

West Michigan Transportation Operations Center

Serving Motorists on West Michigan Freeways

www.michigan.gov/its

www.michigan.gov/drive

January 2012



Suzette Peplinski, P.E.
1420 Front Avenue NW
Grand Rapids, MI 49504
PeplinskiS@michigan.gov

West Michigan TOC Control Room
E-mail: MDOT-GR-TRAFFOPS@michigan.gov
Phone: 616-451-8329
Fax: 616-774-9101

In the Spotlight

Despite overall mild temperatures, winter weather still affected driving in west Michigan in January. According to the National Weather Service (NWS), 27 inches of snow fell in Grand Rapids during January, accounting for nearly 85 percent of the total snowfall for the 2011/2012 winter to date. The majority of the snowfall in January came from four storms that each produced 6 to 8 inches of snow over a 12 to 24-hour period. The WMTOC received numerous emails from the NWS over the course of the month, which provided advance notice and information related to the anticipated timing and intensity of the various snowfall events.

The heavy snowfall was directly related to several crashes that were documented by WMTOC control room operators, including the crash "hot spots".

One of the crash hot spots noted on Page 6 of this report occurred in the vicinity of the I-196/M-11 (28th Street) interchange. Of the nine crashes that were documented at this interchange, six happened over a two-hour period on Jan. 19, when 4 to 6 inches of snow fell within 24 hours. Five of the crashes involved vehicles sliding off the freeway into the median, and the sixth crash was a secondary crash to one of the aforementioned slide-offs.

The WMTOC utilized several recently installed traffic surveillance cameras on I-196 in the vicinity of M-11 to monitor the crashes, as well as dynamic message signs on both westbound and eastbound I-196 to provide travel information to motorists.

