

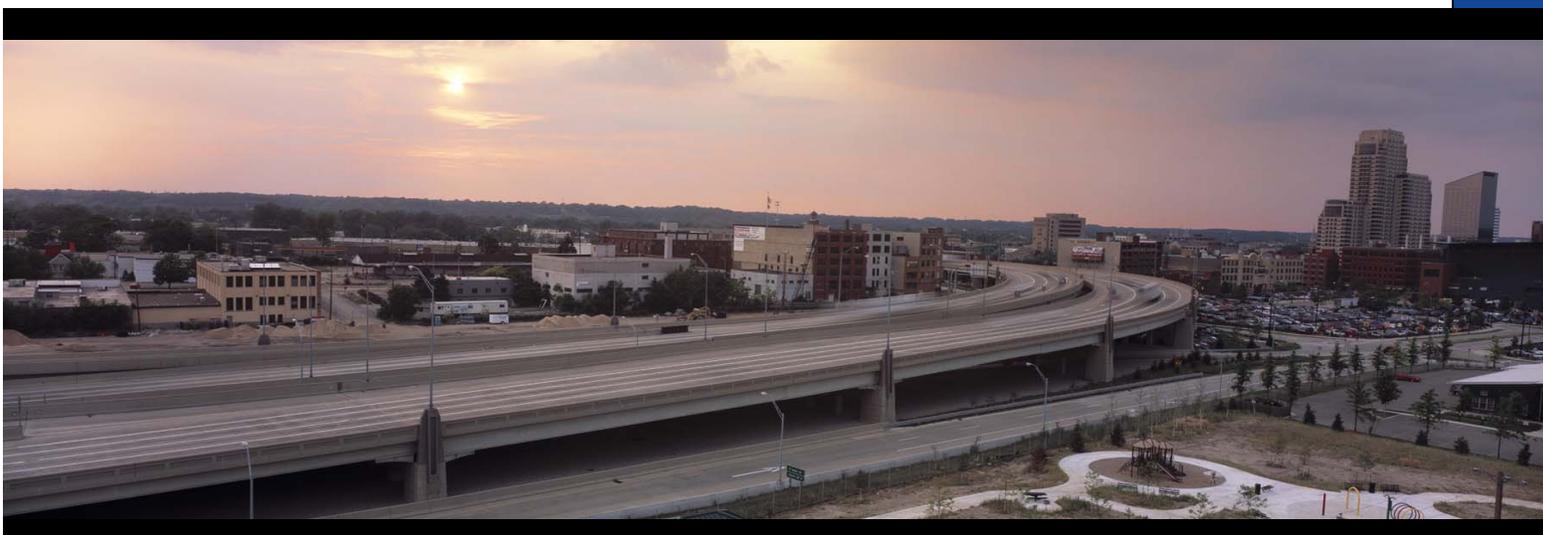
West Michigan Traffic Management Center

Serving Motorists on West Michigan Freeways

www.michigan.gov/its

www.michigan.gov/drive

July 2010



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West Michigan TMC Control Room
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Main: 616-451-8329
Cell: 616-262-6066
Fax: 616-774-9101

In the Spotlight



The WMTMC Control Room Operators (CRO) have been tracking congestion this summer associated with "The Fix on I-196" construction project in downtown Grand Rapids. Based on the observations in June, it was determined that there was an average of nearly three hours of congestion each weekday that could be due to the I-196 freeway closure based on the locations of the congestion. By comparison, CRO observations from February (before construction began) showed an average of approximately one hour of congestion each weekday.

Grand Rapids-area freeways that typically had the greatest amount of congestion during the morning and afternoon peak periods were southbound US-131 between Ann Street and I-96, northbound US-131 between Wealthy Street and Leonard Street, westbound I-96 between US-131 and Plainfield Avenue, and eastbound I-96 between M-37 (Alpine Avenue) and Leonard Street. I-96 and US-131 served as the detour route for the I-196 freeway closure. I-196 was re-opened to through-traffic on July 29 and CROs will continue to monitor the Grand Rapids freeways for congestion in order to compare observations from during the freeway closure with those taken after the freeway was re-opened.

