



Traffic Collision Data for 2014

Charlotte Department of Transportation
Traffic Safety Section

July 29, 2015

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Summary

The Charlotte Department of Transportation (CDOT) releases collision data for the previous calendar year annually. The Traffic Safety Section within CDOT is responsible for the compilation and analysis of collisions that occur within the road right of way inside the city limits of Charlotte. Included in this report are the collision data and trends from calendar year 2014. The data presented in this report does not include collisions that occurred on the Interstate highways (I-77, I-277, I-85, and I-485) or collisions that occur within private lots and parking areas.

CDOT compiles the collision data information to serve as a tool in the Department's efforts to build, maintain and operate a safe and efficient transportation system. Please see the "Quick Facts" page following the summary for pertinent details around the graphs and tables presented in the report.

In addition to the graphs and tables presenting the collision facts for 2014, this report includes two lists that focus efforts in identifying collision trends. For these two lists, data for the City's 19,242 intersections, including 814 signalized intersections, are evaluated.

The first is a list of intersections commonly referred to as the High Accident Location (HAL) list. The 2015 HAL is based on data collected during the 2014 calendar year. While the HAL is used by CDOT and City staff as a tool to identify collision trends, the purpose of including it in this report is to heighten road user awareness of locations that have an elevated collision rate. To put the HAL in perspective, it should be noted that of the 19,242 intersections in the City of Charlotte, 83 (less than half a percent) are on the HAL. Of the 83 intersections on the HAL, 68 or nearly 82% are controlled by a traffic signal.

The second list is the Intersection Safety Warrant list. It is recalculated every two years and was updated for this year's report. Again this list is a tool used by CDOT and City staff and the purpose of including it in this report is to heighten road user awareness of locations that have elevated patterns of collisions. To put the Safety Warrant list in perspective, it should be noted that of the 19,242 intersections in the City of Charlotte, 303 (1.6%) meet one or more Intersection Safety Warrants.

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.

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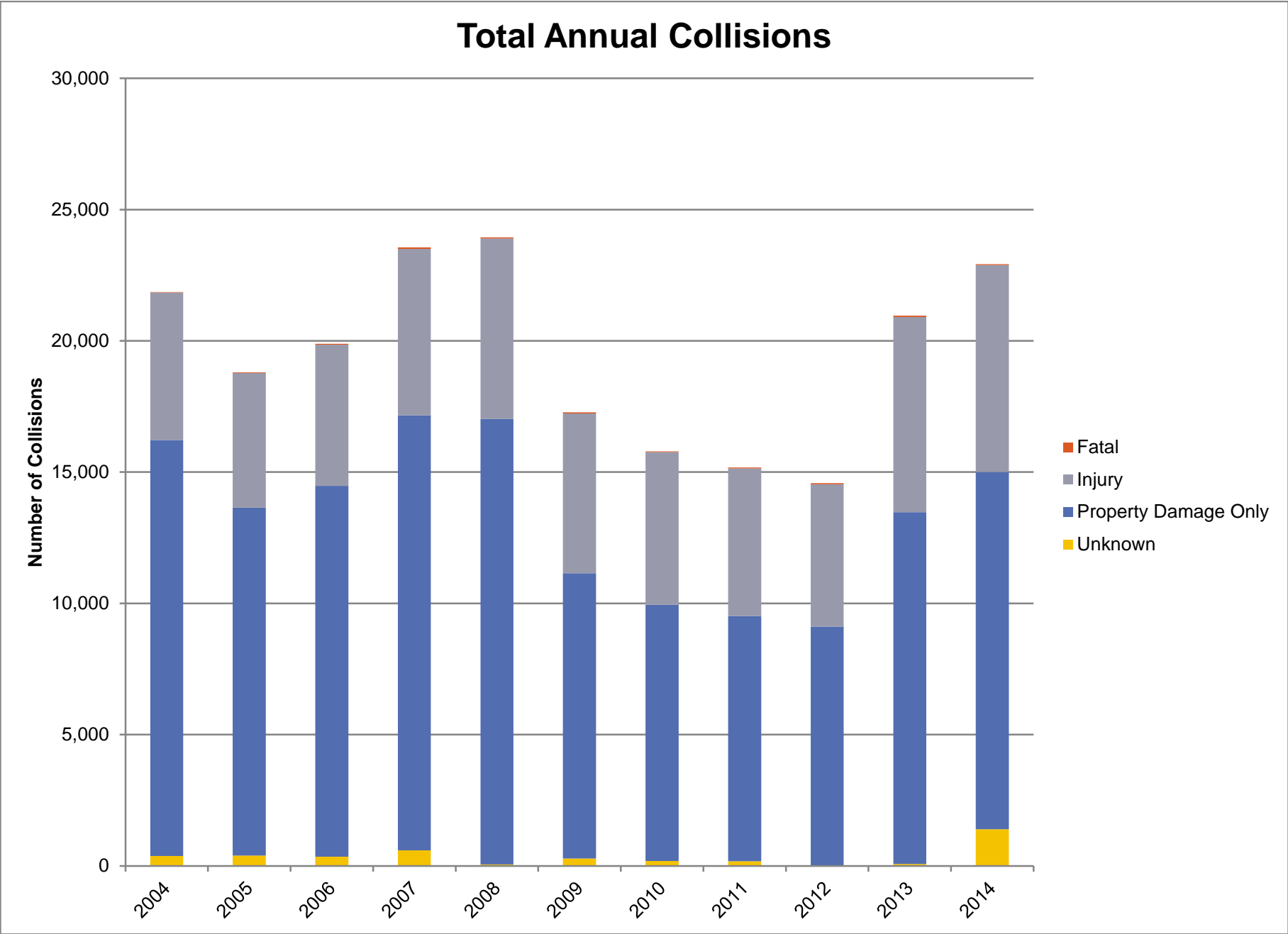
Quick Facts

- *Fatal collisions were down 10% from 43 in 2013 to 39 in 2014.*
- *Total collisions were up 9.38% in 2014 from 20,957 total collisions in 2013 to 22,923 in 2014. Total collisions are approaching pre-recession (pre-2009) levels.*
- *Vehicle Miles Travelled and Population continue to increase which may be a factor in the increase in total collisions.*
- *Overall pedestrian collisions remain fairly level compared to last year; however pedestrian fatalities continue to decline and are down 28% from last year and down 300% from 2012.*
- *Nearly 23% of collisions involved driver inattention or distraction. This is in line with statistics statewide and nationwide.*
- *More than 70% of collisions in 2014 occurred during daylight hours.*
- *More than 82% of collisions in 2014 occurred during dry driving conditions.*
- *Fatal collisions account for less than one percent of all collisions in the City of Charlotte.*
- *Fixed object and departing the roadway collisions account for 33% (13 of the 39) fatal collisions.*
- *The 39 fatal collisions resulted in 41 fatalities in 2014.*
- *The crash rate used in the High Accident Location list is a math formula that depends on traffic volume and total numbers of crashes. Locations with a moderate number of crashes and low traffic volumes may be ranked higher.*
- *The intersection of Cambridge Commons and Harrisburg Road, number 1 on the HAL in 2012, was rebuilt as a roundabout and has now dropped to number 10 on the list.*

