

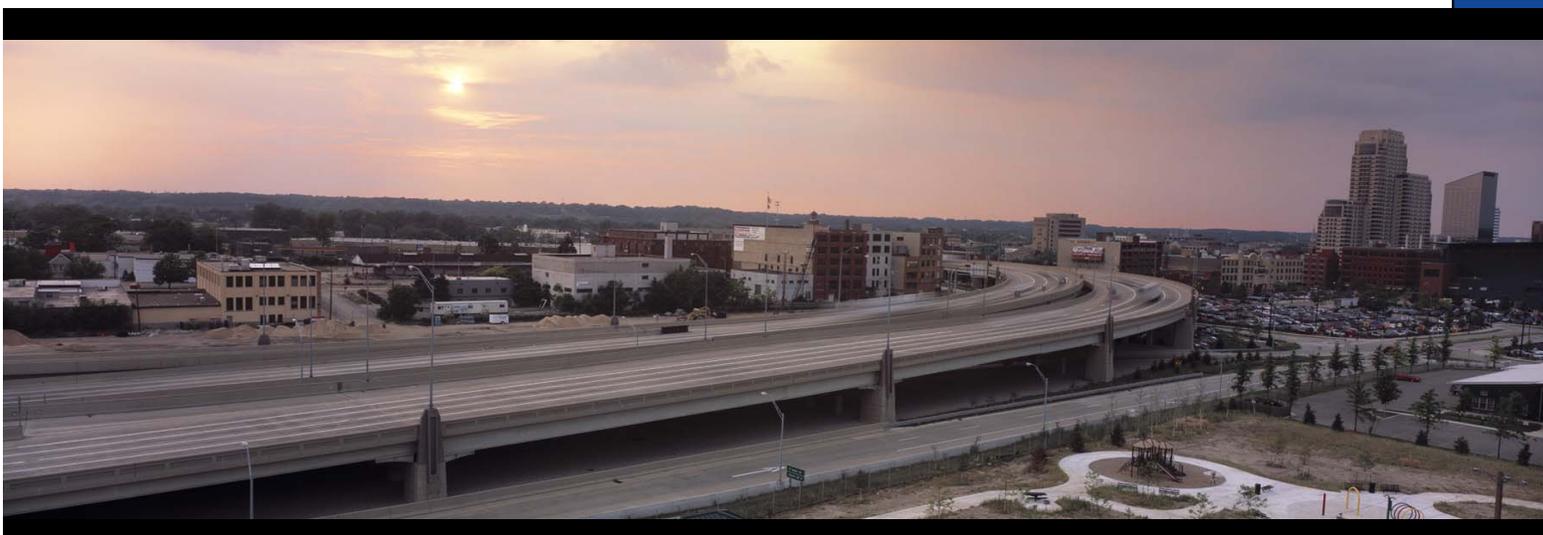
# West Michigan Traffic Management Center

Serving Motorists on West Michigan Freeways

[www.michigan.gov/its](http://www.michigan.gov/its)

[www.michigan.gov/drive](http://www.michigan.gov/drive)

May 2010



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**West Michigan TMC Control Room**  
E-mail: [MDOT-GR-TRAFFOPS@michigan.gov](mailto:MDOT-GR-TRAFFOPS@michigan.gov)  
Main: 616-451-8329  
Cell: 616-262-6066  
Fax: 616-774-9101

## In the Spotlight



The number of incidents in May was only marginally greater than in April but resulted in more lane, ramp, and freeway closures. However, incident notifications increased by approximately 50 percent between April and May, with 25 notifications sent.

Traffic continued to adjust to the detour routes adjacent to "The Fix on I-196" construction area. Greater-than-normal congestion has been observed on US-131 between the S-curve and I-196, but also on I-96 between US-131 and Plainfield Avenue, which is part of the posted detour route. Control room operators monitor these areas daily and use the Dynamic Messages Signs to inform motorists of congestion.

Based on an analysis of vehicle detector data, traffic volumes on US-131 have increased due to the I-196 closure, especially north of downtown Grand Rapids. Traffic volumes on I-196 have decreased, with traffic volumes east of downtown decreasing significantly more than west of downtown.

