



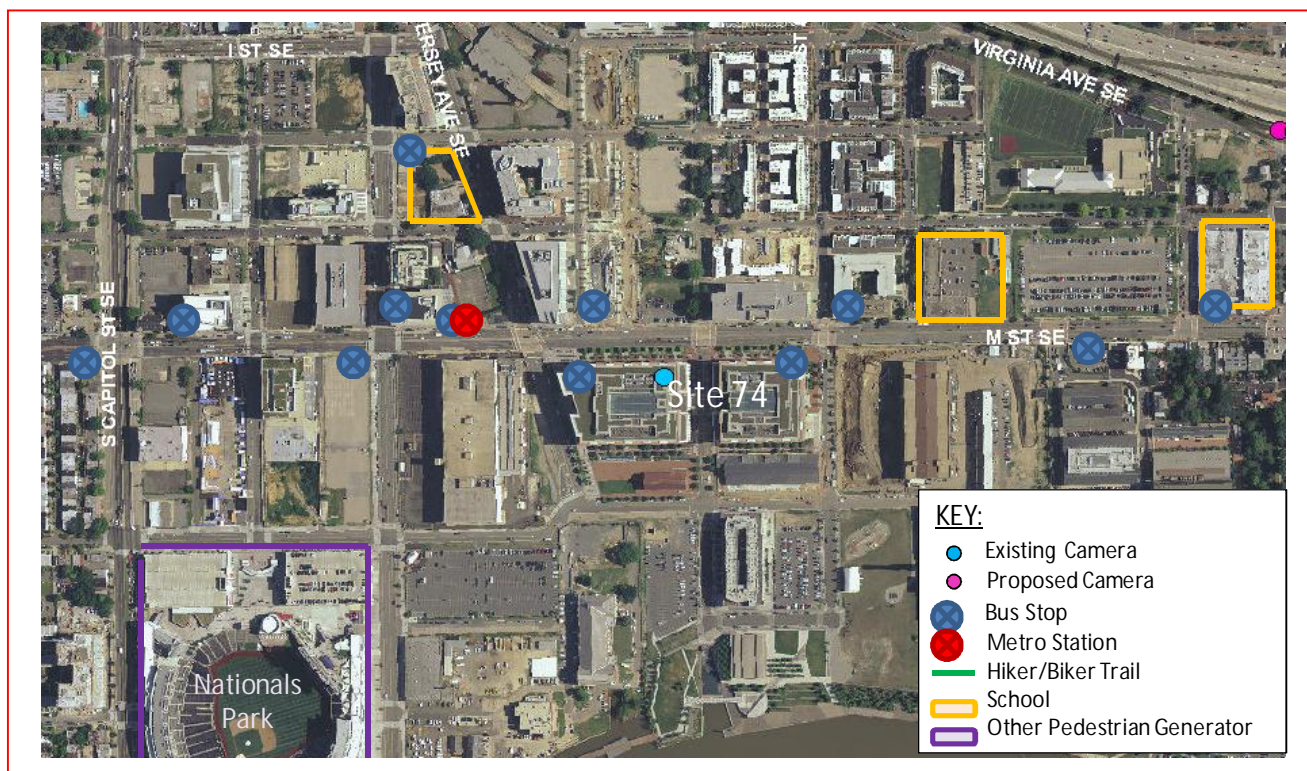
District Department of Transportation

Speed Limit and Safety Nexus Studies for Automated Enforcement Locations in the District of Columbia

200 Block M Street SE

Study Area and Location

District	PSA	Ward	ANC	Phase	Description
1	106	6	6D	Existing	200 Block M Street Southeast Eastbound



The existing speed camera is located in Ward 6 at the 200 block of M Street Southeast in the eastbound direction. M Street Southeast runs between South Capitol Street Southwest to the west and Water Street Southeast to the east. The posted speed limit is 25 MPH. This speed camera was installed on July 2001.

W6 - 49





District Department of Transportation

200 Block M Street SE

Field Assessment Summary

M Street Southeast is assumed to run in an east-west direction, and is classified as a minor arterial. M Street Southeast has one shared left turn/through lane, one through lane and one shared through/right turn lane in both directions. This site has the following characteristics:

- This is a residential area with apartments.
- There are three schools in the area: Van Ness Elementary School, Richard Wright School for Journalism and Media Arts PCS, and Eagle Academy PCS New Jersey Avenue Campus. There is also a recreational center located to the east.
- There is a grass median separating M Street Southeast traffic. There is sidewalk and on-street parking on both sides of the street.
- There is a traffic signal with pedestrian signals and crosswalks at 3rd Street.
- The pavement is in good condition and there is curb and gutter with drainage inlets.
- There is a Metrobus stop westbound at 2nd Street.