The WMTMC staffed additional hours on the evening of July 4 to monitor traffic associated with the Grand Rapids fireworks display. CROs assisted local law enforcement by providing Dynamic Message Sign (DMS) messages related to scheduled ramp closures as well as instructing motorists not to park on the freeway shoulders.

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

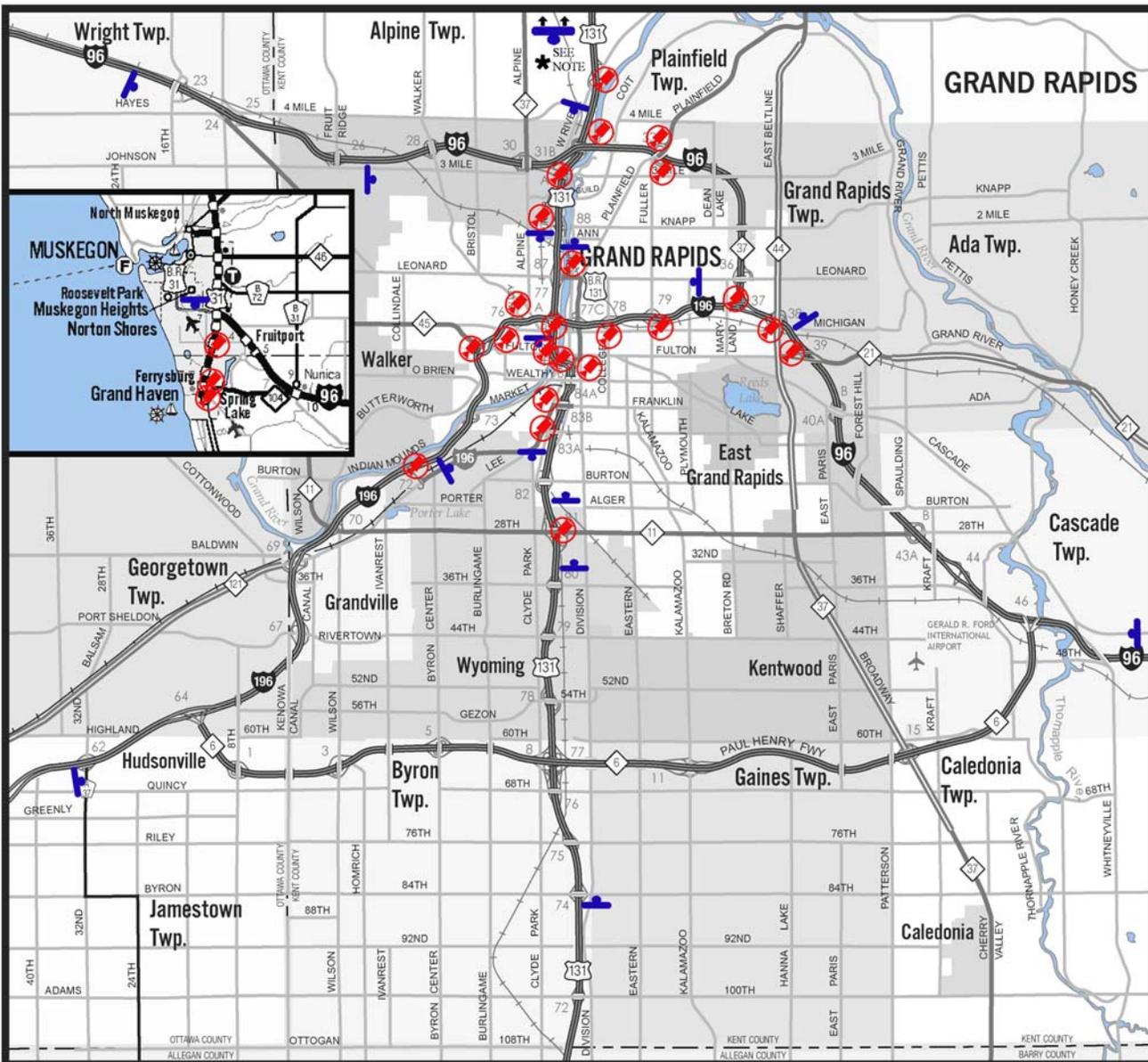
Control Room Contact Information

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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