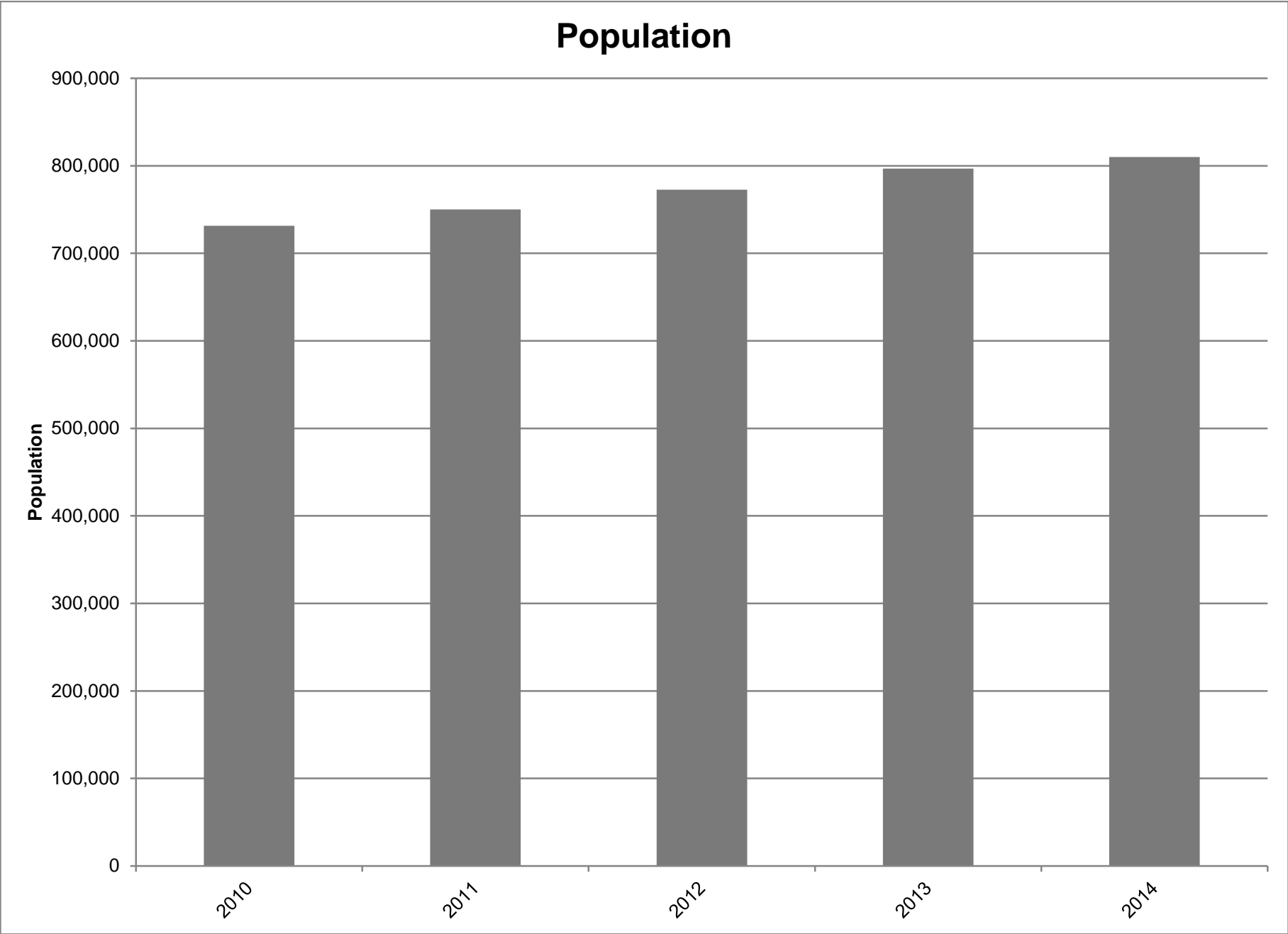
Quick Tips

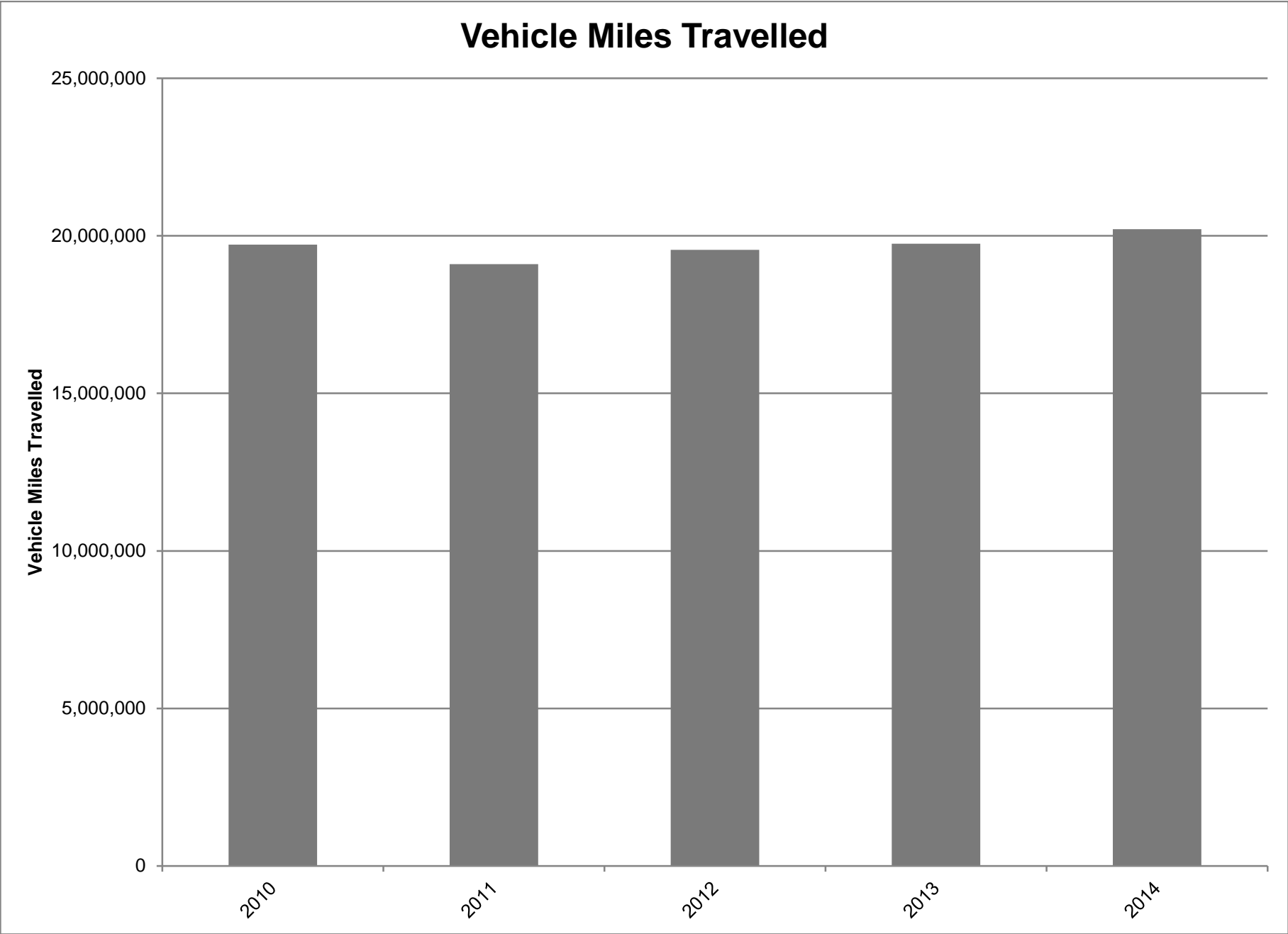
- *Drivers and bicyclists are all encouraged to limit distractions while driving.*
- *Pedestrians are encouraged to limit distractions and remain aware of the motor vehicle traffic around them.*
- *Pedestrians and bicyclists remain our most vulnerable roadway users and drivers are encouraged to watch for them.*

