



# CITY of NOVI CITY COUNCIL

**Agenda Item N**  
**August 23, 2010**

**SUBJECT:** Approval of 1) Traffic Control Order 10-44 for the implementation of a 25 mph speed limit on Crowe Drive, 2) Traffic Control Order 10-45 for the implementation of a 25 mph speed limit on Ingersol Drive (between Crowe Drive and Crescent Blvd), 3) Traffic Control Order 10-46 for the implementation of a 30 mph speed limit on Crescent Blvd, and 4) Traffic Control Order 10-47 for the implementation of a 30 mph speed limit on Town Center Drive, all located within Novi Town Center.

**SUBMITTING DEPARTMENT:** Department of Public Services, Engineering Division *BK*

**CITY MANAGER APPROVAL:** *[Signature]*

**BACKGROUND INFORMATION:**

A recent audit of the City's traffic control sign inventory identified a number of posted speed limits that lack traffic control orders for enforcement of the speed. The Uniform Traffic Code requires that traffic control orders, as issued by the traffic engineer and approved by the City Council, be on file for the enforcement of traffic control signs. As such, an engineering study was performed to establish a legal speed limit as required by the Michigan Manual of Uniform Traffic Control Devices (MMUTCD) (see Birchler Arroyo study dated June 10, 2010). Speed limits are generally set using the 85th percentile speed, which is the speed at or below which 85 percent of the motorists drive on a given road when unaffected by slower traffic or poor weather.

The posted speed limit is currently 25 mph for all public streets within Novi Town Center. The proposed speed limit of 25 mph on both Crowe Drive and the public portion of Ingersol Drive, and the proposed 30 mph limit on Crescent Blvd and Town Center Drive represents existing driver behavior on these segments as demonstrated by the measured 85<sup>th</sup> percentile speeds in the table below:

Road Segment		Current Posted Speed Limit	85 <sup>th</sup> Percentile Speed	Proposed Speed Limit
Crowe Drive	Novi Road to Ingersol Drive	25	24	25 (no change)
Ingersol Drive	Crescent Blvd to Crowe Drive	25	27	25 (no change)
Crescent Blvd	Novi Road to Town Center Drive	25	33	30
Town Center Drive	Crescent Blvd to 11 Mile Road	25	33	30
	Grand River Ave to 11 Mile Road	25	29	30

As discussed in the attached August 10, 2010 memo regarding the proposed speed limit changes, an increase in the posted speed to match the 85<sup>th</sup> percentile speed does not significantly increase the 85<sup>th</sup> percentile speed when the posted speed limit is increased. In reviewing the segments on which the speed limits were increased in 2009, the 85<sup>th</sup> percentile speed increased an average of 0.8 mph. In accordance with Department of Public Service's standard procedures, within one year after implementation of new speed limits, staff will collect speed samples to verify that the new posted speed limit continues to reflect the 85<sup>th</sup> percentile speed.

The new speed limit signs would meet the federal retroreflectivity requirements and would be funded by the Traffic Control Sign Replacement Program as approved in the FY2010-11 budget.

**RECOMMENDED ACTION:** Approval of 1) Traffic Control Order 10-44 for the implementation of a 25 mph speed limit on Crowe Drive, 2) Traffic Control Order 10-45 for the implementation of a 25 mph speed limit on Ingersol Drive (between Crowe Drive and Crescent Blvd), 3) Traffic Control Order 10-46 for the implementation of a 30 mph speed limit on Crescent Blvd, and 4) Traffic Control Order 10-47 for the implementation of a 30 mph speed limit on Town Center Drive, all located within Novi Town Center.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Crawford				
Council Member Fischer				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

**CITY OF NOVI  
TRAFFIC CONTROL ORDER**

  X   SPEED  
      PARKING  
      OTHER

DATE OF ORDER: August 16, 2010  
CONTROL NUMBER: 10-44

PURSUANT TO CHAPTER NO. 33 OF THE CODE OF ORDINANCES OF THE CITY OF NOVI, MICHIGAN, SAME BEING THE UNIFORM TRAFFIC CODE FOR CITIES, TOWNSHIPS AND VILLAGES OF MICHIGAN AND IN THE INTEREST OF PUBLIC SAFETY AND CONVENIENCE THE FOLLOWING TRAFFIC CONTROL ORDER IS HEREBY ISSUED BY BRIAN COBURN, SENIOR CIVIL ENGINEER, DULY AUTHORIZED AS TRAFFIC ENGINEER, BY SEC. 33.141 OF THE AFORESAID CHAPTER.

ISSUANCE OF THIS TRAFFIC CONTROL ORDER WAS PRECEDED BY STUDY AND INVESTIGATION OF TRAFFIC CONDITIONS ON THE FOLLOWING PUBLIC ROAD OR ROADS IN THE CITY OF NOVI, MICHIGAN.

**CROWE DRIVE**

AND AFTER SAID INVESTIGATION, IT IS HEREBY ORDERED AND DIRECTED THAT THE DEPARTMENT OF PUBLIC SERVICES ERECT AND MAINTAIN THE SPEED LIMIT SIGN (S) IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS REQUIRED BY SEC. 33.217 OF THE AFORESAID CHAPTER, SAID SIGNS TO GIVE NOTICE OF THE FOLLOWING DETERMINATION:

**SPEED LIMIT FOR CROWE DRIVE TO BE 25 MPH**

  
\_\_\_\_\_  
Brian Coburn, P.E. - Traffic Engineer

Dated: August 16, 2010

**APPROVED BY CITY COUNCIL**

TRAFFIC CONTROL ORDER NUMBER 10-44 HAVING BEEN PRESENTED TO THE COUNCIL OF THE CITY OF NOVI, MICHIGAN FOR STUDY AND APPROVAL, IS HEREBY APPROVED AND IT IS HEREBY ORDERED AND DIRECTED THAT THIS ORDER BE FILED IN THE OFFICE OF THE CITY CLERK AND A COPY THEREOF IN THE OFFICE OF THE CHIEF OF POLICE OF SAID CITY.

IT IS FURTHER ORDERED AND DIRECTED THAT THIS ORDER SHALL BECOME EFFECTIVE UPON BEING FILED WITH THE CLERK AND UPON ERECTION OF ADEQUATE SIGNS GIVING NOTICE OF THE EXISTENCE OF AFORESAID,

**SPEED LIMIT FOR CROWE DRIVE TO BE 25 MPH**

ADOPTED AT THE REGULAR MEETING OF  
CITY COUNCIL ON August 23, 2010.

By: \_\_\_\_\_  
David Landry, Mayor

By: \_\_\_\_\_  
Maryanne Cornelius, Clerk

**CITY OF NOVI  
TRAFFIC CONTROL ORDER**

  X   SPEED  
       PARKING  
       OTHER

DATE OF ORDER: August 16, 2010

CONTROL NUMBER: 10-45

PURSUANT TO CHAPTER NO. 33 OF THE CODE OF ORDINANCES OF THE CITY OF NOVI, MICHIGAN, SAME BEING THE UNIFORM TRAFFIC CODE FOR CITIES, TOWNSHIPS AND VILLAGES OF MICHIGAN AND IN THE INTEREST OF PUBLIC SAFETY AND CONVENIENCE THE FOLLOWING TRAFFIC CONTROL ORDER IS HEREBY ISSUED BY BRIAN COBURN, SENIOR CIVIL ENGINEER, DULY AUTHORIZED AS TRAFFIC ENGINEER, BY SEC. 33.141 OF THE AFORESAID CHAPTER.

ISSUANCE OF THIS TRAFFIC CONTROL ORDER WAS PRECEDED BY STUDY AND INVESTIGATION OF TRAFFIC CONDITIONS ON THE FOLLOWING PUBLIC ROAD OR ROADS IN THE CITY OF NOVI, MICHIGAN.

**INGERSOL DRIVE**

AND AFTER SAID INVESTIGATION, IT IS HEREBY ORDERED AND DIRECTED THAT THE DEPARTMENT OF PUBLIC SERVICES ERECT AND MAINTAIN THE SPEED LIMIT SIGN (S) IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS REQUIRED BY SEC. 33.217 OF THE AFORESAID CHAPTER, SAID SIGNS TO GIVE NOTICE OF THE FOLLOWING DETERMINATION:

**SPEED LIMIT FOR INGERSOL DRIVE FROM CROWE DRIVE TO CRESCENT BLVD TO BE 25 MPH**



\_\_\_\_\_  
Brian Coburn, P.E. - Traffic Engineer

Dated: August 16, 2010

**APPROVED BY CITY COUNCIL**

TRAFFIC CONTROL ORDER NUMBER 10-45 HAVING BEEN PRESENTED TO THE COUNCIL OF THE CITY OF NOVI, MICHIGAN FOR STUDY AND APPROVAL, IS HEREBY APPROVED AND IT IS HEREBY ORDERED AND DIRECTED THAT THIS ORDER BE FILED IN THE OFFICE OF THE CITY CLERK AND A COPY THEREOF IN THE OFFICE OF THE CHIEF OF POLICE OF SAID CITY.

IT IS FURTHER ORDERED AND DIRECTED THAT THIS ORDER SHALL BECOME EFFECTIVE UPON BEING FILED WITH THE CLERK AND UPON ERECTION OF ADEQUATE SIGNS GIVING NOTICE OF THE EXISTENCE OF AFORESAID,

**SPEED LIMIT FOR INGERSOL DRIVE FROM CROWE DRIVE TO CRESCENT BLVD TO BE 25 MPH**

ADOPTED AT THE REGULAR MEETING OF  
CITY COUNCIL ON August 23, 2010.

By: \_\_\_\_\_  
David Landry, Mayor

By: \_\_\_\_\_  
Maryanne Cornelius, Clerk



**CITY OF NOVI  
TRAFFIC CONTROL ORDER**

  X   SPEED  
       PARKING  
       OTHER

DATE OF ORDER: August 16, 2010

CONTROL NUMBER: 10-46

PURSUANT TO CHAPTER NO. 33 OF THE CODE OF ORDINANCES OF THE CITY OF NOVI, MICHIGAN, SAME BEING THE UNIFORM TRAFFIC CODE FOR CITIES, TOWNSHIPS AND VILLAGES OF MICHIGAN AND IN THE INTEREST OF PUBLIC SAFETY AND CONVENIENCE THE FOLLOWING TRAFFIC CONTROL ORDER IS HEREBY ISSUED BY BRIAN COBURN, SENIOR CIVIL ENGINEER, DULY AUTHORIZED AS TRAFFIC ENGINEER, BY SEC. 33.141 OF THE AFORESAID CHAPTER.

ISSUANCE OF THIS TRAFFIC CONTROL ORDER WAS PRECEDED BY STUDY AND INVESTIGATION OF TRAFFIC CONDITIONS ON THE FOLLOWING PUBLIC ROAD OR ROADS IN THE CITY OF NOVI, MICHIGAN.

**CRESCENT BLVD**

AND AFTER SAID INVESTIGATION, IT IS HEREBY ORDERED AND DIRECTED THAT THE DEPARTMENT OF PUBLIC SERVICES ERECT AND MAINTAIN THE SPEED LIMIT SIGN (S) IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS REQUIRED BY SEC. 33.217 OF THE AFORESAID CHAPTER, SAID SIGNS TO GIVE NOTICE OF THE FOLLOWING DETERMINATION:

**SPEED LIMIT FOR CRESCENT BLVD TO BE 30 MPH**



\_\_\_\_\_  
Brian Coburn, P.E. - Traffic Engineer

Dated: August 16, 2010

**APPROVED BY CITY COUNCIL**

TRAFFIC CONTROL ORDER NUMBER 10-46 HAVING BEEN PRESENTED TO THE COUNCIL OF THE CITY OF NOVI, MICHIGAN FOR STUDY AND APPROVAL, IS HEREBY APPROVED AND IT IS HEREBY ORDERED AND DIRECTED THAT THIS ORDER BE FILED IN THE OFFICE OF THE CITY CLERK AND A COPY THEREOF IN THE OFFICE OF THE CHIEF OF POLICE OF SAID CITY.

IT IS FURTHER ORDERED AND DIRECTED THAT THIS ORDER SHALL BECOME EFFECTIVE UPON BEING FILED WITH THE CLERK AND UPON ERECTION OF ADEQUATE SIGNS GIVING NOTICE OF THE EXISTENCE OF AFORESAID,

**SPEED LIMIT FOR CRESCENT BLVD TO BE 30 MPH**

ADOPTED AT THE REGULAR MEETING OF  
CITY COUNCIL ON August 23, 2010.

By: \_\_\_\_\_  
David Landry, Mayor

By: \_\_\_\_\_  
Maryanne Cornelius, Clerk

**CITY OF NOVI  
TRAFFIC CONTROL ORDER**

  X   SPEED  
       PARKING  
       OTHER

DATE OF ORDER:   August 16, 2010    
CONTROL NUMBER:   10-47  

PURSUANT TO CHAPTER NO. 33 OF THE CODE OF ORDINANCES OF THE CITY OF NOVI, MICHIGAN, SAME BEING THE UNIFORM TRAFFIC CODE FOR CITIES, TOWNSHIPS AND VILLAGES OF MICHIGAN AND IN THE INTEREST OF PUBLIC SAFETY AND CONVENIENCE THE FOLLOWING TRAFFIC CONTROL ORDER IS HEREBY ISSUED BY BRIAN COBURN, SENIOR CIVIL ENGINEER, DULY AUTHORIZED AS TRAFFIC ENGINEER, BY SEC. 33.141 OF THE AFORESAID CHAPTER.

ISSUANCE OF THIS TRAFFIC CONTROL ORDER WAS PRECEDED BY STUDY AND INVESTIGATION OF TRAFFIC CONDITIONS ON THE FOLLOWING PUBLIC ROAD OR ROADS IN THE CITY OF NOVI, MICHIGAN.