July 2010

Communications Activity



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

Total Communication

Calls: 293
E-mails: 142

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 100.0%

Unplanned Incidents



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

Total Incidents

102

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

1

Daily Shift Report



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

System Availability

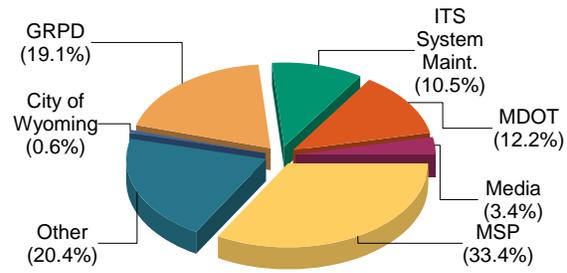
CCTV: 96%
DMS: 95%
VSS: 99%
MVDS: 83%

Calls and E-mails by Type



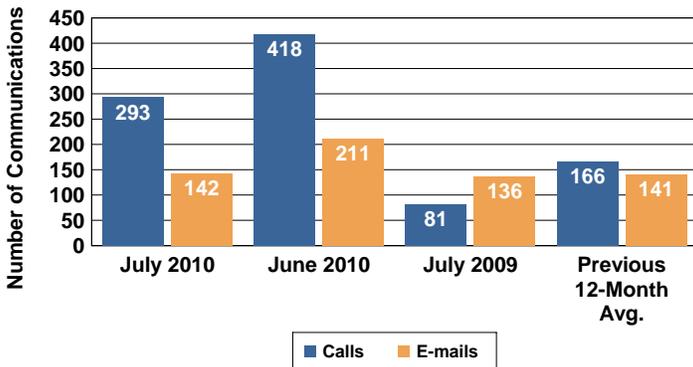
Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	0	0	22	0	22
City of Wyoming	1	1	2	0	0	0
Grand Rapids Police Department	7	49	56	0	0	0
ITS System Maintenance	19	12	31	0	2	2
Kent County Road Commission	3	4	7	0	0	0
Kent County Sheriff	0	0	0	0	0	0
MDOT, Construction	3	8	11	56	0	56
MDOT, Maintenance	5	3	8	9	0	9
MDOT, Other	11	4	15	0	0	0
MDOT, Traffic/ITS	2	0	2	11	1	12
Media	7	3	10	0	15	15
Michigan State Police	18	80	98	0	0	0
Other	34	19	53	8	1	9
Weather	0	0	0	17	0	17
Month Total	110	183	293	123	19	142

