE COMMONS DR & HARRISBURG RD	No	50	X			X							52
331	CAMP STEWART RD & HARRISBURG RD	No	26	X										
944	CAMPBELL DR & N SHARON AMITY RD	No	26	X										
2035	CANTERWOOD DR & ELGYWOOD LN	No	14					X						
5716	CARMEL COMMONS BV & CARMEL RD	No	28	X										
4155	CARMEL RD & HILLINGDON RD & WILD PARTRIDGE RD	No	20					X						
2451	CARMEL RD & JOHNSTON RD	Yes	75				X							

GISValue Id	Location Name	Signalized	5 Year Collision Total	Intersection Warrants					Pedestrian & Bike Warrants				2009 Hal Rank	
				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3years	Night	Alcohol	Chronic		
1341	CARMEL RD & SHARON VIEW RD	Yes	43	X										
417	CARMEL RD & WATERFORD SQUARE DR	No	23					X						
1068	CAROLINA LILY LN & ODELL SCHOOL RD	No	25					X						
362	CAROWINDS BV & CATAWBA TRACE & CHOATE CR	Yes	65	X										135
6019	CEDAR CROFT DR & PROVIDENCE RD	No	11			X								
444	CENTRAL AV & E 7TH ST & N KINGS DR	Yes	95				X							59
890	CENTRAL AV & EASTWAY DR	Yes	231										P	23
305	CENTRAL AV & HAWTHORNE LN	Yes	45	X										
1519	CENTRAL AV & LOGIE AV	No	10			X								
96	CENTRAL AV & ROSEHAVEN DR	Yes	117										P	92
5107	CENTRAL AV & PROGRESS LN	No	27	X										
13	CENTRAL AV & SHARON AMITY RD	Yes	262										P,B	44
389	CENTRAL AV & THE PLAZA	Yes	117										P	
642	CHANCELLOR PARK DR & E W T HARRIS BV	No	78					X						
1925	CHARLOTTE DR & EAST BV	No	48	X			X							117
194	CHARLOTTETOWNE AV & E 4TH ST	Yes	68	X										
155	CHARLOTTETOWNE AV & S KINGS DR	Yes	42		X									
451	CHASTAIN AV & E WOODLAWN RD	No	64				X							
344	CHEROKEE RD & PROVIDENCE RD	Yes	66	X										
8104	CHILTON PL & SHARON RD	No	10			X								
1213	CHOATE CR & S TRYON ST	No	48	X										
4496	CHRISTENBURY RD & GIBBON RD	No	14					X						