Looking Eastbound



District Department of Transportation

200 Block M Street SE



Looking Eastbound

Speed Data Analysis

Posted Speed Limit (MPH)	25
Mean Speed (MPH)	14
85th Percentile Speed (MPH)	20
10 MPH Pace Speed (MPH)	7-16
ADT	7,001

The mean speed is lower than the posted speed limit by 11 MPH and the 85th percentile speed is lower than the posted speed by 5 MPH at this location.

Crash Data Analysis

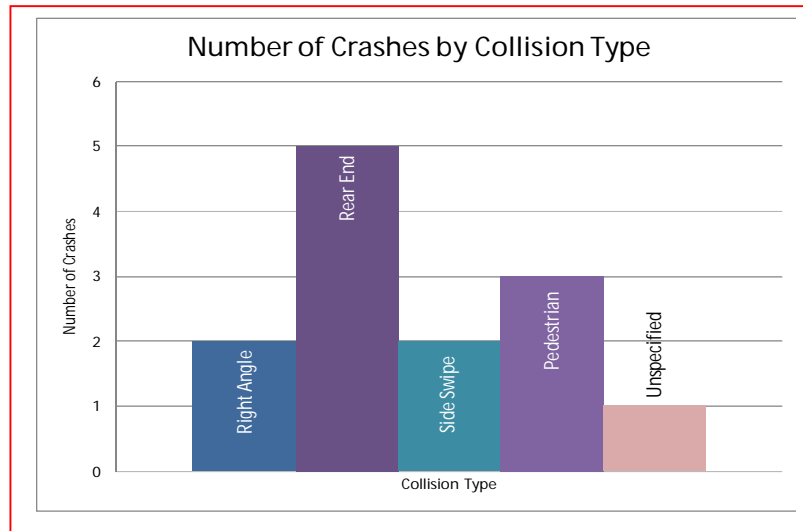
From the Accident Summary Report provided for the dates between January 1, 2010 and December 31, 2012, there were a total of 13 crashes at this location. A breakdown of number of crashes by collision type can be found in the chart on the next page. The most common type of collision at this location was Rear End (5 crashes). The other collision types had three crashes or less each. Furthermore, this location experienced a seven injury related crashes.



District Department of Transportation

200 Block M Street SE

Severity			Weather			Surface condition			Light Condition		
Total	13										
Fatal	0	0.0%	Clear	11	84.6%	Dry	11	84.6%	Day	10	76.9%
Injury	7	53.8%	Rain	1	7.7%	Wet	1	7.7%	Night	3	23.1%
Bus	4	30.8%	Fog/Mist	1	7.7%	Snow/Ice	0	0.0%			
Truck	1	7.7%									

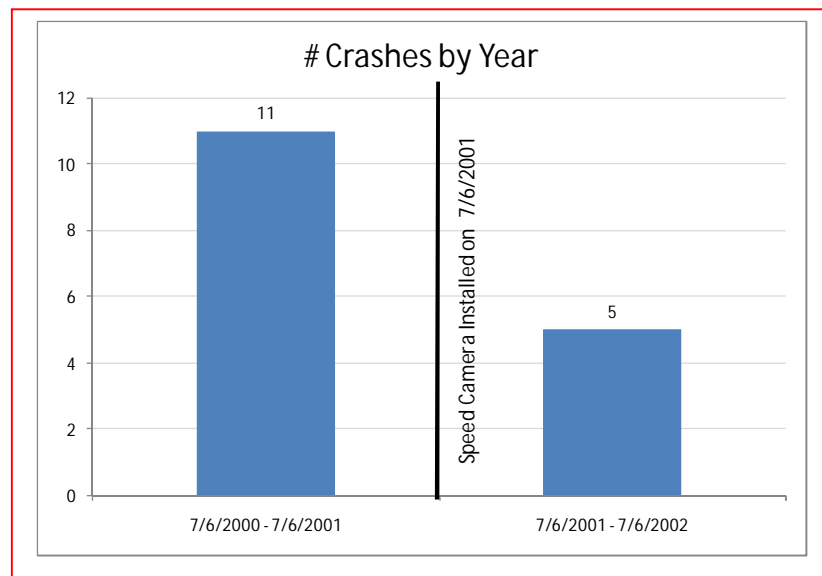


The speed camera was installed on 7-6-2001. The graph on the next page shows the number of crashes in the one year prior to the speed camera's installation (11 crashes) and the one year after the speed camera's installation (5 crashes). There was a decrease in the number of crashes after the installation of the speed camera. There were two injury-related crashes the year prior to the speed camera's installation and no injury-related crashes the year after the speed camera's installation.