2014 Collision Data

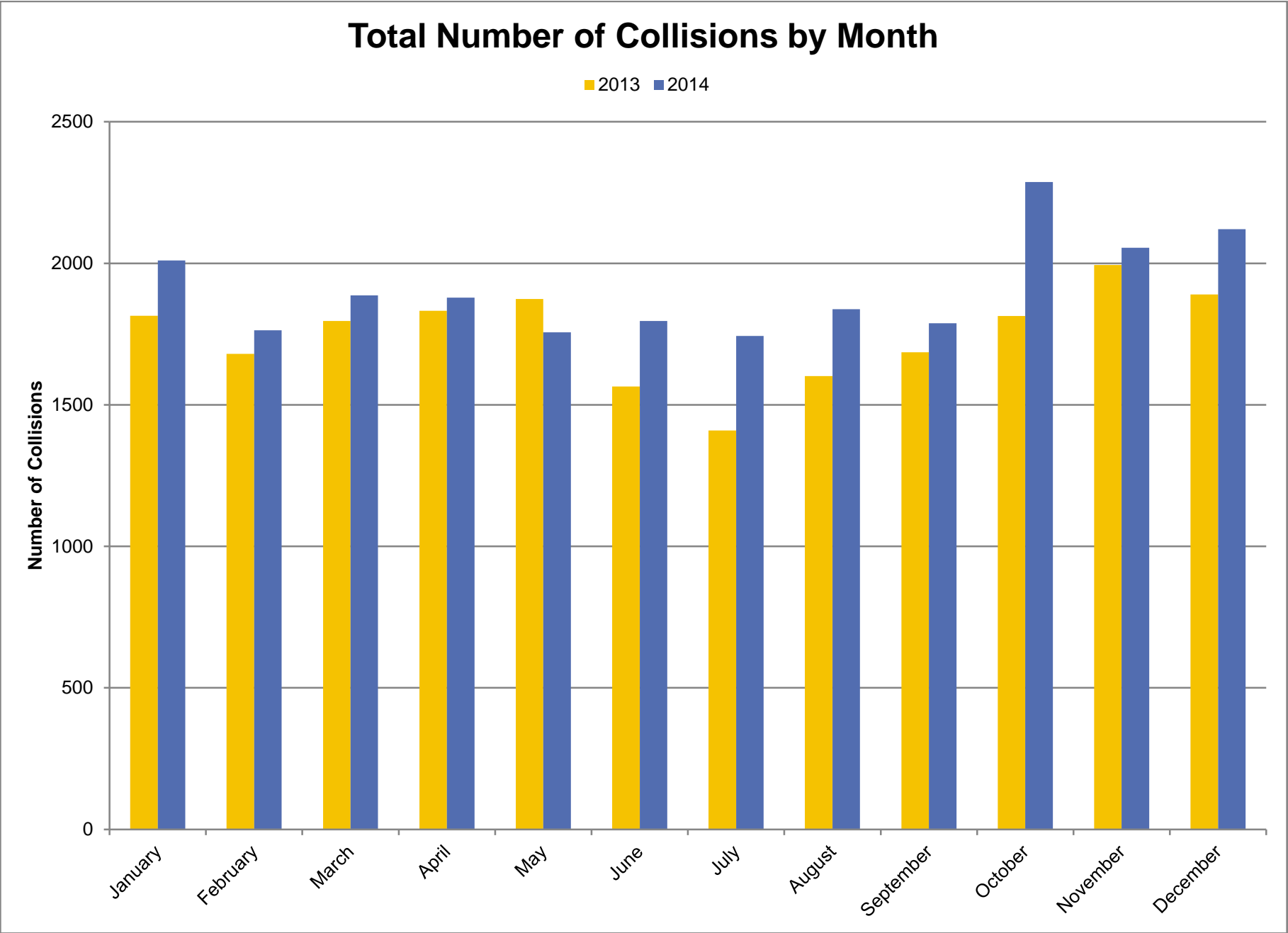


2014 Collision Data

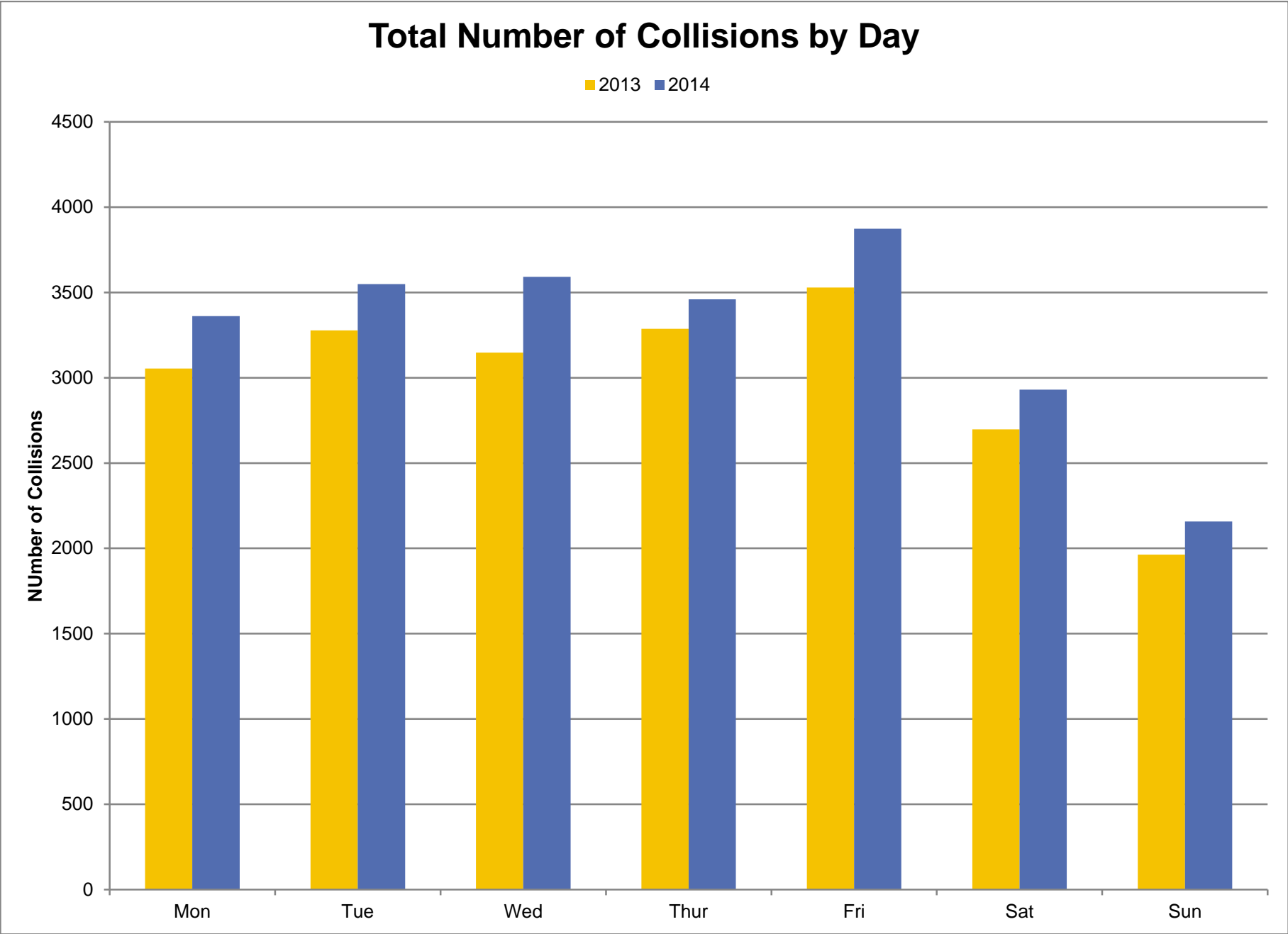




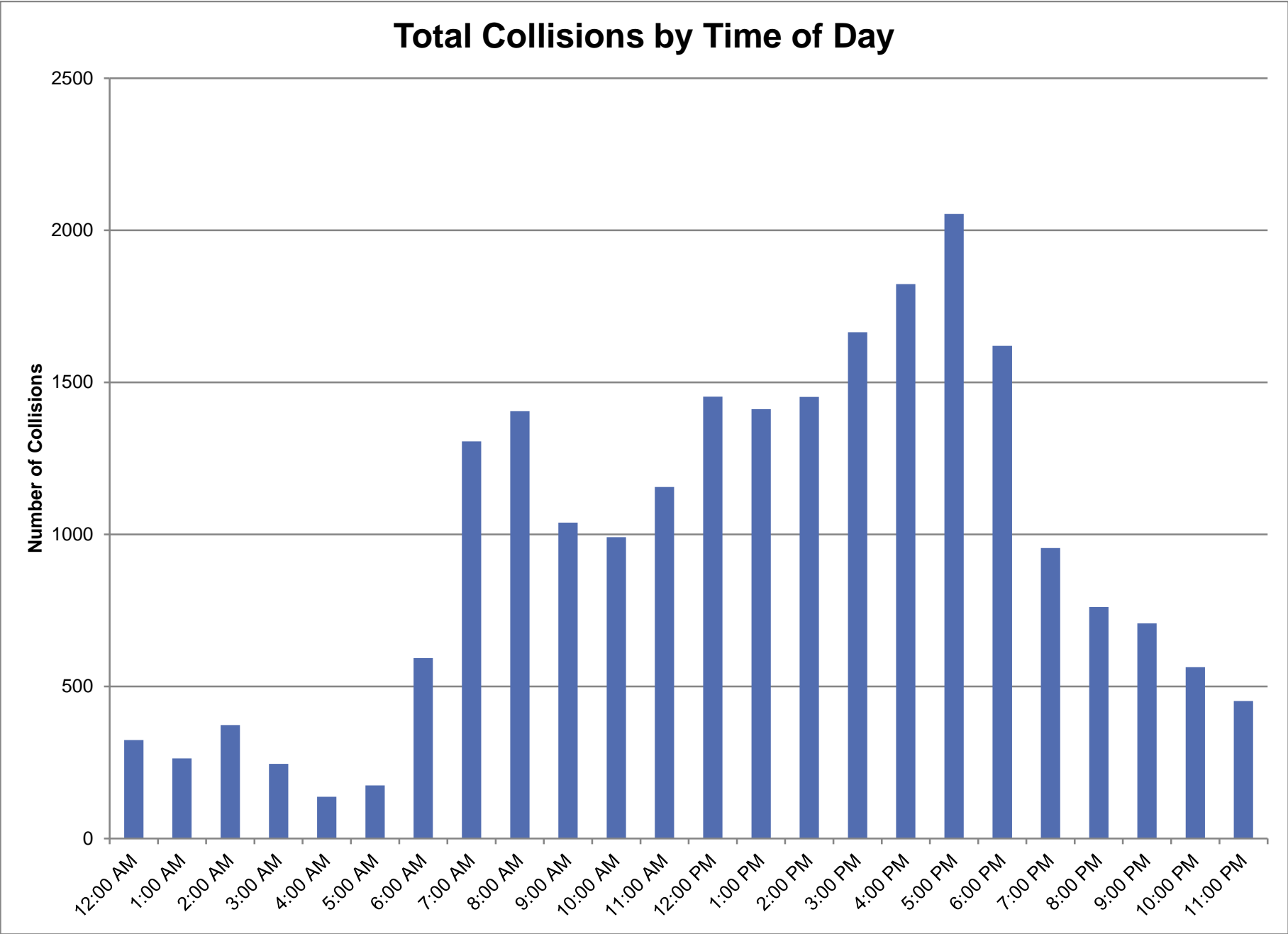
2014 Collision Data



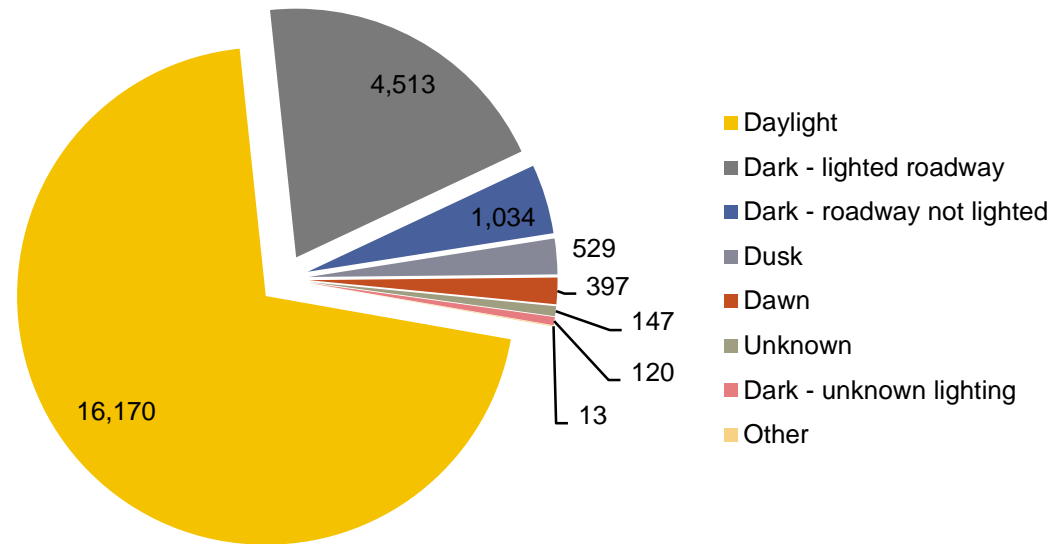
2014 Collision Data



2014 Collision Data

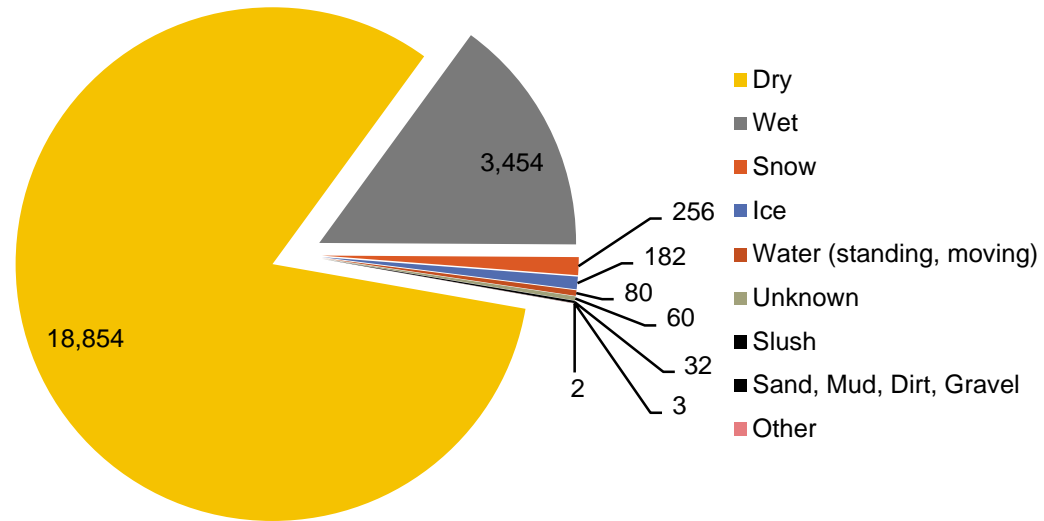


Total Number of Collisions by Ambient Light

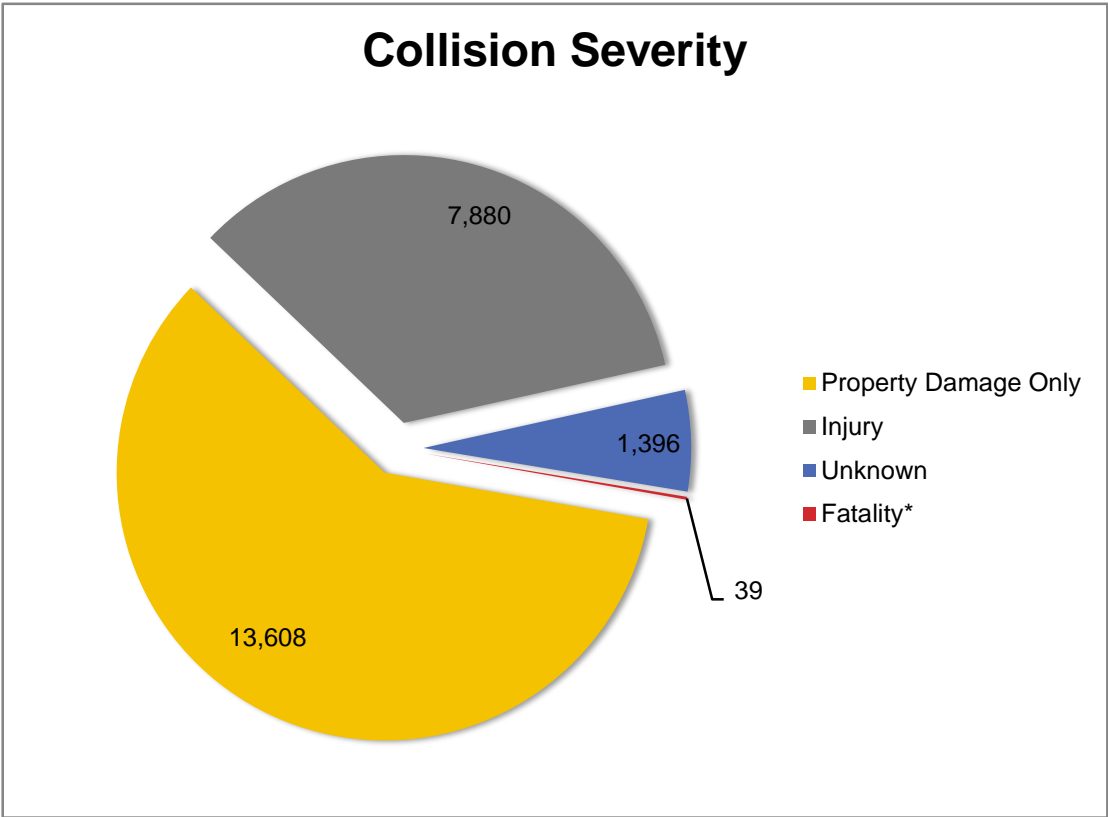


Type of Condition	Total Number of Collisions	Percent of Total
Daylight	16,170	70.54%
Dark - lighted roadway	4,513	19.69%
Dark - roadway not lighted	1,034	4.51%
Dusk	529	2.31%
Dawn	397	1.73%
Unknown	147	0.64%
Dark - unknown lighting	120	0.52%
Other	13	0.06%
Total	22,923	100%

Total Number of Crashes by Road Condition



Type of Condition	Total Number of Collisions	Percent of Total
Dry	18,854	82.25%
Wet	3,454	15.07%
Snow	256	1.12%
Ice	182	0.79%
Water (standing, moving)	80	0.35%
Unknown	60	0.26%
Slush	32	0.14%
Sand, Mud, Dirt, Gravel	3	0.01%
Other	2	0.01%
Total	22,923	100%



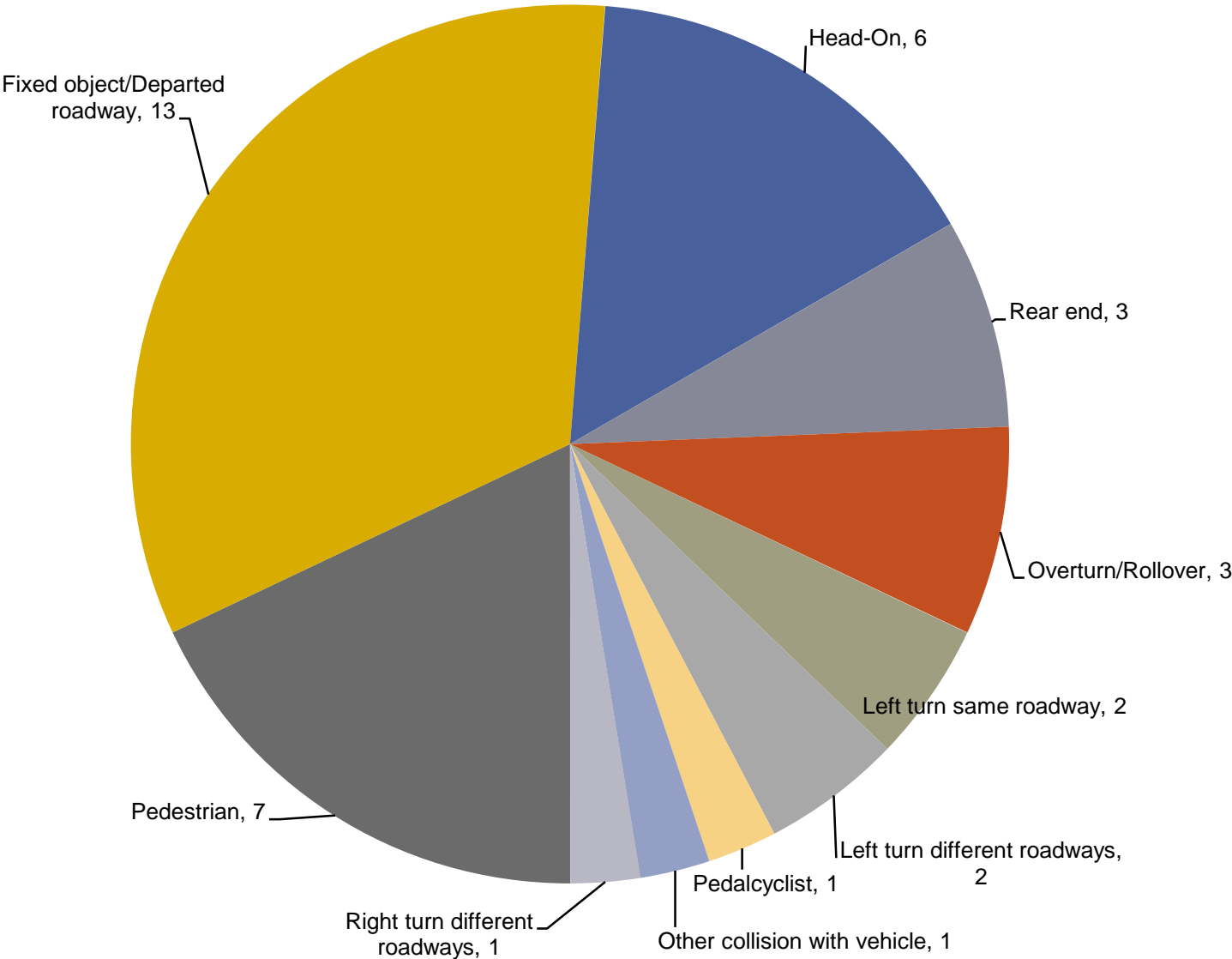
Injury Type	Total Collisions	Percent of Total
Property Damage Only	13,608	59.36%
Injury	7,880	34.38%
Unknown	1,396	6.09%
Fatality*	39	0.17%
Total	22,923	100.00%