1823	CINDERELLA RD & W SUGAR CREEK RD	No	42	X										
1168	CIRCLE AV & HERMITAGE CT & PROVIDENCE RD	No	9					X						
1232	CITISIDE DR & EASTWAY DR & WELDON AV	No	37	X			X							
5956	CITY VIEW DR & E INDEPENDENCE BV	No	46	X			X							
1471	CLANTON RD & N I-77 EXIT 7 RA	Yes	32	X										
766	CLARICE AV & E 7TH ST	No	34	X										
2419	CLAUDE FREEMAN DR & W MALLARD CREEK CHURCH RD	Yes	42				X							
1180	CLEMSON AV & MATHESON AV	No	10			X								
8327	CLOISTER DR & PROVIDENCE RD	No	12			X								
14146	COLDSTREAM LN & N WENDOVER RD	No	10			X								
1092	COLONY ACRES DR & HILARY CR & NATIONS FORD RD	No	13			X								
2042	COLONY RD & FAIRVIEW RD	Yes	48				X							
831	COLONY RD & SHARON VIEW RD	Yes	32	X										
252	COLVILLE RD & PROVIDENCE RD	Yes	56	X										
2131	CONCORDIA AV & N GRAHAM ST	No	13			X								
2156	CONLAN CR & JOHN J DELANEY DR	No	50	X										5
458	CONNECTING RD & E WOODLAWN RD	No	11			X								
1020	COTTONWOOD ST & N GRAHAM ST & REAGAN DR	Yes	53	X										
181	CURTISWOOD DR & EASTWAY DR	No	41					X						
2325	DAVID COX RD & LAKEVIEW RD & OLD STATESVILLE RD	No	51	X										28
453	DAVID COX RD & W W T HARRIS BV	No	25	X										
5901	DAVID TAYLOR DR & W MALLARD CREEK CHURCH RD	No	39	X										
1705	DAVIS LAKE PY & W W T HARRIS BV	Yes	59				X							
5891	DELTA LAKE DR & E W T HARRIS BV	No	10			X								
5144	DILWORTH RD EAST & EAST BV	Yes	39	X										
8164	DIXIE RD & DIXIE RIVER RD	No	11			X								
784	DONALD ROSS RD & WILKINSON BV	No	42				X							
4347	DONEGAL DR & RAMA RD	No	10			X								
1096	DOWNS RD & E WESTINGHOUSE BV	Yes	28	X										
1808	E 11TH ST & E BROOKSHIRE FR RA & N DAVIDSON ST	Yes	37	X										
661	E 11TH ST & N CALDWELL ST	Yes	32	X										
163	E 11TH ST & N COLLEGE ST	Yes	73	X										66