District Department of Transportation

200 Block M Street SE



Safety Nexus

This site presents the following safety considerations which may establish a nexus between the speed camera and traffic safety:

1. Speed Data – The speed data analysis shows travel speeds being lower than the posted speed limit.
2. Crash Data – This location experienced seven injury-related crashes. There was a reduction in the number of crashes following the installation of the camera.
3. Field Assessment – The following site characteristics suggest a need for a safer travel environment:
 - a. This site is located in a residential area with apartments in the surrounding area.
 - b. There are three schools in the area: Van Ness Elementary School, Richard Wright School for Journalism and Media Arts PCS, and Eagle Academy PCS New Jersey Avenue Campus.
 - c. There is a recreational center located to the east which generates pedestrian and bicycle activity.
 - d. There are multiple bus stops and one Metrorail station in the area which generate pedestrian activity.
 - e. There is on-street parking on both sides of the street.

Although the speed data analysis showed the mean and 85th percentile speeds to be lower than the posted speed limit, due to the elevated number of injury-related crashes, the specific site characteristics, the proximity of schools to the site, and other pedestrian generators, there is a nexus between traffic safety and the speed camera at this location.

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

200 block of M St SE EB Speed

EB

Start Time	1 15	16 20	21 25	26 30	31 35	36 40	41 45	46 50	51 55	56 60	61 65	66 70	71 75	76 999	Total
11/18/13	12	34	11	2	1	0	0	0	0	0	0	0	0	0	60
01:00	3	11	6	0	0	0	0	0	0	0	0	0	0	0	20
02:00	4	5	4	6	0	0	0	0	0	0	0	0	0	0	19
03:00	3	7	6	0	0	0	0	0	0	0	0	0	0	0	16
04:00	8	20	8	1	0	0	0	0	0	0	0	0	0	0	37
05:00	47	73	73	5	3	0	0	0	0	0	0	0	0	0	201
06:00	84	175	155	16	0	0	0	0	0	0	0	0	0	0	430
07:00	111	185	132	14	0	0	0	0	0	0	0	0	0	0	442
08:00	114	175	85	9	1	0	0	0	0	0	0	0	0	0	384
09:00	89	160	63	4	0	0	0	0	0	0	0	0	0	0	316
10:00	100	127	34	6	0	0	0	0	0	0	0	0	0	0	267
11:00	90	146	48	2	0	0	0	0	0	0	0	0	0	0	286
12 PM	115	132	55	2	0	0	0	0	0	0	0	0	0	0	304
13:00	103	145	35	10	0	0	0	0	0	0	0	0	0	0	293
14:00	112	160	52	4	0	0	0	0	0	0	0	0	0	0	328
15:00	123	175	83	6	0	0	0	0	0	0	0	0	0	0	387
16:00	159	239	66	3	1	0	0	0	0	0	0	0	0	0	468
17:00	73	123	52	55	77	30	4	0	0	0	0	0	0	0	414
18:00	26	6	23	141	215	67	9	1	0	0	0	0	0	0	488
19:00	150	43	2	2	12	5	1	0	0	0	0	0	0	0	215
20:00	354	9	0	0	0	0	0	0	0	0	0	0	0	0	363
21:00	426	9	0	0	0	0	0	0	0	0	0	0	0	0	435
22:00	449	2	0	0	0	0	0	0	0	0	0	0	0	0	451
23:00	375	2	0	0	0	0	0	0	0	0	0	0	0	0	377
Total	3130	2163	993	288	310	102	14	1	0	0	0	0	0	0	7001
Grand Total	3130	2163	993	288	310	102	14	1	0	0	0	0	0	0	7001

15th Percentile : 5 MPH
 50th Percentile : 12 MPH
 85th Percentile : 20 MPH
 95th Percentile : 28 MPH

Stats
 Mean Speed(Average) : 14 MPH
 10 MPH Pace Speed : 7-16 MPH
 Number in Pace : 3628
 Percent in Pace : 51.8%
 Number of Vehicles > 25 MPH : 529
 Percent of Vehicles > 25 MPH : 7.6%

