

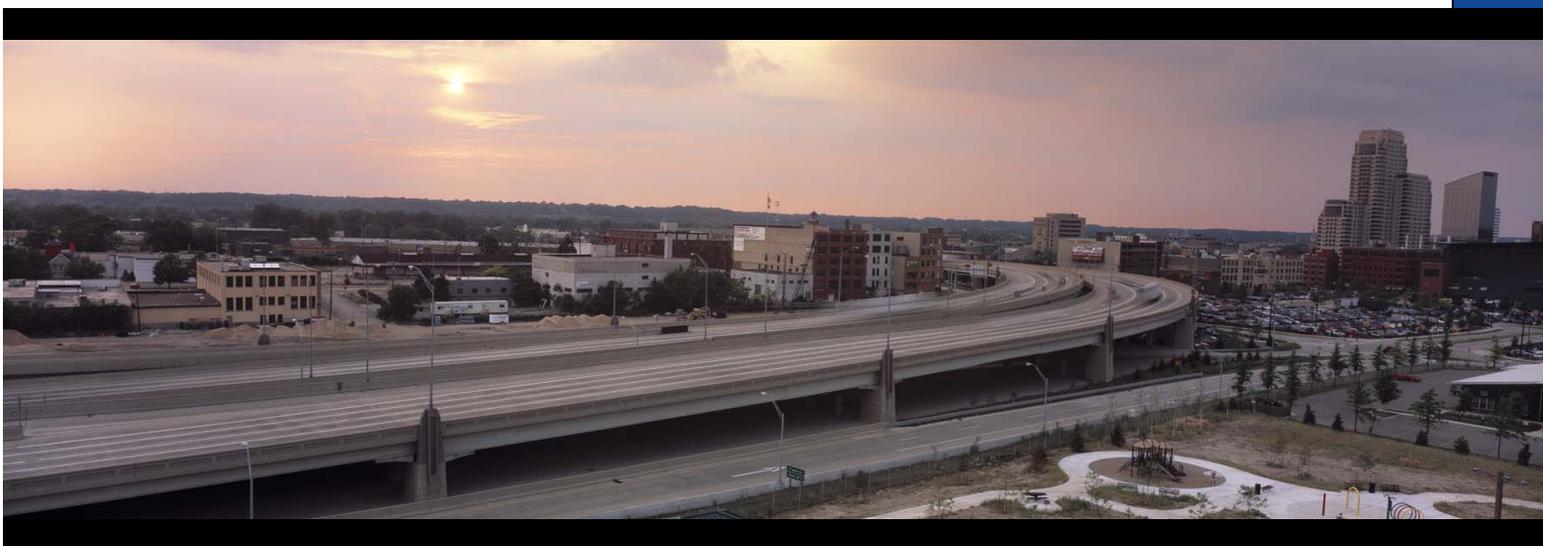
# West Michigan Traffic Management Center

Serving Motorists on West Michigan Freeways

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

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

June 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 unplanned incidents observed in June by the WMTMC control room operators (131 incidents) was approximately double the number observed in May (74 incidents) as well as the 12-month average (62 incidents). Over 100 incidents were recorded on US-131 in the WMTMC coverage area (9.3 incidents per mile), which is nearly three times the previous 12-month average. A recent study of the traffic volumes on US-131 showed that the volumes have increased between 2 and 34 percent due to "The Fix on I-196".

Unplanned incidents resulted in 24 lane closures in June, an increase from 16 lane closures in May. The increased number of unplanned incidents resulted in increased communication with Michigan State Police (MSP), as noted below.

Phone-call communication in June was more than two times higher than in May. The majority of the increased phone calls were due to communication with Intelligent Transportation Systems (ITS) maintenance personnel, MDOT construction personnel, and MSP. The increased communication with ITS maintenance personnel coincides with the high number of ITS devices that had periods of partial or no availability during the month of June and the increased number of devices in service and under construction.