Several control room operators and Michigan Department of Transportation personnel attended a four-hour training course on hazardous material awareness during May. The training provided operators with the knowledge to better analyze incidents for possible hazardous material issues and communicate those issues to first responders.

Compiled by:  
**URS**

## Control Room Hours of Operation

Time Period	Days	Hours
October - April	Monday - Friday	6 a.m. - 8 p.m.
	Saturday - Sunday	As needed
May - September	Monday - Thursday	6 a.m. - 8 p.m.
	Friday	6 a.m. - 9 p.m.
	Saturday	Noon - 6 p.m.
	Sunday	4 - 8 p.m.
Special Events	All	As needed
Holidays and Holiday Weekends	New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas	As needed

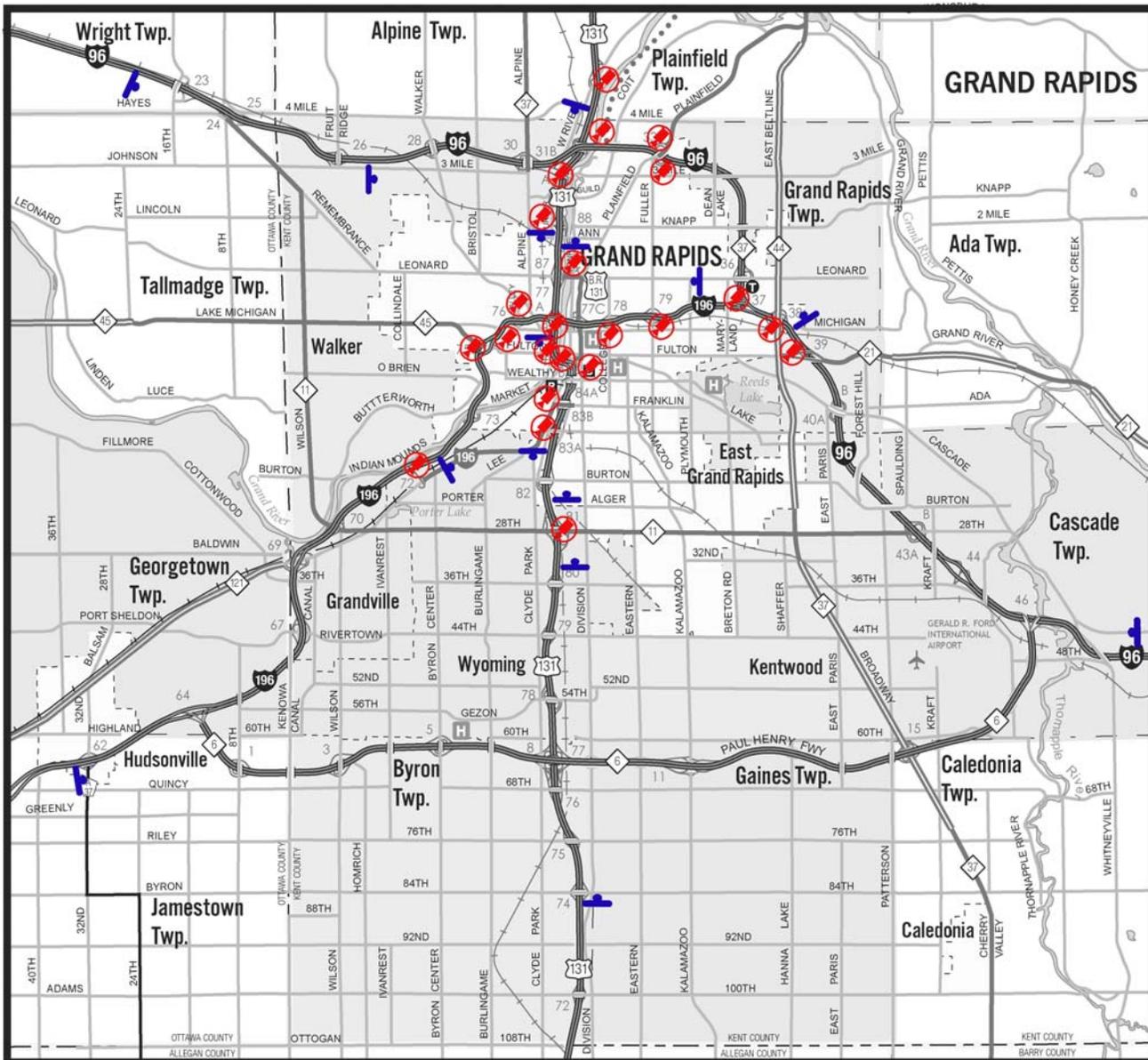
## Control Room Contact Information

E-mail: MDOT-GR-TRAFFOPS@michigan.gov  
 Main: 616-451-8329  
 Cell: 616-262-6066  
 Fax: 616-774-9101

### PLEASE NOTE:

The following report is limited to data collected within the ITS device coverage area, during the hours of operation for the control room.

## ITS Device Locations and Coverage Area



**Key:**  Closed-circuit Television Camera  
 Dynamic Message Sign

# Summary

Data Key

May 2010

## Communications Activity



Operators log all incoming and outgoing control room communications, engaging various incident responders and stakeholders.

### Total Communication

**Calls: 191**  
**E-mails: 150**

## Quality Assurance/Quality Control



Quality assurance and quality control audit of format and content for incident notification communication and media traffic reporting.

