

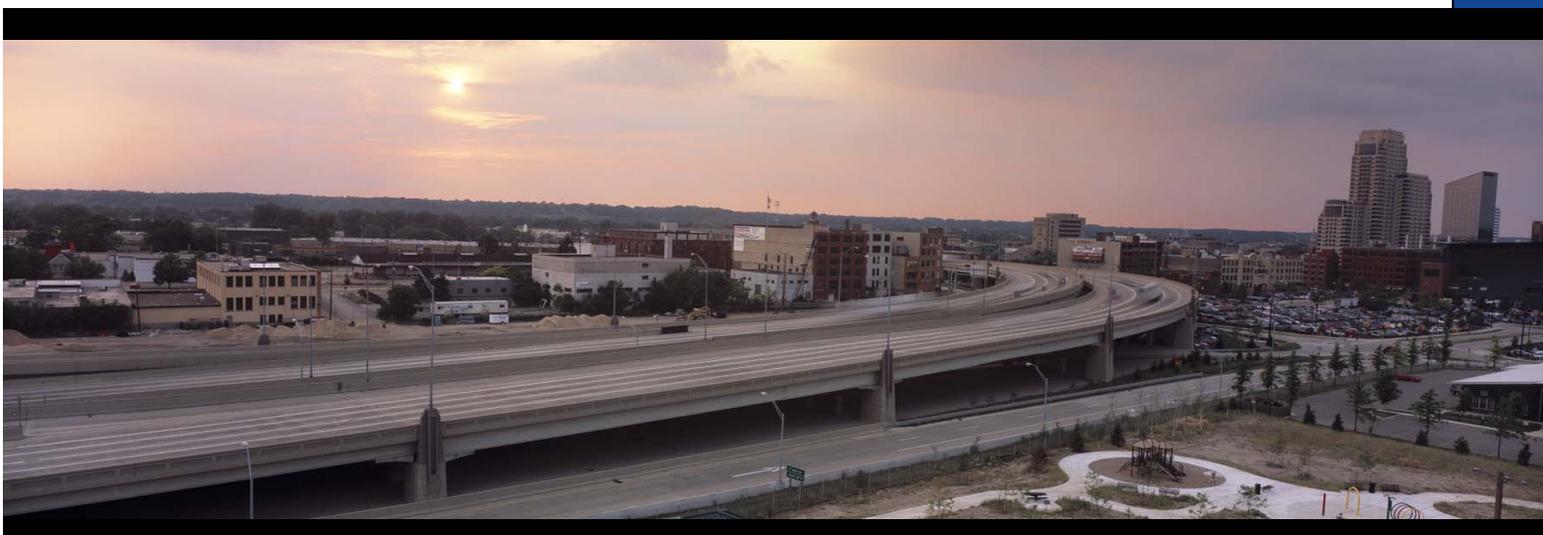
West Michigan Traffic Management Center

Serving Motorists on West Michigan Freeways

www.michigan.gov/its

www.michigan.gov/drive

January 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



West Michigan experienced a variety of weather conditions in January 2010 that affected travel conditions for motorists. Of particular note is that one-third of an inch of rain fell in approximately the same 24-hour period (January 7) as did 3.5 inches of snow.

WMTMC Control Room Operators monitored 26 lane closures and one freeway closure in January 2010, similar to December 2009 but greater than the previous 12-month average of 19 lane, ramp, and freeway closures.

In January 2010, there were a greater number of unplanned incidents that occurred during the morning hours (7 AM - 10 AM) than is typical for the Grand Rapids area freeways due to adverse weather and roadway conditions. Typically, the highest hour for unplanned incidents is 4 PM, but in January a total of 32 unplanned incidents occurred in the morning hours while only 18 unplanned incidents occurred in the afternoon hours (3 PM - 6 PM).

The Control Room Operators met with Brent Hadfield, Transportation Maintenance Coordinator for the MDOT Grand Rapids TSC on January 28. Brent spoke about winter road maintenance operations, but a significant amount of the discussion was in regards to the operation of the US-31 bascule bridge in Grand Haven. Three new CCTV cameras and a dynamic message sign on US-31 in the Grand Haven area will be integrated into the WMTMC ITS network in spring 2010.