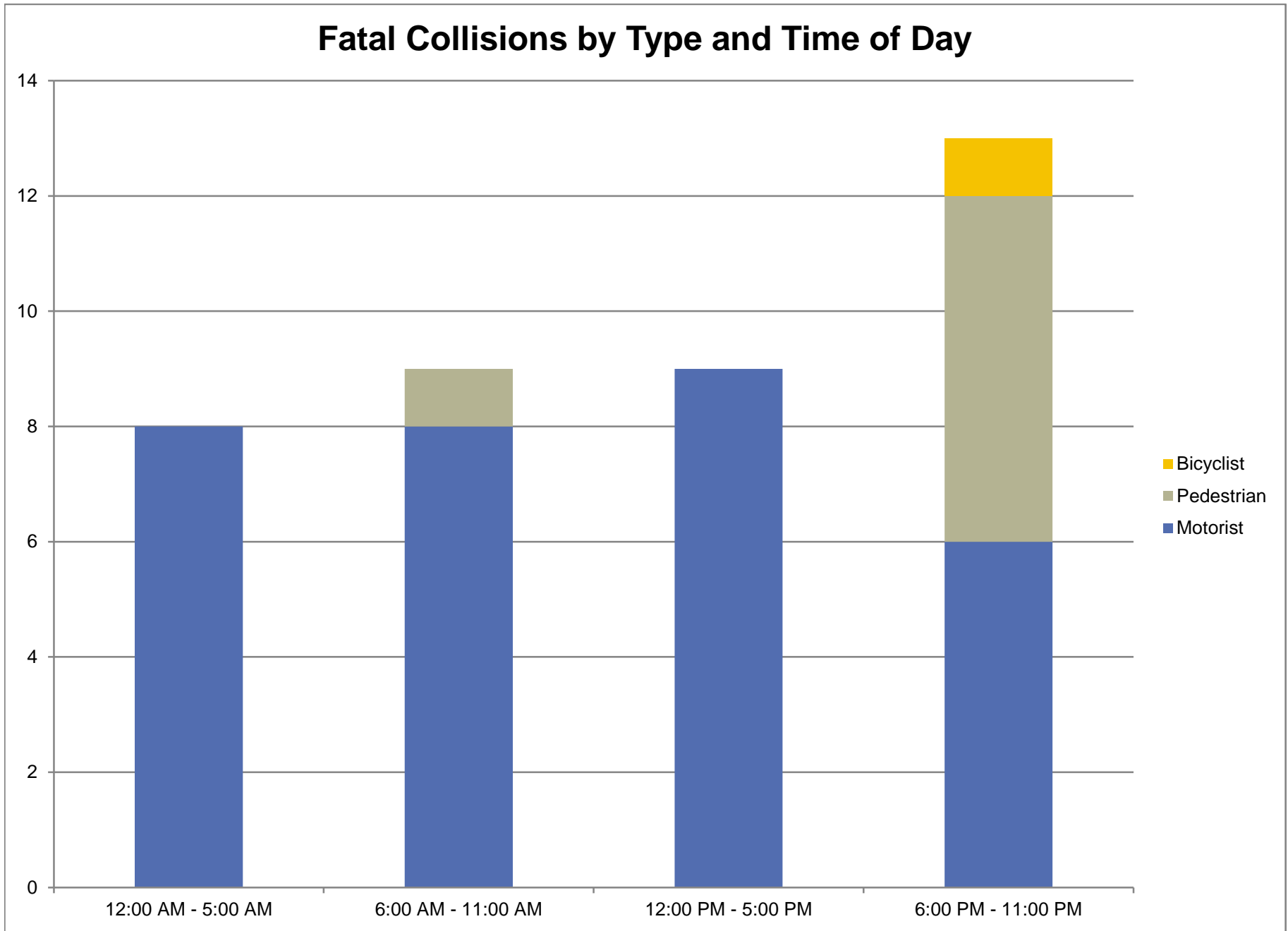
* Fatal collisions considered reportable for Annual Report. Number may vary from Charlotte-Mecklenburg Police Department listings because the data presented in this report does not include collisions that occurred on the Interstate highways (I-77, I-277, I-85, and I-485) or collisions that occur within private lots and parking areas.

Contributing Circumstances	Total Collisions	Percent of Total
Inattention	4,872	21.25%
Failure to reduce speed	3,544	15.46%
No contributing circumstance indicated	3,425	14.94%
Failed to yield right of way	2,858	12.47%
Unable to determine	1,104	4.82%
Unknown	802	3.50%
Followed too closely	768	3.35%
Improper turn	704	3.07%
Improper lane change	660	2.88%
Disregarded traffic signals	643	2.81%
Other	473	2.06%
Exceeded safe speed for conditions	444	1.94%
Alcohol use	317	1.38%
Overcorrected/oversteered	280	1.22%
Improper backing	242	1.06%
Crossed centerline/going wrong way	203	0.89%
Visibility obstructed	188	0.82%
Exceeded authorized speed limit	170	0.74%
Disregarded stop sign	161	0.70%
Operated vehicle in erratic, reckless, careless, negligent or aggressive manner	160	0.70%
Swerved or avoided due to wind, slippery surface, vehicle, object, non-motorist	158	0.69%
Other improper passing	110	0.48%
Operated defective equipment	95	0.41%
Driver distracted by other inside the vehicle	86	0.38%
Disregarded road markings	70	0.31%
Driver distracted by electronic communication device (cell phone, texting, etc.	66	0.29%
Disregarded other traffic signs	60	0.26%
Use of improper lane	59	0.26%
Driver distracted by other electronic device (navigation device, DVD player, etc.	46	0.20%
Driver distracted by external distraction (outside the vehicle	45	0.20%
Disregarded yield sign	26	0.11%
Improper parking	24	0.10%
Right turn on red	23	0.10%
Drug use	21	0.09%
Improper or no signal	10	0.04%
Passed on curve	3	0.01%
Passed on hill	2	0.01%
Passed stopped school bus	1	0.00%
TOTAL	22,923	100.00%

2014 Collision Data

Crash Type





BICYCLIST

Crash Rates by Vehicle Miles Traveled						
YEAR	Total Bicycle Crashes	Bicycle Fatalities	Vehicle Miles Traveled	Bicycle Crash Rate Per Million Vehicle Miles	Bicycle Fatality Rate Per Million Vehicle Miles	Total Fatal Crashes
2002	98	1	17,699,261	5.54	0.06	48
2003	71	2	18,583,633	3.82	0.11	53
2004	105	1	20,095,648	5.23	0.05	39
2005	79	4	22,412,325	3.52	0.18	51
2006	92	1	22,343,242	4.12	0.04	63
2007	91	1	22,516,834	4.04	0.04	52
2008	114	4	22,051,666	5.17	0.18	42
2009	83	1	20,333,841	4.08	0.05	40
2010	95	2	19,717,761	4.82	0.10	29
2011	90	0	19,101,681	4.71	0.00	38
2012	112	1	19,552,898	5.73	0.05	44
2013	101	2	19,753,300	5.11	0.10	43
2014	140	1	20,211,400	6.93	0.05	39

Crash Rates by Population						
YEAR	Total Bicycle Crashes	Bicycle Fatalities	Population	Bicycle Crash Rate Per 10,000 Persons	Bicycle Fatality Rate Per 10,000 Persons	Total Fatal Crashes
2002	98	1	579,684	1.69	0.02	48
2003	71	2	594,176	1.19	0.03	53
2004	105	1	614,330	1.71	0.02	39
2005	79	4	632,760	1.25	0.06	51
2006	92	1	640,270	1.44	0.02	63
2007	91	1	664,342	1.37	0.02	52
2008	114	4	674,752	1.69	0.06	42
2009	83	1	692,097	1.20	0.01	40
2010	95	2	731,424	1.30	0.03	29
2011	90	0	750,124	1.20	0.00	38
2012	112	1	772,627	1.45	0.01	44
2013	101	2	796,921	1.27	0.03	43
2014	140	1	809,958	1.73	0.01	39

PEDESTRIAN

Crash Rates by Vehicle Miles Traveled						
YEAR	Total Pedestrian Crashes	Pedestrian Fatalities	Vehicle Miles Traveled	Pedestrian Crash Rate Per Million Vehicle Miles	Pedestrian Fatality Rate Per Million Vehicle Miles	Total Fatal Crashes
2002	234	17	17,699,261	13.22	0.96	48
2003	271	8	18,583,633	14.58	0.43	53
2004	223	8	20,095,648	11.10	0.40	39
2005	198	7	22,412,325	8.83	0.31	51
2006	230	15	22,343,242	10.29	0.67	63
2007	311	11	22,516,834	13.81	0.49	52
2008	345	9	22,051,666	15.65	0.41	42
2009	297	11	20,333,841	14.61	0.54	40
2010	305	13	19,717,761	15.47	0.66	29
2011	352	18	19,101,681	18.43	0.94	38
2012	299	21	19,552,898	15.29	1.07	44
2013	317	9	19,753,300	16.05	0.46	43
2014	371	7	20,211,400	18.36	0.35	39

Crash Rates by Population						
YEAR	Total Pedestrian Crashes	Pedestrian Fatalities	Population	Pedestrian Crash Rate Per 10,000 Persons	Pedestrian Fatality Rate Per 10,000 Persons	Total Fatal Crashes
2002	234	17	579,684	4.04	0.29	48
2003	271	8	594,176	4.56	0.13	53
2004	223	8	614,330	3.63	0.13	39
2005	198	7	632,760	3.13	0.11	51
2006	230	15	640,270	3.59	0.23	63
2007	311	11	664,342	4.68	0.17	52
2008	345	9	674,752	5.11	0.13	42
2009	297	11	692,097	4.29	0.16	40
2010	305	13	731,424	4.17	0.18	29
2011	352	18	750,124	4.69	0.24	38
2012	299	21	772,627	3.87	0.27	44
2013	317	9	796,921	3.98	0.11	43
2014	371	7	809,958	4.58	0.09	39

2015 High Accident Location (HAL) List

CDOT releases the annual HAL list to accomplish multiple goals. The first goal of releasing the HAL is to prioritize and identify locations that can benefit from spot safety improvements that will reduce the number of collisions. The list is also used to support the ranking and prioritization needs of many transportation related programs. In addition by releasing this list to the public, it is intended to heighten road user awareness of locations that have an elevated collision rate.

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. Select any intersections not identified above having 5 or more collisions with 75% occurring in the current year (2014).
- Step 3. Calculate collision rates for all intersections meeting above criteria.
$$(C*1,000,000)/(V*N*365)$$
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 2008 data was a collision rate of 1.30. The cutoff for 2009, 2013 and 2014 data is a collision rate of 1.20. The cutoff for 2010, 2011, and 2012 data was 1.10.

Two versions of the HAL list are presented on the following pages: rank order and alphabetical by street name.