SAMMAT ENGINEERING SERVICES, LLC

1515 RISING RIDGE ROAD
MOUNT AIRY, MD 21771

www.sammateng.com

200 block of M St SE EB Volume

Start Time	Mon 18-Nov-13		Tue 19-Nov-13		Wed 20-Nov-13		Daily Average	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	19	76	*	*	*	*	19	76
12:15	13	83	*	*	*	*	13	83
12:30	11	70	*	*	*	*	11	70
12:45	17	75	*	*	*	*	17	75
01:00	3	63	*	*	*	*	3	63
01:15	7	71	*	*	*	*	7	71
01:30	6	84	*	*	*	*	6	84
01:45	4	75	*	*	*	*	4	75
02:00	7	76	*	*	*	*	7	76
02:15	3	76	*	*	*	*	3	76
02:30	2	91	*	*	*	*	2	91
02:45	7	85	*	*	*	*	7	85
03:00	3	104	*	*	*	*	3	104
03:15	5	83	*	*	*	*	5	83
03:30	5	105	*	*	*	*	5	105
03:45	3	95	*	*	*	*	3	95
04:00	3	118	*	*	*	*	3	118
04:15	7	128	*	*	*	*	7	128
04:30	10	114	*	*	*	*	10	114
04:45	17	108	*	*	*	*	17	108
05:00	27	104	*	*	*	*	27	104
05:15	47	109	*	*	*	*	47	109
05:30	56	120	*	*	*	*	56	120
05:45	71	81	*	*	*	*	71	81
06:00	86	109	*	*	*	*	86	109
06:15	103	114	*	*	*	*	103	114
06:30	116	118	*	*	*	*	116	118
06:45	125	147	*	*	*	*	125	147
07:00	128	50	*	*	*	*	128	50
07:15	110	49	*	*	*	*	110	49
07:30	102	40	*	*	*	*	102	40
07:45	102	76	*	*	*	*	102	76
08:00	119	69	*	*	*	*	119	69
08:15	93	72	*	*	*	*	93	72
08:30	95	112	*	*	*	*	95	112
08:45	77	110	*	*	*	*	77	110
09:00	76	108	*	*	*	*	76	108
09:15	84	101	*	*	*	*	84	101
09:30	79	106	*	*	*	*	79	106
09:45	77	120	*	*	*	*	77	120
10:00	65	106	*	*	*	*	65	106
10:15	73	105	*	*	*	*	73	105
10:30	71	146	*	*	*	*	71	146
10:45	58	94	*	*	*	*	58	94
11:00	54	109	*	*	*	*	54	109
11:15	83	79	*	*	*	*	83	79
11:30	73	94	*	*	*	*	73	94
11:45	76	95	*	*	*	*	76	95
Total	2478	4523	0	0	0	0	2478	4523
Combined Total	7001		0		0		7001	
Peak	06:30	06:00					06:30	06:00
Vol.	479	488					479	488
P.H.F.	0.936	0.830					0.936	0.830
ADT	ADT 7,001		AADT 7,001					

Accident Summary Report (R-8)