Calls by Type

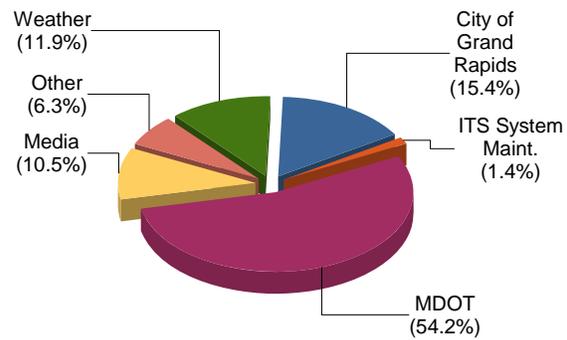


Total Calls: 293

Communication History

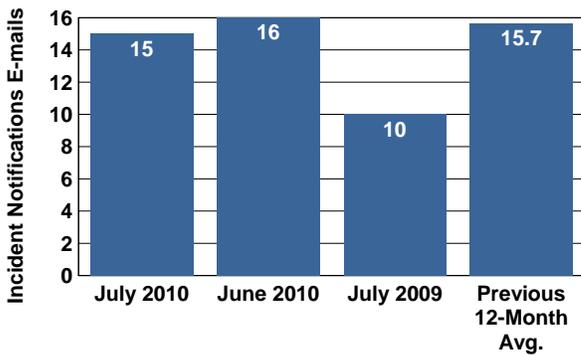


E-mails by Type

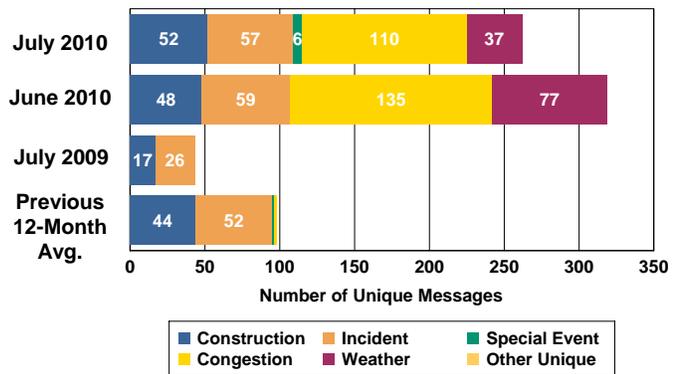


Total E-mails: 142

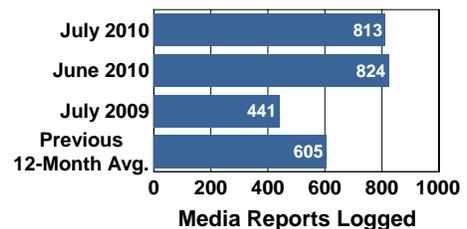
Incident Notification* History



DMS and VSS Messages by Type



Media Audits



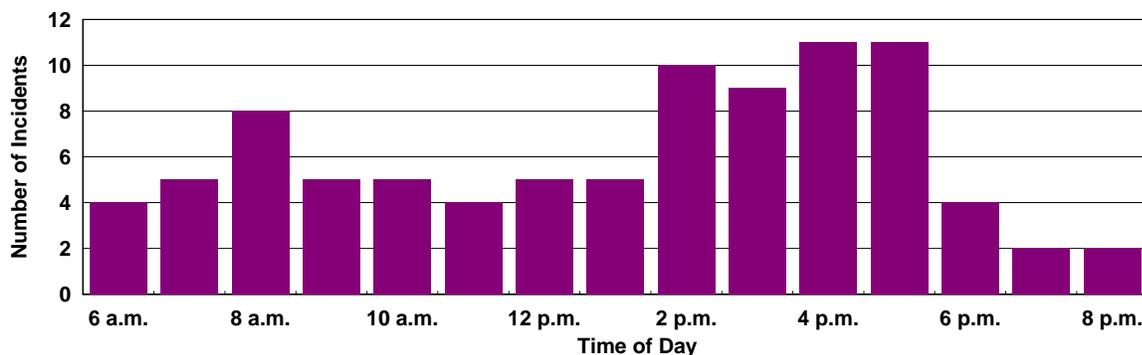
Incident Notification* Communication Accuracy