**TOWN CENTER DRIVE**

AND AFTER SAID INVESTIGATION, IT IS HEREBY ORDERED AND DIRECTED THAT THE DEPARTMENT OF PUBLIC SERVICES ERECT AND MAINTAIN THE SPEED LIMIT SIGN (S) IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AS REQUIRED BY SEC. 33.217 OF THE AFORESAID CHAPTER, SAID SIGNS TO GIVE NOTICE OF THE FOLLOWING DETERMINATION:

**SPEED LIMIT FOR TOWN CENTER DRIVE TO BE 30 MPH**

  
\_\_\_\_\_  
Brian Coburn, P.E. - Traffic Engineer

Dated:   August 16, 2010  

**APPROVED BY CITY COUNCIL**

TRAFFIC CONTROL ORDER NUMBER 10-47 HAVING BEEN PRESENTED TO THE COUNCIL OF THE CITY OF NOVI, MICHIGAN FOR STUDY AND APPROVAL, IS HEREBY APPROVED AND IT IS HEREBY ORDERED AND DIRECTED THAT THIS ORDER BE FILED IN THE OFFICE OF THE CITY CLERK AND A COPY THEREOF IN THE OFFICE OF THE CHIEF OF POLICE OF SAID CITY.

IT IS FURTHER ORDERED AND DIRECTED THAT THIS ORDER SHALL BECOME EFFECTIVE UPON BEING FILED WITH THE CLERK AND UPON ERECTION OF ADEQUATE SIGNS GIVING NOTICE OF THE EXISTENCE OF AFORESAID.

**SPEED LIMIT FOR TOWN CENTER DRIVE TO BE 30 MPH**

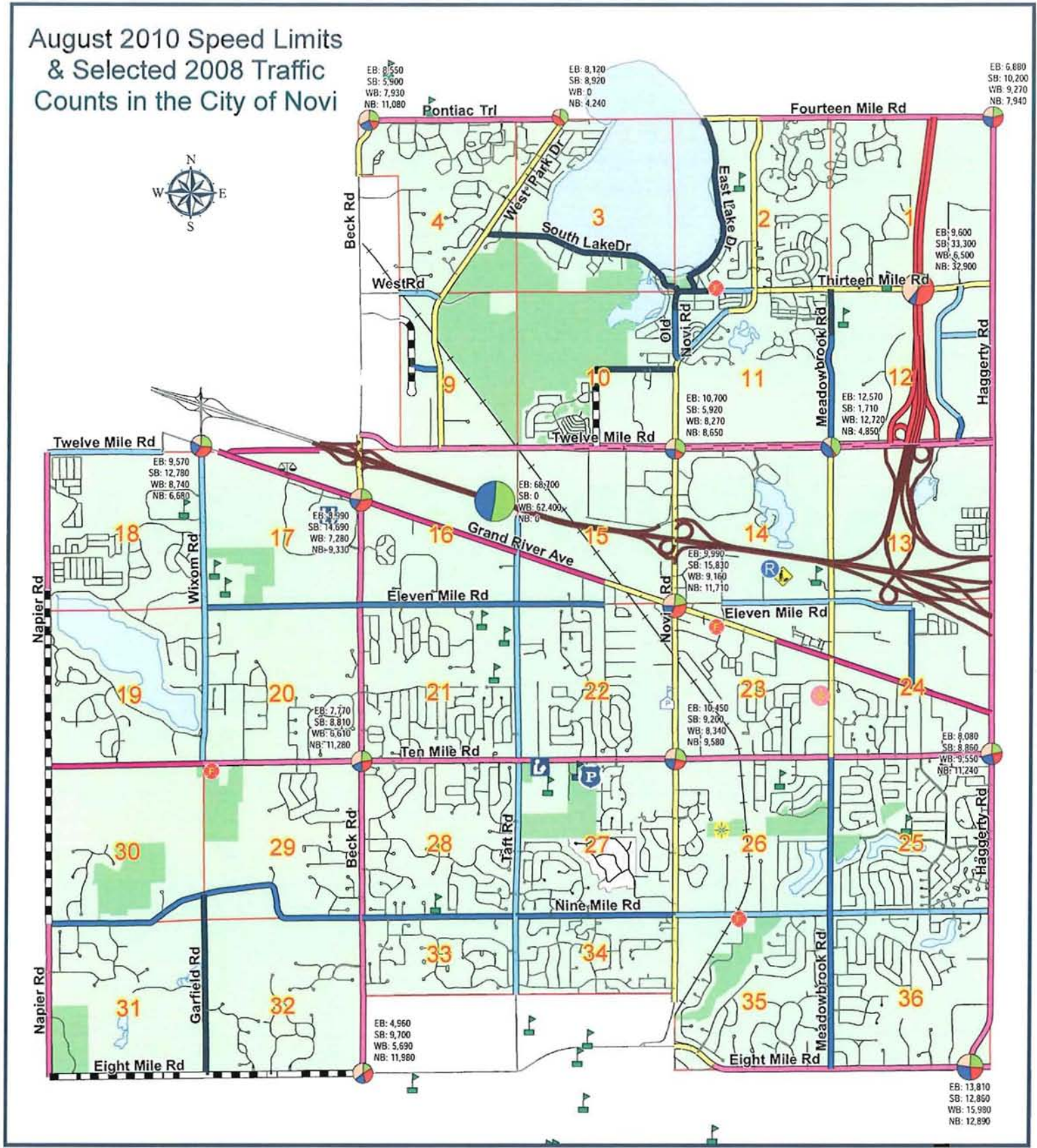
ADOPTED AT THE REGULAR MEETING OF  
CITY COUNCIL ON   August 23, 2010  .

By: \_\_\_\_\_  
David Landry, Mayor

By: \_\_\_\_\_  
Maryanne Cornelius, Clerk



# August 2010 Speed Limits & Selected 2008 Traffic Counts in the City of Novi



Map Author: Christopher Blough, GIS Manager  
 Date: August 16, 2010  
 Project: Speed Limits and Selected 2008 Traffic Counts  
 Version #: 1.0



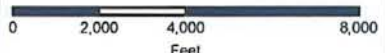
**MAP INTERPRETATION NOTICE**  
 Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

### Map Legend

<b>Traffic Counts</b>  Traffic Volume is Proportionate to Size of Pie = 270,000 ADT		<b>Posted Speed Limits</b> Expressway/Ramp: 35 Unposted (55 MPH): 30 55 50 45 40 Residential 25 Railroad Parks	
Eastbound Traffic Southbound Traffic Westbound Traffic Northbound Traffic			



**City of Novi**  
 Geographic Information Services  
 Department of Information Technology  
 45175 W Ten Mile Rd  
 Novi, MI 48375  
 cityofnovi.org



1 inch = 4,400 feet



## MEMORANDUM



**TO:** ROB HAYES, P.E.; DIRECTOR OF PUBLIC SERVICES  
**FROM:** BRIAN COBURN, P.E.; SENIOR CIVIL ENGINEER *BIC*  
**SUBJECT:** PROPOSED SPEED LIMIT CHANGES  
**DATE:** AUGUST 10, 2010

This memo is a follow-up to my April 28, 2010 memo regarding speed limit evaluations. As you may recall, I conducted an audit of the city's speed limit signs and identified a number of installed signs that lack traffic control orders. The road segments that lack traffic control orders for the posted speed are as follows:

- Novi Road (12 Mile Road to 14 Mile Road)
- Meadowbrook Road (12 Mile Road to 13 Mile Road)
- 13 Mile Road (Meadowbrook Road to Haggerty Road)
- West Park Drive (12 Mile Road to West Road)
- Town Center Drive
- Crescent Blvd
- Crowe Drive
- Ingersol Drive

With the assistance of the Field Operations Division and our traffic consultant, Birchler Arroyo, we have collected speed samples and evaluated these segments to determine the appropriate speed limit. The speed studies for each segment are attached to this memo.

### Legal Requirements for Speed Limits

The Uniform Traffic Code requires that traffic control orders, as issued by the traffic engineer and approved by the City Council, be on file for the enforcement of traffic control signs. As discussed in the Detroit News article attached to the April 28 memo, tickets issued for a speed limit that lacks a traffic control order could be successfully challenged by the motorist. Speed limits are governed by the Michigan Vehicle Code (MVC) and the Michigan Manual of Traffic Control Devices (MMUTCD). The MVC provides a standard "prima facie" speed based on the number of access points on a roadway. The MVC allows the local agency to adjust the speed limit based on a traffic engineering study. The MMUTCD requires an engineering study to determine the speed limit in accordance with established traffic engineering practices.

Generally, speed limits should be set so that the majority of drivers observe them voluntarily. Studies have shown that drivers generally operate their vehicles at speeds that are reasonable and proper, regardless of the posted speeds. Nationally, this is recognized as the 85th percentile speed, which is the speed at or below which 85 percent of the motorists drive on a given road unaffected by slower traffic or poor weather. It is generally accepted that when traffic deviates from the 85th percentile speed, the probability of a traffic crash becomes greater. In addition to the 85th percentile speed, the MMUTCD recommends review of other road characteristics including pedestrian activity, road conditions, crash experience, 10 mph pace, and road side environment. Realistic speed limits should be set at no more than five miles per hour below or above the 85th percentile speed based on these mitigating factors.

### Public Perception of Speed Limits

It is usually difficult for the public to understand that even though the road may be posted at one speed, a great number of drivers may actually be driving faster based on their comfort level with the road. There is also a perception that when the posted speed limit is increased that it will result in even higher speeds. For example, if a road is posted at 30 mph and the 85<sup>th</sup> percentile speed is 35 mph, there is a perception that if the posted speed limit is increased to 35 mph, drivers would increase their speed toward 40 mph. To demonstrate the impact of increasing the posted speeds, we have analyzed the speed limits that were changed in 2009. The table below compares the observed 85<sup>th</sup> percentile speed on several road segments before the new speed limit was posted with the observed 85<sup>th</sup> percentile speed after the new speed limit was posted. While there was a notable increase on two segments of Beck Road and on Lewis Drive, there was no change in 85<sup>th</sup> percentile speed for many of the segments. The average change is a 0.8 mph increase in speed.

Road	Segment	Original Posted Speed	New Posted Speed (2009)	85 <sup>th</sup> percentile speed (mph)		
				Before New Posted Speed Limit	After New Posted Speed Limit	Change
11 Mile Road	Town Center to Meadowbrook	30	35	36	37	+1
	Meadowbrook to Seeley	30	35	39	39	0
Cabot Drive	Lewis to 13 Mile	25	35	38	38	0
	South of Lewis	25	35	37	37	0
	North of 12 Mile (curves)	25	30	34	34	0
Lewis Drive	Haggerty to Cabot	25	35	35	37	+2
Beck Road	11 Mile to Grand River	40	45	47	47	0
	10 Mile to 11 Mile	40	45	45	49	+4
	Nine Mile to 10 Mile	40	45	48	46	-2
	Eight Mile to Nine Mile	40	45	47	49	+2
<b>Average Change</b>						<b>+0.8</b>

### Proposed Speed Limits

The enclosed studies demonstrate that the speed limits that are currently posted on the subject road segments are not being observed by the majority of drivers. Further, since the posted speeds lack traffic control orders or engineering studies to support the posted speed limits, they must be reviewed to establish legal speed limits. A summary of the proposed speed limits is shown in the table below, with the justification for each recommendation included in the enclosed studies.

Road	Segment	Current Posted Speed Limit	85 <sup>th</sup> Percentile Speed	Recommended Posted Speed Limit
Novi Road	12 Mile to 1,640 feet south of 13 Mile	40	47	45
	1,640 feet south of 13 Mile to 13 Mile	35	45	45
	13 Mile Road to 14 Mile Road	40	48	45 (*)
Meadowbrook Road	12 Mile Road to Meadowbrook Elem	30	36	35
	13 Mile Road to Meadowbrook Elem	25	36	35 (**)
13 Mile Road	Meadowbrook Road to Haggerty Road	40	46	45
West Park Drive	12 Mile Road to West Road	40	47	45
Crowe Drive	Novi Road to Ingersol Drive	25	24	25
Ingersol Drive	Crescent Blvd to Crowe Drive	25	27	25
Crescent Blvd	Novi Road to Town Center Drive	25	33	30
Town Center Drive	Crescent Blvd to 11 Mile Road	25	33	30
	Grand River Ave to 11 Mile Road	25	29	30

(\*)A 30 mph school speed zone is proposed for this segment during school arrival and dismissal times

(\*\*)A 25 mph school speed zone is proposed for this segment during school arrival and dismissal times



As noted in the table, there are two school speed zones proposed for implementation. The first is adjacent to Hickory Woods Elementary School on Novi Road. The posted speed limit is currently 40 mph at this location and there is no school speed zone at this time. The report recommends a school speed zone be set at 30 mph in the vicinity of the school property. The second school speed zone is proposed adjacent to Meadowbrook Elementary on Meadowbrook Road. The speed limit is currently set at 25 mph as a regular speed limit that is in effect all-day, every day. The report proposes the implementation of a school speed zone set at 25 mph in the vicinity of the school property. State law (MCL 257.627a) allows the speed limit to be decreased by 15 mph from the posted speed (but set at not less than 25 mph) in a school zone for a period of 30 minutes to one hour before school and 30 minutes to one hour after school, when requested by the school superintendent. We have discussed the proposed school speed zones with Walled Lake Schools. They are supportive of the recommendations and intend to request the school speed zones as proposed.

#### Public Notification

The majority of the segments being studied are located in non-residential areas. Meadowbrook Road has the largest potential impact on the residents since there are several residential units along Meadowbrook Road in the existing 25 mph speed zone. A "Speed Limit Under Review" sign (as shown at right) has been installed at the north and south ends of the Meadowbrook Road segment (12 Mile Road to 13 Mile Road) to notify residents and motorists that the speed limit is being studied. We have received a few calls from residents who were primarily concerned with the speed limit near the school. Our staff has explained that a school speed zone is proposed which calmed their concerns.



#### Implementation

We propose to prepare the traffic control orders for the speed limit recommendations from the studies for consideration by City Council on an upcoming agenda. Once approved by City Council, the new speed signs would be installed by Field Operations staff as recommended by the studies. The new signs would meet the federal retroreflectivity requirements and would be funded by the Traffic Control Sign Replacement Program as approved in the FY2010-11 budget.

**cc:** David Molloy, Public Safety Director/Police Chief  
Matt Wiktorowski, Field Operations Senior Manager  
Terry Whitfield, Police Department

June 10, 2010

Brian T. Coburn, P.E.  
Engineering Div., Dept. of Public Services  
City of Novi  
26300 Delwal Drive  
Novi, MI 48375  
[bcoburn@cityofnovi.org](mailto:bcoburn@cityofnovi.org)



**Subject: Speed Limit Study of City Streets in Novi Town Center Area**

Dear Mr. Coburn:

Per your request, we have evaluated Crescent Boulevard, Town Center Drive, Crowe Drive, and Ingersol Drive (Crescent to Crowe) to determine appropriate speed limits (Figure 1). This letter reports our findings and recommendations.