Corridor: M ST,SE,SW From SECOND ST,SE TO FOURTH ST,SE

Time Period Covered: From 01/01/2010 To 12/31/2012

Prepared By: Rahul Jain

Prepared Date: 11/24/2012

Total Number of Accident:	13	Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Fatalities:	0	Right Angle:	2	15.4%	Fixed Object:	0	0.0%
Total Number of Injuries:	10	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Disabling Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	3	23.1%
Total Number of NonDisabling Injuries:	0	Rear End:	5	38.5%	Backing:	0	0.0%
Total Number of Pedestrians Involved:	1	Side Swiped:	2	15.4%	Non Collision:	0	0.0%
Total Number of Bicycles Involved:	1	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Motorcycles Involved:	0	Parked:	0	0.0%	Unspecified:	1	7.7%
Time of Day				#ACC	%	Day of week	
07:30 ~ 09:30:				3	23.1%	Sunday:	
09:30 ~ 11:30:				2	15.4%	Monday:	
11:30 ~ 13:30:				1	7.7%	Tuesday:	
13:30 ~ 16:00:				2	15.4%	Wednesday:	
16:00 ~ 18:30:				4	30.8%	Thursday:	
18:30 ~ 07:30:				1	7.7%	Friday:	
Unspecified:				0	0.0%	Saturday:	
Weather Condition				#ACC	%	Surface Condition	
Clear:				11	84.6%	Dry:	
Rain:				1	7.7%	Wet:	
Snow:				0	0.0%	Snow/Ice:	
Sleet/Hail:				0	0.0%	Slush:	
Fog/Mist:				1	7.7%	Water/Sand:	
Crosswind/Blowing Sand:				0	0.0%	Repairing:	
Unspecified:				0	0.0%	Unspecified:	
Type of Vehicle				#VEH	%	Accident Severity Type	
Passenger Car:				18	75.0%	Fatal Collision:	
Bus:				4	16.7%	Injury Collision:	
Truck:				1	4.2%	PDO Collision:	
Taxi:				0	0.0%	Light Condition	
Minivan:				0	0.0%	Daylight:	
Police/Emergency Vehicle:				0	0.0%	Dawn/Dusk:	
Motorcycle/Moped:				0	0.0%	Dark(Lighted):	
Bicycle:				1	4.2%	Dark(Not Lighted):	
Fixed Object:				0	0.0%	Dark(Unknown Lighting):	
Unspecified:				0	0.0%	Unspecified:	
Contributing Factor				#VEH	%	Pedestrian Actions	
Driver: Speed:				0	0.0%	In Crosswalk with Signal:	
Driver: Alcohol/Drug:				0	0.0%	In Crosswalk against Signal:	
Driver: Electronic Device:				0	0.0%	In Crosswalk no Signal:	
Driver: Others:				8	33.3%	In Unmarked Crosswalk:	
Vehicle:				1	4.2%	Not in Crosswalk:	
Roadway:				0	0.0%	From Between Parked Cars:	
Unspecified:				15	62.5%	Unspecified:	

8 Records are not approved as of 11/24/2013 5:43:09 PM

Accident Summary Report (R-8)

Corridor: M ST,SE,SW From SECOND ST,SE TO FOURTH ST,SE

Time Period Covered: From 07/05/2000 To 07/05/2001

Prepared By: Rahul Jain

Prepared Date: 1/14/2014

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	11	Right Angle:	2	18.2%	Fixed Object:	1	9.1%
Total Number of Fatalities:	0	Left Turn:	0	0.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	2	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	4	36.4%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	2	18.2%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	0	0.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	2	18.2%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%
07:30 ~ 09:30:	0	0.0%
09:30 ~ 11:30:	1	9.1%
11:30 ~ 13:30:	0	0.0%
13:30 ~ 16:00:	2	18.2%
16:00 ~18:30:	0	0.0%
18:30 ~ 07:30:	8	72.7%
Unspecified:	0	0.0%

Day o fweek	#ACC	%
Sunday:	1	9.1%
Monday:	1	9.1%
Tuesday:	1	9.1%
Wednesday:	1	9.1%
Thursday:	1	9.1%
Friday:	2	18.2%
Saturday:	4	36.4%

Weather Condition	#ACC	%
Clear:	10	90.9%
Rain:	1	9.1%
Snow:	0	0.0%
Sleet/Hail:	0	0.0%
Fog/Mist:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%
Unspecified:	0	0.0%

Surface Condition	#ACC	%
Dry:	9	81.8%
Wet:	2	18.2%
Snow/Ice:	0	0.0%
Slush:	0	0.0%
Water/Sand:	0	0.0%
Repairing:	0	0.0%
Unspecified:	0	0.0%

Type of Vehicle	#VEH	%
Passenger Car:	16	72.7%
Bus:	1	4.5%
Truck:	2	9.1%
Taxi:	2	9.1%
Minivan:	0	0.0%
Police/Emergency Vehicle:	0	0.0%
Motorcycle/Moped:	0	0.0%
Bicycle:	0	0.0%
Fixed Object:	0	0.0%
Unspecified:	1	4.5%

Accident Severity Type	#ACC	%
Fatal Collision:	0	0.0%
Injury Collision:	2	18.2%
PDO Collision:	9	81.8%

Light Condition	#ACC	%
Daylight:	5	45.5%
Dawn/Dusk:	0	0.0%
Dark(Lighted):	0	0.0%
Dark(Not Lighted):	0	0.0%
Dark(Unknown Lighting):	6	54.5%
Unspecified:	0	0.0%

Contributing Factor	#VEH	%
Driver: Speed:	1	4.5%
Driver: Alcohol/Drug:	1	4.5%
Driver: Electronic Device:	0	0.0%
Driver: Others:	5	22.7%
Vehicle:	0	0.0%
Roadway:	1	4.5%
Unspecified:	14	63.6%