### Incident Notification

**Format Correct 100.0%**  
**Content Correct 96.0%**

## Unplanned Incidents



Operators log information about each unplanned incident including date/time, location, traffic impact, duration, and associated traveler information.

### Total Incidents

**80**

## Construction Activity



Operators maintain a list of ongoing construction projects and contacts for these projects. This activity also includes maintenance operations.

### Incidents Occurring in Construction Zones

**2**

## Daily Shift Report



Operators track maintenance issues for all Intelligent Transportation Systems (ITS) equipment, including Closed-circuit Television (CCTV) cameras, Dynamic Message Signs (DMS) and Variable Speed Signs (VSS).

### System Availability

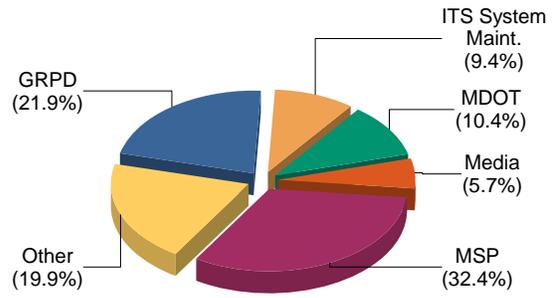
**CCTV: 95%**  
**DMS: 89%**  
**VSS: 99%**

## Calls and E-mails by Type



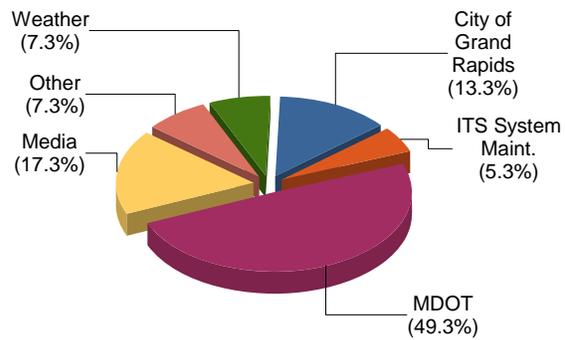
Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	0	0	20	0	20
City of Wyoming	0	0	0	0	0	0
Grand Rapids Police Department	9	33	42	0	0	0
ITS System Maintenance	6	12	18	8	0	8
Kent County Road Commission	0	0	0	0	0	0
Kent County Sheriff	0	0	0	0	0	0
MDOT, Construction	6	3	9	44	0	44
MDOT, Maintenance	0	5	5	11	0	11
MDOT, Other	0	1	1	0	4	4
MDOT, Traffic/ITS	4	1	5	14	1	15
Media	5	6	11	0	26	26
Michigan State Police	6	56	62	0	0	0
Other	26	12	38	7	4	11
Weather	0	0	0	11	0	11
<b>Month Total</b>	<b>62</b>	<b>129</b>	<b>191</b>	<b>115</b>	<b>35</b>	<b>150</b>