**Recommendations**

1. The speed limit on Crescent Boulevard and Town Center Drive should be 30 mph.
2. The speed limit on Ingersol Drive and Crowe Drive should be 25 mph.

**Background and Criteria**

In establishing a speed limit, it is appropriate to determine and consider (1) the prima facie limit, (2) the "speed of vehicular traffic" (typically expressed as the 85<sup>th</sup>-percentile speed), and (3) other traffic and roadway characteristics (per the *Michigan Manual of Uniform Traffic Control Devices*).

A portion of the *Michigan Vehicle Code* (MCL 257.627) establishes prima facie speed limits based on (1) whether or not the road runs through a business district, and (2) the number of access points (driveways or intersecting roadways) within each half mile of road. In a business district or where there are 60 or more access points per half mile, the prima facie limit is 25 mph. Outside a business district, the prima facie limit is 35 mph for 45-59 access points per half mile and 45 mph for 30-44 access points per half mile.

Another portion of the law (MCL 257.628) indicates that a posted speed limit different than the prima facie limit may be determined based on an "engineering and traffic investigation." Relevant guidelines for such an investigation, found in Section 2B.13 of the *MMUTCD* (approved jointly by the MDOT and the State Police), are as follows:

- "When a speed limit is to be posted, it should be within ... 5 mph of the 85<sup>th</sup>-percentile of free-flowing traffic.
- Other factors that may be considered when establishing speed limits are the following:
  - A. Road characteristics, shoulder condition, grade, alignment, and sight distance;
  - B. The pace speed;
  - C. Roadside development and environment;
  - D. Parking practices and pedestrian activity;
  - E. Reported crash experience for at least a 12-month period."





Red bar = Speed/volume sampling location, 6/8-10/10.

Figure 1. Novi Town Center Study Area





## Data Collection and Analysis

**Prima Facie Speed Limit** – The Michigan Vehicle Code defines a business district as "the territory contiguous to a highway [where] 50 percent or more of the frontage thereon for a distance of 300 feet or more is occupied by buildings in use for business" (MCL 257.5, Sec. 5). All four of the street segments reviewed meet this definition. Hence, the prima facie speed limit on those segments is 25 mph.

**Computed Comfortable Curve Speed** – Methodology recommended by the American Association of State Highway and Transportation Officials was used to compute the safe and comfortable speed on the five curves present among the subject street sections, based on curve radius, pavement cross slope, and the assumed maximum comfortable lateral friction coefficient for the computed speed (per AASHTO). Curve radii and pavement cross slopes were taken from construction plans provided by the City. Table 1 (below) summarizes the inputs and outputs of curve speed computations.

**85<sup>th</sup>-Percentile Speed** – At our request, City personnel conducted automated speed and volume sampling over 48-hour midweek periods. The five sampling locations are noted on Figures 1-6.

Tables 2a and 2b summarize the traffic statistics for Town Center Drive and the other subject road sections by location, direction, and day. The average daily traffic volumes are just over 3,500 vehicles on Town Center Drive; 5,100 vehicles on Crescent Boulevard; 2,100 vehicles on Ingersol Drive; and 1,600 vehicles on Crowe Drive. The 85<sup>th</sup>-percentile speeds are 29.3-32.5 mph on Town Center; 32.6 mph on Crescent; 27.4 mph on Ingersol; and 23.9 mph on Crowe.

Whether to round down or up from the 85<sup>th</sup>-percentile speed in selecting a speed limit depends not only on how close the statistic is to a 5-mph multiple, but also on the driving environment and engineering judgment. Given the low prima facie speed limit (based on this being a business district), significant driveway traffic, limiting comfortable curve speeds (above), and documented crash experience (below), it appears appropriate on all subject streets to round down to the next lower 5-mph interval below each of the observed 85<sup>th</sup> speeds.

**Crash Experience** – At our request, the Traffic Improvement Association (TIA) searched its files for crashes occurring along Crescent, Town Center, Ingersol, and Crowe between 2004 and 2009, inclusive. Given the proximity of driveways and intersections, no attempt was made to exclude from the search crashes occurring within 200 ft of Novi Road or Grand River Avenue. All crashes, even intersection-related ones on Crescent Boulevard and Town Center Drive, were retrieved and reviewed.

The TIA data are appended to this report, and the 86 individual crashes are further summarized in Table A-1. Table 3 (following Tables 2a and 2b) shows the frequency distribution of crashes by street, relationship to intersection, and severity level. Key findings revealed by the various tables are as follows:

- ❑ After setting aside the 25 crashes attributable to the Crescent / Novi intersection, there were 30 other crashes along Crescent Boulevard in six years. Given the street's estimated 0.39-mile length, the non-intersection crash frequency was 12.8 per mile per year.
- ❑ In contrast, there were only five non-intersection crashes along Town Center Drive. Given this street's estimated 0.42-mile length, its non-intersection crash frequency was 2.4 per mile per year, or less than 20% as great as the frequency along Crescent Boulevard.
- ❑ The higher crash frequency along Crescent Boulevard is likely due primarily to the higher traffic volumes, more heavily used driveways, and somewhat unusual boulevard-style design (which allows direct left turns in most but not all locations, and which lacks several left-turn pockets).

**Table 1. Computed Comfortable (AASHTO) Curve Speeds for City Streets in Novi Town Center Area**

Curve	Road Centerline (from Plans)			At Center of Inside and Outside Through Lanes			Comfortable Speed (mph)
	Curve Length (ft)	Deflection	Radius (ft)	Radius (ft)	Cross Slope (ft/ft) <sup>1</sup>	Lateral Friction	
Crescent, 1st Curve East of Novi	270	51.5°	300	284	+ 0.02	0.20	31
				316	- 0.02	0.20	29
Crescent, 2nd Curve East of Novi	1,079	51.5°	1,200	1171	+ 0.02	0.14	53
				1216	- 0.02	0.14	47
Ingersol, between Crescent and Crowe	295	24.2°	700	691	+ 0.02	0.16	43
				709	- 0.02	0.16	39
Town Center, 1st Curve South of 11 Mile	130	18.7°	400	371	+ 0.02	0.18	33
				416	- 0.02	0.18	32
Town Center, 2nd Curve South of 11 Mile	219	31.4°	400	371	+ 0.02	0.18	33
				416	- 0.02	0.18	32

<sup>1</sup> The values listed here are minimal for drainage and not intended to superelevate or "bank" for driving comfort or speed maintenance purposes (indeed, there is "adverse" superelevation in the outside lane, as indicated by the minus sign).





BIRCHLER ARROYO  
ASSOCIATES, INC.

Figure 2. Crescent, Ingersol, and Crowe Near Novi Road



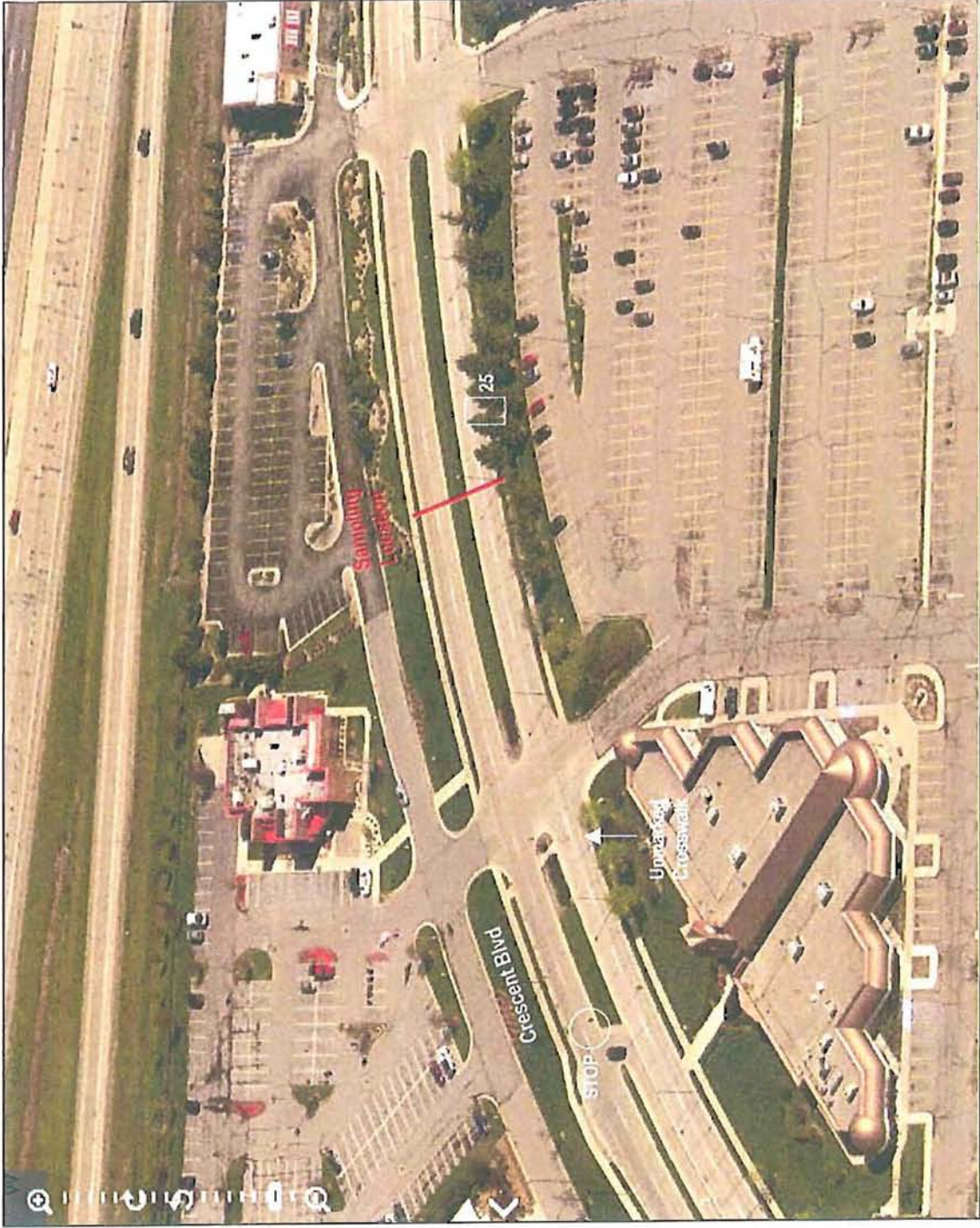


Figure 3. Crescent Boulevard Past Town Center's Main Parking Field







Figure 4. East Crescent Boulevard and North Town Center Drive



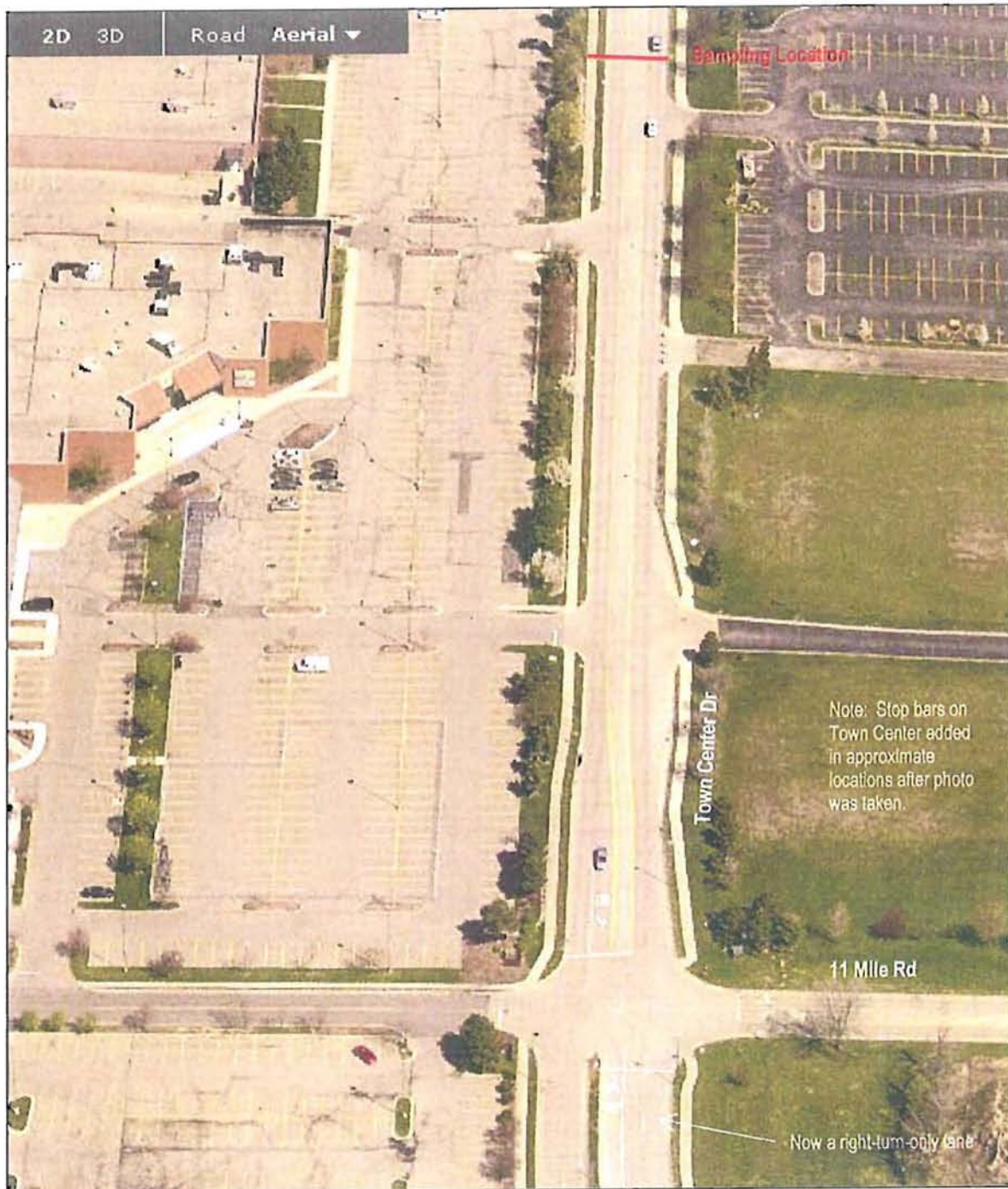


Figure 5. Town Center Drive, from 11 Mile Road to North





Figure 6. Town Center Drive, 11 Mile to Grand River



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Table 2a. Summary of Speed Statistics for Town Center Drive