GISValue Id	Location Name	Signalized	5 Year Collision Total	Intersection Warrants					Pedestrian & Bike Warrants				2009 Hal Rank	
				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3years	Night	Alcohol	Chronic		
1057	E 12TH ST & E BROOKSHIRE FR RA & N CALDWELL ST	Yes	55		X		X							97
18	E 12TH ST & N BREVARD ST	Yes	34					X						27
247	E 12TH ST & N COLLEGE ST	Yes	51	X		X								2
517	E 18TH ST & N DAVIDSON ST	No	25	X										
1506	E 28TH ST & N TRYON ST & W 28TH ST	Yes	49						P				B	
5324	E 33RD ST & N DAVIDSON ST	No	10			X								
1976	E 36TH ST & HOLT ST	No	13					X						
407	E 3RD ST & E JOHN BELK RA	Yes	66	X										
1194	E 3RD ST & E JOHN BELK RA	Yes	42	X										
1082	E 3RD ST & PROVIDENCE RD & S CASWELL RD	Yes	55	X										
1927	E 3RD ST & S CALDWELL ST	Yes	48	X										61
393	E 3RD ST & S COLLEGE ST	Yes	34										P	
270	E 3RD ST & S KINGS DR	Yes	63	X			X							
207	E 3RD ST & S MCDOWELL ST	Yes	74	X									p	
820	E 3RD ST & S TORRENCE ST	No	28	X										
819	E 3RD ST & S TRYON ST & W 3RD ST	Yes	67				X							106
41	E 4TH ST & S DAVIDSON ST	Yes	26						P					
999	E 4TH ST & E JOHN BELK RA	Yes	40	X										80
1485	E 4TH ST & HAWTHORNE LN & QUEENS RD	Yes	54	X										
698	E 4TH ST & S COLLEGE ST	Yes	45	X			X							
1088	E 4TH ST & S MCDOWELL ST	Yes	49				X		P				P	
79	E 5TH ST & N CALDWELL ST	Yes	58	X			X							89
5172	E 5TH ST & N DAVIDSON ST	Yes	32	X										
620	E 5TH ST & N MCDOWELL ST	Yes	34	X										
2382	E 6TH ST & N BREVARD ST	Yes	42	X			X							55
1714	E 6TH ST & N COLLEGE ST	Yes	55										P	
508	E 6TH ST & N MCDOWELL ST	Yes	47	X										104
1515	E 6TH ST & N TRYON ST & W 6TH ST	Yes	58				X							116
1353	E 7TH ST & E INDEPENDENCE BV	Yes	72				X							136
170	E 7TH ST & HAWTHORNE LN	Yes	93	X										77
835	E 7TH ST & N CALDWELL ST	Yes	51	X										
681	E 7TH ST & N CASWELL RD & PECAN AV	Yes	82	X										79
950	E 7TH ST & N DAVIDSON ST	Yes	25	X										
1015	E 7TH ST & N MCDOWELL ST	Yes	73	X			X							109
2301	E 7TH ST & RIDGEWAY AV	No	25	X										
731	E 7TH ST & N TRYON ST & W 7TH ST	Yes	58										P	
1728	E 8TH ST & N COLLEGE ST	No	43	X										9
27	E 8TH ST & N TRYON ST & W 8TH ST	Yes	35										P	
1973	E 8TH ST & PECAN AV	No	11					X						
670	E 9TH ST & N COLLEGE ST	Yes	49	X										1
1008	E 9TH ST & N TRYON ST & W 9TH ST	Yes	41	X										75
7	E ARROWHEAD DR & N TRYON ST & W ARROWHEAD DR	No	66	X										
4148	E ARROWOOD RD & ENGLAND ST & OLD PINEVILLE RD	Yes	32				X							
274	E ARROWOOD RD & NATIONS FORD RD & W ARROWOOD RD	Yes	136	X									P	7
91	E ARROWOOD RD & SOUTH BV & STARBROOK DR	Yes	130						P					51
587	E BLAND ST & S TRYON ST & W BLAND ST	Yes	37	X			X							111
1549	E HEBRON ST & NATIONS FORD RD & W HEBRON ST	Yes	38	X										
8318	E HILL ST & S COLLEGE ST	No	30	X										
2032	E HILL ST & S TRYON ST & W HILL ST	No	13			X								
455	E INDEPENDENCE BV & IDLEWILD RD	Yes	243										B	83
1509	E INDEPENDENCE BV & ROCKWAY DR	No	11			X								
1076	E INDEPENDENCE BV & SHARON FOREST DR	No	41	X										
901	E INDEPENDENCE BV & WALLACE RD	No	68	X										
358	E JOHN BELK RA & E STONEWALL ST & S BREVARD ST	Yes	60	X										71