ID	Location	2012	2013	2014	3-Year Total	ADT	Crash Rate	Rank	Prior Year Rank	ADT Year	Notes
12038	E 8TH ST & N COLLEGE ST	10	2	7	19	6,100	2.84	1	1	2012	Sept 2013 - signs and markings per safety committee
12721	S CHURCH ST & W HILL ST_W JOHN BELK RA	7	11	13	31	10,600	2.67	2	4	EST	Jan 2015 - signs and markings following field review
11956	E 9TH ST & N COLLEGE ST	7	8	7	22	7,600	2.64	3	2	2012	2013 - backplates added
11693	E 12TH ST & N COLLEGE ST	9	7	5	21	7,800	2.46	4	12	2012	
12135	E 7TH ST & N COLLEGE ST	12	13	13	38	14,400	2.41	5	7	2012	
13600	3RD-4TH CONNECTOR ST & E 4TH ST N KINGS DR S KINGS DR	37	34	41	112	45,400	2.25	6	14	EST	Under consideration for split phase
8847	E SUGAR CREEK RD & N TRYON ST W SUGAR CREEK RD	38	44	63	145	64,000	2.07	7	15	2014	
12896	E 6TH ST & N MCDOWELL ST	11	20	10	41	18,300	2.05	8	9	2010	2014 - backplates installed
4061	DAVID COX RD & LAKEVIEW RD_OLD STATESVILLE RD	5	16	11	32	14,700	1.99	9	10	2013	Intersection improvement project/traffic signal awaiting funding
9902	CAMBRIDGE COMMONS DR & HARRISBURG RD	17	9	5	31	14,600	1.94	10	3	2013	Roundabout completed
5266	DOUG MAYES PL & J W CLAY BV	6	9	10	25	11,800	1.93	11	21	2013	
7380	REAGAN DR & W SUGAR CREEK RD	31	35	40	106	51,000	1.90	12	16	2014	
44555	N TRYON ST & UNIVERSITY CITY BV	26	55	46	127	61,400	1.89	13	Not Ranked	2012	
13590	CAMDEN RD & S TRYON ST W SUMMIT AV	8	13	10	31	15,200	1.86	14	35	2012	
8329	BEATTIES FORD RD & LASALLE ST	25	16	17	58	28,800	1.84	15	20	2013	
13912	CHARLOTTETOWNE AV & E JOHN BELK RA KENILWORTH AV	18	39	31	88	43,800	1.83	16	11	2012	2015 backplates added
11625	E 11TH ST & N COLLEGE ST	12	23	13	48	24,000	1.83	17	46	2013	2013 - backplates added + signs added
4698	LAWING RD & MIRANDA RD_OAKDALE RD SUNSET RD	4	8	10	22	11,400	1.76	18	8	2014	
12089	E 12TH ST & N DAVIDSON ST	11	15	17	43	22,300	1.76	19	51	2013	
12775	E 4TH ST & S CALDWELL ST	9	20	16	45	23,400	1.76	20	27	2013	
10100	ASHLEY RD & FREEDOM DR TUCKASEEGEE RD	31	22	25	78	40,900	1.74	21	6	2013	
21514	E ARROWOOD RD & NATIONS FORD RD W ARROWOOD RD	8	17	23	48	25,200	1.74	22	Not Ranked	2012	Intersection improvement project
12076	N CHURCH ST & W 5TH ST	9	10	13	32	16,800	1.74	23	18	2013	
12186	E 11TH ST & E BROOKSHIRE FR RA_N DAVIDSON ST	10	12	16	38	20,100	1.73	24	37	2013	Replaced 12"/8"/8" signal heads with all 12" plus backplates
15287	ALBEMARLE RD & N SHARON AMITY RD	39	37	53	129	70,200	1.68	25	45	2013	
8515	ATANDO AV & STATESVILLE AV	15	22	20	57	31,300	1.66	26	22	2013	
15195	ALBEMARLE RD & FARM POND LN	27	33	41	101	56,100	1.64	27	40	2013	
4270	N TRYON ST & SALOME CHURCH RD	12	23	17	52	29,000	1.64	28	Not Ranked	EST	
4866	E MALLARD CREEK CHURCH RD & N TRYON ST W MALLARD CREEK CHURCH RD	26	31	42	99	57,100	1.58	29	42	2013	
13667	E 7TH ST & HAWTHORNE LN	10	23	19	52	30,000	1.58	30	5	2014	
11237	N I-77 EXIT 10B RA & W TRADE ST	7	13	16	36	20,800	1.58	31	61	2013	2015 - backplates added
5704	E W T HARRIS BV & N TRYON ST W W T HARRIS BV	35	52	40	127	73,800	1.57	32	38	2012	
7195	REAGAN DR & TOM HUNTER RD	3	3	10	16	9,300	1.57	33	Not Ranked	2013	
52081	E W T HARRIS BV & LAWYERS RD	9	16	7	32	18,700	1.56	34	Not Ranked	2013	
10862	DALTON AV & N GRAHAM ST	14	10	9	33	19,300	1.56	35	Not Ranked	2013	
13763	CENTRAL AV & EASTWAY DR	18	35	37	90	53,100	1.55	36	24	2013	
12937	E W T HARRIS BV & HICKORY GROVE RD	25	26	37	88	52,100	1.54	37	Not Ranked	2014	
15542	CLANTON RD & N I-77 TO CLANTON RD RA NB	7	15	13	35	20,800	1.54	38	49	2012	
24549	I-485 RA & SOUTH BV	16	30	27	73	43,400	1.54	39	44	2014	
12347	S CHURCH ST & W 3RD ST	5	6	10	21	12,500	1.53	40	Not Ranked	2013	
11311	MILTON RD & N SHARON AMITY RD	16	18	19	53	31,600	1.53	41	13	2014	
51371	N SHOPPING CENTER DR & N TRYON ST UNIVERSITY POINTE BV	20	21	18	59	35,200	1.53	42	31	2012	
14442	CENTRAL AV & N SHARON AMITY RD	38	30	38	106	63,400	1.53	43	17	2015	
13517	BILLY GRAHAM PY & MORRIS FIELD DR	17	31	32	80	47,900	1.53	44	Not Ranked	2013	
31626	PLAZA WALK DR & THE PLAZA	7	15	21	43	26,100	1.50	45	Not Ranked	2012	NCDOT project is in bid phase
24904	PINEVILLE-MATTHEWS RD & PROVIDENCE RD	28	42	44	114	69,200	1.50	46	26	2012	
5525	J W CLAY BV & MCCULLOUGH DR W W T HARRIS BV	34	40	39	113	68,700	1.50	47	52	2012	
17151	E INDEPENDENCE BV & IDLEWILD RD	33	47	50	130	79,400	1.50	48	55	2011	
12695	E TRADE ST & N CALDWELL ST S CALDWELL ST	13	12	7	32	20,000	1.46	49	30	2013	
12863	E 3RD ST & S CALDWELL ST	10	14	8	32	20,200	1.45	50	43	2012	
4175	LAKEVIEW RD & STATESVILLE RD	4	8	7	19	12,000	1.45	51	47	2013	Under evaluation for signal
9768	EASTWAY DR & THE PLAZA	21	28	33	82	51,900	1.44	52	62	2014	
12806	E STONEWALL ST & S COLLEGE ST	11	15	10	36	22,800	1.44	53	Not Ranked	2012	
49037	I-485 RA & MOUNT HOLLY RD	10	5	11	26	16,600	1.43	54	Not Ranked	2011	
4364	N I-85 RA & W MALLARD CREEK CHURCH RD	18	29	15	62	40,000	1.42	55	Not Ranked	EST	2014 - new signal installed
6130	OLD CONCORD RD & SUTHER RD	7	13	11	31	20,000	1.42	56	Not Ranked	EST	
17273	BILLY GRAHAM PY & S TRYON ST W WOODLAWN RD	25	43	31	99	64,200	1.41	57	23	2013	
15253	ALBEMARLE RD & E W T HARRIS BV	30	43	39	112	73,800	1.39	58	33	2013	
11164	CAMP GREENE ST & FREEDOM DR	12	15	21	48	31,800	1.38	59	Not Ranked	2012	
5454	BACK CREEK CHURCH RD & PAVILION BV UNIVERSITY CITY BV	17	38	35	90	60,100	1.37	60	Not Ranked	2014	
7554	BACK CREEK CHURCH RD & ROCKY RIVER RD	4	7	9	20	13,600	1.34	61	Not Ranked	2012	
28015	LANCASTER HY & PROVIDENCE RD WEST	3	15	10	28	19,300	1.32	62	Not Ranked	2009	
9607	E SUGAR CREEK RD & N DAVIDSON ST	9	8	17	34	23,500	1.32	63	Not Ranked	?	
13985	CAMDEN RD & EAST BV WEST BV	6	10	9	25	17,400	1.31	64	Not Ranked	2012	
11232	BARRINGTON DR & MILTON RD	11	8	7	26	18,200	1.30	65	29	2014	
10162	E SUGAR CREEK RD & THE PLAZA	15	11	38	64	44,800	1.30	66	Not Ranked	2014	
16126	E W T HARRIS BV & IDLEWILD RD	15	26	24	65	45,500	1.30	67	Not Ranked	2012	
7441	W SUGAR CREEK RD & WILSON LN	6	9	10	25	17,600	1.30	68	41	?	

ID	Location	2012	2013	2014	3-Year Total	ADT	Crash Rate	Rank	Prior Year Rank	ADT Year	Notes
10622	MULBERRY CHURCH RD & QUEEN CITY DR	7	11	7	25	17,800	1.28	69	60	2013	
19825	BROWN-GRIER RD & SANDY PORTER RD W ARROWOOD RD	4	6	19	29	20,700	1.28	70	Not Ranked	2010	
25815	PINEVILLE-MATTHEWS RD & REA RD	22	32	33	87	62,500	1.27	71	Not Ranked	2014	
11262	EASTWAY DR & FRONTENAC AV SHAMROCK DR	13	27	30	70	50,400	1.27	72	59	2014	
17062	IDLEWILD RD & MONROE RD RAMA RD	12	20	22	54	38,900	1.27	73	Not Ranked	2011	
8193	E W T HARRIS BV & GRIER RD	22	29	31	82	60,100	1.25	74	Not Ranked	2010	
11322	N GRAHAM ST & W 10TH ST	9	11	13	33	24,200	1.25	75	Not Ranked	2013	
13343	CHARLOTTETOWNE AV & E 7TH ST E INDEPENDENCE BV	9	18	13	40	29,700	1.23	76	39	2012	
20766	I-485 RA & S TRYON ST	24	24	15	63	47,100	1.22	77	Not Ranked	2011	
15201	ALBEMARLE RD & LAWYERS RD	11	28	32	71	53,400	1.21	78	Not Ranked	2013	
8181	FREEDOM DR & TODDVILLE RD	5	9	5	19	14,300	1.21	79	28	2013	Freedom Dr construction complete
51369	IKEA BV & UNIVERSITY CITY BV	8	14	12	34	25,600	1.21	80	Not Ranked	2012	
11349	N DAVIDSON ST & PARKWOOD AV	4	11	14	29	21,900	1.21	81	Not Ranked	2010	
6473	MINERAL SPRINGS RD & N GRAHAM ST W SUGAR CREEK RD	11	14	21	46	34,900	1.20	82	Not Ranked	2014	
13118	CENTRAL AV & E 7TH ST N KINGS DR	9	20	28	57	43,300	1.20	83	Not Ranked	2014	Flashing yellow arrows in progress