## Calls by Type



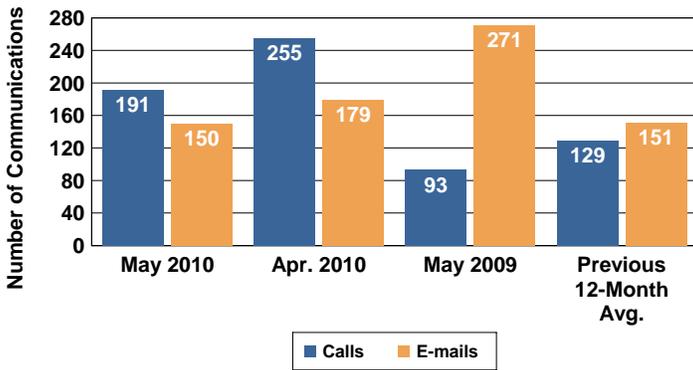
Total Calls: 191

## E-mails by Type

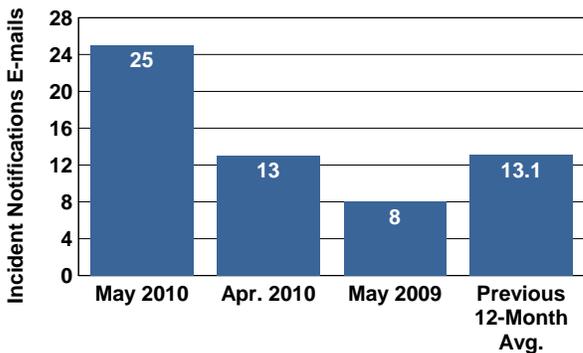


Total E-mails: 150

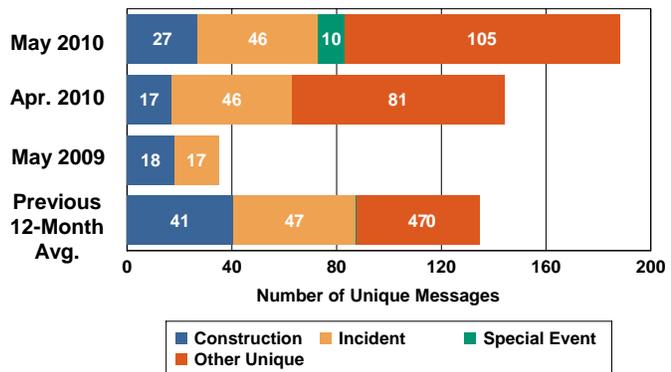
## Communication History



## Incident Notification\* History



## DMS and VSS Messages by Type

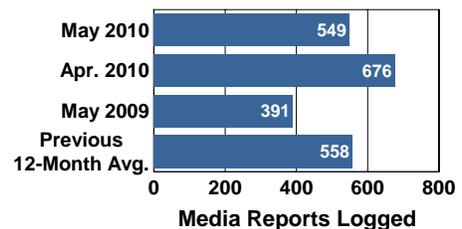


## Incident Notification\* Communication Accuracy



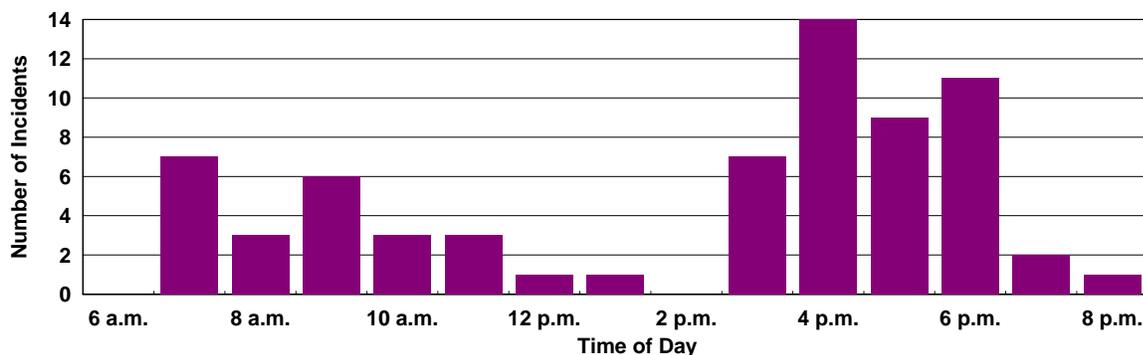
	May 2010	Apr. 2010	May 2009	Previous 12 Months
Format Correct	100.0%	100.0%	100.0%	95.5%
Content Correct	96.0%	100.0%	87.5%	93.6%