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23228	E MALLARD CREEK CHURCH RD & JOHN KIRK DR	No	20				X							
1115	E MALLARD CREEK CHURCH RD & N TRYON ST & W MALLARD CREEK CHURCH RD	Yes	148				X							26
23692	E MALLARD CREEK CHURCH RD & UNIVERSITY CITY BV	No	64				X							
103	E MARTIN LUTHER KING JR BV & S CALDWELL ST	Yes	31	X										34
7927	E MARTIN LUTHER KING JR BV & S DAVIDSON ST	No	38	X	X									3
1143	E MOREHEAD ST & HARDING PL	Yes	26	X										
4045	E MOREHEAD ST & S TRYON ST & W MOREHEAD ST	Yes	78					X						72
523	E STONEWALL ST & S CALDWELL ST	Yes	53	X										
2107	E STONEWALL ST & S COLLEGE ST	Yes	74	X					P			P		74
1695	E STONEWALL ST & S MCDOWELL ST	Yes	46				X							
439	E SUGAR CREEK RD & MCMILLAN ST	No	13			X								
1053	E TRADE ST & ELIZABETH AV & N MCDOWELL ST & S MCDOWELL ST	Yes	71	X										70
2433	E TRADE ST & N CALDWELL ST & S CALDWELL ST	Yes	50	X										124
828	E TRADE ST & N COLLEGE ST & S COLLEGE ST	Yes	83						P			P		
498	E TRADE ST & N DAVIDSON ST & S DAVIDSON ST	Yes	42	X										
987	E TRADE S & S BREVARD ST	Yes	29						P					
328	E TREMONT AV & SOUTH BV	Yes	67										B	
7952	E W T HARRIS BV & UNIVERSITY CITY BV	No	19		X		X							
1303	E WESTINGHOUSE BV & NATIONS FORD RD & WESTINGHOUSE BV	Yes	28	X										
1226	E WESTINGHOUSE BV & RODNEY ST	No	13			X								
712	E WOODLAWN RD & RUNNYMEDE LN & SELWYN AV	Yes	64	X										
197	EAST BV & KENILWORTH AV	Yes	62	X										
5108	EAST BV & PARK RD	No	21					X						
1198	EASTFIELD RD & OLD STATESVILLE RD	No	48				X							18
2311	EASTWAY CROSSING DR & EASTWAY DR	Yes	30	X										
746	EASTWAY DR & FRONTENAC AV & SHAMROCK DR	Yes	177									P		36
5195	EASTWAY DR & MAGNOLIA HILL DR	No	18			X								
5621	EL VERANO CR & SHARON LAKES RD	No	10			X								
2342	ELIZABETH AV & HAWTHORNE LN	Yes	28	X										
446	ELIZABETH AV & N KINGS DR	Yes	70									P		119
315	ENFIELD RD & KILBORNE DR	No	17					X						
4235	EPRI DR & W W T HARRIS BV & WACHOVIA DR	Yes	26					X						
1419	EQUIPMENT DR & N GRAHAM ST	No	29	X										
1989	EQUIPMENT DR & W SUGAR CREEK RD	No	44	X										112
908	ERWIN RD & STEELE CREEK RD	No	29	X										
119	E W T HARRIS BV & N TRYON ST & W W T HARRIS BV	Yes	212						P					
12770	FAIRES FARM RD & KATHERINE KIKER RD	No	16					X						
2403	FAIRVIEW RD & SIMSBURY RD	No	25	X										
23470	FAIRVIEW RD & SOUTH PARK DR	No	27	X										
1030	FARMHURST DR & FOREST POINT BV & NATIONS FORD RD	Yes	23			X								
1199	FARMHURST DR & NATIONS FORD RD	No	41	X										125
1456	FINCHLEY DR & SHAMROCK DR	No	28	X										
420	FOLGER DR & PROVIDENCE RD	No	24	X										
22674	GALLERIA VILLAGE DR & SARDIS RD NORTH	No	23					X						
1244	GIBBON RD & NEVIN RD	Yes	38	X										
546	GIBBON RD & OLD STATESVILLE RD	Yes	44	X			X							
1144	GLENEAGLES RD & PARK RD & SHARON RD WEST	Yes	62				X							
6301	GLENWOOD DR & S I-85 EXIT 35 RA	No	26	X										
811	GOVERNOR HUNT RD & MALLARD CREEK RD	Yes	23					X						
971	GRIER RD & ORR RD	No	15			X								
1514	GRIER RD & ROCKY RIVER RD	Yes	11			X								
2231	GROVER RD & SOUTH BV	Yes	48	X										
7953	HAMILTON RD & STEELE CREEK RD	Yes	25	X										
1283	HARGROVE AV & MIDLAND AV & WILKINSON BV	No	38	X										