ID	Location	2012	2013	2014	3-Year Total	ADT	Crash Rate	Rank	Prior Year Rank	ADT Year	Notes
13600	3RD-4TH CONNECTOR ST & E 4TH ST N KINGS DR S KINGS DR	37	34	41	112	45,400	2.25	6	14	EST	Under consideration for split phase
15253	ALBEMARLE RD & E W T HARRIS BV	30	43	39	112	73,800	1.39	58	33	2013	
15195	ALBEMARLE RD & FARM POND LN	27	33	41	101	56,100	1.64	27	40	2013	
15201	ALBEMARLE RD & LAWYERS RD	11	28	32	71	53,400	1.21	78	Not Ranked	2013	
15287	ALBEMARLE RD & N SHARON AMITY RD	39	37	53	129	70,200	1.68	25	45	2013	
10100	ASHLEY RD & FREEDOM DR TUCKASEEGEE RD	31	22	25	78	40,900	1.74	21	6	2013	
8515	ATANDO AV & STATESVILLE AV	15	22	20	57	31,300	1.66	26	22	2013	
5454	BACK CREEK CHURCH RD & PAVILION BV UNIVERSITY CITY BV	17	38	35	90	60,100	1.37	60	Not Ranked	2014	
7554	BACK CREEK CHURCH RD & ROCKY RIVER RD	4	7	9	20	13,600	1.34	61	Not Ranked	2012	
11232	BARRINGTON DR & MILTON RD	11	8	7	26	18,200	1.30	65	29	2014	
8329	BEATTIES FORD RD & LASALLE ST	25	16	17	58	28,800	1.84	15	20	2013	
13517	BILLY GRAHAM PY & MORRIS FIELD DR	17	31	32	80	47,900	1.53	44	Not Ranked	2013	
17273	BILLY GRAHAM PY & S TRYON ST W WOODLAWN RD	25	43	31	99	64,200	1.41	57	23	2013	
19825	BROWN-GRIER RD & SANDY PORTER RD W ARROWOOD RD	4	6	19	29	20,700	1.28	70	Not Ranked	2010	
9902	CAMBRIDGE COMMONS DR & HARRISBURG RD	17	9	5	31	14,600	1.94	10	3	2013	Roundabout completed
13985	CAMDEN RD & EAST BV WEST BV	6	10	9	25	17,400	1.31	64	Not Ranked	2012	
13590	CAMDEN RD & S TRYON ST W SUMMIT AV	8	13	10	31	15,200	1.86	14	35	2012	
11164	CAMP GREENE ST & FREEDOM DR	12	15	21	48	31,800	1.38	59	Not Ranked	2012	
13118	CENTRAL AV & E 7TH ST N KINGS DR	9	20	28	57	43,300	1.20	83	Not Ranked	2014	Flashing yellow arrows in progress
13763	CENTRAL AV & EASTWAY DR	18	35	37	90	53,100	1.55	36	24	2013	
14442	CENTRAL AV & N SHARON AMITY RD	38	30	38	106	63,400	1.53	43	17	2015	
13343	CHARLOTTETOWNE AV & E 7TH ST E INDEPENDENCE BV	9	18	13	40	29,700	1.23	76	39	2012	
13912	CHARLOTTETOWNE AV & E JOHN BELK RA KENILWORTH AV	18	39	31	88	43,800	1.83	16	11	2012	2015 backplates added
15542	CLANTON RD & N I-77 TO CLANTON RD RA NB	7	15	13	35	20,800	1.54	38	49	2012	
10862	DALTON AV & N GRAHAM ST	14	10	9	33	19,300	1.56	35	Not Ranked	2013	
4061	DAVID COX RD & LAKEVIEW RD_OLD STATESVILLE RD	5	16	11	32	14,700	1.99	9	10	2013	Intersection improvement project/traffic signal awaiting funding
5266	DOUG MAYES PL & J W CLAY BV	6	9	10	25	11,800	1.93	11	21	2013	
12186	E 11TH ST & E BROOKSHIRE FR RA_N DAVIDSON ST	10	12	16	38	20,100	1.73	24	37	2013	Replaced 12"/8" signal heads with all 12" plus backplates
11625	E 11TH ST & N COLLEGE ST	12	23	13	48	24,000	1.83	17	46	2013	2013 - backplates added + signs added
11693	E 12TH ST & N COLLEGE ST	9	7	5	21	7,800	2.46	4	12	2012	
12089	E 12TH ST & N DAVIDSON ST	11	15	17	43	22,300	1.76	19	51	2013	
12863	E 3RD ST & S CALDWELL ST	10	14	8	32	20,200	1.45	50	43	2012	
12775	E 4TH ST & S CALDWELL ST	9	20	16	45	23,400	1.76	20	27	2013	
12896	E 6TH ST & N MCDOWELL ST	11	20	10	41	18,300	2.05	8	9	2010	2014 - backplates installed
13667	E 7TH ST & HAWTHORNE LN	10	23	19	52	30,000	1.58	30	5	2014	
12135	E 7TH ST & N COLLEGE ST	12	13	13	38	14,400	2.41	5	7	2012	
12038	E 8TH ST & N COLLEGE ST	10	2	7	19	6,100	2.84	1	1	2012	Sept 2013 - signs and markings per safety committee
11956	E 9TH ST & N COLLEGE ST	7	8	7	22	7,600	2.64	3	2	2012	2013 - backplates added
21514	E ARROWOOD RD & NATIONS FORD RD W ARROWOOD RD	8	17	23	48	25,200	1.74	22	Not Ranked	2012	Intersection improvement project
17151	E INDEPENDENCE BV & IDLEWILD RD	33	47	50	130	79,400	1.50	48	55	2011	
4866	E MALLARD CREEK CHURCH RD & N TRYON ST W MALLARD CREEK CHURCH RD	26	31	42	99	57,100	1.58	29	42	2013	
12806	E STONEWALL ST & S COLLEGE ST	11	15	10	36	22,800	1.44	53	Not Ranked	2012	
9607	E SUGAR CREEK RD & N DAVIDSON ST	9	8	17	34	23,500	1.32	63	Not Ranked	?	
8847	E SUGAR CREEK RD & N TRYON ST W SUGAR CREEK RD	38	44	63	145	64,000	2.07	7	15	2014	
10162	E SUGAR CREEK RD & THE PLAZA	15	11	38	64	44,800	1.30	66	Not Ranked	2014	
12695	E TRADE ST & N CALDWELL ST S CALDWELL ST	13	12	7	32	20,000	1.46	49	30	2013	
8193	E W T HARRIS BV & GRIER RD	22	29	31	82	60,100	1.25	74	Not Ranked	2010	
12937	E W T HARRIS BV & HICKORY GROVE RD	25	26	37	88	52,100	1.54	37	Not Ranked	2014	
16126	E W T HARRIS BV & IDLEWILD RD	15	26	24	65	45,500	1.30	67	Not Ranked	2012	
52081	E W T HARRIS BV & LAWYERS RD	9	16	7	32	18,700	1.56	34	Not Ranked	2013	
5704	E W T HARRIS BV & N TRYON ST W W T HARRIS BV	35	52	40	127	73,800	1.57	32	38	2012	
11262	EASTWAY DR & FRONTENAC AV SHAMROCK DR	13	27	30	70	50,400	1.27	72	59	2014	
9768	EASTWAY DR & THE PLAZA	21	28	33	82	51,900	1.44	52	62	2014	
8181	FREEDOM DR & TODDVILLE RD	5	9	5	19	14,300	1.21	79	28	2013	Freedom Dr construction complete
49037	I-485 RA & MOUNT HOLLY RD	10	5	11	26	16,600	1.43	54	Not Ranked	2011	
20766	I-485 RA & S TRYON ST	24	24	15	63	47,100	1.22	77	Not Ranked	2011	
24549	I-485 RA & SOUTH BV	16	30	27	73	43,400	1.54	39	44	2014	
17062	IDLEWILD RD & MONROE RD RAMA RD	12	20	22	54	38,900	1.27	73	Not Ranked	2011	
51369	IKEA BV & UNIVERSITY CITY BV	8	14	12	34	25,600	1.21	80	Not Ranked	2012	
5525	J W CLAY BV & MCCULLOUGH DR W W T HARRIS BV	34	40	39	113	68,700	1.50	47	52	2012	
4175	LAKEVIEW RD & STATESVILLE RD	4	8	7	19	12,000	1.45	51	47	2013	Under evaluation for signal
28015	LANCASTER HY & PROVIDENCE RD WEST	3	15	10	28	19,300	1.32	62	Not Ranked	2009	
4698	LAWING RD & MIRANDA RD OAKDALE RD SUNSET RD	4	8	10	22	11,400	1.76	18	8	2014	
11311	MILTON RD & N SHARON AMITY RD	16	18	19	53	31,600	1.53	41	13	2014	
6473	MINERAL SPRINGS RD & N GRAHAM ST W SUGAR CREEK RD	11	14	21	46	34,900	1.20	82	Not Ranked	2014	
10622	MULBERRY CHURCH RD & QUEEN CITY DR	7	11	7	25	17,800	1.28	69	60	2013	
12076	N CHURCH ST & W 5TH ST	9	10	13	32	16,800	1.74	23	18	2013	
11349	N DAVIDSON ST & PARKWOOD AV	4	11	14	29	21,900	1.21	81	Not Ranked	2010	
11322	N GRAHAM ST & W 10TH ST	9	11	13	33	24,200	1.25	75	Not Ranked	2013	

ID	Location	2012	2013	2014	3-Year Total	ADT	Crash Rate	Rank	Prior Year Rank	ADT Year	Notes
11237	N I-77 EXIT 10B RA & W TRADE ST	7	13	16	36	20,800	1.58	31	61	2013	2015 - backplates added
4364	N I-85 RA & W MALLARD CREEK CHURCH RD	18	29	15	62	40,000	1.42	55	Not Ranked	EST	2014 - new signal installed
51371	N SHOPPING CENTER DR & N TRYON ST UNIVERSITY POINTE BV	20	21	18	59	35,200	1.53	42	31	2012	
4270	N TRYON ST & SALOME CHURCH RD	12	23	17	52	29,000	1.64	28	Not Ranked	EST	
44555	N TRYON ST & UNIVERSITY CITY BV	26	55	46	127	61,400	1.89	13	Not Ranked	2012	
6130	OLD CONCORD RD & SUTHER RD	7	13	11	31	20,000	1.42	56	Not Ranked	EST	
24904	PINEVILLE-MATTHEWS RD & PROVIDENCE RD	28	42	44	114	69,200	1.50	46	26	2012	
25815	PINEVILLE-MATTHEWS RD & REA RD	22	32	33	87	62,500	1.27	71	Not Ranked	2014	
31626	PLAZA WALK DR & THE PLAZA	7	15	21	43	26,100	1.50	45	Not Ranked	2012	NCDOT project is in bid phase
7195	REAGAN DR & TOM HUNTER RD	3	3	10	16	9,300	1.57	33	Not Ranked	2013	
7380	REAGAN DR & W SUGAR CREEK RD	31	35	40	106	51,000	1.90	12	16	2014	
12347	S CHURCH ST & W 3RD ST	5	6	10	21	12,500	1.53	40	Not Ranked	2013	
12721	S CHURCH ST & W HILL ST_W JOHN BELK RA	7	11	13	31	10,600	2.67	2	4	EST	Jan 2015 - signs and markings following field review
7441	W SUGAR CREEK RD & WILSON LN	6	9	10	25	17,600	1.30	68	41	?	

2014 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.

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.
- 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.

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:

- o Angle
- o Left Turn (same or different roadways)
- o Right Turn (same or different roadways)
- o 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:

- o Rear End (all rear end crash types)
- o 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.

