

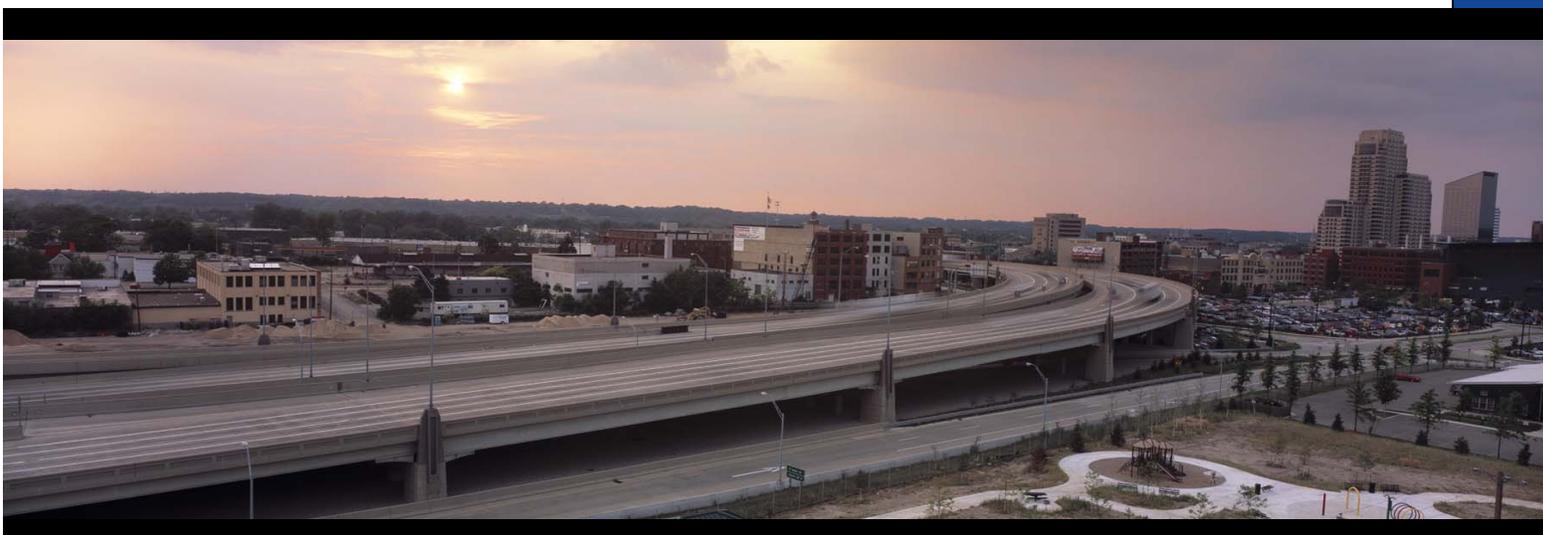
West Michigan Traffic Management Center

Serving Motorists on West Michigan Freeways

www.michigan.gov/its

www.michigan.gov/drive

April 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



On April 12, I-196 in downtown Grand Rapids was closed to through-traffic for complete reconstruction. Traffic congestion on area freeways due to the closure has been primarily limited to the peak traffic periods, with northbound US-131 experiencing the heaviest congestion in the afternoon peak hour. Much of the control room communication in April was related to the I-196 construction.

Incident notifications decreased between March and April, with the number of incident notifications in April (13) only slightly higher than the previous 12-month average (12.3).

Five new Dynamic Message Signs (DMS) were added to the WMTMC Intelligent Transportation System (ITS) network in April. Each of the new DMS is on a freeway route leading to Grand Rapids, though farther from the metro area than the existing DMS. The new DMS have been used primarily to provide motorists with road construction information related to the I-196 reconstruction in downtown Grand Rapids.

Furniture for the new WMTMC control room and offices was installed this month. The furniture is a significant step towards the control room transition to the new space. Control room operations anticipate moving into the new space in the next two months, with the project being completed at the end of August.