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1457	HARRIS HOUSTON RD & UNIVERSITY CITY BV	No	30	X										
6234	HARRISBURG RD & MISENHEIMER RD	No	11			X								
136	HARRISBURG RD & PARKTON RD	No	26	X										
1014	HAZELTON DR & LOUISBURG SQUARE LN & SHARON RD	No	10			X								
861	HEATHER LN & PARK RD	Yes	32	X										
956	HEATHWAY DR & N TRYON ST	No	43	X										
160	HIDDEN VALLEY RD & WSUGAR CREEK RD	Yes	52				X							
833	HONDURES DR & WSUGAR CREEK RD	No	12			X								
1147	HOOD RD & ROCKY RIVER RD	No	26	X										
1845	HUNTSMOOR DR & NATIONS FORD RD	No	32	X										
6275	HUTCHISON-MCDONALD RD & STATESVILLE RD	No	13			X								
5591	I-485 RA & N TRYON ST	No	12			X								
9248	I-77 RA & WESTINGHOUSE BV	No	51	X										113
743	IDEAL WY & REMOUNT RD & SOUTH BV	Yes	56	X										
378	IDLEWILD RD & PINEY GROVE RD	Yes	26	X										
8125	IDLEWILD RD & SALLY LN	No	11			X								
2428	J M KEYNES DR & J W CLAY BV & OLMSTED DR	No	33	X										81
1172	J M KEYNES DR & N TRYON ST & UNIVERSITY HOSPITAL DR	Yes	45				X							
1170	J W CLAY BV & N TRYON ST	Yes	78				X							
5299	JOHN J DELANEY DR & JOHNSTON RD	Yes	107				X							
216	JOHN KIRK DR & OLD CONCORD RD	No	18			X								
4054	JOHN RUSSELL RD & ROCKY RIVER RD	No	12			X								
2206	JOHNSTON RD & MARVIN RD	No	68				X							
13060	JOHNSTON RD & NORTH COMMUNITY HOUSE RD	Yes	49				X							
532	JOHNSTON RD & PROVIDENCE RD WEST	Yes	52				X							
353	JOSH BIRMINGHAM PY & OLD DOWD RD	Yes	21				X							
8140	KEMP ST & N TRYON ST	No	13					X						
1915	KUYKENDALL RD & PROVIDENCE RD	Yes	44				X							
2344	LAKEVIEW RD & STATESVILLE RD	No	45	X										31
494	LAKEVIEW RD & W W T HARRIS BV	Yes	45				X							
436	LASALLE ST & NEWCASTLE ST & NEWLAND RD	No	37	X										118
1064	LAWING RD & MIRANDA RD & OAKDALE RD & SUNSET RD	No	21					X						17
481	LAWYERS RD & LEBANON RD & WILSON GROVE RD	No	1					X						
794	LAWYERS RD & MEADOW GLEN DR	No	7					X						
286	LAWYERS RD & OLIVET DR	No	16			X								
2188	LAWYERS RD & ROLLING OAK LN	No	13			X								
5161	LITTLE ROCK RD & SCOTT FUTRELL DR	Yes	24		X		X							
2005	LONGLEAF DR & SOUTH BV	No	34				X							
1717	LUCENA ST & MORETZ AV	No	18					X						
645	MALLARD CREEK RD & MEDICAL PLAZA DR	No	22					X						
325	MALLARD CREEK RD & ODELL SCHOOL RD	No	47	X										19
1690	MALLARD CREEK RD & OLD MALLARD CREEK RD	Yes	36	X										
603	MALLARD CREEK RD & PROSPERITY CHURCH RD & W MALLARD CREEK CHURCH RD	Yes	94				X							
1588	MALLARD CREEK RD & RIDGE RD	No	40				X							126
590	MCLEAN RD & MEADOW VISTA RD & OLD CONCORD RD	Yes	40				X							
5284	MCMAHAN DR & PINEVILLE-MATTHEWS RD	No	27	X										
735	MEADOWBROOK RD & RANDOLPH RD & WENDWOOD LN	No	15			X								
1736	MEADOWCLIFF DR & MILTON RD	No	10			X								
15036	METROMONT INDUSTRIAL BV & REAMES RD	No	14			X								
5680	MOORES CHAPEL RD & OLD MT HOLLY RD	No	11			X								
2038	MORETZ AV & N GRAHAM ST & W 28TH ST	Yes	44	X										
102	MORETZ AV & STATESVILLE AV	No	14			X								
1768	MORRIS FIELD DR & WILKINSON BV	Yes	60				X							
707	MOSS RD & S TRYON ST	Yes	50	X										