ID	Location	Signalized	5-Year Collisions Total	Intersection Warrants					Pedestrian and Bike Warrants					
				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3 Years Peds	Night Peds	P-4	Last 3 Years Bike	X-4	
13864	3RD-4TH CONNECTOR ST & CHARLOTTE TOWNE AV E 3RD ST	Yes	84	X										
13600	3RD-4TH CONNECTOR ST & E 4TH ST N KINGS DR S KINGS DR	Yes	180	X										
13090	ALBEMARLE RD & BLAIR RD	Yes	49	X										
13117	ALBEMARLE RD & CABARRUS RD	No	26	X										
15117	ALBEMARLE RD & CENTRAL AV	No	24							X	X			
44421	ALBEMARLE RD & CENTRAL AV	Yes	93	X										
14364	ALBEMARLE RD & DWIGHTWARE BV	No	16					X						
15173	ALBEMARLE RD & EXECUTIVE CENTER DR JENKINS DR	Yes	101						X	X				
15195	ALBEMARLE RD & FARM POND LN	Yes	152							X	X			
45596	ALBEMARLE RD & I-485 RA	Yes	35	X										
15287	ALBEMARLE RD & N SHARON AMITY RD	Yes	179						X	X				
15243	ALBEMARLE RD & REGAL OAKS DR	Yes	90						X		X			
14746	ALBEMARLE RD & WILGROVE-MINT HILL RD	Yes	35	X										
15217	ALBEMARLE RD & WINTERHAVEN DR	Yes	79						X		X			
23744	ALEXANDER RD & PINEVILLE-MATTHEWS RD	Yes	28	X										
27113	ALEXANDER VALLEY DR & PROVIDENCE RD	No	26	X										
2981	ALEXANDERANA RD & EASTFIELD RD OLD STATESVILLE RD	Yes	39	X										
12144	ALLEGHANY ST & WILKINSON BV	No	39	X										
24827	ARBORETUM DR & PINEVILLE-MATTHEWS RD	No	33	X										
30550	ARBORETUM SHOPPING CENTER DR & PROVIDENCE RD	Yes	46	X										
25033	ARBORETUM VIEW & PINEVILLE-MATTHEWS RD	Yes	50	X										
19953	ARCHDALE DR & OLD PINEVILLE RD	Yes	35		X									
28184	ARDREY KELL RD & BLAKENEY HEATH RD BLAKENEY PROFESSIONAL DR	No	16					X						
48197	ARDREY KELL RD & BLAKENEY PARK DR	No	25	X										
28381	ARDREY KELL RD & HAWFIELD WAY DR	No	22					X						
13568	ARLINGTON AV & S CALDWELL ST SOUTH BV	No	25	X										
12954	ARNOLD DR & EASTWAY DR	No	31			X								
21338	ARROWRIDGE BV & N I-77 EXIT 3 RA W ARROWOOD RD	No	28	X										
12216	ASHLEY RD & LUMINA AV	No	21			X								
16859	ASHMORE DR & MONROE RD	No	24			X								
8534	ATANDO AV & LASALLE ST N I-77 EXIT 12 RA	Yes	30	X										
8515	ATANDO AV & STATESVILLE AV	Yes	94	X										
9905	ATMORE ST & E SUGAR CREEK RD	No	26		X									
10012	ATMORE ST & THE PLAZA	No	34	X	X	X								
11011	AUDREY ST & EASTWAY DR	No	35			X								
8041	AUSTIN DR & N TRYON ST	No	40	X										
5454	BACK CREEK CHURCH RD & PAVILION BV UNIVERSITY CITY BV	Yes	122				X							
7554	BACK CREEK CHURCH RD & ROCKY RIVER RD	No	28	X										
27432	BALLANTYNE COMMONS PY & DURANT BV JOHN J DELANEY DR	No	33	X										
27468	BALLANTYNE COMMONS PY & JOHN J DELANEY DR	No	38	X										
27495	BALLANTYNE COMMONS PY & NORTH COMMUNITY HOUSE RD	Yes	37	X										
27228	BALLANTYNE COMMONS PY & TOM SHORT RD	Yes	17					X						
5574	BANNER ELK DR & SUNSET RD	No	42	X	X									
11232	BARRINGTON DR & MILTON RD	No	38	X		X								
5199	BARTON CREEK DR & N TRYON ST	No	25	X										
13761	BAY ST & PECAN AV	No	10			X								
26068	BAYBROOK LN & PINEVILLE-MATTHEWS RD	Yes	36	X										
9278	BEATTIES FORD RD & BOOKER AV OAKLAWN AV	Yes	41	X		X								
8204	BEATTIES FORD RD & CATHERINE SIMMONS AV	No	43	X							X			
6943	BEATTIES FORD RD & CINDY LN GRIERS GROVE RD	Yes	38	X					X					

ID	Location	Signalized	5-Year Collisions Total	Intersection Warrants					Pedestrian and Bike Warrants					
				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3 Years Peds	Night Peds	P-4	Last 3 Years Bike	X-4	
43131	BEATTIES FORD RD & DR WEBBER AV	No	11								X			
9995	BEATTIES FORD RD & FRENCH ST	Yes	30	X										
7885	BEATTIES FORD RD & GILBERT ST_MONTANA DR	Yes	49							X				
8329	BEATTIES FORD RD & LASALLE ST	Yes	80									X		
9358	BEATTIES FORD RD & SANDERS AV	No	12								X			
5672	BEATTIES FORD RD & SUNSET RD	Yes	76	X										
9432	BEATTIES FORD RD & W BROOKSHIRE RA	Yes	17					X						
4743	BELLHAVEN BV & MT HOLLY-HUNTERSVILLE RD_ROZZELLES FERRY RD	Yes	38	X										
8889	BENNETT ST & N TRYON ST	No	33	X										
11538	BERRYHILL RD & FREEDOM DR	Yes	35							X				
26468	BEVINGTON PL & REA RD	Yes	28	X										
8895	BINGHAM DR & N TRYON ST	No	27	X										
24416	BIRNEN DR & JOHNSTON RD_PARK RD	Yes	39		X									
42482	BLAKENEY GREENS BV & REA RD	No	31	X										
5104	BONNIE CONE LN & E MALLARD CREEK CHURCH RD_MARY ALEXANDER RD	Yes	29	X										
8132	BRANCH HILL CR & OLD CONCORD RD	No	10			X								
14396	BRIAR CREEK RD & COMMONWEALTH AV	Yes	25	X										
7969	BROOKSHIRE BV & N HOSKINS RD	Yes	96								X			
8535	BROOKSHIRE BV & NELSON AV	No	44	X										
5338	BROOKSHIRE BV & PLEASANT GROVE RD	Yes	30	X										
19825	BROWN-GRIER RD & SANDY PORTER RD_W ARROWOOD RD	Yes	46	X	X									
17435	BUICK DR & CONFERENCE DR_E INDEPENDENCE BV	Yes	43								X			
13985	CAMDEN RD & EAST BV_WEST BV	Yes	37	X										
5606	CAMERON BV & JOHN KIRK DR	No	25					X						
15085	CAMPBELL DR & N SHARON AMITY RD	No	29	X										
26209	CARMEL RD & JOHNSTON RD	Yes	48	X										
21348	CARMEL RD & SHARON VIEW RD	Yes	31	X	X									
23277	CAROWINDS BV & JOHN PRICE RD_S TRYON ST	Yes	80							X				
17597	CASTLETON RD & N SHARON AMITY RD	No	11			X								
17169	CEDARS EAST CT & IDLEWILD RD	No	29	X										
13118	CENTRAL AV & E 7TH ST_N KINGS DR	Yes	77	X										
13541	CENTRAL AV & EASTCREST DR	Yes	22									X		
13763	CENTRAL AV & EASTWAY DR	Yes	151									X		
13007	CENTRAL AV & HAWTHORNE LN	Yes	38	X										
13009	CENTRAL AV & INDEPENDENCE/I-277 RA	No	46		X									
14442	CENTRAL AV & N SHARON AMITY RD	Yes	154									X		
43116	CENTRAL AV & PECAN AV	No	38							X		X		
14213	CENTRAL AV & ROSEHAVEN DR	Yes	51									X		
13588	CENTRAL AV & WEMBLEY DR	No	22									X		
13787	CHARLOTTETOWNE AV & E 4TH ST	Yes	50	X										
13343	CHARLOTTETOWNE AV & E 7TH ST_E INDEPENDENCE BV	Yes	80	X										
13912	CHARLOTTETOWNE AV & E JOHN BELK RA_KENILWORTH AV	Yes	134	X										
13683	CHARLOTTETOWNE AV & ELIZABETH AV	Yes	37									X		
50041	CHARLOTTETOWNE AV & METROPOLITAN AV	No	40	X										
15125	CHEROKEE RD & PROVIDENCE RD	Yes	65	X						X		X		
6882	CINDY LN & STATESVILLE RD	Yes	31		X									
10134	CITISIDE DR & EASTWAY DR_WELDON AV	No	28	X										
44552	CITY BVXN I85 RA NB & UNIVERSITY CITY BV	No	28	X	X				X					
15542	CLANTON RD & N I-77 TO CLANTON RD RA NB	Yes	50	X										

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				Frontal Impact	Last Year Increase	Severity	Night	Chronic	Last 3 Years Peds	Night Peds	P-4	Last 3 Years Bike	X-4	
42582	COLLEGE-TRYON ST & N TRYON ST	No	18			X								
27388	CONLAN CR & DON LOCHMAN LN JOHN J DELANEY DR	No	45	X										
26590	COUNTRY LN & PROVIDENCE RD	Yes	19			X								
20634	COVEDALE DR & MONROE RD	No	26	X		X								
23690	GRESSIDA DR & E WESTINGHOUSE BV SOUTH BV	Yes	50		X									
4061	DAVID COX RD & LAKEVIEW RD OLD STATESVILLE RD	No	46	X										
14136	DELTA CROSSING LN & E W T HARRIS BV	No	11			X								
13946	DILWORTH RD & E MOREHEAD ST	No	10			X								
14844	DILWORTH RD WEST & EAST BV	Yes	13			X								
5266	DOUG MAYES PL & J W CLAY BV	No	34	X										
23795	DOWNS RD & E WESTINGHOUSE BV	Yes	27	X		X								
3912	DRIWOOD CT & PROSPERITY CHURCH RD	No	24					X						
14965	DUNN AV & MONROE RD	Yes	14			X								
11974	E 11TH ST & E BROOKSHIRE FR RA_N BREVARD ST	Yes	31		X									
12186	E 11TH ST & E BROOKSHIRE FR RA_N DAVIDSON ST	Yes	55	X										
12073	E 11TH ST & N CALDWELL ST	Yes	37	X										
11625	E 11TH ST & N COLLEGE ST	Yes	67	X										
11677	E 11TH ST & N TRYON ST_W 11TH ST	Yes	42	X										
11693	E 12TH ST & N COLLEGE ST	Yes	25	X										
12089	E 12TH ST & N DAVIDSON ST	Yes	57						X					
11717	E 15TH ST & N DAVIDSON ST	No	6						X	X				
10030	E 28TH ST & N TRYON ST_W 28TH ST	Yes	44			X								
9356	E 36TH ST & N TRYON ST	Yes	37										X	
10772	E 36TH ST & THE PLAZA	Yes	41			X				X	X			
13430	E 3RD ST & E JOHN BELK RA	Yes	37	X										
42643	E 3RD ST & E JOHN BELK RA	Yes	41	X										
14371	E 3RD ST & PROVIDENCE RD_S CASWELL RD	Yes	43	X										
14249	E 3RD ST & QUEENS RD	Yes	38	X		X								
12863	E 3RD ST & S CALDWELL ST	Yes	50	X										
13696	E 3RD ST & S KINGS DR	Yes	51	X										
13994	E 3RD ST & S TORRENCE ST	No	33	X										
13302	E 4TH ST & E JOHN BELK RA	Yes	58	X										
42642	E 4TH ST & E JOHN BELK RA	Yes	37		X									
13881	E 4TH ST & N TORRENCE ST	No	27	X										
12775	E 4TH ST & S CALDWELL ST	Yes	70	X										
12492	E 4TH ST & S COLLEGE ST	Yes	37						X					
12868	E 4TH ST & S DAVIDSON ST	Yes	18								X			
13197	E 4TH ST & S MCDOWELL ST	Yes	56								X			
12377	E 4TH ST & S TRYON ST_W 4TH ST	Yes	42								X			
12618	E 5TH ST & N CALDWELL ST	Yes	40	X										
12305	E 5TH ST & N COLLEGE ST	Yes	35	X										
12199	E 5TH ST & N TRYON ST_W 5TH ST	Yes	18							X				
12220	E 6TH ST & N COLLEGE ST	Yes	28								X			
12896	E 6TH ST & N MCDOWELL ST	Yes	52	X								X		
12101	E 6TH ST & N TRYON ST_W 6TH ST	Yes	37						X				X	
13667	E 7TH ST & HAWTHORNE LN	Yes	92	X										
12333	E 7TH ST & N BREVARD ST	Yes	25						X					
12135	E 7TH ST & N COLLEGE ST	Yes	50	X										
12527	E 7TH ST & N DAVIDSON ST	Yes	28	X										