## Media Audits

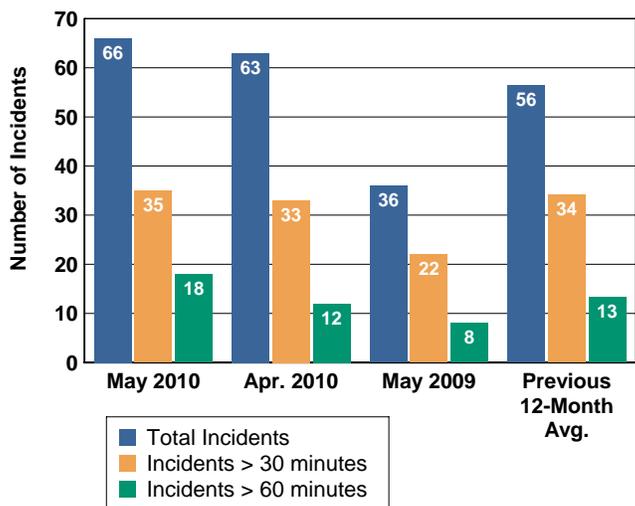


\* Incident Notification e-mails are issued for high-impact incidents with an expected duration of 15 minutes or greater. To subscribe to this list, please send an e-mail to [MDOT-GR-TRAFFOPS@michigan.gov](mailto:MDOT-GR-TRAFFOPS@michigan.gov).

## Total of Unplanned Incidents per Weekday Hour

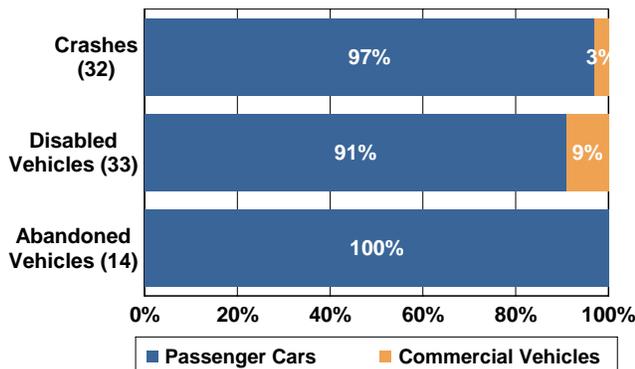


## Incident Duration History\*



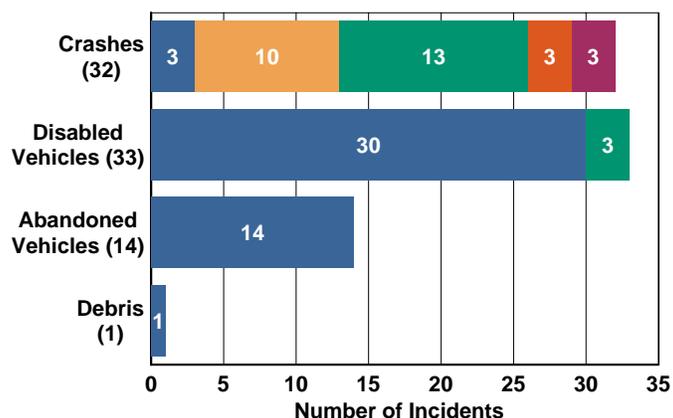
\*Incident Duration History excludes abandoned vehicles.