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10674	MOTORSPORTS LN & STATESVILLE RD	No	13			X								
5475	MT HOLLY-HUNTERSVILLE RD & OAKDALE RD	No	44				X							
372	MULBERRY CHURCH RD & QUEEN CITY DR	Yes	74	X										43
4570	N CEDAR ST & S CEDAR ST & W TRADE ST	Yes	47				X							100
78	N CHURCH ST & W 5TH ST	Yes	47	X										
4203	N CHURCH ST & W 6TH ST	Yes	36				X			P				128
5074	N CHURCH ST & S CHURCH ST & W TRADE ST	Yes	67										P	127
1121	N COLONIAL AV & RANDOLPH RD & S COLONIAL AV	No	64	X										
227	N DAVIDSON ST & PARKWOOD AV	Yes	41	X										
796	N GRAHAM ST & NORRIS AV	Yes	24			X								
762	N GRAHAM ST & S GRAHAM ST & W TRADE ST	Yes	55	X						P			P	
39	N GRAHAM ST & SYLVANIA AV	No	11			X								
783	N GRAHAM ST & W 5TH ST	Yes	45	X										
149	N GRAHAM ST & W 6TH ST	Yes	72	X			X							85
2068	N HOSKINS RD & ROZZELLES FERRY RD & S HOSKINS RD	Yes	33	X										
2020	N I-77 EXIT 10B RA & N I-77 EXIT 10C RA & W 5TH ST	Yes	35	X			X							
231	N I-77 EXIT 10B RA & W TRADE ST	Yes	54	X										
913	N I-77 EXIT 16 RA & SUNSET RD	No	46						X					
1261	N I-77 EXIT 16 RA & SUNSET RD	No	28	X		X								
1268	N I-77 EXIT 3 RA & W ARROWOOD RD	No	10					X						
1386	N I-77 EXIT 5 RA & TYVOLA RD	No	17					X						
6340	N I-85 RA & SAM WILSON RD	No	10			X								
5145	N I-85 RA & WMALLARD CREEK CHURCH RD	No	47				X							
922	N IRWIN AV & W 5TH ST	No	27	X										
1863	N PINE ST & W 5TH ST	No	30	X										38
5112	N PINE ST & W 6TH ST	No	21				X							
4128	N POPLAR ST & W 5TH ST	Yes	41	X										29
2192	N SHARON AMITY RD & SUDBURY RD	No	28	X										
643	N SYCAMORE ST & W 5TH ST	No	19					X						
22745	N TRYON ST & OLD CONCORD RD	Yes	83				X							
5513	N TRYON ST & PAVILION BV	Yes	40				X							
75	N TRYON ST & REAGAN DR	No	48	X										12
82	N TRYON ST & REAGAN DR	No	12			X								
5057	N TRYON ST & UNIVERSITY CITY BV	No	14			X								
1802	N TRYON ST & W 26TH ST	No	13			X								
5930	N TRYON ST & WEDNESBURY BV	No	13			X								
966	N TRYON ST & WELLINGFORD ST	No	34	X										
2392	NATIONS FORD RD & RED ROOF DR	No	25	X										
5600	NATIONS FORD RD & S I-77 EXIT 4 RA	Yes	28	X										
5446	NATIONS FORD RD & SHORT HILLS DR	No	15			X								
24917	NORTHLAKE MALL DR & PERIMETER PY	No	27	X										
4053	OAK LEIGH DR & UNIVERSITY CITY BV	No	27	X										
4578	OLD PROVIDENCE RD & REA RD	No	25	X										
919	OLD STATESVILLE RD & WWT HARRIS BV	Yes	114				X							
1449	OLD STEELE CREEK RD & WEST BV	Yes	39	X			X							
56	PARK CEDAR DR & PINEVILLE-MATTHEWS RD	No	39	X										
162	PARKWOOD AV & PEGRAM ST	No	65	X										14
688	PAUL BUCK BV & W TYVOLA RD	Yes	16			X								
466	PINEVILLE-MATTHEWS RD & PROVIDENCE RD	Yes	228				X							22
8230	PIONEER AV & WESTINGHOUSE BV	No	26	X										
2128	PIPER STATION DR & REA RD	Yes	62				X							
10628	PLAZA WALK DR & THE PLAZA	No	65	X			X							68
489	PRINCETON AV & QUEENS RD WEST	No	11			X								
5226	PROSPERITY CHURCH RD & RIDGE RD	No	28	X										