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

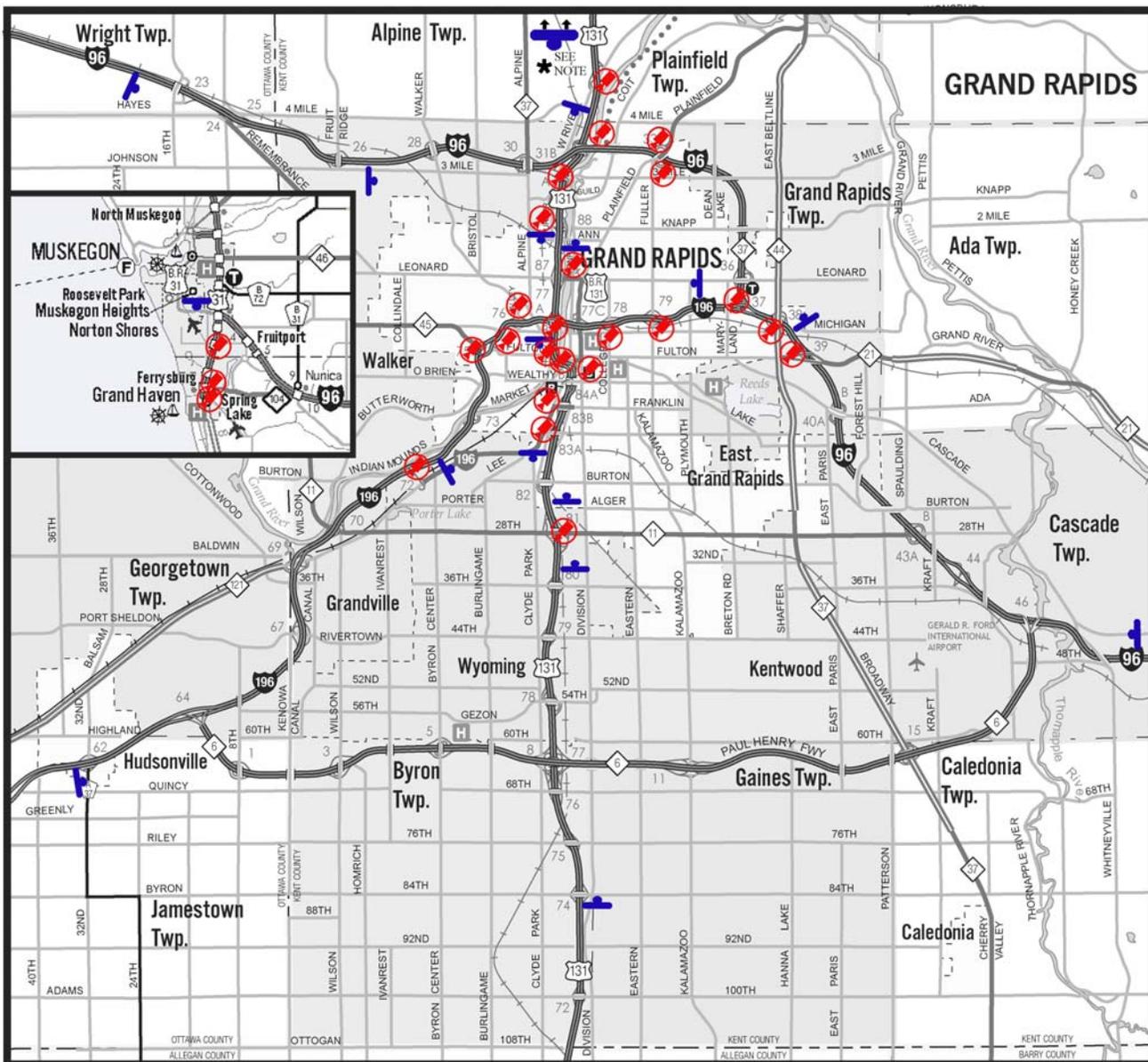
## Control Room Contact Information

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



\* DMS on South US-131 at Rockford Rest Area

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

# Summary

## Data Key

## June 2010

### Communications Activity



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

### Total Communication

**Calls: 418**  
**E-mails: 211**

### 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 87.5%**

### Unplanned Incidents



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

### Total Incidents

**134**

### 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

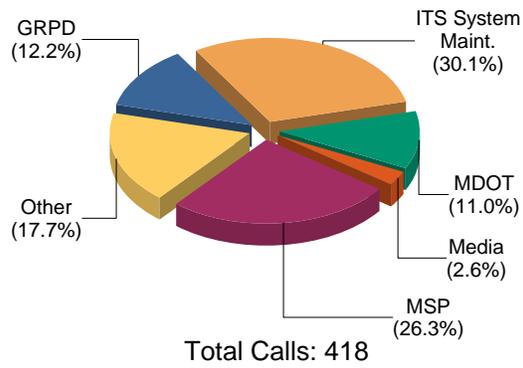