Loc.	Dir.	Date	Sample Size	Speed (mph)			
				Average	85th %tile	10-mph Pace	% in Pace
Crescent Blvd to 11 Mile	NB	6-08-10 (>12 pm)	1317	26.6	32.6	25-35	64.6%
		6-09-10	2132	26.8	33.0	25-35	61.7%
		6-10-10 (<12 pm)	659	27.2	33.6	25-35	62.9%
		Average Day	2054	26.8	33.0	25-35	62.8%
	SB	6-08-10 (>12 pm)	965	26.1	31.8	20-30	66.0%
		6-09-10	1704	25.8	32.3	20-30	58.8%
		6-10-10 (<12 pm)	620	24.7	31.5	20-30	52.5%
		Average Day	1645	25.7	32.0	20-30	59.7%
Both	Average Day	3699	26.3	32.5	-	61.4%	
11 Mile to Grand River	NB	6-08-10 (>12 pm)	969	26.3	29.9	20-30	81.9%
		6-09-10	1587	26.2	30.0	20-30	80.4%
		6-10-10 (<12 pm)	580	26.3	29.9	20-30	82.0%
		Average Day	1568	26.2	30.0	20-30	81.2%
	SB	6-08-10 (>12 pm)	1129	23.8	28.4	20-30	83.7%
		6-09-10	1870	23.8	28.7	20-30	81.4%
		6-10-10 (<12 pm)	531	24.8	29.4	20-30	78.5%
		Average Day	1765	24.0	28.7	20-30	81.7%
Both	Average Day	3333	25.0	29.3	20-30	81.4%	

Table 2b. Summary of Speed Statistics for Other Public Streets in Novi Town Center

Loc.	Dir.	Date	Sample Size	Speed (mph)			
				Average	85th %tile	10-mph Pace	% in Pace
Crescent Blvd	EB	6-08-10 (>12 pm)	1432	28.3	33.2	25-35	74.0%
		6-09-10	2282	29.0	33.9	25-35	76.1%
		6-10-10 (<12 pm)	709	29.6	34.2	25-35	78.4%
		Average Day	2211	28.9	33.7	25-35	75.8%
	WB	6-08-10 (>12 pm)	2156	26.6	31.1	20-30	77.1%
		6-09-10	2993	27.3	32.0	20-30	73.9%
		6-10-10 (<12 pm)	694	28.1	33.2	25-35	70.1%
		Average Day	2922	27.1	31.8	-	74.6%
Both	Average Day	5133	27.9	32.6	-	75.1%	
Ingersol	NB	6-08-10 (>12 pm)	686	22.5	27.4	20-30	71.1%
		6-09-10	948	22.8	28.0	20-30	73.2%
		6-10-10 (<12 pm)	205	23.1	27.9	20-30	76.5%
		Average Day	920	22.7	27.8	20-30	72.8%
	SB	6-08-10 (>12 pm)	880	21.3	26.3	20-30	68.7%
		6-09-10	1261	21.9	27.4	20-30	72.4%
		6-10-10 (<12 pm)	294	23.0	28.2	20-30	73.8%
		Average Day	1217	21.8	27.1	20-30	71.2%
Both	Average Day	2137	22.2	27.4	20-30	71.9%	
Crowe	EB	6-08-10 (>12 pm)	497	19.7	23.8	15-25	87.9%
		6-09-10	828	20.3	24.2	15-25	87.5%
		6-10-10 (<12 pm)	323	21.1	24.6	15-25	84.5%
		Average Day	824	20.3	24.2	15-25	87.0%
	WB	6-08-10 (>12 pm)	591	19.2	23.6	15-25	84.2%
		6-09-10	735	19.3	23.7	15-25	84.6%
		6-10-10 (<12 pm)	161	19.6	24.1	15-25	78.8%
		Average Day	744	19.3	23.7	15-25	83.8%
Both	Average Day	1568	19.8	23.9	15-25	85.5%	

**Table 3. Summary of Town Center Area Crashes, 2004-2009<sup>1</sup>**

Street	Number of Crashes		Number of All Crashes (& Persons) by Injury Severity Level <sup>2</sup>				
	Intersection-Related	Non-Intersection-Related	F	A	B	C	No Injury
Crescent Blvd	25	30	0 (0)	1 (3)	2 (3)	6 (8)	46 (129)
Town Center Dr	17	5	0 (0)	0 (0)	0 (0)	7 (11)	15 (47)
Ingersol Dr	4	1	0 (0)	0 (0)	0 (0)	0 (0)	5 (10)
Crowe Dr	4	0	0 (0)	0 (0)	0 (0)	2 (2)	3 (7)
All of Above	50	36	0 (0)	1 (3)	2 (3)	15 (21)	69 (193)

<sup>1</sup> See more detailed summary in Table A-1, as well as "raw" tabular data from TIA, attached.

<sup>2</sup> F = fatal, A = incapacitating injury, B = non-incapacitating injury, and C = possible injury.

- There were 17 crashes on Town Center Drive at 11 Mile (not counting intersection-related crashes occurring on 11 Mile). As discussed in our report of November 13, 2009, the recommended installation of all-way STOP-sign control (since implemented) can be expected to significantly reduce the crash frequency at this location.
  
- A total of nine crashes occurred on the short sections of Ingersol and Crowe reviewed. Only one of these crashes did not involve an intersection.

### Conclusions and Recommendations

Based primarily on speed statistics, the speed limit on Ingersol and Crowe Drives should be 25 mph, and the speed limit on Town Center Drive should be 30 mph. While the 85<sup>th</sup>-percentile speed on Crescent Boulevard would permit a speed limit of either 30 or 35 mph, the lower of these two choices is recommended given the street's design features, driveway traffic, and documented crash experience.

Sincerely,  
BIRCHLER ARROYO ASSOCIATES, INC.



Rodney L. Arroyo, AICP  
Vice President



William A. Stimpson, P.E.  
Director of Traffic Engineering

Attachments



Table A-1. 2004-2009 Crash History for Non-Arterial Public Streets in Novi Town Center Area

Year	Date	Time	Cross Road	Distance from Cross Road	Crash (Type or #)					Crash Severity (# Persons)				Possible Contributing Factors		
					Angle	Head-On	Sideswipe		Rear-End	Single-Vehicle	Fatal	Personal Injury			No Injury	
							Opposite Direction	Same Direction				A	B			C
<b>Crescent Boulevard</b>																
2009	10-24	7 p	Ingersol	5' W.				EB						2	Improper right turn; rain	
	10-17	8 p	Town Ctr	300' W.				EB-WB						3	Failed to yield / attempted left turn?	
	07-14	2 p	Novi Rd	450' E.				EB						3	Failed to yield / changing lanes	
	04-14	2 p	Novi Rd	10' E.					WB					2	Unable to stop / leader slowed; rain	
	02-26	8 a	Novi Rd	528' E.						Lt. pole				2	Icy; EB "speed too slow" (?)	
	02-25	12 p	Novi Rd	20' E.					WB					2	Unable to stop / leader slowed; wet	
2008	12-13	11 p	Novi Rd	100' E.					WB					3	Sleet/hail; unable to stop	
	12-02	6 p	Novi Rd	1320' E.					EB					2	Following left turn unable to stop	
	09-05	5 p	Ingersol	400' E.	SBL-EB									3	Improper use of crossover?	
	08-05	10 p	Town Ctr	100' W.				EB						2	Failed to yield / changing lanes	
	07-22	3 p	Town Cir	275' E.						Fence				1	Hit fence at east end of road?	
	03-24	1 p	Novi Rd	10' E.					WB					2	Unable to stop / lead vehicle slowed	
	02-22	11 a	Town Ctr	100' E.				WB						2	Failed to yield / changing lanes	
	02-11	4 p	Novi Rd	25' E.	WB-WB									2	Right turn into another vehicle	
	01-26	7 p	Novi Rd	50' E.					WB					4	Unable to stop / lead vehicle slowed	
	01-19	11 a	Novi Rd	30' E.	WB-WB									4	Improper lane change	
01-11	8 p	Novi Rd	25' E.					WB					2	3 vehicles? Wet; otherwise unknown		
Subtotals, 2008-2009					3	0	1	4	7	2	0	0	0	0	40	Unshaded = Intersection-related



Table A-1. 2004-2009 Crash History for Non-Arterial Public Streets in Novi Town Center Area (cont'd)

Year	Date	Time	Cross Road	Distance from Cross Road	Crash (Type or #)						Crash Severity (# Persons)				Possible Contributing Factors	
					Angle	Head-On	Sideswipe		Rear-End	Single-Vehicle	Fatal	Personal Injury				No Injury
							Opposite Direction	Same Direction				A	B	C		
<b>Crescent Boulevard (cont'd)</b>																
2007	09-17	6 p	Ingersol	15' E.				EB						5	Failed to yield / changing lanes	
	05-26	6 p	Town Ctr	300' W.	SBL-EB							2		2	Failed to yield; rain	
	05-15	7 p	Town Ctr	15' W.					EB					2	Unable to stop (STOP sign); rain	
	02-14	8 p	Novi Rd	200' E.					WB				1	2	Icy; unable to stop (for signal?)	
	01-12	1 p	Novi Rd	10' E.					WB					2	Unable to stop / lead vehicle slowed	
2006	12-23	11 a	Town Cir	900' W.		N-S								2	NB left turn hit SB crossover-through	
	10-07	2 p	Novi Rd	20' E.					WB					2	Unable to stop / lead vehicle slowed	
	08-13	12 p	Town Cir	800' W.		N-S								3	LT failed to yield to WB through	
	07-28	12 p	Novi Rd	1056' E.	SB-EB								2		Driveway vehicle failed to yield	
	06-01	6 p	Novi Rd	50' E.					WB					2	Unable to stop / lead vehicle slowed	
2005	08-14	11 a	Novi Rd	100' E.				EB						2	Attempted right turn from left lane	
	05-27	2 p	Novi Rd	20' E.	WB-WB									4	Right turn into another vehicle	
	03-02	8 a	Town Ctr	200' W.	NBL-EB								1	1	Driveway vehicle failed to yield	
	01-29	1 p	Town Ctr	200' W.	SBL-EB									4	Driveway vehicle failed to yield	
	01-18	7 p	Novi Rd	40' E.					WB					2	Lead vehicle going "too slow"	
Subtotals, 2005-2007					5	2	0	2	6	0	0	0	2	4	35	Unshaded = Intersection-related

Table A-1. 2004-2009 Crash History for Non-Arterial Public Streets in Novi Town Center Area (cont'd)

Year	Date	Time	Cross Road	Distance from Cross Road	Crash (Type or #)						Crash Severity (# Persons)				Possible Contributing Factors	
					Angle	Head -On	Sideswipe		Rear-End	Single-Vehicle	Fatal	Personal Injury				No Injury
							Opposite Direction	Same Direction				A	B	C		
<b>Crescent Boulevard (cont'd)</b>																
2004	12-28	5 p	Town Ctr	300' W.			NBL-SB							2	Improper lane use in turning left	
	12-18	2 p	Town Ctr	100' W.					EB					2	Snow; unable to stop (STOP sign)	
	12-17	2 p	Town Ctr	500' W.	SBL-EB							3		2	Failed to yield to "speeding" vehicle	
	12-01	9 p	Novi Rd	20' E.					WB					1?	Apparently hit-and-run	
	11-27	4 p	Novi Rd	300' E.	SB-EB							1		2	Failed to yield; rain	
	11-19	8 p	Novi Rd	15' E.					WB					4	Unable to stop; rain	
	10-18	2 p	Novi Rd	0'					WB					2	Unable to stop as lead vehicle did	
	10-05	9 p	Novi Rd	20' E.					WB					2	Unable to stop / lead vehicle slowed	
	10-02	8 p	Town Ctr	200' W.	SBL-NB									3	Improper attempt to turn left	
	10-01	6 a	Novi Rd	0'	WB-WB									2	Motorcycle unable to stop	
	09-25	11 a	Town Ctr	15' N.	WB-NB									2	WB vehicle disregarded STOP sign	
	09-03	Unk.	Town Ctr	20' E.						EB			1	2	Ran off road for unknown reason	
	08-27	12 p	Town Ctr	200' W.	SB-WB									4	Driveway vehicle failed to yield	
	08-12	4 p	Town Ctr	1320' W.	WB-WB									3	Improper right turn	
	08-04	3 p	Ingersol	0'						EB				2	Changing lanes, clipped RT veh.; rain	
	07-28	6 p	Town Ctr	300' W.						WB				1?	Passing, clipped vehicle in left lane	
	06-26	11 a	Ingersol	100' E.						WB				2	Improper start-up / failed to yield	
05-08	3 p	Novi Rd	100' E.						WB			1	4	Unable to stop / lead vehicle slowed		
04-15	8 a	Novi Rd	0'	WB-NB									2	WB vehicle violated red signal		



Table A-1. 2004-2009 Crash History for Non-Arterial Public Streets in Novi Town Center Area (cont'd)

