

West Michigan Transportation Operations Center

Serving Motorists on West Michigan Freeways

www.michigan.gov/its

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February 2012



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West Michigan TOC Control Room
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In the Spotlight

State trunklines in west Michigan were closed five times due to crashes in February, up sharply from the previous 12-month average of 1.1 closures per month.

The closures occurred in the following areas:

- Eastbound I-96 at M-21 (Fulton Street)
- Southbound US-131 at 100th Street
- M-37 at 13 Mile Road (non-freeway)
- Eastbound I-96 at M-50 (Alden Nash Avenue)
- Southbound US-31 at the Bascule Bridge

Two of these closures highlighted the cooperation and partnership between the West Michigan Transportation Operations Center (WMTOC) in Grand Rapids and the Statewide Transportation Operations Center (STOC) in Lansing since, in February, the STOC began providing limited control room coverage in west Michigan after WMTOC hours.

The crash on M-37 occurred just after normal WMTOC control room hours and the STOC was able to step in and coordinate with law enforcement personnel and first responders to provide traffic information to motorists.

A similar situation occurred with the crash on eastbound I-96 at M-50, which took place near the end of normal WMTOC control room hours. The WMTOC was able to coordinate with the STOC before handing off control at the end of the shift. The STOC was then able to alert west Michigan motorists of the crash and closure using dynamic message signs while also coordinating with first responders until the crash scene was cleared and the freeway reopened.