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

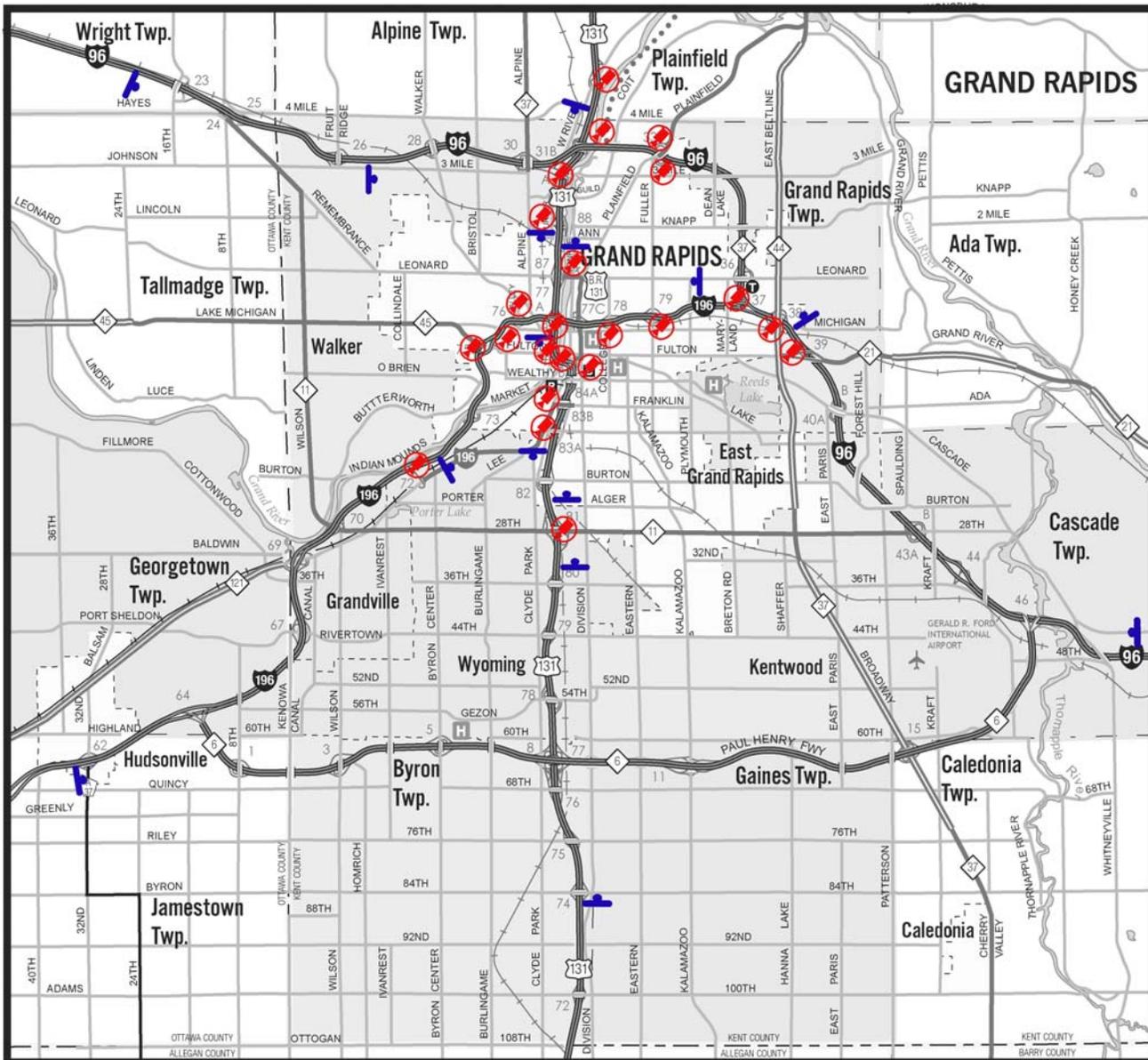
Control Room Contact Information

E-mail: MDOT-GR-TRAFFOPS@michigan.gov
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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