**CCTV: 92%**  
**DMS: 75%**  
**VSS: 97%**

## Calls and E-mails by Type

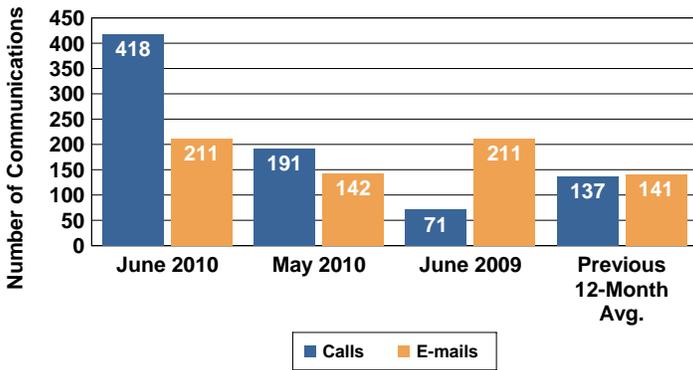


Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	0	0	34	0	34
City of Wyoming	0	0	0	0	0	0
Grand Rapids Police Department	6	45	51	0	0	0
ITS System Maintenance	97	29	126	3	1	4
Kent County Road Commission	1	3	4	0	0	0
Kent County Sheriff	0	0	0	0	0	0
MDOT, Construction	17	15	32	75	0	75
MDOT, Maintenance	1	5	6	19	0	19
MDOT, Other	3	2	5	0	0	0
MDOT, Traffic/ITS	3	0	3	15	2	17
Media	7	4	11	0	16	16
Michigan State Police	16	94	110	0	0	0
Other	50	20	70	15	3	18
Weather	0	0	0	28	0	28
<b>Month Total</b>	<b>201</b>	<b>217</b>	<b>418</b>	<b>189</b>	<b>22</b>	<b>211</b>