Year	Date	Time	Cross Road	Distance from Cross Road	Crash (Type or #)						Crash Severity (# Persons)				Possible Contributing Factors	
					Angle	Head-On	Sideswipe		Rear-End	Single-Vehicle	Fatal	Personal Injury				No Injury
							Opposite Direction	Same Direction				A	B	C		
<b>Crescent Boulevard (cont'd)</b>																
2004	03-27	5 p	Novi Rd	1320' E.	WB-WB									2	Right turn apparently swung wide	
	03-20	6 p	Town Ctr	200' W.	EBL-EB									2	Improper attempt to turn left	
	01-21	6 p	Novi Rd	0'				WB						4	Snow; unable to stop	
	01-04	11 a	Novi Rd	30' E.				WB				2	1	1	Unable to stop as lead vehicle did	
	Subtotals, 2004					10	0	1	1	10	1	0	3	1	4	53
Totals, 2004-2009					18	2	2	7	23	3	0	3	3	8	129	Unshaded = intersection-related
<b>Town Center Drive</b>																
2009	04-20	4 p	11 Mile	60' N.	EB-SB									2	Driveway vehicle failed to yield; rain	
2008	12-19	9 a	Gr. River	75' N.				NB						2	Snow; improper backing	
	09-30	8 p	11 Mile	800' N.			SB-NB							2	SB vehicle drove left of center	
	04-13	10 a	11 Mile	10' W.	EB-NB								3	3	Snow; EB vehicle failed to yield	
2007	12-20	4 p	11 Mile	15' E.	EB-SB									2	EB vehicle failed to yield	
	06-30	7 p	11 Mile	40' S.					Sign					1	WB left-turn hit SB Keep Right sign	
2006	11-13	8 a	Crescent	20' S.			EBR-NB							6	RT swung wide and hit NB LT	
	04-24	1 p	11 Mile	5' N.	EB-NB									2	EB vehicle failed to yield	
	01-06	10 a	Crescent	450' S.			SB							2	Improper lane change	
2005	12-16	1 p	11 Mile	0'				WB						3	Snow; vehicle #2 unable to stop	
	10-18	4 p	11 Mile	10' S.	EB-NB							1	1	1	EB vehicle failed to yield	
	08-15	9 p	11 Mile	0'	EB-NB									3	EB vehicle disregarded STOP sign	

Table A-1. 2004-2009 Crash History for Non-Arterial Public Streets in Novi Town Center Area (cont'd)

Year	Date	Time	Cross Road	Distance from Cross Road	Crash (Type or #)						Crash Severity (# Persons)				Possible Contributing Factors	
					Angle	Head-On	Sideswipe		Rear-End	Single-Vehicle	Fatal	Personal Injury				No Injury
							Opposite Direction	Same Direction				A	B	C		
<b>Town Center Drive (cont'd)</b>																
2005	05-20	11 a	11 Mile	10' S.	EB-SB								2	1	EB vehicle failed to yield	
	01-05	4 p	Gr. River	15' N.				SB						2	Snow; "speeding"	
2004	12-11	5 p	11 Mile	15' W.		E-W							1	3	WB failed to yield; SB also involved	
	12-02	12 p	Gr. River	0'				SB						2	Improper backing	
	10-22	3 p	11 Mile	5' E.	EB-NB									2	EB vehicle failed to yield	
	09-30	6 p	11 Mile	10' N.	WB-SB								1	1	WB vehicle failed to yield	
	09-15	6 a	Gr. River	25' N.					Median					1	Swerved around object in road	
	08-22	11 a	11 Mile	0'	EB-NB								2	2	EB vehicle failed to yield	
	07-28	3 p	11 Mile	10' N.	EB-NB									3	EB vehicle failed to yield	
07-19	1 p	11 Mile	10' E.	EB-NB								1	4	EB vehicle failed to yield		
Totals, 2004-2009					12	1	2	1	4	2	0	0	0	11	47	Unshaded = Intersection-related
<b>Ingersol Drive (Crescent-Crowe)</b>																
'08-9	No reported crashes these two years															
2007	10-20	1 p	Crowe	1' S.	EB-SB									3	EB vehicle failed to yield	
2006	05-27	1 p	Crescent	100' S.					Animal					1	To avoid ped, hit dog being walked?	
2005	12-15	12 p	Crowe	5' N.	NBL-SB									2	Snow; SB cited as "unable to stop"	
2004	06-29	2 p	Crowe	0'	EB-SB									2	"Improper left turn"	
	01-09	1 p	Crescent	100' S.	WB-NB									2	Driveway vehicle failed to yield	
Totals, 2004-2009					4	0	0	0	0	1	0	0	0	10	Unshaded = Intersection-related	



Table A-1. 2004-2009 Crash History for Non-Arterial Public Streets in Novi Town Center Area (cont'd)

Year	Date	Time	Cross Road	Distance from Cross Road	Crash (Type or #)						Crash Severity (# Persons)				Possible Contributing Factors	
					Angle	Head -On	Sideswipe		Rear-End	Single-Vehicle	Fatal	Personal Injury				No Injury
							Opposite Direction	Same Direction				A	B	C		
<b>Crowe Drive</b>																
2009	08-01	11 a	Novi Rd	2' E.					EB					2	V#1 failed to stop when V#2 did	
2008	08-20	9 p	Novi Rd	10' W?						Bicycle			1	?	Unclear how vehicle and bike hit	
	02-13	2 p	Novi Rd	10' E					WB					2	Wet; unable to stop	
2007	No reported crashes for this year															
2006	05-08	5 p	Novi Rd	5' E.					WB					3	V#2 disregarded sign / stopped V#1	
'04-5	No reported crashes these two years															
Totals, 2004-2009					0	0	0	0	3	1	0	0	0	1	7	Unshaded = Intersection-related



**Crescent Blvd, bet Novi & E of Town Crt (to end)**

Request #: 0004196 Printed By: Dominique Malich Printed On: 5/18/2010

FROM_DATE:	1/1/2004
TO_DATE:	12/31/2009
PR/MP	PR 1882207 FROM MP 0 TO MP 0.458 [Crescent Blvd & Fonda St to ]

**#1 Location:** W CRESCENT (0.01) 30 feet E of NOVI Crash ID: 5530387  
**Crash Date:** 01/04/2004 **Day:** Sun **Hour:** 11am **Weather:** cloudy **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 2 **Inj 0:** 1 **How:** rr-end  
**CVT:** Novi **Area:** w/i intersection **HBD:** N **Drugs:** N **Complaint No:**

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	unable to stop	pickup	ctrfront
2	W	stop on road	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 041032128

**#2 Location:** W CRESCENT (0.00) 0 feet from N NOVI RD Crash ID: 5543741  
**Crash Date:** 01/21/2004 **Day:** Wed **Hour:** 6pm **Weather:** snow **Roadway:** snowy **Light:** dark/unltd  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 4 **How:** rr-end  
**CVT:** Novi **Area:** inter other **HBD:** N **Drugs:** N **Complaint No:**

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	right turn	loss of control	veh in transpt	none	none	unable to stop	car	rtfront
2	W	stop on road	veh in transpt	none	none	none	none	car	lftrear

UD-10: 041045240

**#3 Location:** W CRESCENT (0.25) 1320 feet E of NOVI Crash ID: 5598040  
**Crash Date:** 03/27/2004 **Day:** Sat **Hour:** 5pm **Weather:** clear **Roadway:** dry **Light:** day  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 2 **How:** angle  
**CVT:** Novi **Area:** **HBD:** N **Drugs:** N **Complaint No:** 0418000

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	right turn	veh in transpt	none	none	none	imprp lane use	pickup	lftfront
2	W	left turn	veh in transpt	none	none	none	none	car	rtside

UD-10: 041101492

**#4 Location:** CRESCENT DR (0.31) 200 feet W of TOWN CENTER Crash ID: 5599409  
**Crash Date:** 03/20/2004 **Day:** Sat **Hour:** 6pm **Weather:** clear **Roadway:** dry **Light:** dark/ltd  
**Injuries K:** 0 **Inj A:** 0 **Inj B:** 0 **Inj C:** 0 **Inj 0:** 2 **How:** angle  
**CVT:** Novi **Area:** fwy median **HBD:** N **Drugs:** N **Complaint No:** 0416781

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn	veh in transpt	none	none	none	imprp passing	car	lftside
2	E	start on rdwy	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041102846



#5 Location: CRESCENT (0.00) 0 feet X of NOVI RD Crash ID: 5614311  
 Crash Date: 04/15/2004 Day: Thu Hour: 8am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: w/ intersection HBD: N Drugs: N Complaint No: 0421364

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	disrgd traffic cntrl	car	lftfront
2	N	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041118562

#6 Location: CRESCENT (0.02) 100 feet E of NOVI Crash ID: 5635947  
 Crash Date: 05/08/2004 Day: Sat Hour: 3pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 4 How: rr-end  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No:

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	unable to stop	sm truck	clfrnt
2	W	slow/stop on rd	veh in transpt	none	none	none	none	pickup	clrear

UD-10: 041139562

#7 Location: SB CRESCENT BLVD (0.07) 100 feet E of INGERSOL DR Crash ID: 5687860  
 Crash Date: 06/26/2004 Day: Sat Hour: 11am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: ss-same  
 CVT: Novi Area: driveway HBD: N Drugs: N Complaint No: 0434562

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	leaving parking	veh in transpt	none	none	none	failed to yeild	van	lftfront
2	W	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041194241

#8 Location: CRESCENT BLVD (0.29) 300 feet W of TOWN CENTER DR Crash ID: 5744928  
 Crash Date: 07/28/2004 Day: Wed Hour: 6pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: rr-end/rt  
 CVT: Novi Area: driveway HBD: N Drugs: N Complaint No: 0440280

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	passing	other noncoll	veh in transpt	none	none	unknown	pickup	lftrear
2	W	avoid veh-fl/bk	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041254246

#9 Location: W CRESCENT (0.10) 1320 feet W of TOWN CENTER Crash ID: 5777808  
 Crash Date: 08/12/2004 Day: Thu Hour: 4pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0442745

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	right turn	loss of control	veh in transpt	none	none	failed to yeild	car	lftrear
2	W	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041288957

#10 Location: W CRESCENT (0.31) 200 feet W of TOWN CENTER Crash ID: 5796354  
 Crash Date: 08/27/2004 Day: Fri Hour: 12pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: angle  
 CVT: Novi Area: driveway HBD: N Drugs: N Complaint No: 0445352

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	failed to yeild	car	ctrfront
2	W	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041308370

#11 Location: CRESCENT RD (0.05) 0 feet X of INGERSOL RD Crash ID: 5796928  
 Crash Date: 08/04/2004 Day: Wed Hour: 3pm Weather: rain Roadway: wet Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end/rt  
 CVT: Novi Area: inter driveway HBD: N Drugs: N Complaint No: 0441540

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	change lanes	veh in transpt	none	none	none	unknown	car	unknown
2	E	right turn	veh in transpt	none	none	none	none	pickup	rtrear

UD-10: 041308843

#12 Location: W CRESCENT BLVD (0.35) 15 feet N of TOWN CENTER Crash ID: 5835405  
 Crash Date: 09/25/2004 Day: Sat Hour: 11am Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 82 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0450879

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	disrgd traffic cntrl	car	lftside
2	N	left turn	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041347877

#13 Location: EB E CRESCENT DR (0.35) 20 feet E of TOWN CENTER Crash ID: 5836022  
 Crash Date: 09/03/2004 Day: Fri Hour: unknown Weather: cloudy Roadway: dry Light: dark/ld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 2 How: single  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0446603

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	leaving rdwy	other fixed obj	culvert	none	none	unknown	van	ctrfront

UD-10: 041348487

#14 Location: CRESCENT (0.00) 15 feet E of NOVI RD Crash ID: 5847074  
 Crash Date: 11/19/2004 Day: Fri Hour: 8pm Weather: rain Roadway: wet Light: dark/ld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: rr-end  
 CVT: Novi Area: inter driveway HBD: N Drugs: N Complaint No: 0460794

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	slow/stop on rd	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	W	stop on road	veh in transpt	none	none	none	none	car	lftrear

UD-10: 041360920



#15 Location: W CRESCENT (0.00) 20 feet E of N NOVI Crash ID: 5857125  
 Crash Date: 10/05/2004 Day: Tue Hour: 9pm Weather: clear Roadway: dry Light: dark/ld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end/rt  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 0452798

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	unable to stop	sm truck	ctrfront
2	W	slow/stop on rd	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 041370666

#16 Location: CRESCENT (0.31) 200 feet W of TOWN CENTER Crash ID: 5857142  
 Crash Date: 10/02/2004 Day: Sat Hour: 8pm Weather: clear Roadway: dry Light: dark/ld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No:

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	none	none	none	none	none	imprp turn	pickup	lftfront
2	N	none	none	none	none	none	none	car	lftside

UD-10: 041370683

#17 Location: W CRESCENT DR (0.00) 0 feet X of N NOVI RD Crash ID: 5857678  
 Crash Date: 10/01/2004 Day: Fri Hour: 6am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0451870

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	slow/stop on rd	veh in transpt	none	none	none	unable to stop	motorcycle	ctrfront
2	W	slow/stop on rd	veh in transpt	none	none	none	none	car	lftside

UD-10: 041371212

#18 Location: CRESCENT RD (0.00) 0 feet X of NOVI RD Crash ID: 5857695  
 Crash Date: 10/18/2004 Day: Mon Hour: 2pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 0454953

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	right turn	loss of control	veh in transpt	none	none	unable to stop	car	ctrfront
2	N	stop on road	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 041371229

#19 Location: CRESCENT (0.00) 20 feet E of NOVI RD Crash ID: 5859017  
 Crash Date: 12/01/2004 Day: Wed Hour: 9pm Weather: clear Roadway: dry Light: dark/ld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: rr-end  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 0963192

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	stop on road	veh in transpt	none	none	none	unknown	car	lftrear
2		go straight	veh in transpt	none	none	none	unknown	uncoded	

UD-10: 041372621

#20 Location: CRESCENT DR (0.06) 300 feet E of NOVI Crash ID: 5861161  
 Crash Date: 11/27/2004 Day: Sat Hour: 4pm Weather: rain Roadway: wet Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 1 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0462246

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	failed to yeild	car	rtfront
2	E	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 041374822

#21 Location: CRESCENT (0.33) 100 feet W of TOWN CENTER DR Crash ID: 5869350  
 Crash Date: 12/18/2004 Day: Sat Hour: 2pm Weather: cloudy Roadway: snowy Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: inter driveway HBD: N Drugs: N Complaint No: 0466356

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	slow/stop on rd	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	E	stop on road	veh in transpt	none	none	none	none	van	ctrrear

UD-10: 041383595

#22 Location: CRESCENT (0.29) 300 feet W of TOWN CENTER Crash ID: 5872500  
 Crash Date: 12/28/2004 Day: Tue Hour: 5pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: ss-opp  
 CVT: Novi Area: median HBD: N Drugs: N Complaint No: 0467945

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	left turn	veh in transpt	none	none	none	imprp lane use	sm truck	lftrear
2	S	slow/stop on rd	veh in transpt	none	none	none	none	car	lftside

UD-10: 041387244

#23 Location: CRESCENT BLVD (0.25) 500 feet W of TOWN CENTER DR Crash ID: 5872766  
 Crash Date: 12/17/2004 Day: Fri Hour: 2pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 3 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: median HBD: N Drugs: N Complaint No: 0466121