Key: Closed-circuit Television Camera
 Dynamic Message Sign

Summary

Data Key

April 2010

Communications Activity



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

Total Communication

Calls: 255
E-mails: 179

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

73

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

3

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

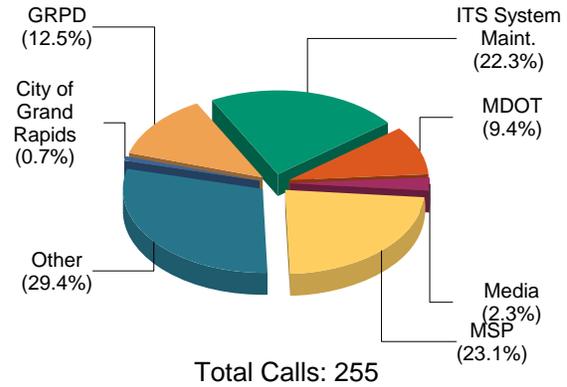
CCTV: 98%
DMS: 90%
VSS: 100%

Calls and E-mails by Type

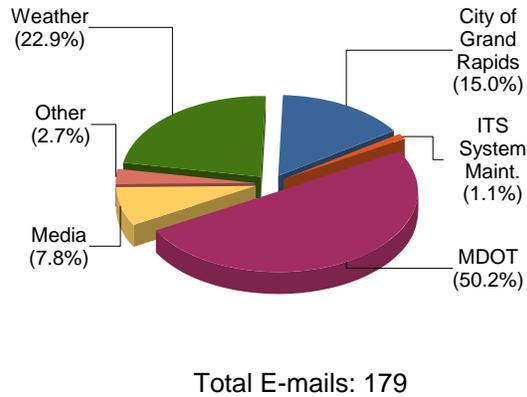


Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	1	1	2	27	0	27
City of Wyoming	0	0	0	0	0	0
Grand Rapids Police Department	7	25	32	0	0	0
ITS System Maintenance	16	41	57	2	0	2
Kent County Road Commission	0	0	0	0	0	0
Kent County Sheriff	0	0	0	0	0	0
MDOT, Construction	6	5	11	48	0	48
MDOT, Maintenance	2	3	5	13	0	13
MDOT, Other	6	1	7	0	0	0
MDOT, Traffic/ITS	1	0	1	19	10	29
Media	4	2	6	0	14	14
Michigan State Police	12	47	59	0	0	0
Other	31	44	75	3	2	5
Weather	0	0	0	41	0	41
Month Total	86	169	255	153	26	179