Compiled by:
URS

Control Room Hours of Operation

Time Period	Days	Hours
October - April	Monday - Friday	6 am - 8 pm
	Saturday - Sunday	As needed
May - September	Monday - Thursday	6 am - 8 pm
	Friday	6 am - 9 pm
	Saturday	12 pm - 6 pm
	Sunday	4 pm - 8 pm
Special Events	All	As needed
Holidays and Holiday Weekends	New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas	As needed

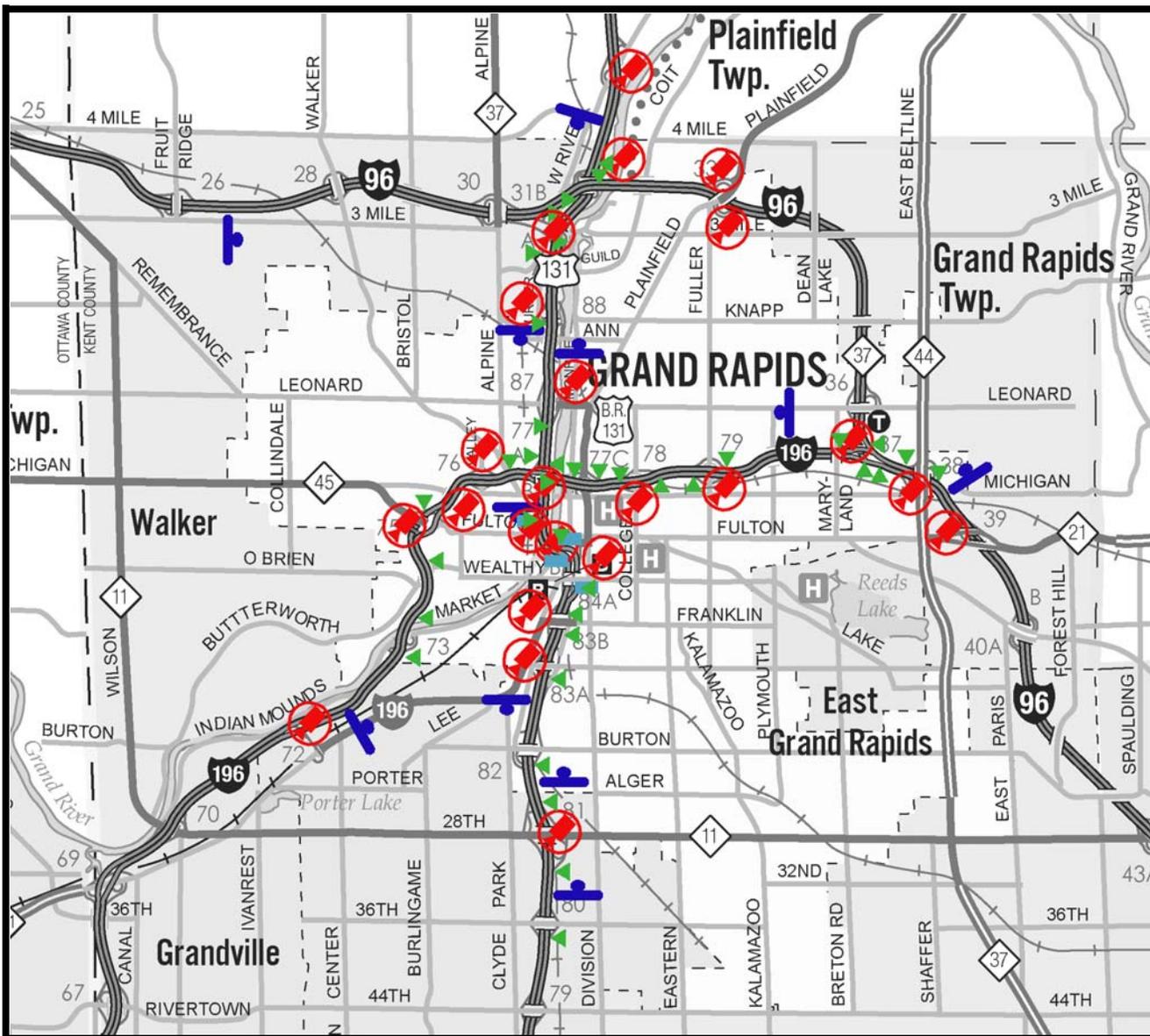
Control Room Contact Information

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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