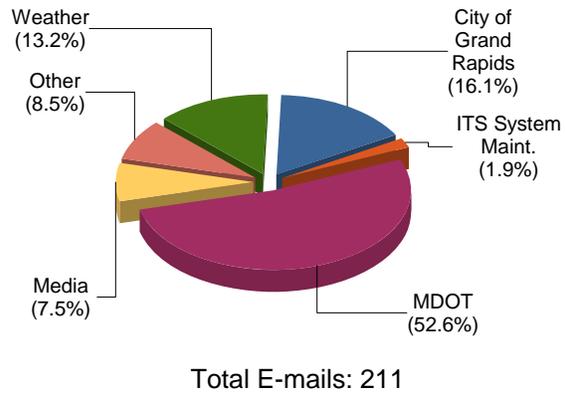
## Calls by Type



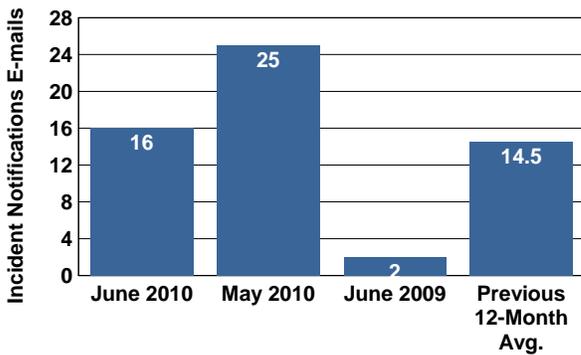
## Communication History



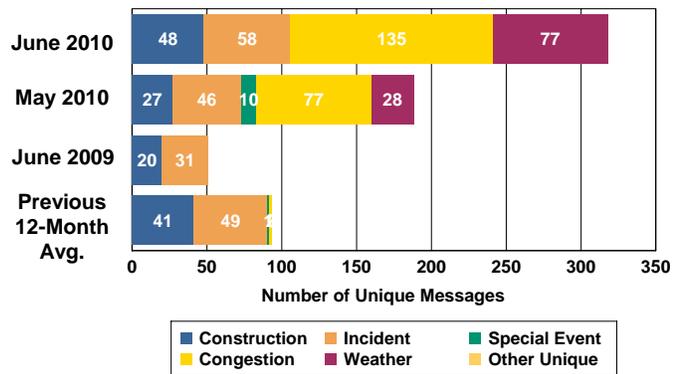
## E-mails by Type



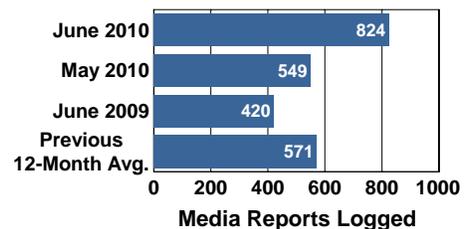
## Incident Notification\* History



## DMS and VSS Messages by Type



## Media Audits



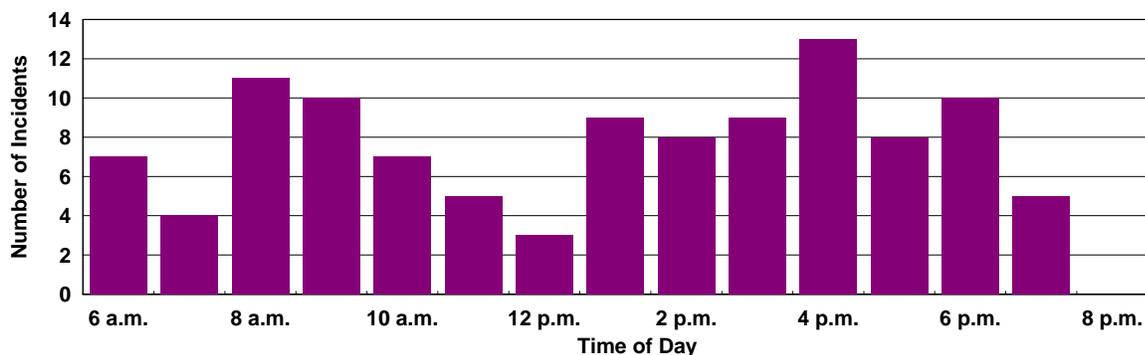
## Incident Notification\* Communication Accuracy



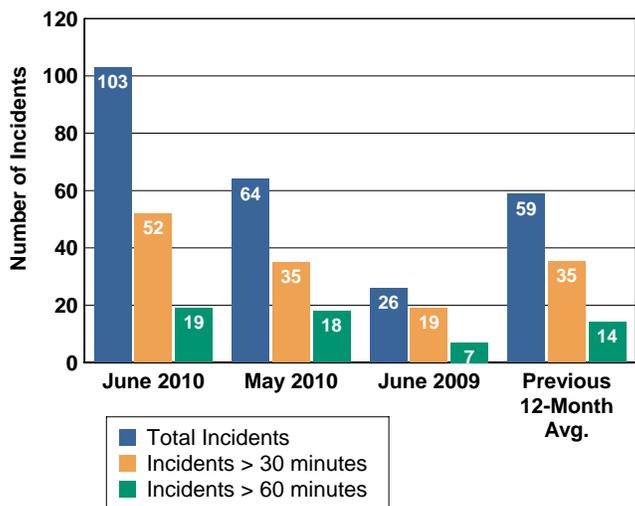
	June 2010	May 2010	June 2009	Previous 12 Months
Format Correct	100.0%	100.0%	100.0%	96.0%
Content Correct	87.5%	96.0%	100.0%	94.3%