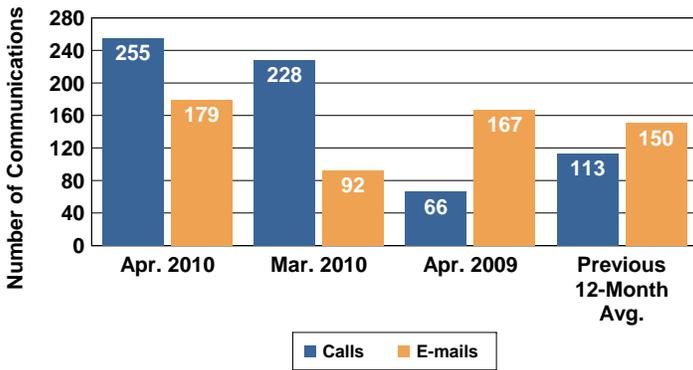
Calls by Type



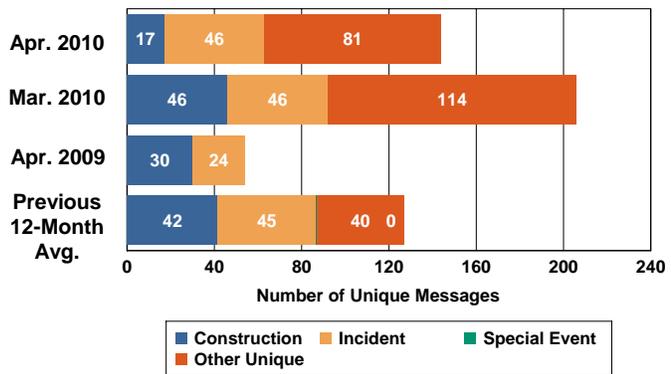
E-mails by Type



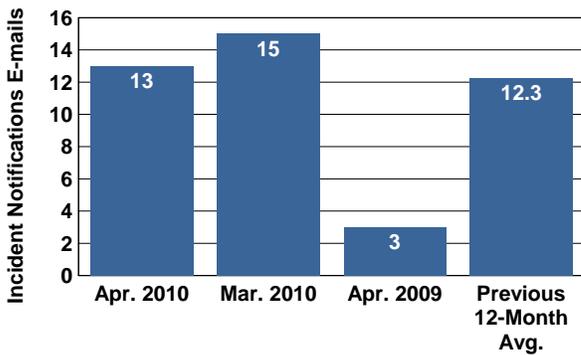
Communication History



DMS and VSS Messages by Type



Incident Notification* History

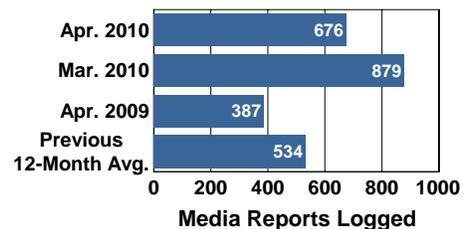


Incident Notification* Communication Accuracy



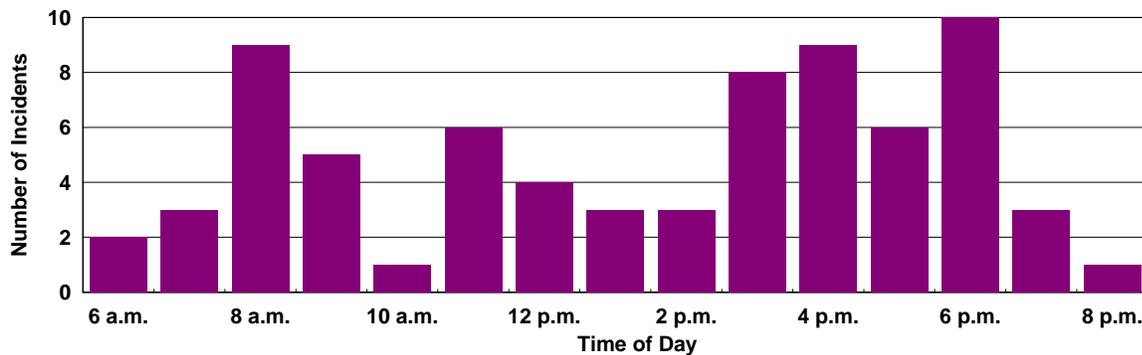
	Apr. 2010	Mar. 2010	Apr. 2009	Previous 12 Months
Format Correct	100.0%	93.3%	100.0%	95.2%
Content Correct	100.0%	93.3%	66.7%	92.5%

Media Audits

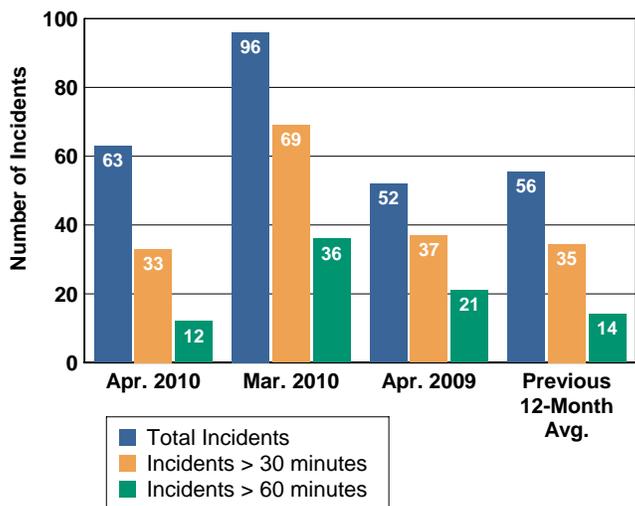


* Incident Notification e-mails are issued for high-impact incidents with an expected duration of 15 minutes or greater. To subscribe to this list, please send an e-mail to MDOT-GR-TRAFFOPS@michigan.gov.