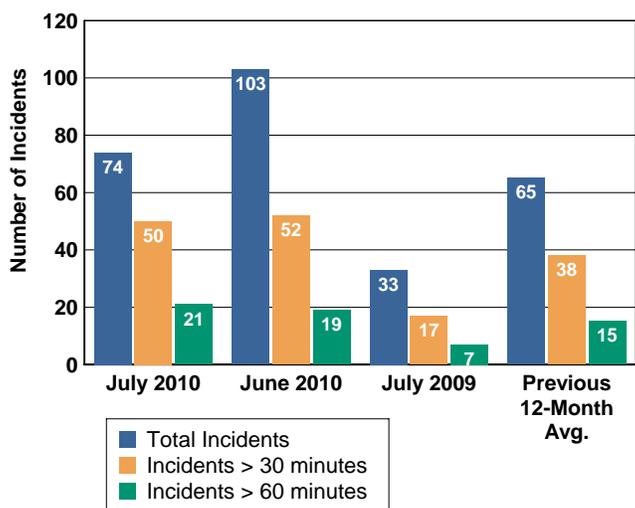
	July 2010	June 2010	July 2009	Previous 12 Months
Format Correct	100.0%	100.0%	100.0%	96.3%
Content Correct	100.0%	87.5%	100.0%	93.6%

*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.

Total of Unplanned Incidents per Weekday Hour

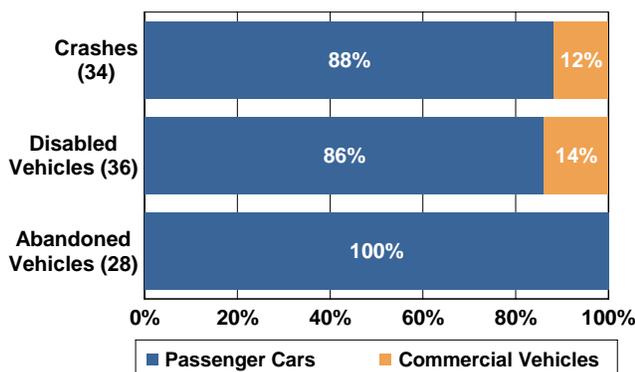


Incident Duration History*



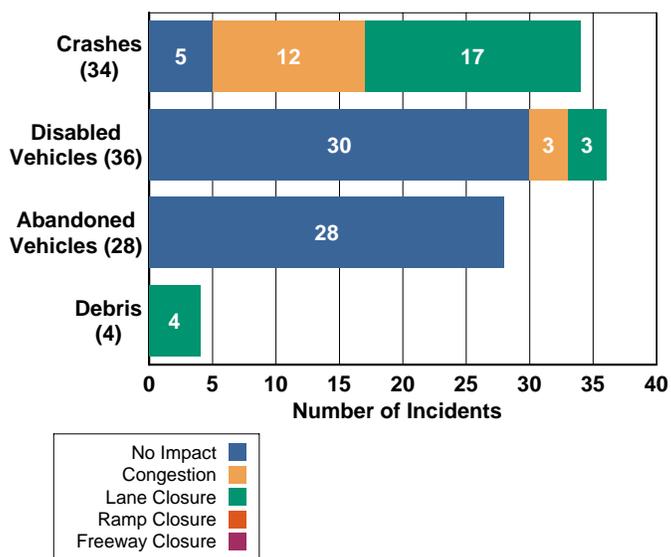
*Incident Duration History excludes abandoned vehicles.

Vehicle Composition of Incidents*

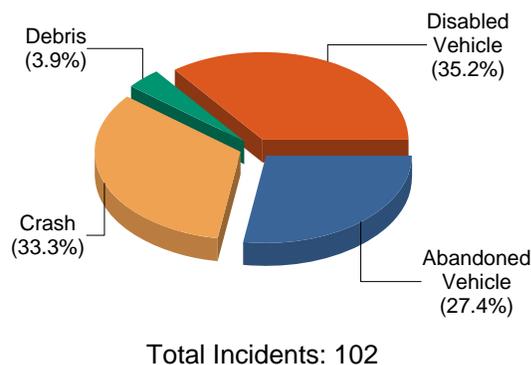


*Vehicle Composition of Incidents excludes incidents where vehicle types were not identified.