- Key:**
- CCTV Camera
 - Vehicle Detector
 - Dynamic Message Sign
 - Variable Speed Sign

Summary

Data Key

January 2010

Communications Activity



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

Total Communication

Calls: 142

E-mails: 84

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 95.0%

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

0

Daily Shift Report



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

System Availability

CCTV: 97%

DMS: 95%

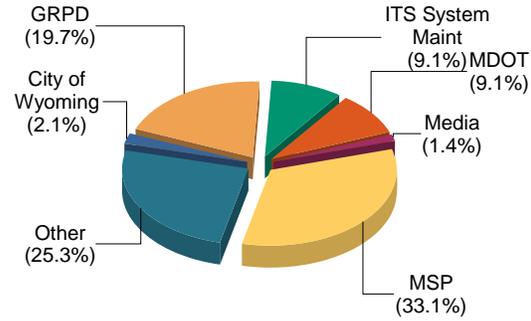
VSS: 99%

Calls and E-mails by Type



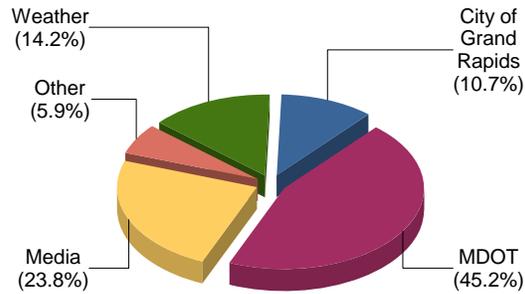
Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	0	0	9	0	9
City of Wyoming	0	3	3	0	0	0
Grand Rapids Police Department	7	21	28	0	0	0
ITS System Maintenance	3	10	13	0	0	0
Kent County Road Commission	0	4	4	0	0	0
MDOT, Construction	1	2	3	8	7	15
MDOT, Maintenance	0	1	1	15	1	16
MDOT, Other	4	4	8	0	0	0
MDOT, Traffic/ITS	0	1	1	5	2	7
Media	1	1	2	0	20	20
MSP	4	43	47	0	0	0
Other	18	14	32	4	1	5
Sheriff, Kent County	0	0	0	0	0	0
Weather	0	0	0	12	0	12
Month Total	38	104	142	53	31	84