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991	PROVIDENCE COUNTRY CLUB DR & PROVIDENCE RD	Yes	29					X					
761	QUEENS RD WEST & SELWYN AV	Yes	41	X			X						
1002	QUEENS RD WEST & WESTFIELD RD	No	28	X								B	
1882	RANDOLPH RD & VAN NESS ST	No	10			X							
622	REA RD & STALLWORTH DR	No	9					X					
48	REAGAN DR & TOM HUNTER RD	No	36	X									67
6283	RED FOX TL & SHARON RD	No	11			X							
593	REID AV & WEST BV	No	13			X							
2446	REMOUNT RD & TOOMEY AV	No	15			X							
847	REMOUNT RD & WEST BV	Yes	76									P	88
23404	RIVERGATE PY & S TRYON ST	No	42	X	X		X						
5279	ROCKWELL BV & W SUGAR CREEK RD	No	10			X							
11442	ROMARE BEARDEN DR & WEST BV	No	11			X							
1952	ROZZELLES FERRY RD & TODDVILLE RD	No	18			X							
1385	S CHURCH ST & W 3RD ST	Yes	43	X									
1290	S CHURCH ST & W 4TH ST	Yes	57	X									42
1191	S CHURCH ST & W HILL ST & W JOHN BELK RA	No	22					X					114
2157	S CHURCH ST & W MOREHEAD ST	Yes	28	X									
10	S CHURCH ST & W STONEWALL ST	Yes	47	X									90
5094	S GRAHAM ST & S MINT ST & W STONEWALL ST	Yes	36	X									
948	S GRAHAM ST & W 4TH ST	Yes	32	X									
5467	S I-77 EXIT 10B RA & S I-77 EXIT 10C RA & W 5TH ST	No	25	X									
1531	S I-77 EXIT 10B RA & W TRADE ST	No	37	X									
936	S I-77 EXIT 3 RA & WARROWOOD RD	Yes	30	X									
4189	S MINT ST & S MINT ST & W SUMMIT AV	No	14					X					
222	S MINT ST & W 3RD ST	Yes	18					X					
4156	S MINT ST & W 4TH ST	Yes	25				X						30
1186	S MINT ST & W MOREHEAD ST	Yes	40	X									
1238	S MINT ST & WEST BV	Yes	27	X									
730	S POPLAR ST & W 4TH ST	Yes	43	X									20
983	S TRYON ST & SANDY PORTER RD	Yes	101				X						25
335	S TRYON ST & STEELE CREEK RD	Yes	45		X		X						
5242	S TRYON ST & TYVOLA CENTRE DR	No	26	X									
186	S TRYON ST & WARROWOOD RD	Yes	126				X						134
166	S TRYON ST & WEST BV	Yes	51	X								P	
308	S TRYON ST & WESTINGHOUSE BV	Yes	157				X						47
932	S TRYON ST & WHITEHALL COMMONS SHOPPING CENTER DR & YAGER CREEK DR	Yes	68				X						
8690	S TRYON ST & YORK CENTER DR & GENERAL DR	No	17			X							
147	SAM NEELY RD & STEELE CREEK RD	No	29	X		X	X						
1431	SARDIS LN & SARDIS RD	No	17			X							
1685	SARDIS RD & SARDIS RD NORTH	Yes	29	X									
5957	SARDIS RD & TIMBER LN	No	12			X							
268	SELWYN AV & WELLESLEY AV	No	15									B	
16564	SENATOR ROYALL DR & WMALLARD CREEK CHURCH RD	Yes	34					X					
1930	SHADY OAK TL & SHARON LAKES RD	No	12			X							
319	SHAMROCK DR & TIPPERARY PL & WILLARD FARROW DR	Yes	27	X									
5940	SLEDGE RD & STEELE CREEK RD	No	47	X			X						96
6394	SOFLEY RD & W SUGAR CREEK RD	No	32	X									
113	SOUTH BV & TYVOLA RD	Yes	213									P	37
1415	STATESVILLE AV & WOODWARD AV	No	9					X					
4070	STEELE CREEK RD & STEELE OAKS DR	No	13			X							
544	STEELE CREEK RD & WESTINGHOUSE BV	Yes	48	X									
760	TECHNOLOGY DR & W W T HARRIS BV	Yes	64					X					
4308	TOM HUNTER RD & WHITE PLAINS RD	No	20			X							