## Vehicle Composition of Incidents\*

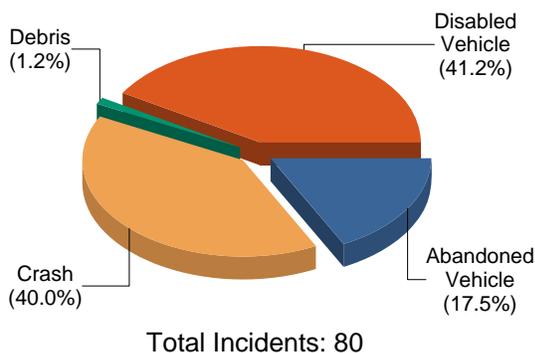


\*Vehicle Composition of Incidents excludes incidents where vehicle types were not identified.

## Traffic Impacts by Type



## Incident Managed by Type



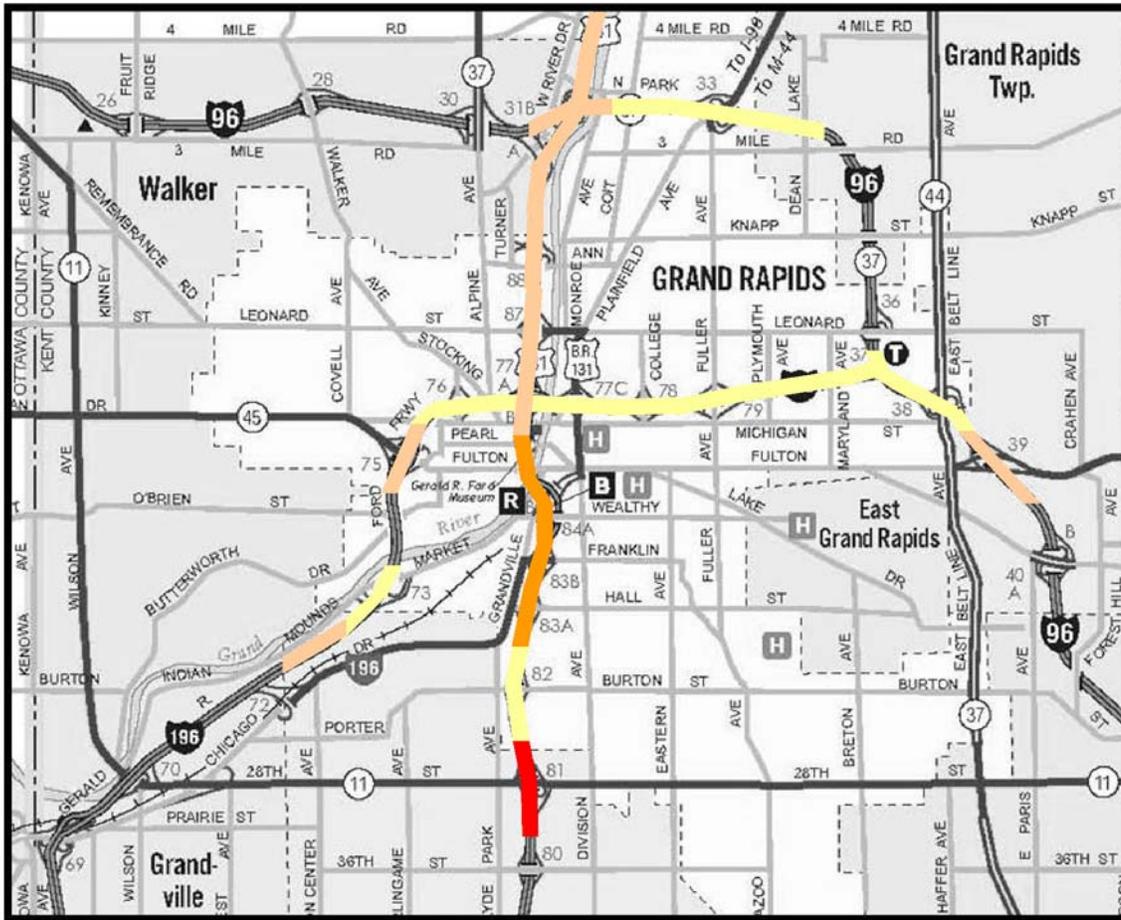
## Most Utilized DMS



1. US-131 NB @ 28th St. (35)
2. US-131 NB @ 36th St. (24)
3. US-131 SB @ West River Dr. (15)



# Incident Density and Hot Spots Map



**Segments:**  0 - 1     2 - 5     6 - 9     > 9 (incidents/mile)

**Hot Spots:** None.

Incident Management



## High-impact Unplanned Incident Activity\*



Incident Impact	May 2010	Apr. 2010	May 2009	Previous 12-Month Avg.
Lane Closure	16	13	8	17.6
Ramp Closure	3	1	-	0.8
Freeway Closure	3	2	-	0.3