Calls by Type



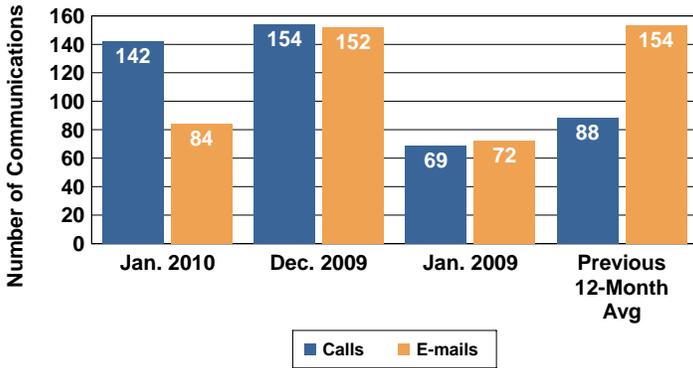
Total Calls: 142

E-mails by Type

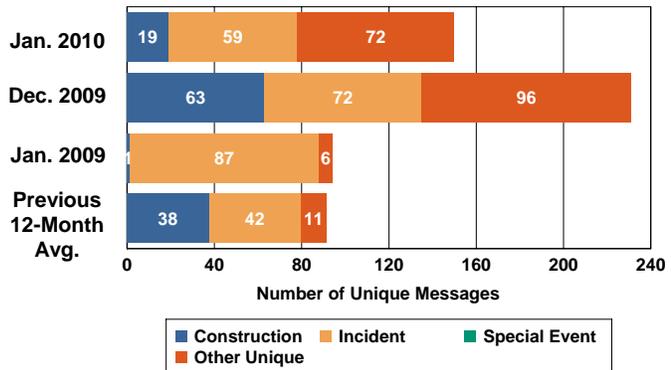


Total E-mails: 84

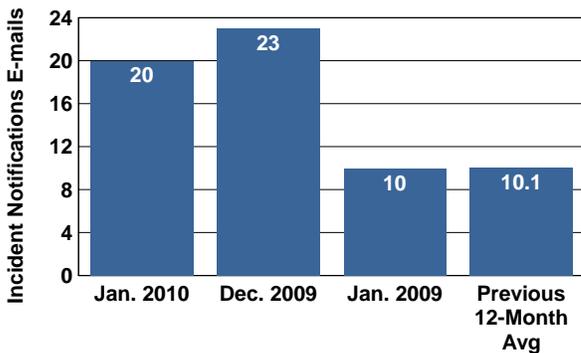
Communication History



DMS Messages by Type



Incident Notification* History



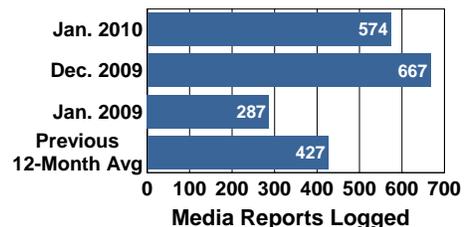
Incident Notification* Communication Accuracy



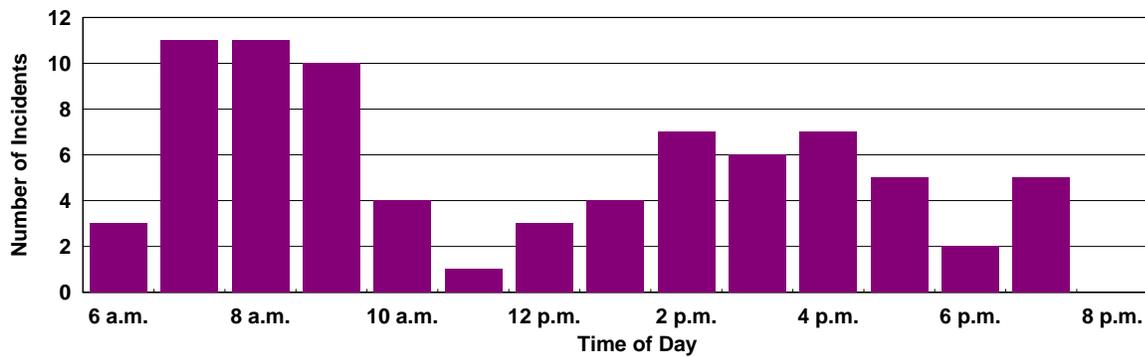
	Jan. 2010	Dec. 2009	Jan. 2009	Previous 12 Months
Format Correct	100.0%	91.3%	90.0%	93.4%
Content Correct	95.0%	95.7%	100.0%	92.6%

* 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 MDOT-GR-TRAFFOPS@michigan.gov.