Compiled by:
URS

WMTOC Control Room

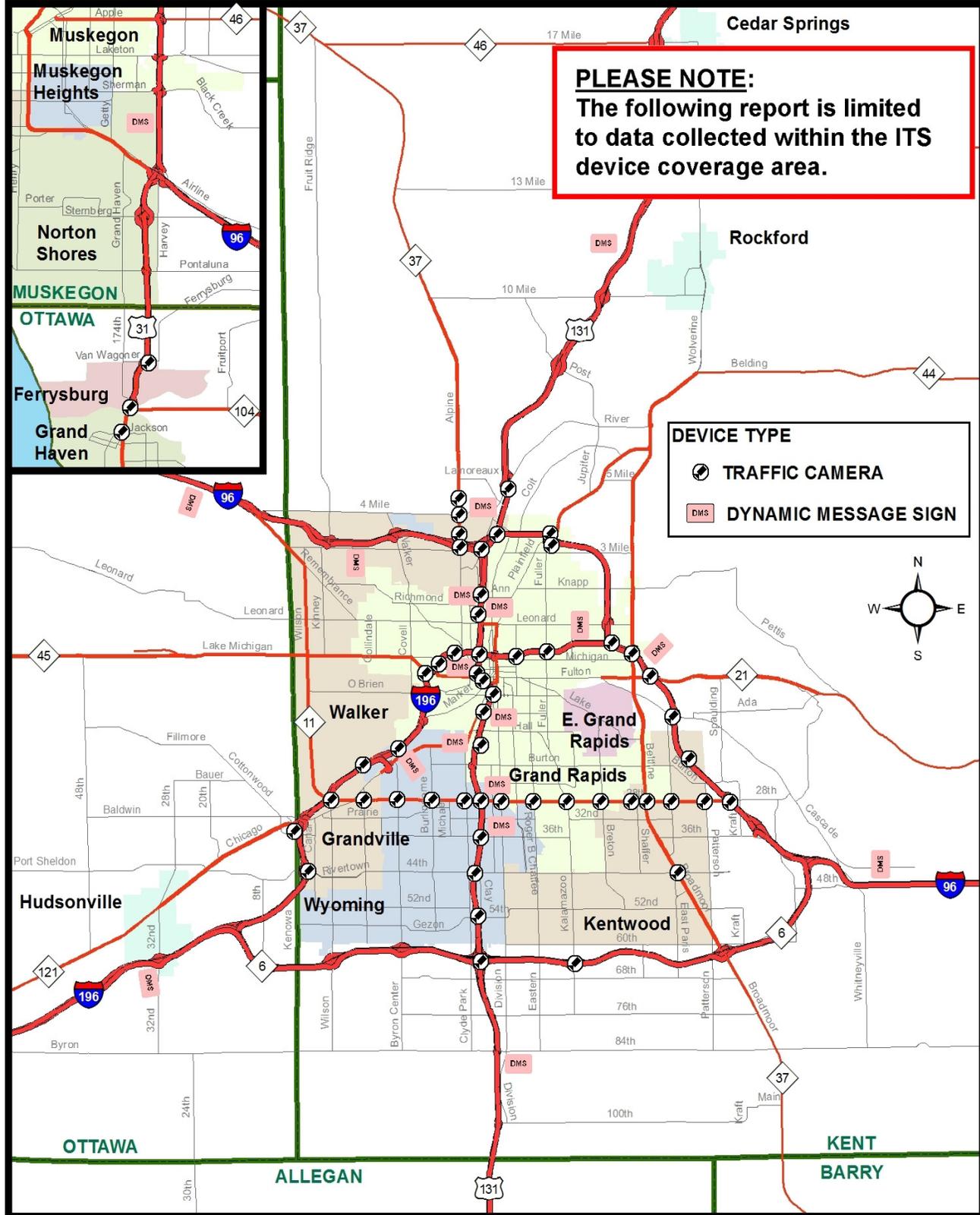
Hours of Operation

Days	Hours
Monday – Thursday	6 a.m. – 8 p.m.
Friday	6 a.m. – 9 p.m.
Saturday – Sunday	Noon – 8 p.m.
Special Events and Holidays	As needed

Contact Information

E-mail: MDOT-GR-TRAFFOPS@michigan.gov
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 Fax: 616-774-9101

ITS Device Locations and Coverage Area



Summary

Data Key

January 2012

WMTOC Communications Activity



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

Total Communication

Calls: 201
E-mails: 204

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 96.8%

Unplanned Incidents



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

Total Incidents

153

Construction Activity



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

Incidents Occurring in Work Zones

0

Daily Shift Report



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

System Availability

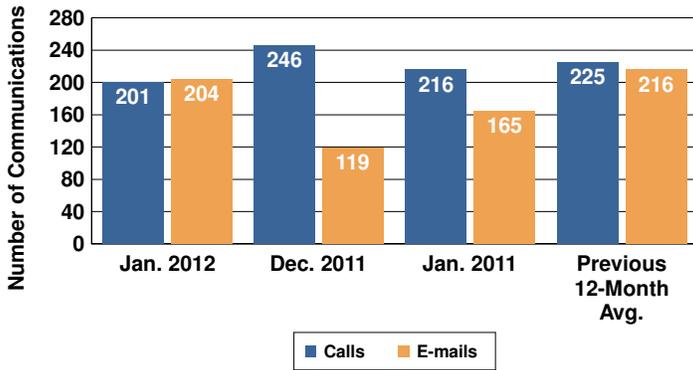
CCTV: 96%
MVDS: 74%
DMS: 92%
VSS: 100%

Calls and E-mails by Type

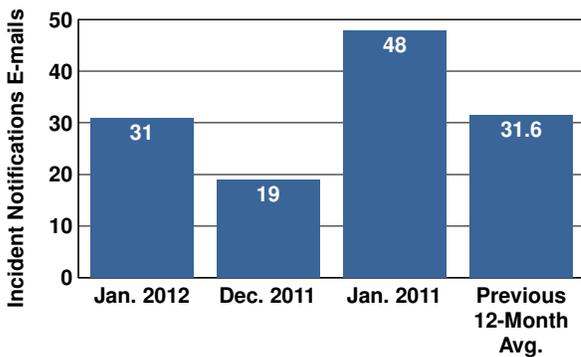


Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	0	0	11	0	11
Grand Rapids Police Department	5	60	65	0	0	0
ITS System Maintenance	6	8	14	10	0	10
Kent County Road Commission	2	2	4	0	0	0
Kent County Sheriff	0	0	0	0	0	0
Listserv (Traffic Notifications)	0	0	0	20	31	51
MDOT, Construction	1	0	1	0	0	0
MDOT, Maintenance	2	14	16	0	0	0
MDOT, Other	2	1	3	6	0	6
MDOT, Traffic/ITS	2	11	13	11	2	13
Media	1	1	2	1	0	1
Michigan State Police	7	26	33	0	0	0
Other	34	4	38	45	2	47
URS Corporation	10	2	12	2	3	5
Weather	0	0	0	60	0	60
Month Total	72	129	201	166	38	204