Traffic Impacts by Type



Incident Managed by Type



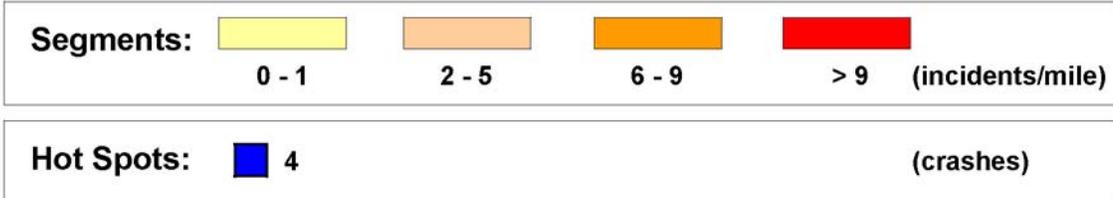
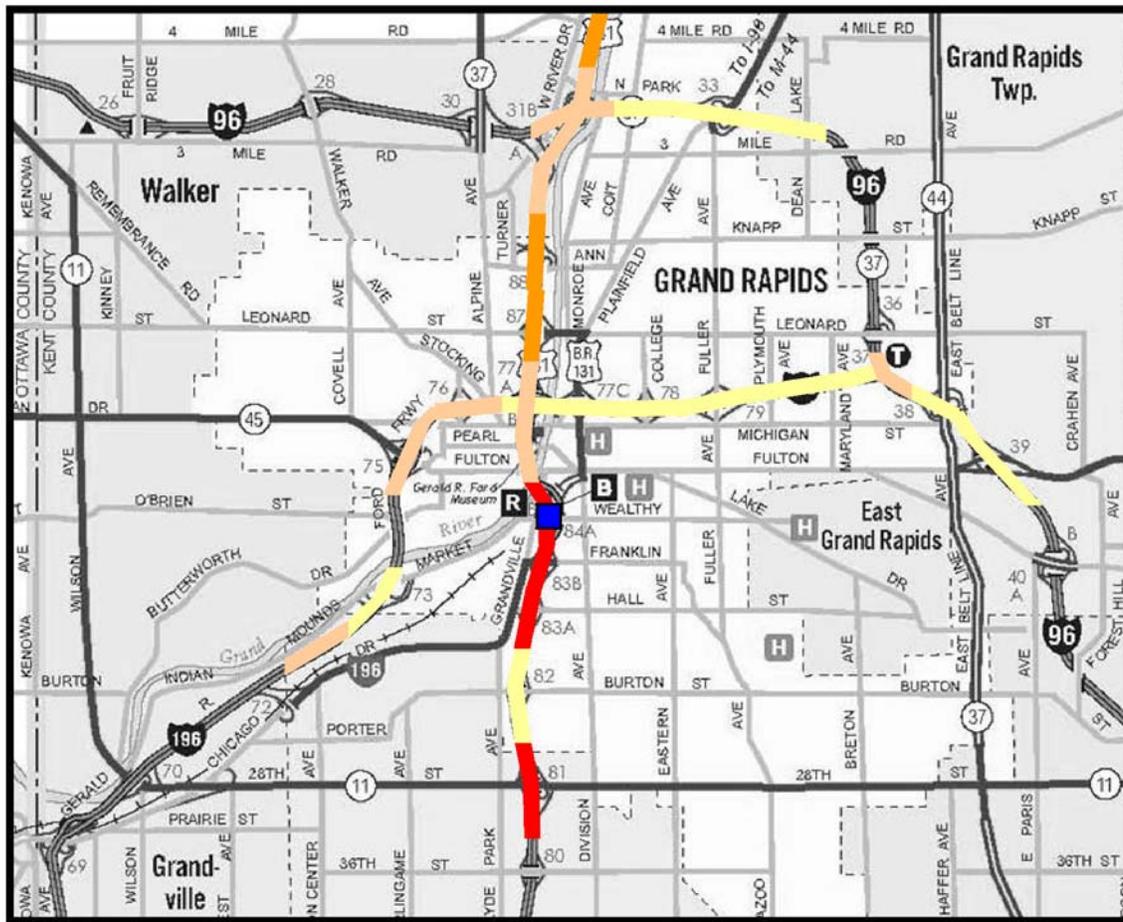
Most Utilized DMS