\*High-impact Unplanned Incident Activity includes unplanned incidents resulting in closures.

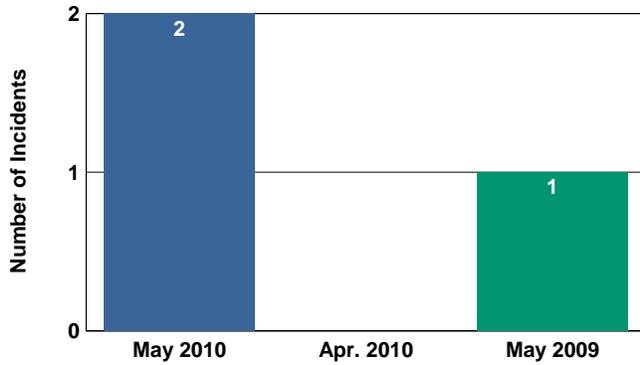
## Unplanned Incidents by Roadway



Freeway	May 2010		Apr. 2010		May 2009		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (4.5 mi.)*	17	3.8	8	1.8	3	0.7	7.6	1.7
I-196 (8.5 mi.)*	7	0.8	9	1.1	14	1.6	16.7	2.0
US-131 (11 mi.)*	52	4.7	50	4.5	17	1.5	34.3	3.1
<b>Month Total</b>	<b>76</b>	<b>3.2</b>	<b>67</b>	<b>2.8</b>	<b>34</b>	<b>1.4</b>	<b>58.6</b>	<b>2.4</b>

\* Reflects roadway mileage within the current WMTMC camera coverage area.

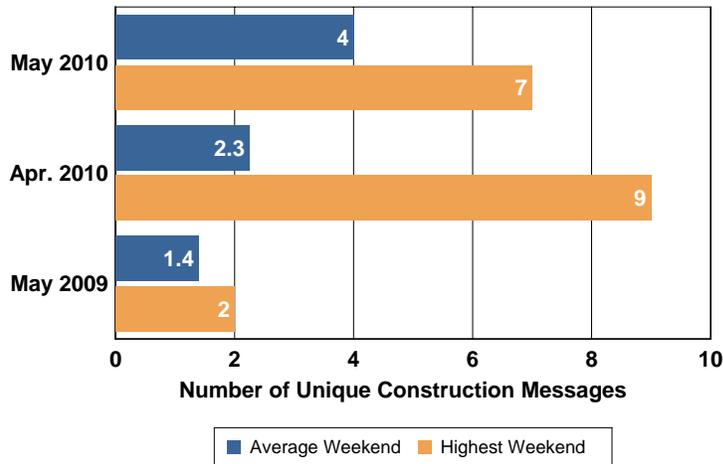
## Incidents Occurring in Construction Zones



### Construction Zone Incident Details:

During the month of May, there were two crashes that were identified by operators within "The Fix on I-196" construction zone. On May 17, a single vehicle crash occurred on I-196 just east of Fuller Avenue, resulting in a one-and-a-half hour freeway closure. On May 20, a multi-vehicle crash occurred on northbound US-131 at I-196, resulting in a three-hour freeway closure.