Total of Unplanned Incidents per Weekday Hour

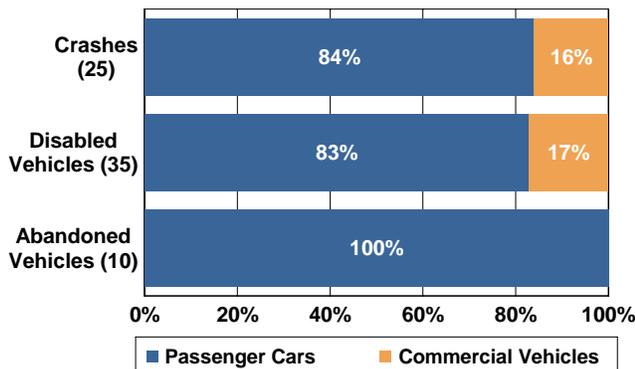


Incident Duration History*



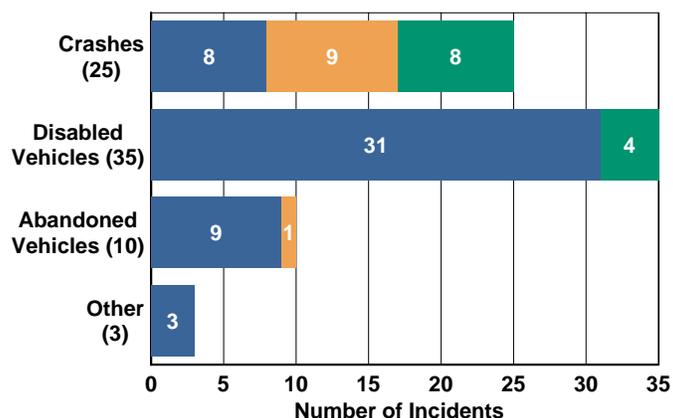
*Incident Duration History excludes abandoned vehicles.

Vehicle Composition of Incidents*

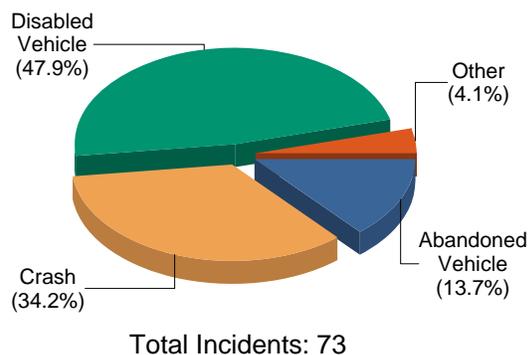


*Vehicle Composition of Incidents excludes incidents where vehicle types were not identified.

Traffic Impacts by Type



Incident Managed by Type



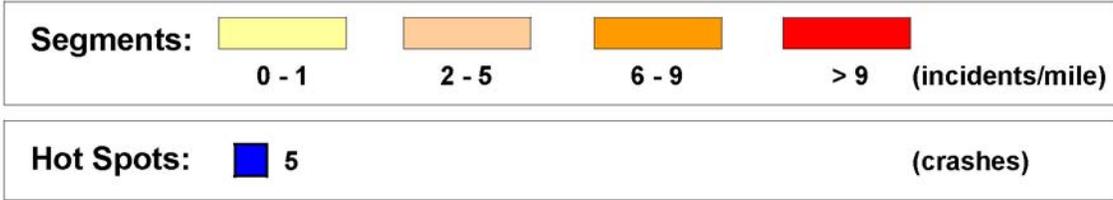
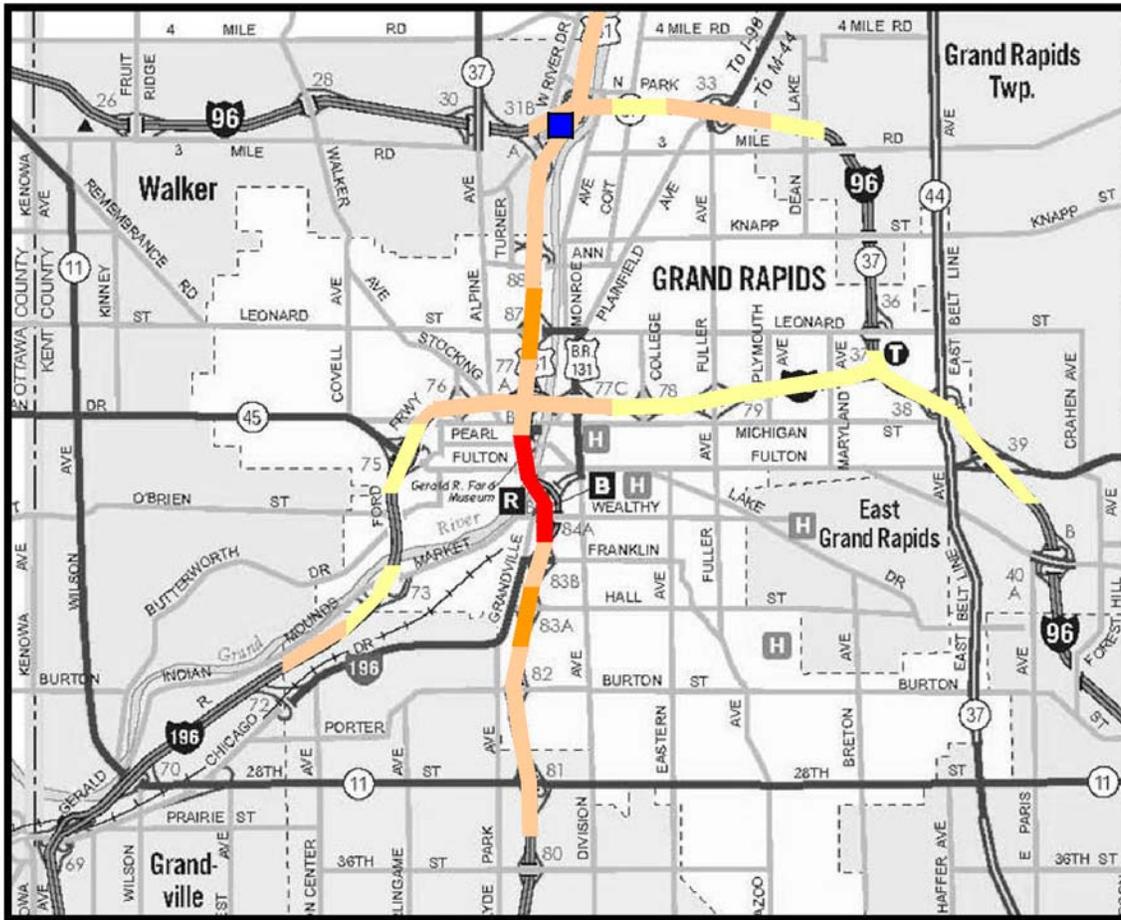
Most Utilized DMS