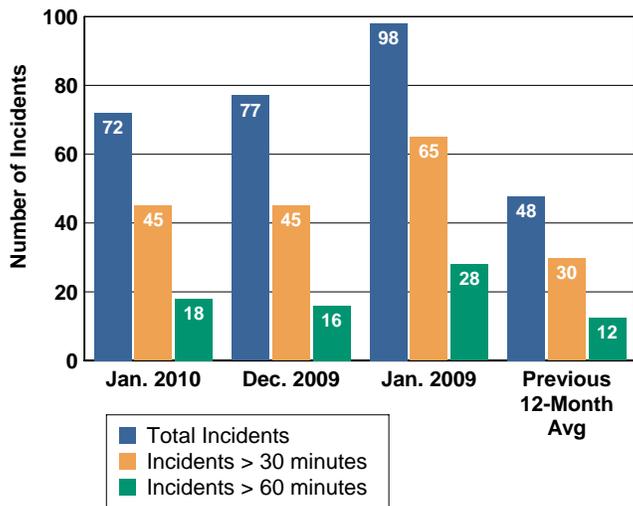
Media Audits



Total of Unplanned Incidents per Weekday Hour

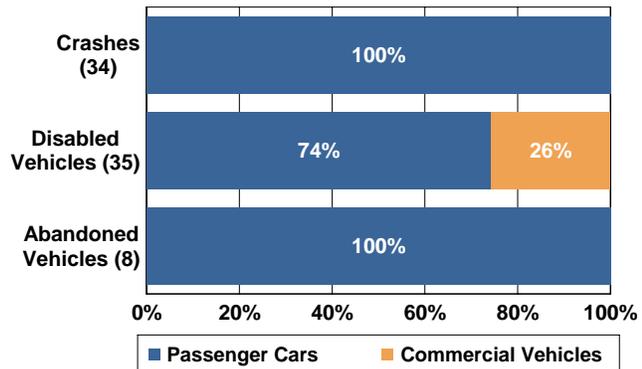


Incident Duration History*



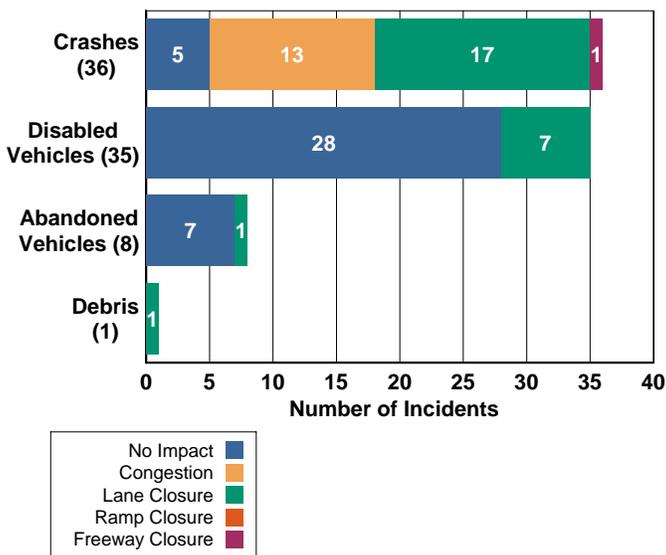
*Incident Duration History excludes abandoned vehicles.

Vehicle Composition of Incidents*

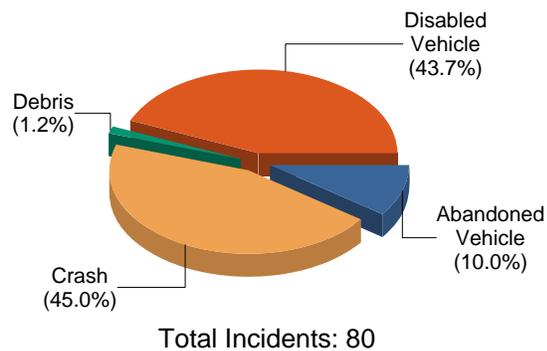


*Vehicle Composition of Incidents excludes incidents where vehicle types were not identified.