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12809	E 7TH ST & N MCDOWELL ST	Yes	49	X										
12038	E 8TH ST & N COLLEGE ST	No	35	X										
11956	E 9TH ST & N COLLEGE ST	Yes	35	X										
11847	E 9TH ST & N TRYON ST_W 9TH ST	Yes	24						X			X		
7770	E ARROWHEAD DR & N TRYON ST_W ARROWHEAD DR	No	43	X		X						X		
21296	E ARROWOOD RD & ENGLAND ST_OLD PINEVILLE RD	Yes	32									X		
21514	E ARROWOOD RD & NATIONS FORD RD_W ARROWOOD RD	Yes	70						X					
21312	E ARROWOOD RD & SOUTH BV_STARBROOK DR	Yes	57									X		
13420	E BLAND ST & S TRYON ST_W BLAND ST	Yes	25	X										
18436	E INDEPENDENCE BV & SHARON FOREST DR	No	49	X	X									
18478	E INDEPENDENCE BV & WALLACE RD	No	76	X	X									
13158	E JOHN BELK RA & S CALDWELL ST	Yes	64	X					X					
47907	E MALLARD CREEK CHURCH RD & JOHN KIRK DR	Yes	25	X										
4866	E MALLARD CREEK CHURCH RD & N TRYON ST_W MALLARD CREEK CHURCH RD	Yes	158				X							
12548	E MARTIN LUTHER KING JR BV & S TRYON ST_W MARTIN LUTHER KING JR BV	Yes	17									X		
13057	E MOREHEAD ST & S COLLEGE ST_S TRYON/COLLEGE CONNECTOR ST	Yes	28	X										
12991	E MOREHEAD ST & S TRYON ST_W MOREHEAD ST	Yes	61	X										
13854	E PARK AV & SOUTH BV	Yes	42						X					
12806	E STONEWALL ST & S COLLEGE ST	Yes	43	X					X			X		
13579	E STONEWALL ST & S MCDOWELL ST	Yes	40	X										
12711	E STONEWALL ST & S TRYON ST_W STONEWALL ST	Yes	45	X										
8847	E SUGAR CREEK RD & N TRYON ST_W SUGAR CREEK RD	Yes	205										X	
12695	E TRADE ST & N CALDWELL ST_S CALDWELL ST	Yes	48	X										
12396	E TRADE ST & N COLLEGE ST_S COLLEGE ST	Yes	56									X		
12285	E TRADE ST & N TRYON ST_S TRYON ST_W TRADE ST	Yes	45								X	X		
14314	E TREMONT AV & SOUTH BV	Yes	48						X					
8193	E W T HARRIS BV & GRIER RD	Yes	125				X							
52081	E W T HARRIS BV & LAWYERS RD	No	41					X						
13422	E W T HARRIS BV & TRYSTING RD	No	30		X									
6328	E W T HARRIS RA & UNIVERSITY CITY BV	Yes	39		X									
23784	E WESTINGHOUSE BV & NATIONS FORD RD_WESTINGHOUSE BV	Yes	23			X								
17555	E WOODLAWN RD & OLD PINEVILLE RD	Yes	52	X										
18337	E WOODLAWN RD & RUNNYMEDE LN_SELWYN AV	Yes	46	X										
15139	EAST BV & KENILWORTH AV	Yes	48	X					X					
14078	EAST BV & SOUTH BV	Yes	96						X					
12293	EASTWAY DR & KILBORNE DR	Yes	48									X		
11103	EASTWAY DR & MICHIGAN AV	No	30		X	X								
9768	EASTWAY DR & THE PLAZA	Yes	121									X		
14629	EASTWAY DR & WOODLAND DR	Yes	30	X										
9974	EDGEWOOD RD & QUEEN CITY DR_TUCKASEEGEE RD	Yes	22			X								
13389	ELIZABETH AV & N KINGS DR	Yes	40									X		
26038	ELM LN & PINEVILLE-MATTHEWS RD	Yes	35	X										
7190	EQUIPMENT DR & N GRAHAM ST	No	18			X								
7094	EQUIPMENT DR & W SUGAR CREEK RD	No	30	X										
23038	ERWIN RD & STEELE CREEK RD	No	31	X										
47164	FAIRVIEW RD & SOUTH PARK DR	No	62	X	X			X						
48851	FINCHER FARM RD & WEDDINGTON RD	No	10			X								
27211	FORBES DR & PROVIDENCE RD	No	15					X						

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11105	FRAZIER AV & W TRADE ST	No	14			X								
9140	FREEDOM DR & THRIFTWOOD DR	No	15			X								
21797	GALLERIA BV & MONROE RD	Yes	29	X										
21209	GALLERIA BV & SARDIS RD NORTH	Yes	27	X										
30513	GENERAL DR & S TRYON ST_YORK CENTER DR	No	44	X										
5919	GIBBON RD & NEVIN RD	Yes	32	X										
43380	GILEAD RD & I-77 TO GILEAD RD RA NB	No	31		X									
2069	GILEAD RD & N STATESVILLE RD_S STATESVILLE RD	No	35		X									
2115	GILEAD RD & REESE BV	No	15			X								
23329	GLENEAGLES RD & PARK RD_SHARON RD WEST	Yes	46		X									
18963	GROVER RD & SOUTH BV	No	67	X		X								
25691	HAMILTON RD & STEELE CREEK RD	Yes	30	X										
7613	HEATHWAY DR & N TRYON ST	No	40	X		X								
23332	HOPETON RD & SHARON RD WEST	Yes	12			X								
19605	I-485 RA & I-485 RA_W ARROWOOD RD	Yes	17			X								
49037	I-485 RA & MOUNT HOLLY RD	Yes	37	X				X						
51265	I-485 RA & OLD STATESVILLE RD	No	36	X		X		X						
42521	I-485 RA & PROVIDENCE RD	Yes	47		X									
20766	I-485 RA & S TRYON ST	Yes	95	X										
47558	I-485 RA & STEELE CREEK RD	No	38					X						
51310	I-485 RA & W W T HARRIS BV	No	36					X						
1272	I-77 TO SAM FURR RA NB & SAM FURR RD_SAM FURR TO I-77 RA NB	Yes	36		X									
17062	IDLEWILD RD & MONROE RD_RAMA RD	Yes	77						X					
17138	IDLEWILD RD & PINEY GROVE RD	Yes	17			X								
51369	IKEA BV & UNIVERSITY CITY BV	No	40					X						
51491	INSTITUTE CR & N TRYON ST	Yes	53					X	X					
5600	J M KEYNES DR & N TRYON ST_UNIVERSITY HOSPITAL DR	Yes	34						X					
22200	JOHN PRICE RD & S TRYON ST	No	26	X										
47929	KENDALL DR & MOORES CHAPEL RD	No	11			X								
13341	KILBORNE DR & SUDBURY RD	No	10			X								
4175	LAKEVIEW RD & STATESVILLE RD	No	31	X				X						
8549	LASALLE ST & NEWCASTLE ST_NEWLAND RD	No	26	X										
16141	LATROBE DR & N WENDOVER RD	Yes	32	X		X								
4698	LAWING RD & MIRANDA RD_OAKDALE RD_SUNSET RD	No	35	X		X								
19055	LUMARKA DR & MONROE RD_THERMAL RD	Yes	26	X										
14596	MAGNOLIA AV & SOUTH BV	No	11			X								
4857	MALLARD CREEK RD & MEDICAL PLAZA DR	No	20					X						
3417	MALLARD CREEK RD & POLK AND WHITE RD	No	17			X								
31278	MALLARD GLEN DR & W MALLARD CREEK CHURCH RD	No	19					X						
11064	MARSHALL DR & WILKINSON BV	No	29	X	X									
9791	MATHESON AV & N TRYON ST_W 30TH ST	Yes	57							X				
11055	MATHESON AV & THE PLAZA	Yes	65	X										
6563	MCLEAN RD & MEADOW VISTA RD_OLD CONCORD RD	Yes	31	X		X								
13448	MERRIMAN AV & WEST BV	No	17			X								
11311	MILTON RD & N SHARON AMITY RD	Yes	81	X					X	X				
11290	MILTON RD & SUNRIDGE LN	No	15			X								
15064	MONROE RD & WASHBURN AV	Yes	20			X								
9396	MORETZ AV & N GRAHAM ST_W 28TH ST	Yes	27	X										
4560	MORNINGSTAR PLACE DR & N TRYON ST	No	14			X								

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19805	MORRISON BV & ROXBOROUGH RD_SOUTH PARK DR	Yes	16			X								
23437	MOSS RD & S TRYON ST	Yes	61	X										
45563	MOUNT HOLLY RD & MT HOLLY-HUNTERSVILLE RD	Yes	31	X										
10622	MULBERRY CHURCH RD & QUEEN CITY DR	Yes	44	X										
10714	MULBERRY CHURCH RD & S I-85 EXIT 33 RA	Yes	34	X										
43509	MULBERRY POND DR & TUCKASEEGEE RD	No	11			X								
12174	N CHURCH ST & S CHURCH ST_W TRADE ST	Yes	47						X			X		
12076	N CHURCH ST & W 5TH ST	Yes	44	X										
11981	N CHURCH ST & W 6TH ST	Yes	13									X		
14431	N COLONIAL AV & RANDOLPH RD_S COLONIAL AV	No	58	X										
11876	N GRAHAM ST & S GRAHAM ST_W TRADE ST	Yes	47	X										
11783	N GRAHAM ST & W 5TH ST	Yes	18						X			X		
11707	N GRAHAM ST & W 6TH ST	Yes	42	X										
11058	N I-77 EXIT 10B RA & N I-77 EXIT 10C RA_W 5TH ST	Yes	25	X										
11237	N I-77 EXIT 10B RA & W TRADE ST	Yes	57	X										
7621	N I-85 EXIT 39 RA & STATESVILLE AV	Yes	46	X										
7280	N I-85 EXIT 41 RA & W SUGAR CREEK RD	Yes	75						X					
14583	N SHARON AMITY RD & SPANISH QUARTER CR	No	26	X										
14014	N SHARON AMITY RD & WILORA LAKE RD	No	26	X										
6957	N TRYON ST & N US 29 BY-PASS HY_SANDY AV	Yes	42		X									
11265	N TRYON ST & WADSWORTH PL	No	17						X	X	X			
43234	NATIONS FORD RD & S I-77 EXIT 4 RA	Yes	41	X										
51243	NORTHCREST SHOPPING CENTER DR & NORTHLAKE WEST DR_W W T HARRIS BV	Yes	26	X	X			X						
1259	NORTHCROSS DR & SAM FURR RD	Yes	34		X			X						
48168	NORTHLAKE MALL DR & PERIMETER PY	No	33	X										
5816	OAKDALE RD & PLEASANT GROVE RD_RADIO RD	No	6					X						
10205	OAKLAWN AV & STATESVILLE AV	Yes	10						X					
7055	OLD MT HOLLY RD & ROZZELLES FERRY RD	No	14			X								
16439	OLD PINEVILLE RD & SCALEYBARK RD_SOUTH BV	Yes	43	X										
1321	OLD STATESVILLE RD & SAM FURR RD	No	29		X									
14183	OLD STEELE CREEK RD & WEST BV	Yes	31	X										
4297	OLD SUGAR CREEK RD & W W T HARRIS BV	No	42	X										
19337	PARK RD & PARK SELWYN OFFICE DR_SELWYN AV	Yes	25	X										
11639	PARKWOOD AV & PEGRAM ST	No	34	X										
28914	PINEVILLE-MATTHEWS RD & SPRINGBANK LN	No	29	X	X									
31626	PLAZA WALK DR & THE PLAZA	No	64	X										
17742	PROVIDENCE RD & S WENDOVER RD	Yes	53		X									
17032	QUEENS RD WEST & WESTFIELD RD	No	19										X	X
7380	REAGAN DR & W SUGAR CREEK RD	Yes	155						X			X		
13531	REMOUNT RD & WEST BV	Yes	47								X	X		
13752	RENSELAER AV & SOUTH BV	No	14						X					
48198	RIVERGATE PY & S TRYON ST	Yes	81					X		X				
12265	S CHURCH ST & W 4TH ST	Yes	38	X										
12721	S CHURCH ST & W HILL ST_W JOHN BELK RA	No	43	X										
11145	S I-77 EXIT 10B RA & W TRADE ST	No	25	X										
44542	S I85XCITY BV RA SB & UNIVERSITY CITY BV	No	22					X						
12680	S MINT ST & W MOREHEAD ST	Yes	25	X										
21549	S TRYON ST & SANDY PORTER RD	Yes	95	X										

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20640	S TRYON ST & WHITEHALL COMMONS CENTER DR_YAGER CREEK DR	Yes	60									X		
1274	SAM FURR RD & STATESVILLE RD	Yes	48		X			X						
44892	SAMS LN & UNIVERSITY CITY BV	No	19					X						
11567	SHAMROCK DR & TIPPERARY PL_WILLARD FARROW DR	Yes	26		X									
19242	SHARON LN & SHARON RD	Yes	38		X	X								
25034	SHOPTON RD WEST & YORK RD_YOUNGBLOOD RD	Yes	42		X									
21286	STEELE CREEK RD & WESTINGHOUSE BV	Yes	32	X										
5889	SUTHER RD & UNIVERSITY CITY BV	Yes	37		X									
45044	W SUGAR CREEK RD & W W T HARRIS BV	Yes	114					X						
14105	W TYVOLA RD & WALTER ST	No	10			X								
16298	W TYVOLA RD & YORKMONT RD	Yes	37	X										