Pedestrian Actions	#ACC	%
In Crosswalk with Signal:	0	0.0%
In Crosswalk against Signal:	0	0.0%
In Crosswalk no Signal:	0	0.0%
In Unmarked Crosswalk:	0	0.0%
Not in Crosswalk:	0	0.0%
From Between Parked Cars:	0	0.0%
Unspecified:	0	0.0%

11 Records are not approved as of 1/14/2014 10:37:22 AM

Accident Summary Report (R-8)

Corridor: M ST,SE,SW From SECOND ST,SE TO FOURTH ST,SE

Time Period Covered: From 07/06/2001 To 07/06/2002

Prepared By: Rahul Jain

Prepared Date: 1/14/2014

		Collision Type	#ACC	%	Collision Type	#ACC	%
Total Number of Accident:	5	Right Angle:	0	0.0%	Fixed Object:	0	0.0%
Total Number of Fatalities:	0	Left Turn:	1	20.0%	Ran Off Road:	0	0.0%
Total Number of Injuries:	0	Right Turn:	0	0.0%	Ped. Involved:	0	0.0%
Total Number of Disabling Injuries:	0	Rear End:	1	20.0%	Backing:	0	0.0%
Total Number of NonDisabling Injuries:	0	Side Swiped:	1	20.0%	Non Collision:	0	0.0%
Total Number of Pedestrians Involved:	0	Head On:	1	20.0%	Under/Over Ride:	0	0.0%
Total Number of Bicycles Involved:	0	Parked:	1	20.0%	Unspecified:	0	0.0%
Total Number of Motorcycles Involved:	0						

Time of Day	#ACC	%
07:30 ~ 09:30:	0	0.0%
09:30 ~ 11:30:	0	0.0%
11:30 ~ 13:30:	0	0.0%
13:30 ~ 16:00:	2	40.0%
16:00 ~18:30:	3	60.0%
18:30 ~ 07:30:	0	0.0%
Unspecified:	0	0.0%

Day o fweek	#ACC	%
Sunday:	1	20.0%
Monday:	0	0.0%
Tuesday:	0	0.0%
Wednesday:	1	20.0%
Thursday:	0	0.0%
Friday:	3	60.0%
Saturday:	0	0.0%

Weather Condition	#ACC	%
Clear:	5	100.0%
Rain:	0	0.0%
Snow:	0	0.0%
Sleet/Hail:	0	0.0%
Fog/Mist:	0	0.0%
Crosswind/Blowing Sand:	0	0.0%
Unspecified:	0	0.0%

Surface Condition	#ACC	%
Dry:	5	100.0%
Wet:	0	0.0%
Snow/Ice:	0	0.0%
Slush:	0	0.0%
Water/Sand:	0	0.0%
Repairing:	0	0.0%
Unspecified:	0	0.0%

Type of Vehicle	#VEH	%
Passenger Car:	9	90.0%
Bus:	0	0.0%
Truck:	1	10.0%
Taxi:	0	0.0%
Minivan:	0	0.0%
Police/Emergency Vehicle:	0	0.0%
Motorcycle/Moped:	0	0.0%
Bicycle:	0	0.0%
Fixed Object:	0	0.0%
Unspecified:	0	0.0%

Accident Severity Type	#ACC	%
Fatal Collision:	0	0.0%
Injury Collision:	0	0.0%
PDO Collision:	5	100.0%

Light Condition	#ACC	%
Daylight:	4	80.0%
Dawn/Dusk:	0	0.0%
Dark(Lighted):	0	0.0%
Dark(Not Lighted):	0	0.0%
Dark(Unknown Lighting):	1	20.0%
Unspecified:	0	0.0%

Contributing Factor	#VEH	%
Driver: Speed:	0	0.0%
Driver: Alcohol/Drug:	0	0.0%
Driver: Electronic Device:	0	0.0%
Driver: Others:	2	20.0%
Vehicle:	0	0.0%
Roadway:	1	10.0%
Unspecified:	7	70.0%

Pedestrian Actions	#ACC	%
In Crosswalk with Signal:	0	0.0%
In Crosswalk against Signal:	0	0.0%
In Crosswalk no Signal:	0	0.0%
In Unmarked Crosswalk:	0	0.0%
Not in Crosswalk:	0	0.0%
From Between Parked Cars:	0	0.0%
Unspecified:	0	0.0%

5 Records are not approved as of 1/14/2014 10:41:07 AM