1. US-131 NB @ 28th St. (16)
2. US-131 NB @ Leonard St. (16)
3. I-96 EB @ Fruitridge Ave. (15)



Incident Density and Hot Spots Map



Incident Management



High-impact Unplanned Incident Activity*



Incident Impact	Apr. 2010	Mar. 2010	Apr. 2009	Previous 12-Month Avg.
Lane Closure	12	19	17	17.8
Ramp Closure	-	-	-	0.2
Freeway Closure	-	-	-	1.2

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

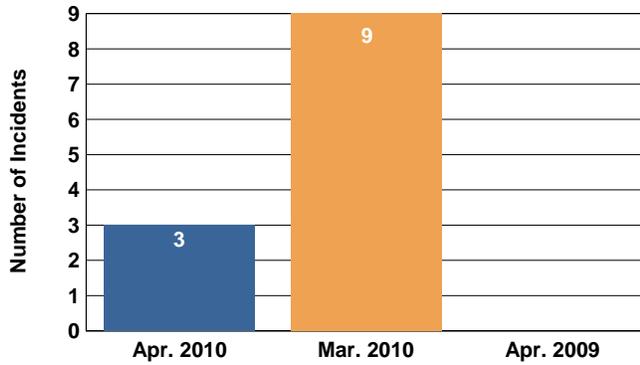
Unplanned Incidents by Roadway



Freeway	Apr. 2010		Mar. 2010		Apr. 2009		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (4.5 mi.)*	8	1.8	11	2.4	10	2.2	7.8	1.7
I-196 (8.5 mi.)*	9	1.1	40	4.7	13	1.5	17.0	2.0
US-131 (11 mi.)*	50	4.5	55	5.0	27	2.5	32.4	2.9
Month Total	67	2.8	106	4.4	50	2.1	57.2	2.4

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

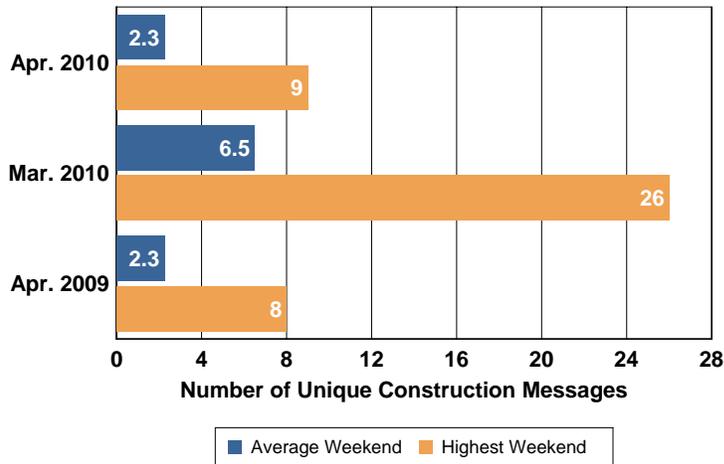
Incidents Occurring in Construction Zones



Construction Zone Incident Details:

During the month of April, there were two disabled vehicles and one crash that were identified by operators within "The Fix on I-196" construction zone.