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	left turn	veh in transpt	none	none	none	failed to yeild	car	ctrfront
2	E	go straight	veh in transpt	ran off road/r	utility pole	none	speeding	car	lftfront

UD-10: 041387507

#24 Location: CRESCENT ST (0.01) 40 feet E of NOVI RD Crash ID: 5887907  
 Crash Date: 01/18/2005 Day: Tue Hour: 7pm Weather: cloudy Roadway: dry Light: dark/ltld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 053638

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	slow/stop on rd	veh in transpt	none	none	none	spd too slow	car	ctrfront
2	W	slow/stop on rd	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 055408083



#25 Location: EB CRESCENT (0.31) 200 feet W of TOWNCENTER DR Crash ID: 5928908  
 Crash Date: 01/29/2005 Day: Sat Hour: 1pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: angle  
 CVT: Novi Area: driveway HBD: N Drugs: N Complaint No: 055616

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	left turn	veh in transpt	none	none	none	failed to yeild	car	ctrfront
2	E	go straight	veh in transpt	none	none	none	none	car	lftfront

UD-10: 055440677

#26 Location: E CRESCENT (0.31) 200 feet W of TOWN CENTEE Crash ID: 6007906  
 Crash Date: 03/02/2005 Day: Wed Hour: 8am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 1 How: angle  
 CVT: Novi Area: driveway HBD: N Drugs: N Complaint No: 0511618

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	enter rdwy	veh in transpt	none	none	none	failed to yeild	car	lftfront
2	E	go straight	veh in transpt	none	none	none	none	car	rtside

UD-10: 055530413

#27 Location: CRESCENT DR (0.00) 20 feet E of NOVI RD Crash ID: 6045594  
 Crash Date: 05/27/2005 Day: Fri Hour: 2pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0527226

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	right turn	veh in transpt	none	none	none	imprp lane use	truck/bus	rollovr
2	W	right turn	veh in transpt	none	none	none	none	car	lftfront

UD-10: 055570174

#28 Location: CRESCENT RD (0.02) 100 feet E of NOVI RD Crash ID: 6097643  
 Crash Date: 08/14/2005 Day: Sun Hour: 11am Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: unknown  
 CVT: Novi Area: inter driveway HBD: N Drugs: N Complaint No: 0543115

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	right turn	veh in transpt	none	none	none	imprp turn	car	rtside
2	E	go straight	veh in transpt	none	none	none	none	car	lftfront

UD-10: 055624884

#29 Location: CRESCENT BLVD (0.01) 50 feet E of NOVI RD Crash ID: 6370706  
 Crash Date: 06/01/2006 Day: Thu Hour: 6pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: curved HBD: N Drugs: N Complaint No: 0638149

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	stop on road	veh in transpt	none	none	none	none	car	ctrrear
2	W	start on rdwy	veh in transpt	none	none	none	negl driving	pickup	ctrfront

UD-10: 061134008

#30 Location: CRESCENT (0.20) 1056 feet E of NOVI Crash ID: 6401989  
 Crash Date: 07/28/2006 Day: Fri Hour: 12pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 2 Inj 0: 0 How: angle  
 CVT: Novi Area: fwy median HBD: N Drugs: N Complaint No: 0650352

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	failed to yeild	car	rtside
2	E	go straight	veh in transpt	none	none	none	none	car	ctrfront

UD-10: 061156565

#31 Location: WB CRESCENT BLVD (0.20) 800 feet W of TOWN CENTER DR Crash ID: 6416214  
 Crash Date: 08/13/2006 Day: Sun Hour: 12pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: head-on/lt  
 CVT: Novi Area: driveway HBD: N Drugs: N Complaint No: 0653969

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1		left turn	veh in transpt	none	none	none	failed to yeild	car	rtfront
2	W	go straight	veh in transpt	none	none	none	none	car	ltfront

UD-10: 061181408

#32 Location: W CRESCENT (0.00) 20 feet E of N NOVI RD Crash ID: 6466108  
 Crash Date: 10/07/2006 Day: Sat Hour: 2pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 0667208

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	unable to stop	pickup	ctrfront
2	W	stop on road	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 061233748

#33 Location: WB W CRESCENT (0.18) 900 feet W of TOWN CENTER Crash ID: 6545554  
 Crash Date: 12/23/2006 Day: Sat Hour: 11am Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: head-on  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0684488

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	left turn	veh in transpt	none	none	none	left of center	car	ctrfront
2	S	go straight	veh in transpt	none	none	none	none	car	ctrfront

UD-10: 061315267

#34 Location: CRESCENT BLVD (0.00) 10 feet E of NOVI RD Crash ID: 6569790  
 Crash Date: 01/12/2007 Day: Fri Hour: 1pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 072797

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	unable to stop	pickup	ctrfront
2	W	stop on road	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 075409244



#35 Location: CRESCENT DR (0.04) 200 feet E of NOVI RD Crash ID: 6601276  
 Crash Date: 02/14/2007 Day: Wed Hour: 8pm Weather: clear Roadway: icy Light: dark/ltl  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 2 How: rr-end  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0710500

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	slow/stop on rd	veh in transpt	none	none	none	unable to stop	car	rtfront
2	W	stop on road	veh in transpt	none	none	none	none	car	clrear

UD-10: 075441438

#36 Location: EB CRESCENT (0.35) 15 feet W of TOWN CENTER Crash ID: 6674297  
 Crash Date: 05/15/2007 Day: Tue Hour: 7pm Weather: rain Roadway: wet Light: dusk  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end/rt  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0730376

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	unable to stop	sm truck	clfront
2	E	stop on road	veh in transpt	none	none	none	none	car	clrear

UD-10: 075515613

#37 Location: CRESCENT BLVD (0.29) 300 feet W of TOWN CENTER DR Crash ID: 6683297  
 Crash Date: 05/26/2007 Day: Sat Hour: 6pm Weather: rain Roadway: wet Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 2 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: median HBD: N Drugs: N Complaint No: 0732815

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	left turn	veh in transpt	none	none	none	failed to yeild	car	rtside
2	E	go straight	veh in transpt	luminaire	none	none	none	car	clfront

UD-10: 075524906

#38 Location: CRESCENT DR (0.05) 15 feet E of INGERSOL DR Crash ID: 6771075  
 Crash Date: 09/17/2007 Day: Mon Hour: 6pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 5 How: ss-same  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0756354

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	change lanes	veh in transpt	none	none	none	failed to yeild	car	
2	E	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 075617201

#39 Location: EB CRESCENT BLVD (0.00) 25 feet E of NOVI Crash ID: 6897062  
 Crash Date: 01/11/2008 Day: Fri Hour: 8pm Weather: cloudy Roadway: wet Light: dark/ltl  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 080001619

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	unknown	veh in transpt	none	none	none	unknown	car	
2	W	stop on road	veh in transpt	seperation	veh in transpt	none	none	sm truck	clfront
3	W	stop on road	veh in transpt	none	none	none	none	car	clrear

UD-10: 080027698, 080029530

#40 Location: CRESCENT DR (0.01) 30 feet E of V/B NOVI RD Crash ID: 6906626  
 Crash Date: 01/19/2008 Day: Sat Hour: 11am Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 082953

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	change lanes	veh in transpt	none	none	none	failed to yeild	car	rtfront
2	W	go straight	veh in transpt	none	none	none	none	car	lftfront

UD-10: 080041748

#41 Location: CRESCENT BLVD (0.01) 50 feet E of NOVI RD Crash ID: 6908720  
 Crash Date: 01/26/2008 Day: Sat Hour: 7pm Weather: unknown Roadway: unknown Light: unknown  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 4 How: rr-end  
 CVT: Novi Area: inter driveway HBD: N Drugs: N Complaint No: 80004259

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	start on rdwy	veh in transpt	none	none	none	unable to stop	car	clfrnt
2	W	start on rdwy	veh in transpt	none	none	none	unknown	sm truck	clrear

UD-10: 080045971

#42 Location: CRESCENT RD (0.00) 25 feet E of NOVI RD Crash ID: 6929764  
 Crash Date: 02/11/2008 Day: Mon Hour: 4pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 80006925

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	right turn	veh in transpt	none	none	none	imprp lane use	car	rtfront
2	W	slow/stop on rd	veh in transpt	none	none	none	none	car	lftfront

UD-10: 080089187

#43 Location: CRESCENT BLVD (0.37) 100 feet E of TOWN CENTER DR Crash ID: 6938601  
 Crash Date: 02/22/2008 Day: Fri Hour: 11am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: ss-same  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 80008697

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	change lanes	veh in transpt	none	none	none	failed to yeild	car	rtfront
2	W	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 080107979

#44 Location: CRESCENT (0.00) 10 feet E of NOVI Crash ID: 6965540  
 Crash Date: 03/24/2008 Day: Mon Hour: 1pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 080236455

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	unable to stop	car	rtfront
2	W	stop on road	veh in transpt	none	none	none	none	car	lftrear

UD-10: 080164861



#45 Location: CRESCENT (0.41) 275 feet E of TOWNCENTER Crash ID: 7053608  
 Crash Date: 07/22/2008 Day: Tue Hour: 3pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 80037005

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	fence	none	none	none	unable to stop	car	ctrfront

UD-10: 080353063

#46 Location: EB CRESCENT (0.33) 100 feet W of TOWN CENTER Crash ID: 7063393  
 Crash Date: 08/05/2008 Day: Tue Hour: 10pm Weather: clear Roadway: dry Light: dark/ltd  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: ss-same  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 80040336

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	change lanes	veh in transpt	none	none	none	failed to yeild	car	lftside
2	E	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 080374469

#47 Location: CRESCENT (0.13) 400 feet E of INGERSOL Crash ID: 7085149  
 Crash Date: 09/05/2008 Day: Fri Hour: 5pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 80047203

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	left turn	veh in transpt	none	none	none	failed to yeild	car	rtside
2	E	go straight	veh in transpt	none	none	none	unknown	car	ctrrear

UD-10: 080421893

#48 Location: CRESCENT (0.25) 1320 feet E of NOVI RD Crash ID: 7171679  
 Crash Date: 12/02/2008 Day: Tue Hour: 6pm Weather: cloudy Roadway: dry Light: dark/ltd  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: median HBD: N Drugs: N Complaint No: 80066067

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn	veh in transpt	none	none	none	unable to stop	car	lftfront
2	E	left turn	veh in transpt	none	none	none	none	car	rtrear

UD-10: 080609770

#49 Location: WB CRESCENT DR (0.02) 100 feet NE of NOVI RD Crash ID: 7199107  
 Crash Date: 12/13/2008 Day: Sat Hour: 11pm Weather: sleet/hail Roadway: wet Light: dark/ltd  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: rr-end  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 80068367

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	W	stop on road	veh in transpt	none	none	none	none	car	lftrear

UD-10: 080667065

#50 Location: CRESCENT BLVD (0.10) 528 feet E of NOVI Crash ID: 7269629  
 Crash Date: 02/26/2009 Day: Thu Hour: 8am Weather: cloudy Roadway: icy Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single  
 CVT: Novi Area: fwy ramp HBD: N Drugs: N Complaint No: 90011958

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	loss of control	ran off road/r	luminaire	none	spd too slow	car	lftfront

UD-10: 090128677, 090128677

#51 Location: CRESCENT BLVD (0.00) 20 feet E of NOVI ROAD Crash ID: 7269631  
 Crash Date: 02/25/2009 Day: Wed Hour: 12pm Weather: cloudy Roadway: wet Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end/rt  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 90011794

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	slow/stop on rd	veh in transpt	none	none	none	unable to stop	lruck/bus	ctfront
2	W	slow/stop on rd	veh in transpt	none	none	none	none	car	ctrrrear

UD-10: 090128681, 090128631

#52 Location: CRESCENT (0.00) 10 feet E of NOVI RD Crash ID: 7301652  
 Crash Date: 04/14/2009 Day: Tue Hour: 2pm Weather: rain Roadway: wet Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end/rt  
 CVT: Novi Area: inter driveway HBD: N Drugs: N Complaint No: 90023293

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	start on rdwy	veh in transpt	none	none	none	unable to stop	car	
2	W	slow/stop on rd	veh in transpt	none	none	none	none	van	ctrrrear

UD-10: 090198970, 090198970

#53 Location: CRESCENT BLVD (0.09) 450 feet E of NOVI RD Crash ID: 7367121  
 Crash Date: 07/14/2009 Day: Tue Hour: 2pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: ss-same  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 090045374

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	change lanes	veh in transpt	none	none	none	failed to yeild	car	rtfront
2	E	go straight	veh in transpt	none	none	none	none	car	lftrear

UD-10: 090345586

#54 Location: CRESCENT BLVD (0.29) 300 feet W of TOWN CENTER Crash ID: 7434544  
 Crash Date: 10/17/2009 Day: Sat Hour: 8pm Weather: clear Roadway: dry Light: dark/ltd  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: ss-opp  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 090067224

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	failed to yeild	pickup	rtside
2	W	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 090504030



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#55 Location: CRESCENT BLVD (0.05) 5 feet W of INGERSOL DR						Crash ID: 7450265			
Crash Date: 10/24/2009	Day: Sat	Hour: 7pm	Weather: rain	Roadway: wet	Light: dark/lld				
Injuries K: 0	Inj A: 0	Inj B: 0	Inj C: 0	Inj O: 2	How: ss-same				
CVT: Novi	Area: inter other	HBD: N	Drugs: N	Complaint No: 090068818					

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Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	right turn	veh in transpt	none	none	none	imprp turn	car	rtfront
2	E	go straight	veh in transpt	none	none	none	none	van	lftside

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UD-10: [090541942](#)

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**Crash Type**

Count	Type
0	uncoded
3	single
1	head-on
1	head-on/lt
18	angle
17	rr-end
0	rr-end/lt
6	rr-end/rt
6	ss-same
2	ss-opp
1	unknown
<b>Totals: 85</b>	

**Light Conditions**

Count	Type
0	uncoded
38	day
0	dawn
1	dusk
14	dark/ld
1	dark/unltd
1	unknown
<b>Totals: 55</b>	

**Weather**

Count	Type
0	uncoded
27	clear
18	cloudy
0	fog/smoke
7	rain
1	snow
0	wind
1	sleet/hail
1	unknown
<b>Totals: 55</b>	