1. US-131 NB @ 28th St. (41)
2. US-131 NB @ 36th St. (41)
3. I-96 WB @ M-21 (Fulton St.) (21)



Incident Density and Hot Spots Map



Incident Management



High-impact Unplanned Incident Activity*



Incident Impact	July 2010	June 2010	July 2009	Previous 12-Month Avg.
Lane Closure	23	23	14	19.8
Ramp Closure	2	2	1	2.2
Freeway Closure	1	4	2	1.6

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

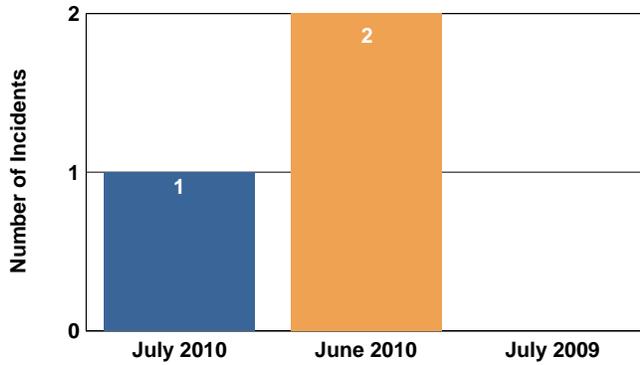
Unplanned Incidents by Roadway



Freeway	July 2010		June 2010		July 2009		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (4.5 mi.)*	15	3.3	12	2.7	1	0.2	4.7	1.0
I-196 (8.5 mi.)*	10	1.2	13	1.5	8	0.9	16.6	2.0
US-131 (11 mi.)*	70	6.4	102	9.3	25	2.3	44.8	4.1
Month Total	95	4.0	127	5.3	34	1.4	66.1	2.8

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

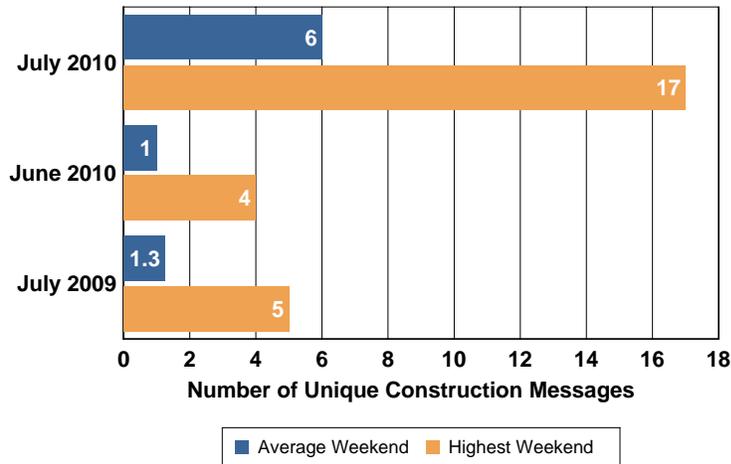
Incidents Occurring in Construction Zones



Construction Zone Incident Details:

During the month of July, there was one crash that was identified by operators within "The Fix on I-196" work zone. On July 13, a two-vehicle crash occurred on eastbound I-196 at Ottawa Avenue, resulting in a brief shoulder closure.

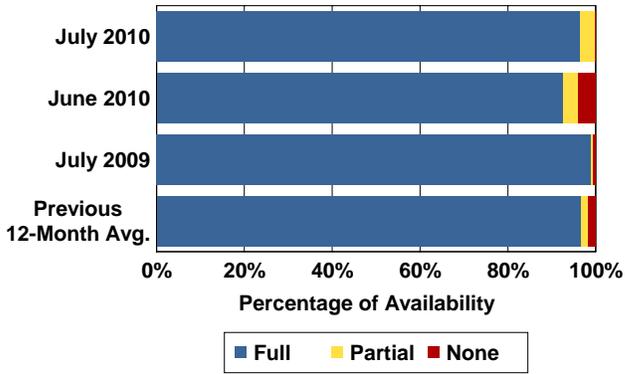
Weekend* Construction DMS Message Activity



* Friday, Saturday and Sunday.