Traffic Impacts by Type



Incident Managed by Type



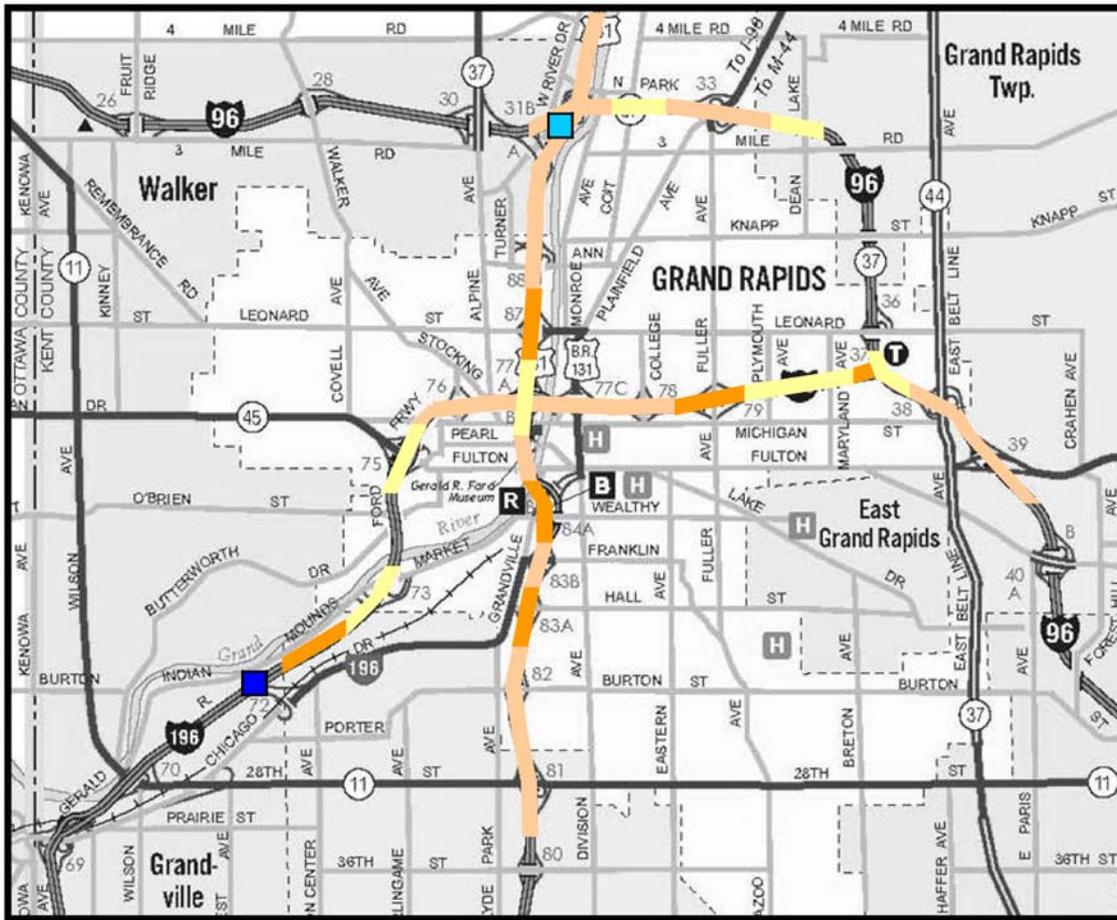
Most Utilized DMS



1. I-196 EB @ Chicago Dr. (21)
2. I-196 WB @ Plymouth Ave. (21)
3. US-131 NB @ 28th St. (20)



Incident Density and Hot Spots Map



Incident Management



High-Impact Unplanned Incident Activity*



Incident Impact	Jan. 2010	Dec. 2009	Jan. 2009	Previous 12-Month Avg.
Lane Closure	26	24	41	16.8
Ramp Closure	-	-	-	0.3
Freeway Closure	1	3	2	1.4

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

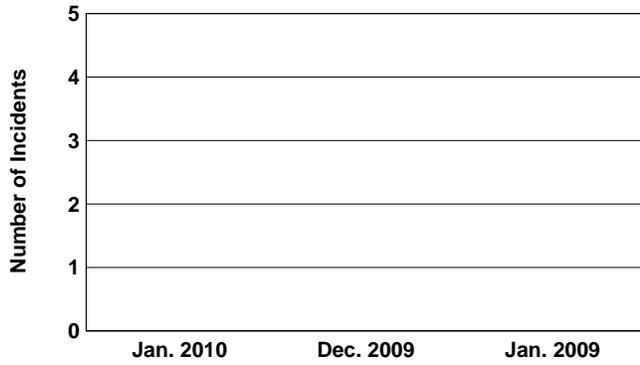
Unplanned Incidents by Roadway



Freeway	Jan. 2010		Dec. 2009		Jan. 2009		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (4.5 mi.)*	12	2.7	12	2.7	15	3.3	7	1.6
I-196 (8.5 mi.)*	25	2.9	20	2.4	31	3.6	14	1.7
US-131 (11 mi.)*	43	3.9	50	4.5	51	4.6	28	2.6
Month Total	80	3.3	82	3.4	97	4.0	49	2.1