Communication History



Incident Notification* History



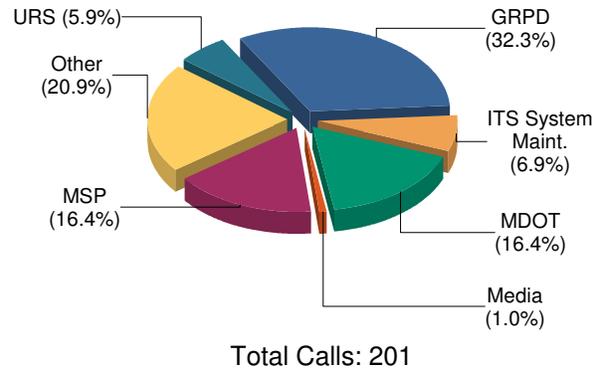
Incident Notification* Communication Accuracy



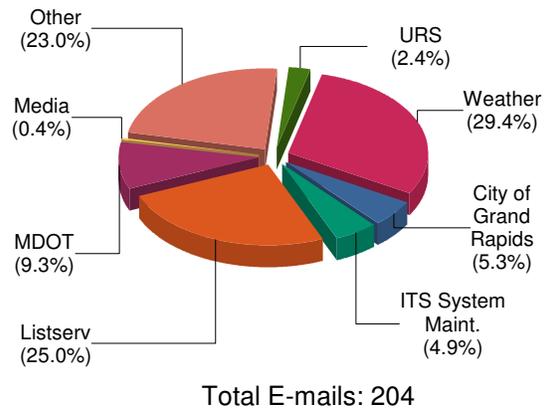
	Jan. 2012	Dec. 2011	Jan. 2011	Previous 12 Months
Format Correct	100.0%	100.0%	100.0%	98.2%
Content Correct	96.8%	100.0%	91.7%	96.6%

* Incident Notification e-mails are issued for high-impact incidents with an expected duration of 15 minutes or longer. To subscribe to this list, please visit the MDOT listserv by following this link.