\*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

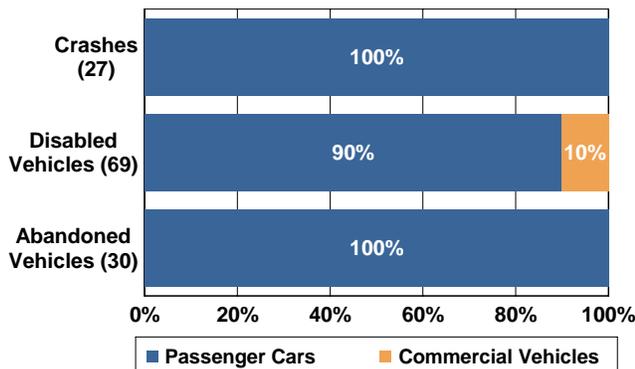


## Incident Duration History\*



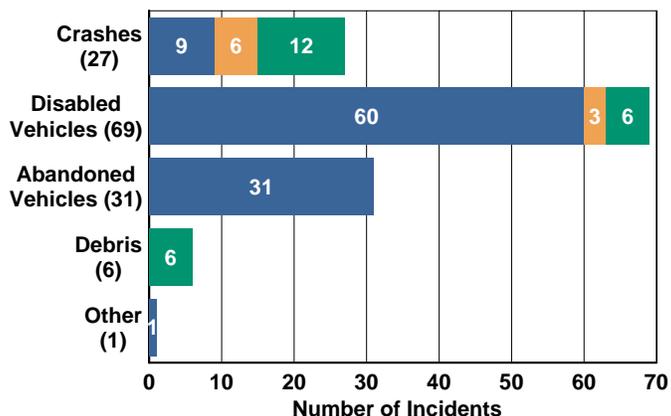
\*Incident Duration History excludes abandoned vehicles.

## Vehicle Composition of Incidents\*

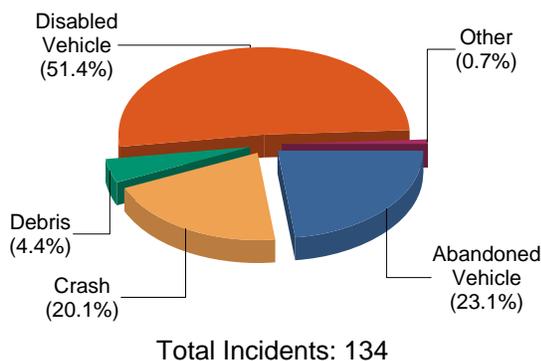


\*Vehicle Composition of Incidents excludes incidents where vehicle types were not identified.