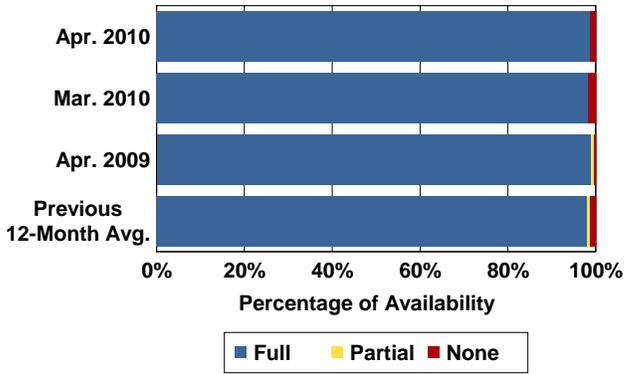
Weekend* Construction DMS Message Activity



* Friday, Saturday and Sunday.



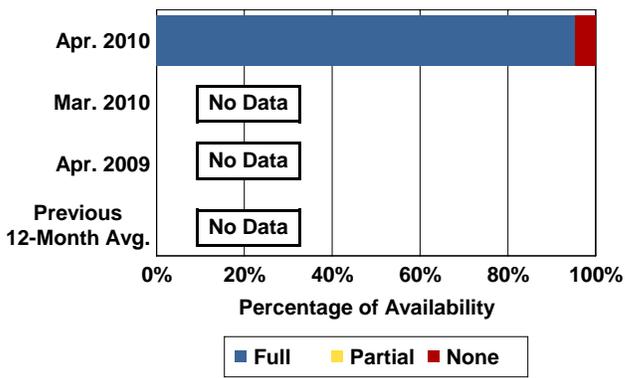
Overall CCTV Camera Availability



Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. I-96 Conn. to US-131	92%	-	8%

Overall Detector Availability

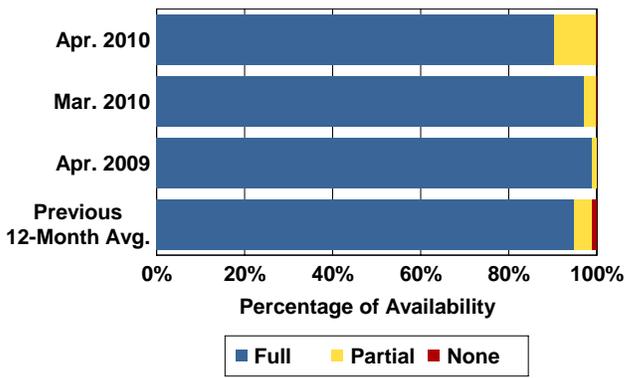


Individual Detector Availability

Vehicle Detectors Below 95% Availability			
Location	Full	Partial	None
1. DS 119	7%	-	93%*
2. DS 116	7%	-	93%*
3. DS 104	94%	-	6%
4. DS 105	94%	-	6%

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

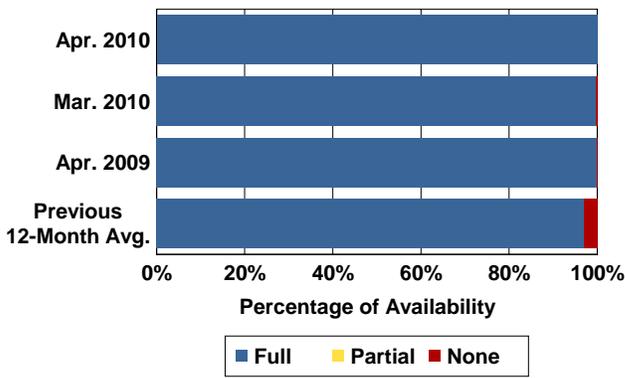
Overall DMS Availability



Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. I-196 WB @ Plymouth Ave.	35%	65%	-
2. US-131 NB @ 36th St.	57%	43%	-

Overall VSS Availability



Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
None.			