**Road Condition**

Count	Type
0	uncoded
40	dry
10	wet
2	icy
2	snowy
0	muddy
0	slushy
0	debris
1	unknown
<b>Totals: 55</b>	

**Vehicle Type**

Count	Type
1	uncoded
83	car
0	other
2	truck/bus
5	van
10	pickup
6	sm truck
1	motorcycle
0	moped
0	go-cart
0	snowmobile
0	off-rd veh
<b>Totals: 108</b>	

**Crashes By Month**

Count	Type
8	January
5	February
4	March
2	April
4	May
2	June
4	July
6	August
4	September
7	October
2	November
7	December
<b>Totals: 55</b>	

**Hazardous Action**

Count	Type
49	none
1	speeding
0	imprp/no signal
0	imprp backing
19	unable to stop
0	other
8	unknown
0	reckls driving
1	negl driving
2	spd too slow
17	failed to yeild
2	disrgd traffic cntrl
0	wrong way
1	left of center
1	imprp passing
4	imprp lane use
3	imprp turn
<b>Totals: 108</b>	

**Unit Type**

Count	Type
0	uncoded
108	vehicle
0	pedestrian
0	bicyclist
0	engineer
<b>Totals: 108</b>	



Crash Severity

	FATAL	A	B	C	No Inj	Total
Persons	0	3	3	8	208	222
Crashes	0	1	2	6	46	55

Alcohol in Crashes

	FATAL	PI	PD	Total
Drinking	0	0	0	0
Not Drinking	0	9	46	55
Total	0	9	46	55

Crashes per Hour by Day

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	UnKnown	Total
12a - 1a	0	0	0	0	0	0	0	0	0
1a - 2a	0	0	0	0	0	0	0	0	0
2a - 3a	0	0	0	0	0	0	0	0	0
3a - 4a	0	0	0	0	0	0	0	0	0
4a - 5a	0	0	0	0	0	0	0	0	0
5a - 6a	0	0	0	0	0	0	0	0	0
6a - 7a	0	0	0	0	0	1	0	0	1
7a - 8a	0	0	0	0	0	0	0	0	0
8a - 9a	0	0	0	1	2	0	0	0	3
9a - 10a	0	0	0	0	0	0	0	0	0
10a - 11a	0	0	0	0	0	0	0	0	0
11a - 12p	2	0	0	0	0	1	4	0	7
12p - 1p	1	0	0	1	0	2	0	0	4
1p - 2p	0	1	0	0	0	1	1	0	3
2p - 3p	0	1	2	0	0	2	2	0	7
3p - 4p	0	0	1	1	0	0	1	0	3
4p - 5p	0	1	0	0	1	0	1	0	3
5p - 6p	0	0	1	0	0	1	1	0	3
6p - 7p	0	1	1	2	1	0	2	0	7
7p - 8p	0	0	2	0	0	0	2	0	4
8p - 9p	0	0	0	1	0	2	2	0	5
9p - 10p	0	0	1	1	0	0	0	0	2
10p - 11p	0	0	1	0	0	0	0	0	1
11p - 12a	0	0	0	0	0	0	1	0	1
Unknown Time	0	0	0	0	0	1	0	0	1
<b>Total</b>	<b>3</b>	<b>4</b>	<b>9</b>	<b>7</b>	<b>4</b>	<b>11</b>	<b>17</b>	<b>0</b>	<b>55</b>



Traffic Improvement Association

**Town Center Dr, Crescent Blvd to Grand River**  
 Request #: 0004151 Printed By: Dominique Matich Printed On: 5/17/2010

FROM_DATE:	1/1/2004
TO_DATE:	12/31/2009
PR/MP	PR 1882209 FROM MP 0 TO MP 0.429 [Town Center Dr & Market St to Town Center Dr & Crescent Blvd]

#1 Location: N TOWN CENTER RD (0.13) 10 feet N of 11 MILE RD Crash ID: 5727632  
 Crash Date: 07/28/2004 Day: Wed Hour: 3pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 04489

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	imprp lane use	car	rtfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftfront

UD-10: 041235779

#2 Location: TOWN CENTER DR (0.12) 10 feet E of ELEVEN MILE RD Crash ID: 5727634  
 Crash Date: 07/19/2004 Day: Mon Hour: 1pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 4 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0438564

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	failed to yeild	car	rtfront
2	N	go straight	veh in transpt	none	none	none	none	car	ctrfront

UD-10: 041235781

#3 Location: NB TOWN CENTER DR N (0.12) 0 feet X of 11 MILE RD Crash ID: 5796368  
 Crash Date: 08/22/2004 Day: Sun Hour: 11am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 2 Inj 0: 2 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0444361

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	start on rdwy	veh in transpt	none	none	none	failed to yeild	car	rtside
2	N	go straight	veh in transpt	none	none	none	none	car	ctrfront

UD-10: 041308384

#4 Location: S TOWN CENTER (0.13) 10 feet N of 11MILE Crash ID: 5832938  
 Crash Date: 09/30/2004 Day: Thu Hour: 6pm Weather: clear Roadway: dry Light: dusk  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 1 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0451805

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	failed to yeild	car	clfrnt
2	S	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 041345433



#5 Location: TOWN CENTER (0.00) 25 feet N of GRANDRIVER Crash ID: 5839087  
 Crash Date: 09/15/2004 Day: Wed Hour: 6am Weather: clear Roadway: dry Light: dark/ld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 0449971

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	avoid obj	traffic island	none	none	none	unknown	van	lffront

UD-10: 041351527

#6 Location: S TOWNCENTER DR (0.00) 0 feet X of GRANDRIVER Crash ID: 5845215  
 Crash Date: 12/02/2004 Day: Thu Hour: 12pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: unknown  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0463286

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	backing	veh in transpt	none	none	none	imprp backing	car	ctrrear
2	S	stop on road	veh in transpt	none	none	none	unknown	car	ctrfront

UD-10: 041359080

#7 Location: TOWN CENTER (0.12) 5 feet E of 11 MILE RD Crash ID: 5857703  
 Crash Date: 10/22/2004 Day: Fri Hour: 3pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0455602

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	start on rdwy	veh in transpt	none	none	none	failed to yeild	car	ctrfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 041371237

#8 Location: TOWNCENTER (0.12) 15 feet W of 11 MILE Crash ID: 5879937  
 Crash Date: 12/11/2004 Day: Sat Hour: 5pm Weather: clear Roadway: dry Light: dark/ld  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 3 How: head-on  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0464934

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	go straight	veh in transpt	none	none	none	failed to yeild	pickup	ctrfront
2	S	go straight	veh in transpt	none	none	none	none	car	ctrfront
3	E	none	none	none	none	none	none	car	ctrfront

UD-10: 041395072, 041395713

#9 Location: S TOWNCENTER DR (0.00) 15 feet N of GRANDRIVER AVE Crash ID: 5899156  
 Crash Date: 01/05/2005 Day: Wed Hour: 4pm Weather: snow Roadway: snowy Light: dawn  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 05950

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	speeding	car	rtfront
2	S	stop on road	veh in transpt	none	none	none	none	car	lffrear

UD-10: 055419109

#10 Location: S TOWN CENTER DR (0.12) 10 feet SW of 11 MILE RD Crash ID: 6058375  
 Crash Date: 05/20/2005 Day: Fri Hour: 11am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 2 Inj 0: 1 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0525637

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	right turn	veh in transpt	none	none	none	failed to yeild	car	lftfront
2	S	go straight	veh in transpt	none	none	none	none	car	rtside

UD-10: 055583550

#11 Location: TOWN CENTER DR (0.12) 0 feet X of 11 MILE RD Crash ID: 6097191  
 Crash Date: 08/15/2005 Day: Mon Hour: 9pm Weather: clear Roadway: dry Light: dark/ltd  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: angle  
 CVT: Novi Area: HBD: N Drugs: N Complaint No: 0543365

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	disrgd traffic cntrl	sm truck	ctrfront
2	N	go straight	veh in transpt	none	none	none	none	sm truck	lftfront

UD-10: 055624436

#12 Location: TOWN CENTER DR (0.12) 10 feet S of 11 MILE RD Crash ID: 6154164  
 Crash Date: 10/18/2005 Day: Tue Hour: 4pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 1 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0556150

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	start on rdwy	veh in transpt	none	none	none	failed to yeild	car	rtfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftfront

UD-10: 055683339

#13 Location: SB TOWN CENTER DR (0.12) 0 feet X of 11 MILE RD Crash ID: 6231085  
 Crash Date: 12/16/2005 Day: Fri Hour: 1pm Weather: snow Roadway: snowy Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: rr-end  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0568892

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	stop on road	cargo loss/shift	none	none	none	none	car	ctrrear
2	W	stop on road	loss of control	veh parked	none	none	unable to stop	car	ctrfront

UD-10: 055762420

#14 Location: TOWN CENTER (0.34) 450 feet S of CRESCENT Crash ID: 6239042  
 Crash Date: 01/06/2006 Day: Fri Hour: 10am Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: ss-same  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 061435

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	change lanes	veh in transpt	none	none	none	failed to yeild	van	rffront
2	S	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 061004789

#15 Location: TOWNCENTER DR (0.12) 5 feet N of 11 MILE RD Crash ID: 6325351  
 Crash Date: 04/24/2006 Day: Mon Hour: 1pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0626688

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	failed to yeild	van	ctrfront
2	N	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 061086945

#16 Location: S TOWNCENTER DR (0.43) 20 feet S of CRESCENT DR Crash ID: 6501976  
 Crash Date: 11/13/2006 Day: Mon Hour: 8am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 6 How: ss-opp  
 CVT: Novi Area: inter other HBD: N Drugs: N Complaint No: 0675966

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	right turn	veh in transpt	none	none	none	imprp turn	truck/bus	unknown
2	N	stop on road	veh in transpt	none	none	none	none	car	lftside

UD-10: 061270941

#17 Location: NB TOWN CENTER DR (0.12) 40 feet S of 11 MILE RD Crash ID: 6712978  
 Crash Date: 06/30/2007 Day: Sat Hour: 7pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0740322

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	left turn	curb	hwy traffic sign post	none	none	imprp turn	car	lftfront

UD-10: 075556139

#18 Location: TOWN CENTER (0.12) 15 feet E of ELEVEN MILE Crash ID: 6871023  
 Crash Date: 12/20/2007 Day: Thu Hour: 4pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0775058

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	start on rdwy	veh in transpt	none	none	none	failed to yeild	car	ctrfront
2	S	go straight	veh in transpt	none	none	none	none	car	rtfront

UD-10: 070428760

#19 Location: TOWN CENTER ST (0.12) 10 feet W of 11 MILE RD Crash ID: 6984431  
 Crash Date: 04/13/2008 Day: Sun Hour: 10am Weather: snow Roadway: wet Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 3 Inj 0: 0 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 80017253

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	go straight	veh in transpt	none	none	none	none	car	ctrfront
2	E	go straight	veh in transpt	none	none	none	failed to yeild	car	rtfront

UD-10: 080204744



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#20 Location: TOWN CENTER RD (0.28) 800 feet N of 11 MILE RD Crash ID: 7108336  
 Crash Date: 09/30/2008 Day: Tue Hour: 8pm Weather: cloudy Roadway: dry Light: dark/ld  
 Injures K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: ss-opp  
 CVT: Novi Area: straight HBD: Y Drugs: N Complaint No: 80052426

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	left of center	car	lftside
2	N	go straight	veh in transpt	none	none	none	none	car	lftside

UD-10: 080472562

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#21 Location: NB TOWNCENTER (0.01) 75 feet N of GRANDRIVER AVE Crash ID: 7200433  
 Crash Date: 12/19/2008 Day: Fri Hour: 9am Weather: snow Roadway: snowy Light: day  
 Injures K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: unknown  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 80069348

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	N	backing	veh in transpt	none	none	none	imprp backing	truck/bus	ctrrear
2	N	go straight	ran off road/r	veh in transpt	none	none	unknown	car	ctrfront

UD-10: 080669467

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#22 Location: TOWN CENTER (0.13) 60 feet N of 11 MILE RD Crash ID: 7301128  
 Crash Date: 04/20/2009 Day: Mon Hour: 4pm Weather: rain Roadway: wet Light: day  
 Injures K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 90024853

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	failed to yeild	car	lftfront
2	S	go straight	veh in transpt	none	none	none	none	van	ctrfront

UD-10: 090197922, 090197922

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**Crash Type**

Count	Type
0	uncoded
2	single
1	head-on
0	head-on/lt
12	angle
2	rr-end
0	rr-end/lt
0	rr-end/rt
1	ss-same
2	ss-opp
2	unknown
<b>Totals: 22</b>	

**Light Conditions**

Count	Type
0	uncoded
16	day
1	dawn
1	dusk
4	dark/lt
0	dark/unltd
0	unknown
<b>Totals: 22</b>	

**Weather**

Count	Type
0	uncoded
11	clear
6	cloudy
0	fog/smoke
1	rain
4	snow
0	wind
0	sleet/hail
0	unknown
<b>Totals: 22</b>	

**Road Condition**

Count	Type
0	uncoded
17	dry
2	wet
0	icy
3	snowy
0	muddy
0	slushy
0	debris
0	unknown
<b>Totals: 22</b>	

**Vehicle Type**

Count	Type
0	uncoded
34	car
0	other
2	truck/bus
4	van
1	pickup
2	sm truck
0	motorcycle
0	moped
0	go-cart
0	snowmobile
0	off-rd veh
<b>Totals: 43</b>	

**Crashes By Month**

Count	Type
2	January
0	February
0	March
3	April
1	May
1	June
2	July
2	August
3	September
2	October
1	November
5	December
<b>Totals: 22</b>	

**Hazardous Action**

Count	Type
19	none
1	speeding
0	imprp/no signal
2	imprp backing
1	unable to stop
0	other
3	unknown
0	reckls driving
0	negl driving
0	spd too slow
12	failed to yeild
1	disrgd traffic cntrl
0	wrong way
1	left of center
0	imprp passing
1	imprp lane use
2	imprp turn
<b>Totals: 43</b>	

**Unit Type**

Count	Type
0	uncoded
43	vehicle
0	pedestrian
0	bicyclist
0	engineer
<b>Totals: 43</b>	