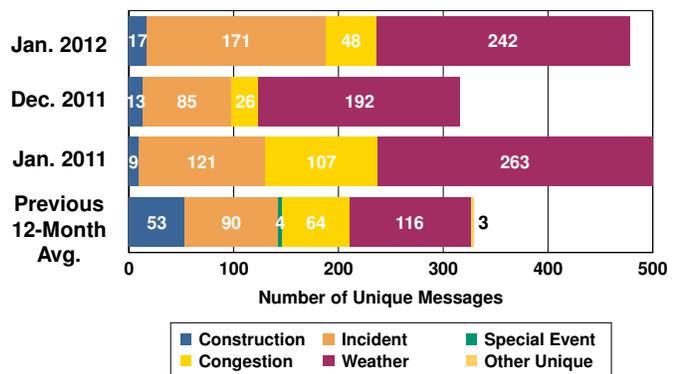
Calls by Type



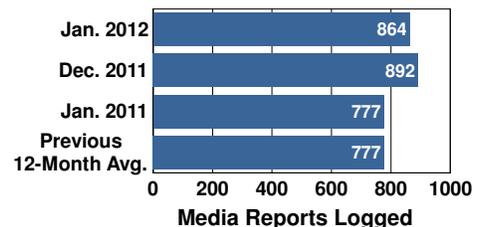
E-mails by Type



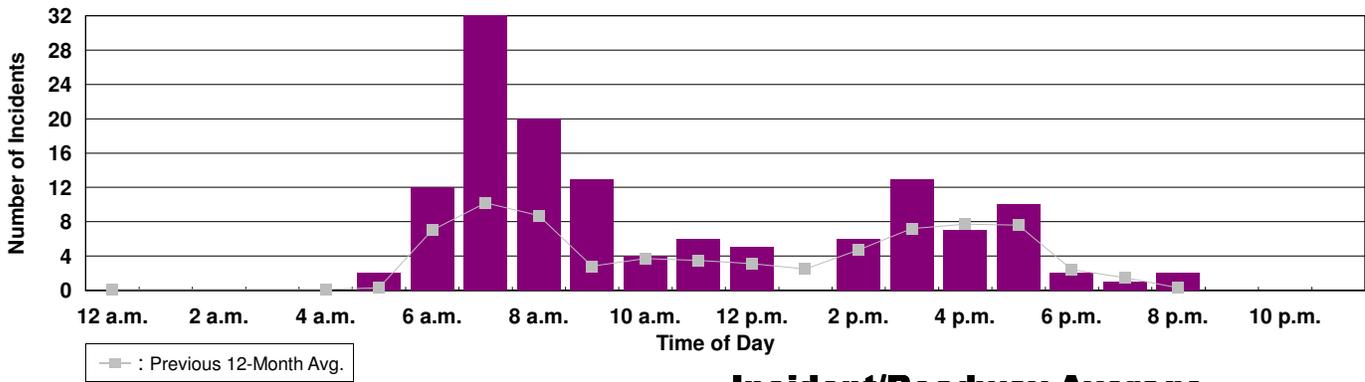
DMS and VSS Messages by Type



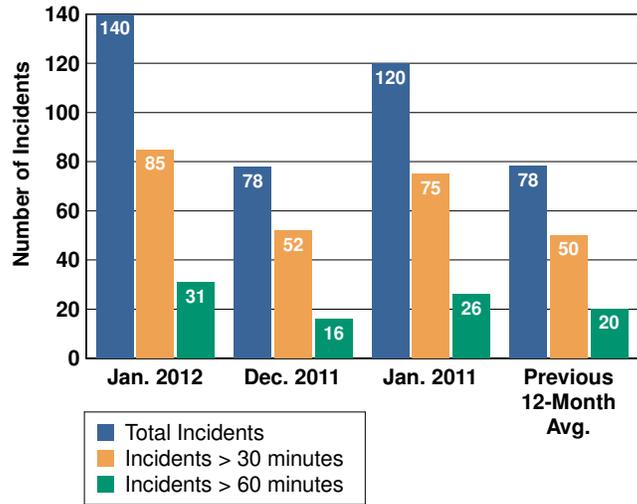
Media Audits



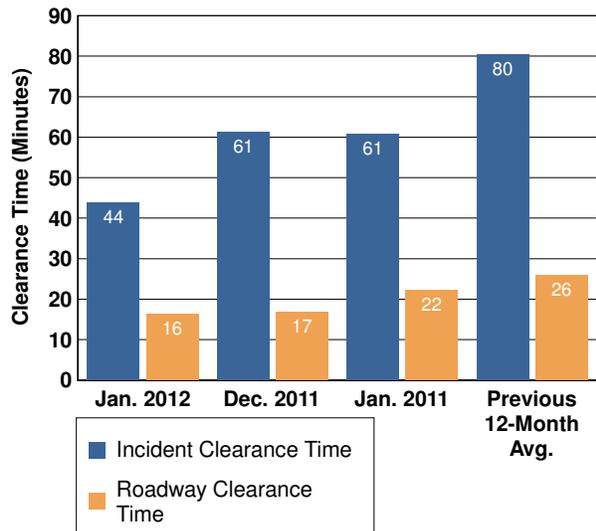
Total of Unplanned Incidents per Weekday Hour