## Traffic Impacts by Type



## Incident Managed by Type



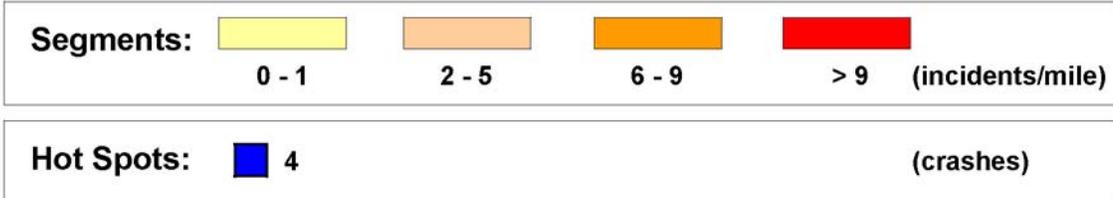
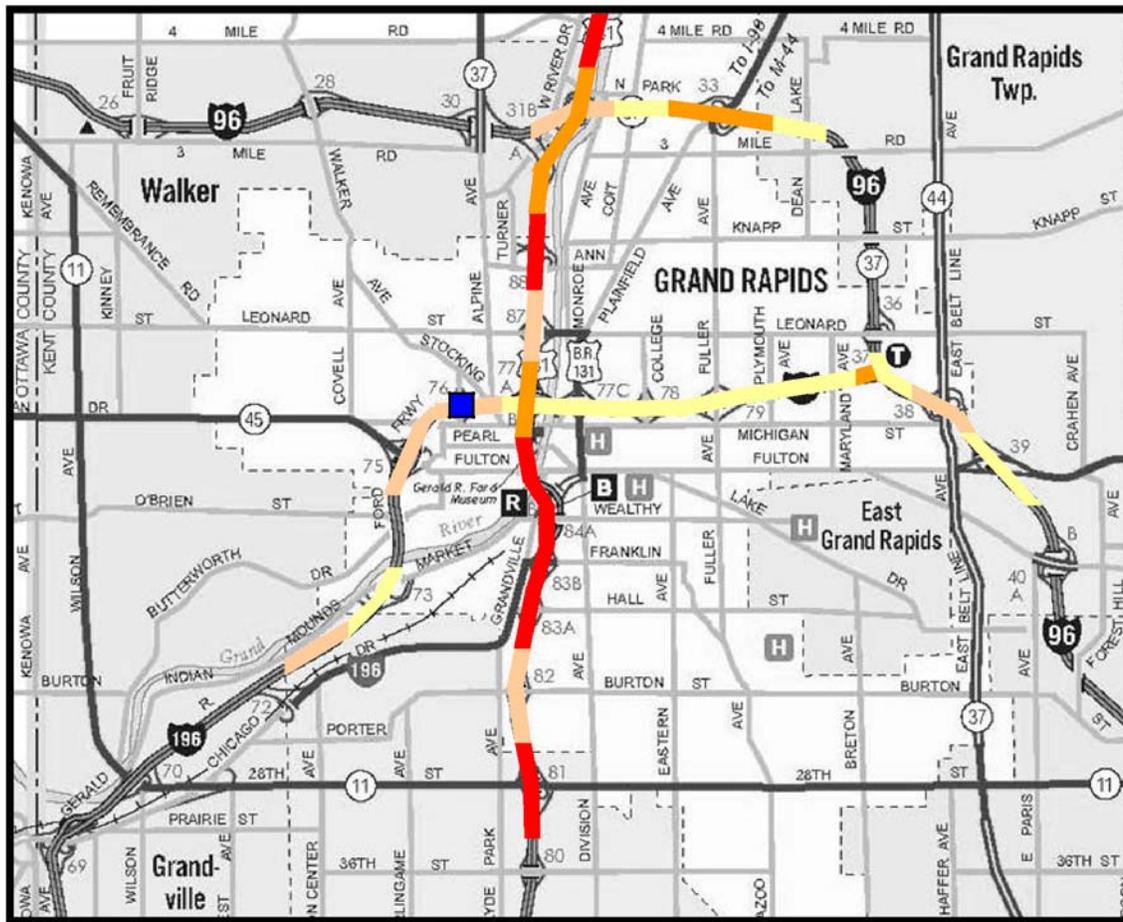
## Most Utilized DMS



1. US-131 NB @ 28th St. (48)
2. US-131 NB @ 36th St. (44)
3. US-131 NB @ Leonard St. (27)



# Incident Density and Hot Spots Map



## High-impact Unplanned Incident Activity\*



Incident Impact	June 2010	May 2010	June 2009	Previous 12-Month Avg.
Lane Closure	23	16	10	18.7
Ramp Closure	2	7	-	2.1
Freeway Closure	4	3	-	1.2