Crash Severity

	FATAL	A	B	C	No Inj	Total
Persons	0	0	0	11	47	58
Crashes	0	0	0	7	15	22

Alcohol in Crashes

	FATAL	PI	PD	Total
Drinking	0	0	1	1
Not Drinking	0	7	14	21
Total	0	7	15	22

Crashes per Hour by Day

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Unknown	Total
12a - 1a	0	0	0	0	0	0	0	0	0
1a - 2a	0	0	0	0	0	0	0	0	0
2a - 3a	0	0	0	0	0	0	0	0	0
3a - 4a	0	0	0	0	0	0	0	0	0
4a - 5a	0	0	0	0	0	0	0	0	0
5a - 6a	0	0	0	0	0	0	0	0	0
6a - 7a	0	0	0	1	0	0	0	0	1
7a - 8a	0	0	0	0	0	0	0	0	0
8a - 9a	0	1	0	0	0	0	0	0	1
9a - 10a	0	0	0	0	0	1	0	0	1
10a - 11a	1	0	0	0	0	1	0	0	2
11a - 12p	1	0	0	0	0	1	0	0	2
12p - 1p	0	0	0	0	1	0	0	0	1
1p - 2p	0	2	0	0	0	1	0	0	3
2p - 3p	0	0	0	0	0	0	0	0	0
3p - 4p	0	0	0	1	0	1	0	0	2
4p - 5p	0	1	1	1	1	0	0	0	4
5p - 6p	0	0	0	0	0	0	1	0	1
6p - 7p	0	0	0	0	1	0	0	0	1
7p - 8p	0	0	0	0	0	0	1	0	1
8p - 9p	0	0	1	0	0	0	0	0	1
9p - 10p	0	1	0	0	0	0	0	0	1
10p - 11p	0	0	0	0	0	0	0	0	0
11p - 12a	0	0	0	0	0	0	0	0	0
Unknown Time	0	0	0	0	0	0	0	0	0
Total	2	3	1	1	1	2	1	0	11





**Ingersol Dr, from Crescent Blvd to Crowe Dr**  
 Request #: 0004152 Printed By: Dominique Matich Printed On: 5/17/2010

FROM_DATE:	1/1/2004
TO_DATE:	12/31/2009

PR/MP	PR 1882208 FROM MP 0.323 TO MP 0.418 [Ingersol Dr & Crowe Dr to Ingersol Dr & Crescent Blvd]
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#1 Location: N INGERSOL (0.40) 100 feet S of CRESCENE Crash ID: 5540802  
 Crash Date: 01/09/2004 Day: Fri Hour: 1pm Weather: cloudy Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No:

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	left turn	veh in transpt	none	none	none	failed to yeild	sm truck	ltfront
2	N	go straight	veh in transpt	none	none	none	none	sm truck	rtfront

UD-10: 041042330

#2 Location: INGERSOL (0.32) 0 feet X of CROWE Crash ID: 5687847  
 Crash Date: 06/29/2004 Day: Tue Hour: 2pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 200435144

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1		left turn	veh in transpt	none	none	none	imprp turn	car	ctrfront
2	S	go straight	veh in transpt	none	none	none	unknown	car	rtrear

UD-10: 041194228

#3 Location: INGERSOL (0.32) 5 feet N of CROWE Crash ID: 6231029  
 Crash Date: 12/15/2005 Day: Thu Hour: 12pm Weather: snow Roadway: snowy Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: angle  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0568685

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	go straight	veh in transpt	none	none	none	unable to stop	car	ctrfront
2	W	go straight	veh in transpt	none	none	none	none	car	ctrear

UD-10: 055762364

#4 Location: S INGERSOL DR (0.40) 100 feet S of CRESCENT BLVD Crash ID: 6351424  
 Crash Date: 05/27/2006 Day: Sat Hour: 1pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 1 How: single  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 0634923

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	S	avoid ped	animal	none	none	none	none	van	ctrfront

UD-10: 061113833

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#5 Location: INGERSOL DR (0.32) 1 feet S of CROWE DR								Crash ID: 6803227	
Crash Date: 10/20/2007	Day: Sat	Hour: 1pm	Weather: clear	Roadway: dry	Light: day				
Injuries K: 0	Inj A: 0	Inj B: 0	Inj C: 0	Inj 0: 3	How: angle				
CVT: Novi	Area: straight		HBD: N	Drugs: N	Complaint No: 0763251				

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Unit No	Veh Dir	Action	Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	left turn		veh in transpt	none	none	none	failed to yeild	pickup	ctrfront
2		go straight		veh in transpt	none	none	none	none	car	rtrear

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UD-10: [070286424](#)

**Crash Type**

Count	Type
0	uncoded
1	single
0	head-on
0	head-on/lt
4	angle
0	rr-end
0	rr-end/lt
0	rr-end/rt
0	ss-same
0	ss-opp
0	unknown
<b>Totals: 5</b>	

**Light Conditions**

Count	Type
0	uncoded
5	day
0	dawn
0	dusk
0	dark/lt
0	dark/unltd
0	unknown
<b>Total: 5</b>	

**Weather**

Count	Type
0	uncoded
3	clear
1	cloudy
0	fog/smoke
0	rain
1	snow
0	wind
0	sleet/hail
0	unknown
<b>Totals: 5</b>	

**Road Condition**

Count	Type
0	uncoded
4	dry
0	wet
0	icy
1	snowy
0	muddy
0	slushy
0	debris
0	unknown
<b>Totals: 5</b>	

**Vehicle Type**

Count	Type
0	uncoded
5	car
0	other
0	truck/bus
1	van
1	pickup
2	sm truck
0	motorcycle
0	moped
0	go-cart
0	snowmobile
0	off-rd veh
<b>Totals: 9</b>	

**Crashes By Month**

Count	Type
1	January
0	February
0	March
0	April
1	May
1	June
0	July
0	August
0	September
1	October
0	November
1	December
<b>Totals: 5</b>	

**Hazardous Action**

Count	Type
4	none
0	speeding
0	imprp/no signal
0	imprp backing
1	unable to stop
0	other
1	unknown
0	reckls driving
0	negl driving
0	spd too slow
2	failed to yeild
0	disrgd traffic cntrl
0	wrong way
0	left of center
0	imprp passing
0	imprp lane use
1	imprp turn
<b>Totals: 9</b>	

**Unit Type**

Count	Type
0	uncoded
9	vehicle
0	pedestrian
0	bicyclist
0	engineer
<b>Totals: 9</b>	



Crash Severity

	FATAL	A	B	C	No Inj	Total
Persons	0	0	0	0	10	10
Crashes	0	0	0	0	5	5

Alcohol in Crashes

	FATAL	PI	PD	Total
Drinking	0	0	0	0
Not Drinking	0	0	5	5
Total	0	0	5	5

Crashes per Hour by Day

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Unknown	Total
12a - 1a	0	0	0	0	0	0	0	0	0
1a - 2a	0	0	0	0	0	0	0	0	0
2a - 3a	0	0	0	0	0	0	0	0	0
3a - 4a	0	0	0	0	0	0	0	0	0
4a - 5a	0	0	0	0	0	0	0	0	0
5a - 6a	0	0	0	0	0	0	0	0	0
6a - 7a	0	0	0	0	0	0	0	0	0
7a - 8a	0	0	0	0	0	0	0	0	0
8a - 9a	0	0	0	0	0	0	0	0	0
9a - 10a	0	0	0	0	0	0	0	0	0
10a - 11a	0	0	0	0	0	0	0	0	0
11a - 12p	0	0	0	0	0	0	0	0	0
12p - 1p	0	0	0	0	1	0	0	0	1
1p - 2p	0	0	0	0	0	1	2	0	3
2p - 3p	0	0	1	0	0	0	0	0	1
3p - 4p	0	0	0	0	0	0	0	0	0
4p - 5p	0	0	0	0	0	0	0	0	0
5p - 6p	0	0	0	0	0	0	0	0	0
6p - 7p	0	0	0	0	0	0	0	0	0
7p - 8p	0	0	0	0	0	0	0	0	0
8p - 9p	0	0	0	0	0	0	0	0	0
9p - 10p	0	0	0	0	0	0	0	0	0
10p - 11p	0	0	0	0	0	0	0	0	0
11p - 12a	0	0	0	0	0	0	0	0	0
Unknown Time	0	0	0	0	0	0	0	0	0
Total	0	0	1	0	1	1	2	0	5



**Crowe Dr, from Novi Rd to Ingersol Dr**  
 Request #: 0004153 Printed By: Dominique Matich Printed On: 5/17/2010

FROM_DATE:	1/1/2004
TO_DATE:	12/31/2009

PR/MP	PR 1882210 FROM MP 0 TO MP 0.075 [Crowe Dr & Ingersol Dr to Crowe Dr & Novi Rd]
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#1 Location: W CROWE (0.07) 5 feet E of NOVI Crash ID: 6336087  
 Crash Date: 05/08/2006 Day: Mon Hour: 5pm Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 3 How: rr-end  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 0629924

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	stop on road	veh in transpt	none	none	none	none	car	ctrrear
2	W	go straight	veh in transpt	none	none	none	disrgd traffic cntrl	car	ctrfront

UD-10: 061097978

#2 Location: CROWE DR (0.07) 10 feet E of NOVI RD Crash ID: 6927753  
 Crash Date: 02/13/2008 Day: Wed Hour: 2pm Weather: clear Roadway: wet Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 80007330

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	slow/stop on rd	veh in transpt	none	none	none	unable to stop	pickup	lftfront
2	W	slow/stop on rd	veh in transpt	none	none	none	none	car	rtrear

UD-10: 080084915

#3 Location: CROWE DR (0.08) 10 feet W of NOVI RD Crash ID: 7077426  
 Crash Date: 08/20/2008 Day: Wed Hour: 9pm Weather: unknown Roadway: unknown Light: unknown  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 1 Inj 0: 0 How: single  
 CVT: Novi Area: w/i intersection HBD: N Drugs: N Complaint No: 80043724

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	W	start on rdwy	bicyclist	none	none	none	none	car	ctrfront
2	S	crossing at inter	veh in transpt	none	none	none	unknown	uncoded	

UD-10: 080404868

#4 Location: CROWE DR (0.08) 2 feet E of NOVI Crash ID: 7377728  
 Crash Date: 08/01/2009 Day: Sat Hour: 11am Weather: clear Roadway: dry Light: day  
 Injuries K: 0 Inj A: 0 Inj B: 0 Inj C: 0 Inj 0: 2 How: rr-end  
 CVT: Novi Area: straight HBD: N Drugs: N Complaint No: 090049628

Unit No	Veh Dir	Action Prior	Event 1	Event 2	Event 3	Event 4	Haz Action	Veh Type	Damage
1	E	go straight	veh in transpt	none	none	none	unknown	pickup	ctrfront
2	E	stop on road	veh in transpt	none	none	none	none	car	ctrrear

UD-10: 090369620





**Crash Type**

Count	Type
0	uncoded
1	single
0	head-on
0	head-on/lt
0	angle
3	rr-end
0	rr-end/ll
0	rr-end/rt
0	ss-same
0	ss-opp
0	unknown
Total: 5	

**Light Conditions**

Count	Type
0	uncoded
3	day
0	dawn
0	dusk
0	dark/ltg
0	dark/unltd
1	unknown
Total: 4	

**Weather**

Count	Type
0	uncoded
3	clear
0	cloudy
0	fog/smoke
0	rain
0	snow
0	wind
0	sleet/hail
1	unknown
Total: 4	

**Road Condition**

Count	Type
0	uncoded
2	dry
1	wet
0	icy
0	snowy
0	muddy
0	slushy
0	debris
1	unknown
Total: 4	

**Vehicle Type**

Count	Type
1	uncoded
5	car
0	other
0	truck/bus
0	van
2	pickup
0	sm truck
0	motorcycle
0	moped
0	go-cart
0	snowmobile
0	off-rd veh
Total: 8	

**Crashes By Month**

Count	Type
0	January
1	February
0	March
0	April
1	May
0	June
0	July
2	August
0	September
0	October
0	November
0	December
Total: 4	

**Hazardous Action**

Count	Type
4	none
0	speeding
0	imprp/no signal
0	imprp backing
1	unable to stop
0	other
2	unknown
0	reckls driving
0	negl driving
0	spd too slow
0	failed to yeild
1	disrgd traffic cntrl
0	wrong way
0	left of center
0	imprp passing
0	imprp lane use
0	imprp turn
Total: 8	

**Unit Type**

Count	Type
0	uncoded
7	vehicle
0	pedestrian
1	bicyclist
0	engineer
Total: 8	

Crash Severity

	FATAL	A	B	C	No Inj	Total
Persons	0	0	0	1	7	8
Crashes	0	0	0	1	3	4

Alcohol in Crashes

	FATAL	PI	PD	Total
Drinking	0	0	0	0
Not Drinking	0	1	3	4
Total	0	1	3	4

Crashes per Hour by Day

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Unknown	Total
12a - 1a	0	0	0	0	0	0	0	0	0
1a - 2a	0	0	0	0	0	0	0	0	0
2a - 3a	0	0	0	0	0	0	0	0	0
3a - 4a	0	0	0	0	0	0	0	0	0
4a - 5a	0	0	0	0	0	0	0	0	0
5a - 6a	0	0	0	0	0	0	0	0	0
6a - 7a	0	0	0	0	0	0	0	0	0
7a - 8a	0	0	0	0	0	0	0	0	0
8a - 9a	0	0	0	0	0	0	0	0	0
9a - 10a	0	0	0	0	0	0	0	0	0
10a - 11a	0	0	0	0	0	0	0	0	0
11a - 12p	0	0	0	0	0	0	1	0	1
12p - 1p	0	0	0	0	0	0	0	0	0
1p - 2p	0	0	0	0	0	0	0	0	0
2p - 3p	0	0	0	1	0	0	0	0	1
3p - 4p	0	0	0	0	0	0	0	0	0
4p - 5p	0	0	0	0	0	0	0	0	0
5p - 6p	0	1	0	0	0	0	0	0	1
6p - 7p	0	0	0	0	0	0	0	0	0
7p - 8p	0	0	0	0	0	0	0	0	0
8p - 9p	0	0	0	0	0	0	0	0	0
9p - 10p	0	0	0	1	0	0	0	0	1
10p - 11p	0	0	0	0	0	0	0	0	0
11p - 12a	0	0	0	0	0	0	0	0	0
Unknown Time	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	1	0	3