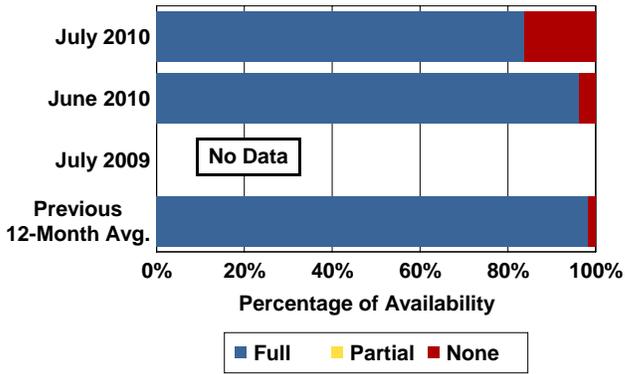
Overall CCTV Camera Availability



Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. US-131 @ Wealthy St.	75%	23%	1%
2. I-196 @ Chicago Dr.	85%	15%	-
3. I-196 @ Lake Michigan Dr.	85%	15%	-
4. I-196 @ Lane Ave.	85%	15%	-
5. US-131 @ Leonard St.	92%	8%	-

Overall Detector Availability

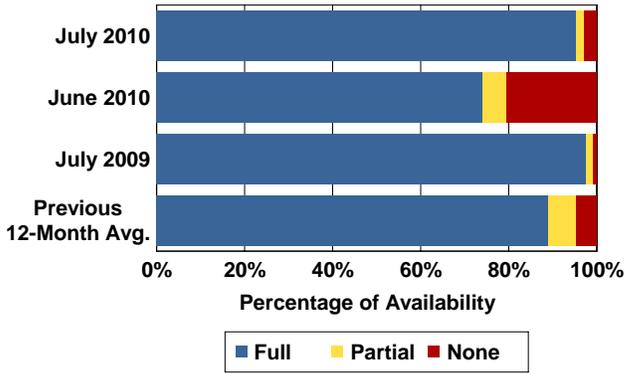


Individual Detector Availability

Vehicle Detectors Below 95% Availability			
Location	Full	Partial	None
1. DS 114N	-	-	100%
2. DS 114S	-	-	100%
3. DS 115	-	-	100%*
4. DS 116	-	-	100%*
5. DS 119	-	-	100%*
6. DS 125	-	-	100%
7. DS 126	-	-	100%

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

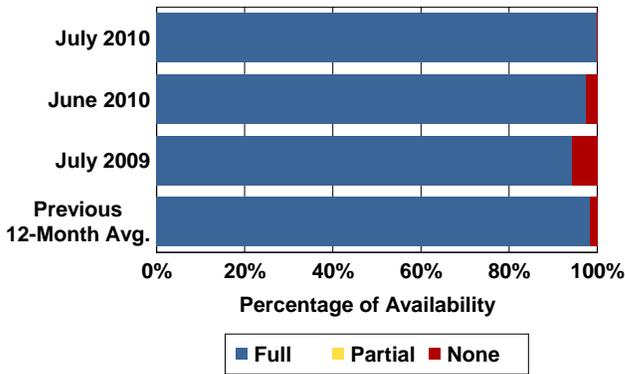
Overall DMS Availability



Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. US-131 NB @ Leonard St.	72%	11%	17%
2. US-131 SB @ Ann St.	77%	11%	13%
3. US-131 SB @ West River Dr.	77%	11%	13%

Overall VSS Availability



Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
None.			