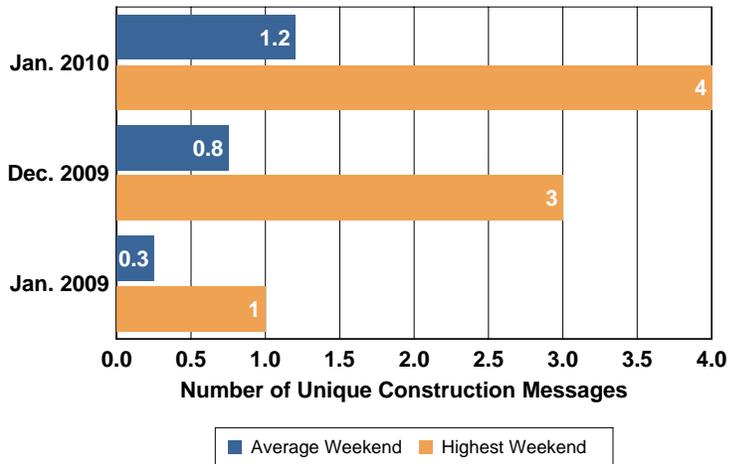
* Mileages reflect the portion of the roadway within the WMTMC coverage area.

Incidents Occurring in Construction Zones



Construction Zone Incident Details:
No incidents occurring in construction zones were recorded for January 2010.

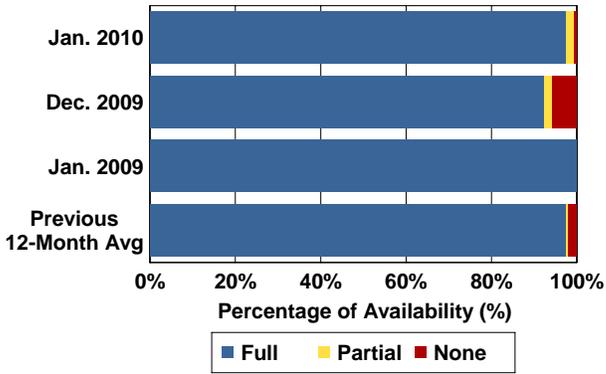
Weekend* Construction DMS Message Activity



* Friday, Saturday and Sunday.



Overall CCTV Camera Availability



Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. I-196 @ Lake Michigan Dr.	80%	20%	-
2. I-96 WB @ Plainfield Ave.	87%	13%	-
3. US-131 @ Leonard St.	88%	12%	-
4. I-96 @ E. Beltline Ave.	89%	-	11%

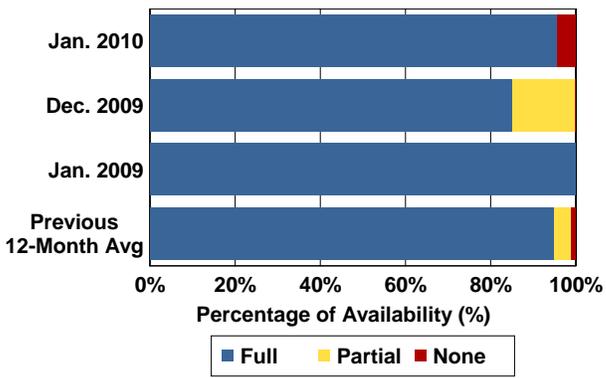
Overall Detector Availability

COMING SOON...

Individual Detector Availability

COMING SOON...

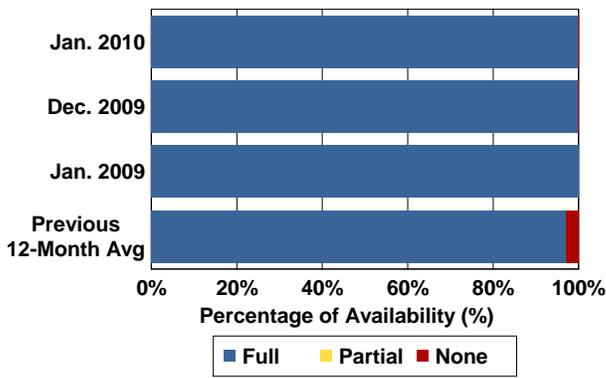
Overall DMS Availability



Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. US-131 SB @ Ann St.	53%	-	47%

Overall VSS Availability



Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
N/A			

Equipment Maintenance