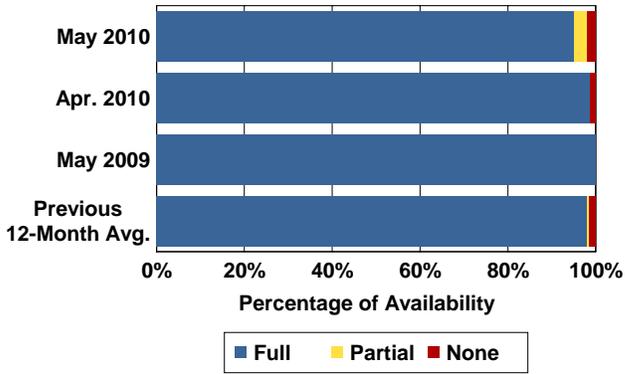
## Weekend\* Construction DMS Message Activity



\* Friday, Saturday and Sunday.



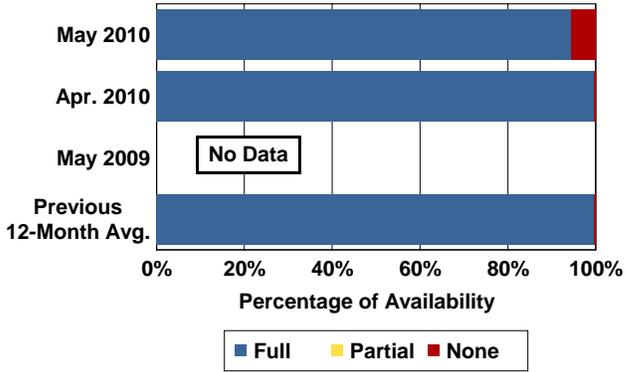
## Overall CCTV Camera Availability



## Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. US-131 @ Leonard St.	79%	21%	-
2. I-196 @ Chicago Dr.	82%	16%	2%
3. I-196 @ Lake Michigan Dr.	82%	16%	2%
4. I-196 @ Lane Ave.	82%	16%	2%
5. I-96 @ E. Beltline Ave.	88%	-	12%
6. I-96 Conn. to US-131	92%	-	8%
7. US-131 @ West River Dr.	94%	6%	-

## Overall Detector Availability

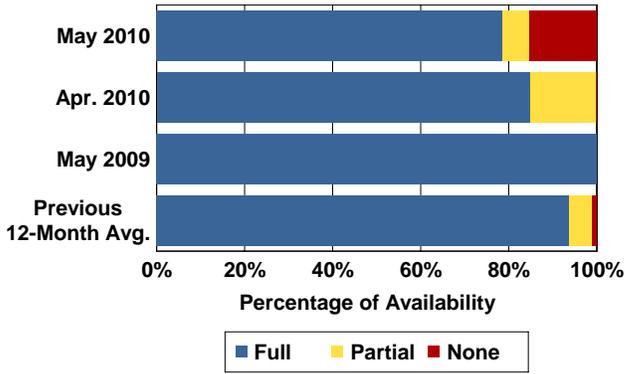


## Individual Detector Availability

Vehicle Detectors Below 95% Availability			
Location	Full	Partial	None
1. DS 116	-	-	100%*
2. DS 119	-	-	100%*
3. DS 115	75%	-	25%
4. DS 211	90%	-	10%

\* Detector Sites 116 and 119 were unavailable during May due to construction on I-196.

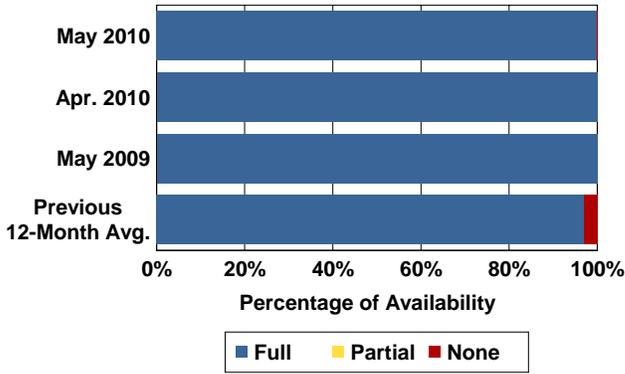
## Overall DMS Availability



## Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. US-131 NB @ 28th St.	18%	82%	-
2. US-131 NB @ 36th St.	70%	-	30%
3. I-96 EB @ Fruitridge Ave.	91%	-	9%

## Overall VSS Availability



## Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
None.			