Incident Clearance Details*

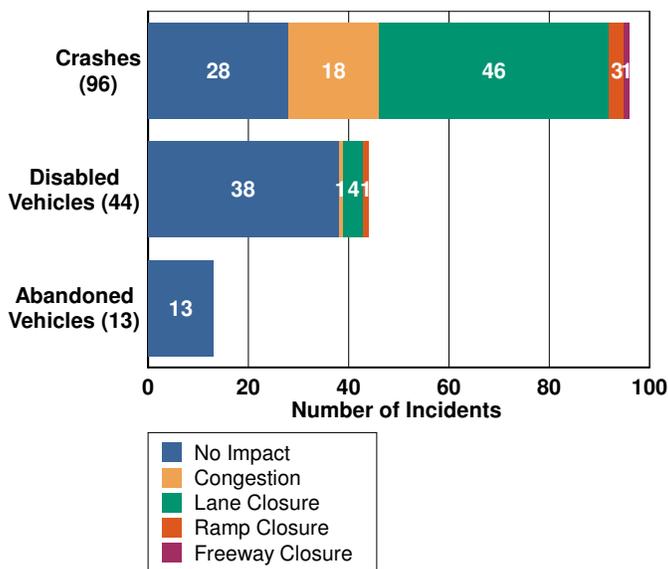


Incident/Roadway Average Clearance Times

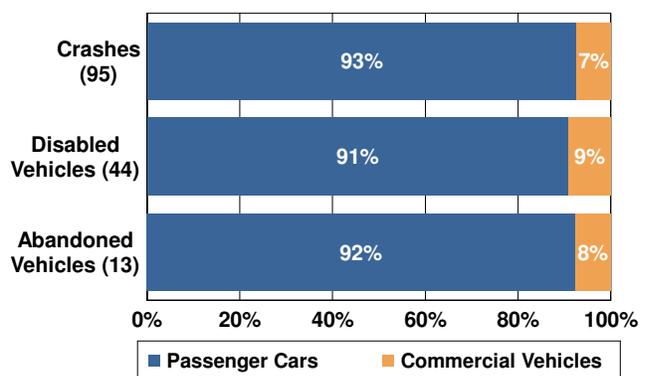


*Incident Clearance Details excludes abandoned vehicles.