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

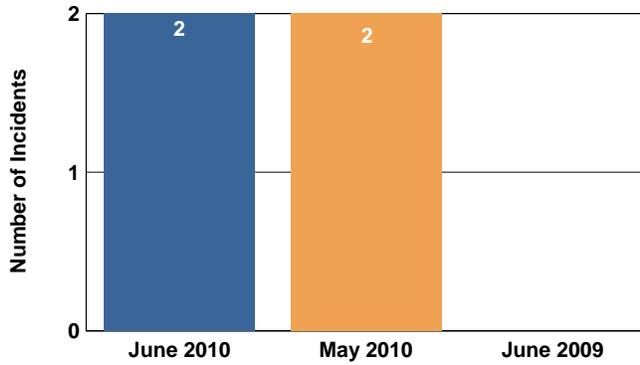
## Unplanned Incidents by Roadway



Freeway	June 2010		May 2010		June 2009		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (4.5 mi.)*	16	3.6	15	3.3	6	1.3	8.6	1.9
I-196 (8.5 mi.)*	13	1.5	7	0.8	7	0.8	16.1	1.9
US-131 (11 mi.)*	102	9.3	52	4.7	10	0.9	37.2	3.4
<b>Month Total</b>	<b>131</b>	<b>5.5</b>	<b>74</b>	<b>3.1</b>	<b>23</b>	<b>1.0</b>	<b>61.9</b>	<b>2.6</b>

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

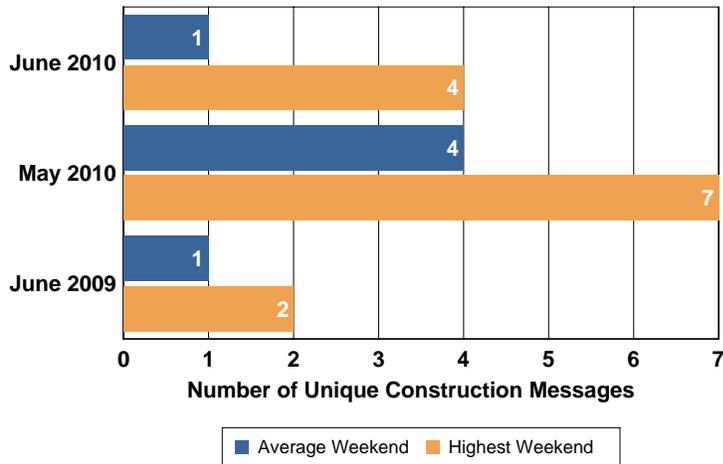
## Incidents Occurring in Construction Zones



### Construction Zone Incident Details:

During the month of June, there were two crashes that were identified by operators within "The Fix on I-196" work zone. On June 16, a single-vehicle crash occurred on westbound I-196 at Fuller Avenue, resulting in a brief freeway closure. On June 25, a multi-vehicle crash occurred on northbound US-131 at I-196, blocking the left lane for about 40 minutes.

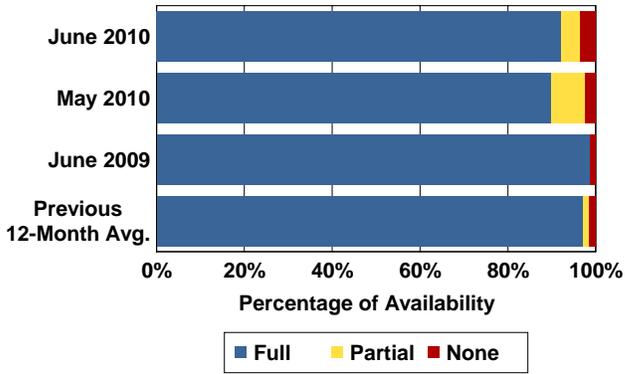
## Weekend\* Construction DMS Message Activity



\* Friday, Saturday and Sunday.