GIS Value Id	Location Name	Signalized	5 Year Collision Total	Intersection Warrants				Pedestrian & Bike Warrants				2009 Hal Rank	
				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3years	Night	Alcohol		Chronic
2353	W 10TH ST & W BROOKSHIRE RA	No	10			X							
13485	W ARROWOOD RD & WHITEHALL PARK DR	No	11			X							
22642	W SUGAR CREEK RD & W W T HARRIS BV	Yes	120				X						
440	W TRADE ST & WESLEY HEIGHTS WY	No	29	X									
474	W TYVOLA RD & YORKMONT RD	Yes	68	X									
528	WEYLAND AV & WILKINSON BV	No	27	X									

## Appendix

### Intersection Safety Warrants Selection Criteria

#### **Warrant I-1: Frontal Impact**

Locations with a minimum of 25 total collisions AND a minimum of 50% of all crashes were frontal impact crashes AND a minimum of 25% of the total crashes occurred in the last 2 years. Frontal impact crashes are defined as:

- Angle
- Left Turn (same or different roadways)
- Right Turn (same or different roadways)
- Head On

#### **Warrant I-2: Last Year Increase**

Locations with a minimum of 25 total crashes AND a minimum of 38% of the total crashes occurred during the last year.

#### **Warrant I-3: Frequency with a Severity Index Minimum**

Tier 1: Locations with a minimum of 25 total crashes AND a minimum severity index of 7.0 AND a minimum of 40% of the collisions involving injury.

Tier 2: Locations with a minimum of 10 total crashes AND a minimum severity index of 8.0 AND a minimum of 50% of the collisions involving injury.

Severity index of a location is equal to the total equivalent property damage only (EPDO) collisions divided by the total number of collisions. EPDO is calculated as follows;

$$(76.8*(K+A)) + (8.4*(B+C)) + (O+U)$$

*Where*

*K=Fatal collisions*

*A=Disabling injury collisions*

*B=Evident injury collisions*  
*C=Possible injury collisions*  
*O=No injury collisions*  
*U=Unknown injury collisions*

**Warrant I-4: Night Locations without Streetlights (Officer indicated)**

Locations with a minimum of 25% of the total crashes occurring in the last 2 years AND locations with a minimum of 12 crash that occurred at night.

**Warrant I-5: Chronic Pattern**

*This warrant only applies to locations that did not meet the conditions of Warrants 1-4*

Locations with a minimum of 20 crashes during 10 years, 15% of the total crashes occurring in the last 3 years AND a minimum of 80% of the total crashes were in one of the following pattern categories:

- Rear End (all rear end crash types)
- Crossing (all left turn, angle, and head on crash types)

**Warrant P-1: Last 3 Years (Pedestrians)**

Locations with a minimum of 4 crashes involving pedestrians reported in the last 10 years AND a minimum of 45% of all crashes involving pedestrians happened in the last 3 years.

**Warrant P-2: Darkness with Streetlights (Pedestrians)**

Locations with a minimum of 4 crashes involving pedestrians reported in the last 10 years AND a minimum of 55% of all crashes involving pedestrians occurred during darkness with streetlights.

**Warrant P-3: Alcohol Involvement (Pedestrians)**

Locations with a minimum of 4 crashes involving pedestrians reported in the last 10 years AND a minimum of 30% of all crashes involving pedestrians must have involved alcohol.

**Warrant P-4: Chronic Location (Pedestrians)**

Locations with a minimum of 6 crashes involving pedestrians reported in the last 10 years.

**Warrant X-1: Last 3 Years (Bicyclists)**

Locations with a minimum of 3 crashes involving bicyclists reported in the last 10 years AND a minimum of 45% of all crashes involving bicyclists happened in the last 3 years.

**Warrant X-2: Darkness with Streetlights (Bicyclists)**

Locations with a minimum of 3 crashes involving bicyclists reported in the last 10 years AND a minimum of 55% of all crashes involving bicyclists occurred during darkness with streetlights.

**Warrant X-3: Alcohol Involvement (Bicyclists)**

Locations with a minimum of 3 crashes involving bicyclists reported in the last 10 years AND a minimum of 30% of all crashes involving bicyclists must have involved alcohol.

**Warrant X-4: Chronic Location (Bicyclists)**

Locations with a minimum of 4 crashes involving bicyclists reported in the last 10 years.