Traffic Impacts by Type*



Vehicle Composition of Incidents*



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

Secondary Crashes

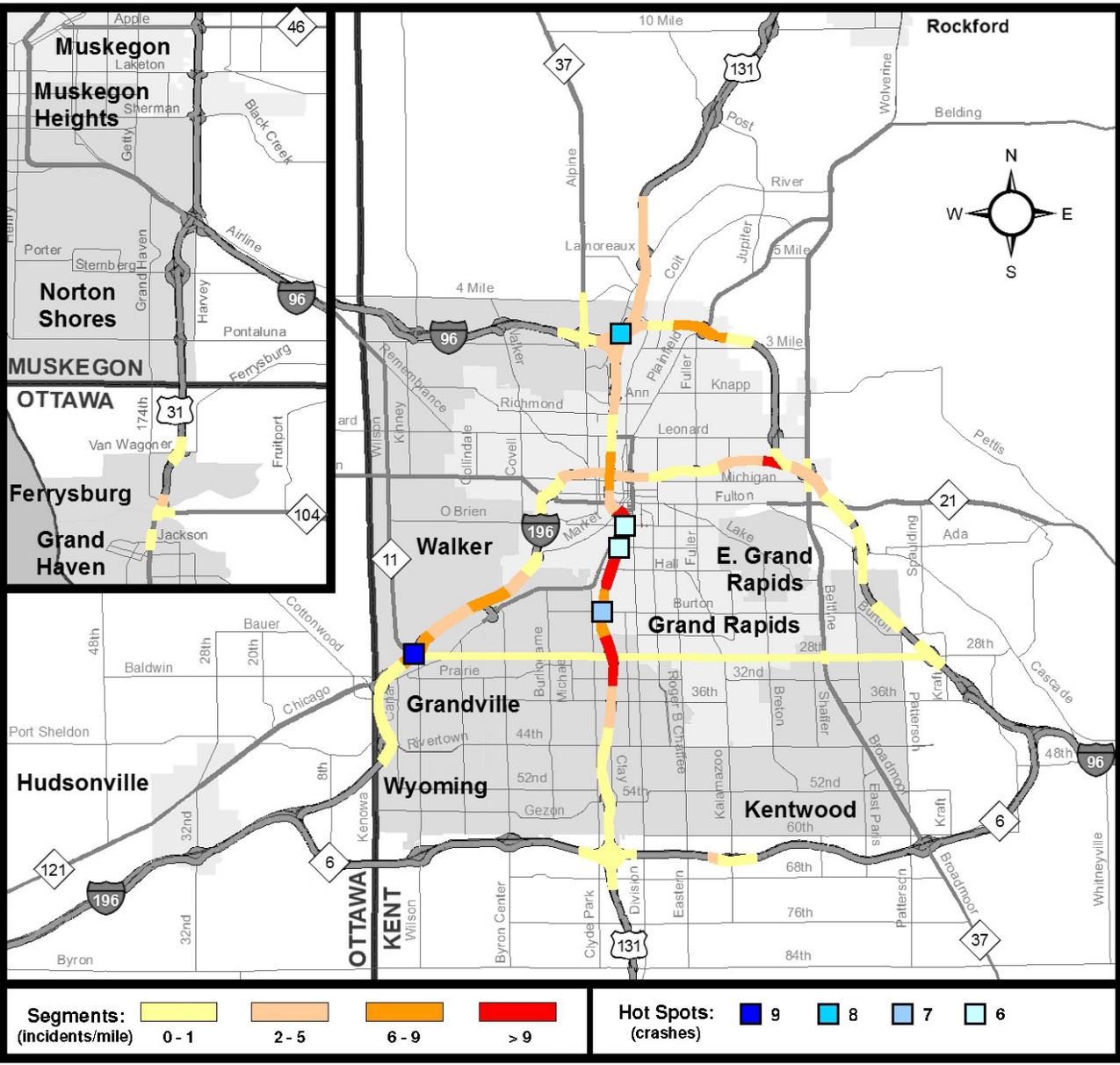


Month	Secondary Crashes	Total Crashes
January 2012	16 (17%)	96

[Note: MDOT Fiscal Year 2011 (Oct. 2010 to Sept. 2011) data is not directly comparable with current data due to differences in TOC coverage area]



Incident Density and Hot Spots Map



Incident Management



High-impact Unplanned Incident Activity*



Incident Impact	Jan. 2012	Dec. 2011	Jan. 2011	Previous 12-Month Avg.
Lane Closure	50	29	52	35.2
Ramp Closure	4	6	6	4
Freeway Closure	1	-	7	1.6

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

Unplanned Incidents by Roadway within Coverage Area

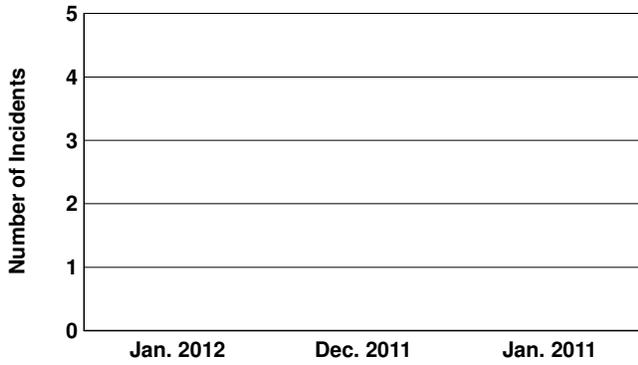


Freeway/Arterial	Jan. 2012		Dec. 2011		Jan. 2011		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (10.6 mi.)	24	2.3	14	1.3	16	1.5	9.7	0.9
I-196 (12.1 mi.)	35	2.9	18	1.5	33	2.7	20.0	1.7
US-131 (15.2 mi.)	86	5.7	47	3.1	68	4.5	49.8	3.3
US-31 (1.7 mi.)	2	1.2	0	0	-	-	0.1	0
M-6 (4 mi.)	2	0.5	2	0.5	-	-	0.4	0.1
M-11 (11.5 mi.)	1	0.1	0	0	-	-	0.2	0
Month Total	150	2.7	81	1.5	117	2.1	80.2	1.5

[Note: MDOT Fiscal Year 2011 (Oct. 2010 to Sept. 2011) data is not directly comparable with current data due to differences in TOC coverage area]



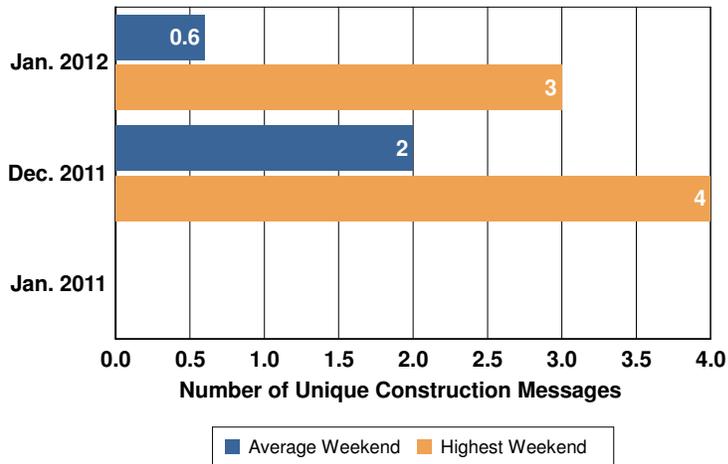
Incidents Occurring in Work Zones



Work Zone Incident Details:

During the month of January, no incidents were identified by operators as being within work zones. This is consistent with the data from Dec. 2011 and Jan. 2011.