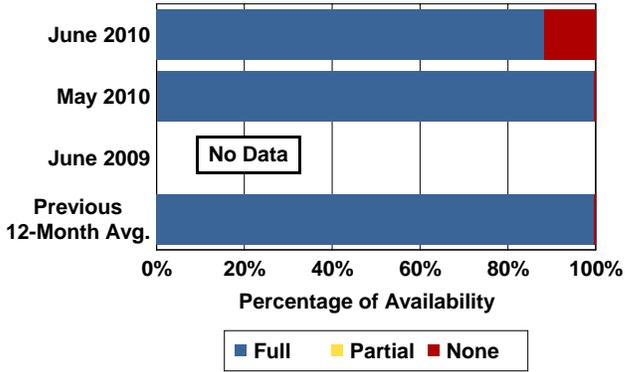
## Overall CCTV Camera Availability



## Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. I-96 EB @ Plainfield Ave.	38%	49%	13%
2. I-96 Conn. to US-131	76%	-	24%
3. US-131 @ I-96	88%	12%	-

## Overall Detector Availability

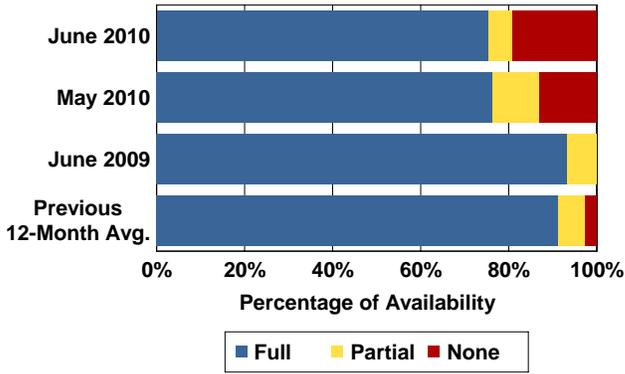


## Individual Detector Availability

Vehicle Detectors Below 95% Availability			
Location	Full	Partial	None
1. DS 115	-	-	100%*
2. DS 116	-	-	100%*
3. DS 119	-	-	100%*
4. DS 109	5%	-	95%
5. DS 114N	83%	-	17%
6. DS 114S	83%	-	17%
7. DS 126	89%	-	11%
8. DS 125	90%	-	10%
9. DS 104	93%	-	8%

\* Detector Sites 115, 116 and 119 were unavailable during May due to construction on I-196.

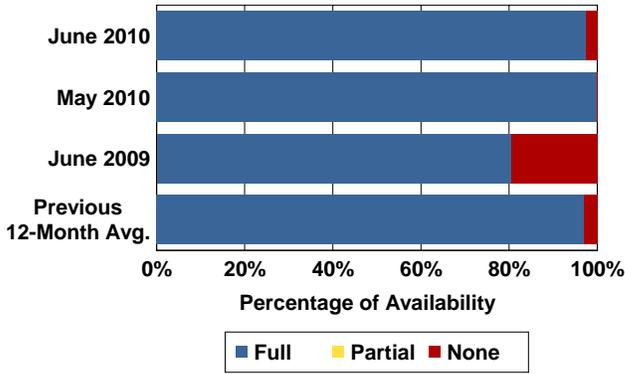
## Overall DMS Availability



## Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. I-96 EB @ Marne St.	26%	-	74%
2. US-131 NB @ 84th St.	28%	-	72%
3. I-96 WB @ Quiggle Ave.	28%	-	72%
4. I-196 EB @ 32nd Ave.	28%	-	72%
5. US-131 NB @ Leonard St.	29%	71%	1%
6. I-96 WB @ M-21 (Fulton St.)	74%	19%	7%
7. US-131 SB @ Ann St.	88%	-	12%
8. I-196 EB @ Chicago Dr.	94%	-	6%
9. US-131 SB @ Pearl St.	94%	-	6%

## Overall VSS Availability



## Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
1. Market NB Speed Limit	90%	-	10%