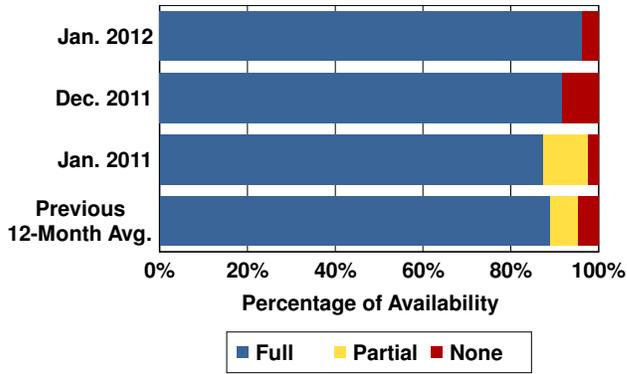
Weekend* Construction DMS Message Activity



* Friday, Saturday and Sunday.



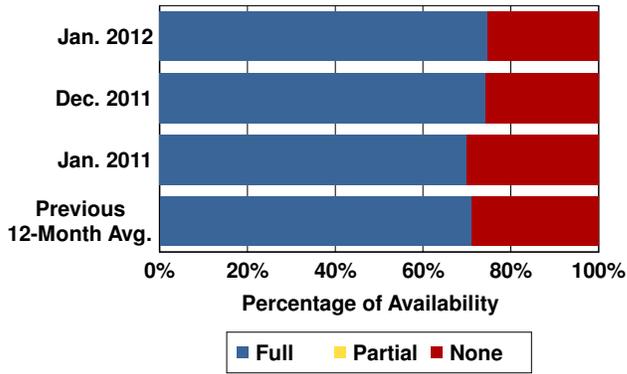
Overall CCTV Camera Availability



Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. I-96 @ E. Beltline Ave.	-	-	100%

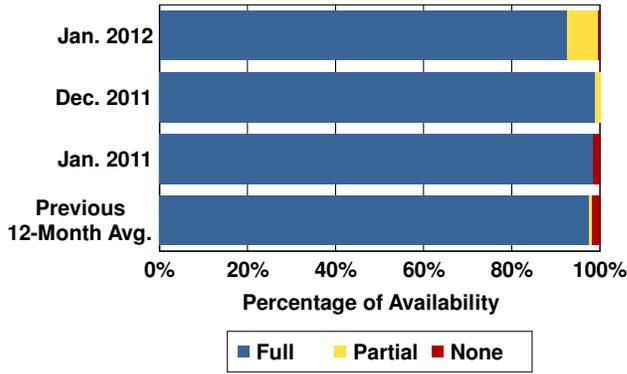
Overall Detector Availability



Individual Detector Availability

Vehicle Detectors Below 95% Availability			
Location	Full	Partial	None
1. 114N - I-196 WB @ Monroe	-	-	100%
2. 114S - I-196 EB @ Ottawa	-	-	100%
3. 122 - I-196 @ Maryland	-	-	100%
4. 125 - I-96 EB @ E. Beltline	-	-	100%
5. 127 - I-96 E of E. Beltline	-	-	100%
6. 201 - US-131 NB S of 36th	-	-	100%
7. 204 - US-131 NB S of 28th	-	-	100%
8. 226 - US-131 SB @ I-96 WB	-	-	100%
9. 227 - US-131 NB @ I-96 WB	-	-	100%
10. 229 - US-131 @ I-96	-	-	100%
11. 220 - I-196 @ US-131	52%	-	48%

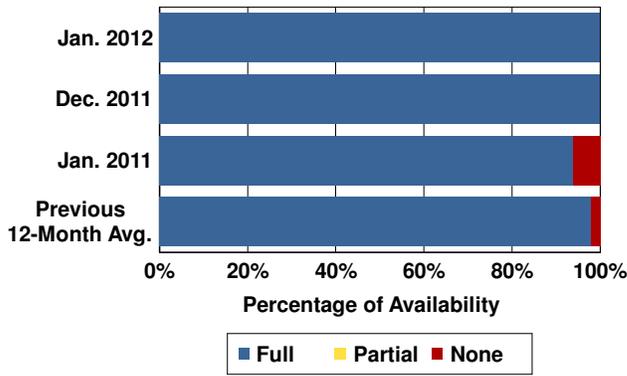
Overall DMS Availability



Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. I-196 EB @ Chicago Dr.	-	100%	-
2. US-131 NB @ 36th St.	82%	17%	1%
3. US-131 SB @ Pearl St.	83%	13%	4%

Overall VSS Availability



Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
None.			