WMTOC Control Room

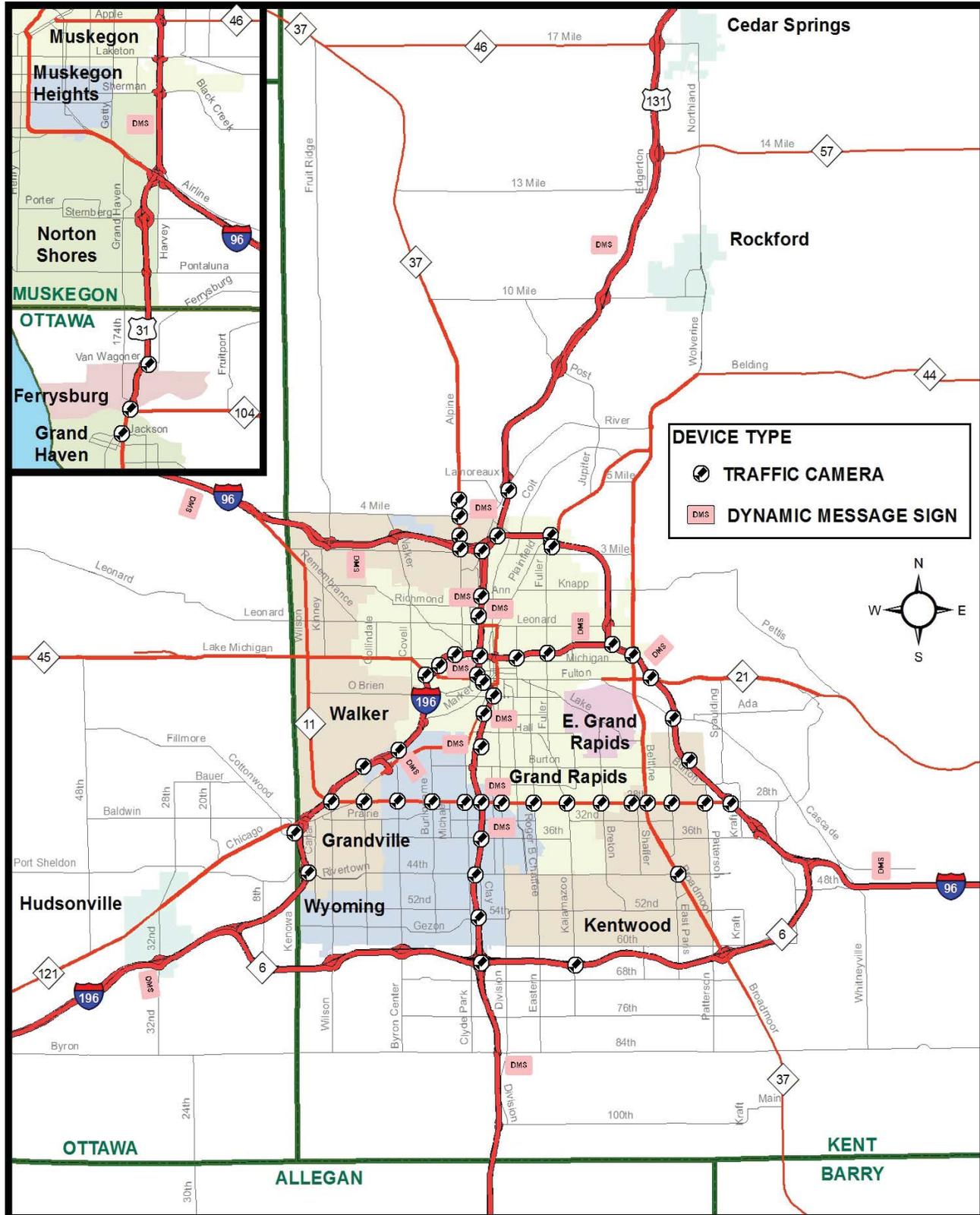
Hours of Operation

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

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ITS Device Locations and Coverage Area



Summary

Data Key

February 2012

WMTOC Communications Activity



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

Total Communication

Calls: 223
E-mails: 208

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 97.1%

Unplanned Incidents



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

Total Incidents

99

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: 98%
MVDS: 71%
DMS: 94%
VSS: 100%

PLEASE NOTE:

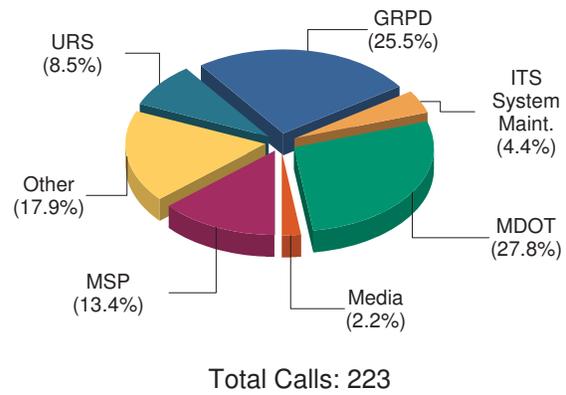
The following report is limited to data collected within the ITS device coverage area as seen on previous page.

Calls and E-mails by Type

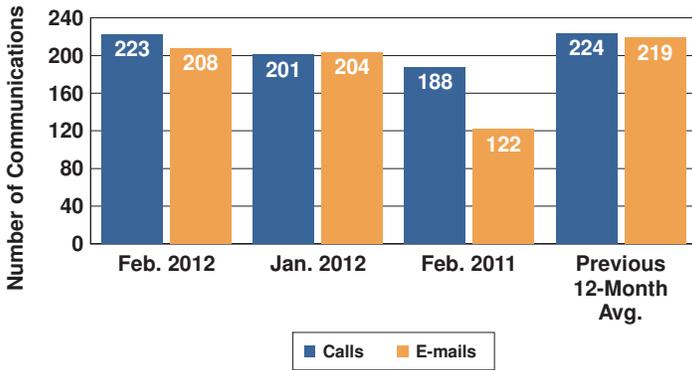


Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	0	0	18	0	18
Grand Rapids Police Department	1	56	57	0	0	0
ITS System Maintenance	9	1	10	20	0	20
Kent County Road Commission	2	1	3	0	0	0
Kent County Sheriff	0	0	0	0	0	0
Listserv (Traffic Notifications)	0	0	0	18	35	53
MDOT, Construction	0	0	0	1	0	1
MDOT, Maintenance	5	9	14	0	0	0
MDOT, Other	4	2	6	6	3	9
MDOT, Traffic/ITS	3	39	42	21	3	24
Media	4	1	5	1	0	1
Michigan State Police	5	25	30	0	0	0
Other	22	15	37	35	3	38
URS Corporation	15	4	19	6	1	7
Weather	0	0	0	37	0	37
Month Total	70	153	223	163	45	208

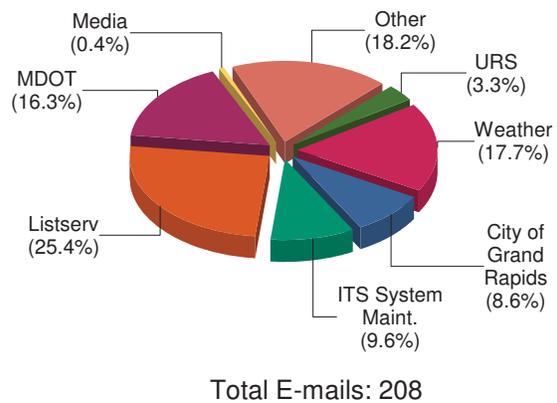
Calls by Type



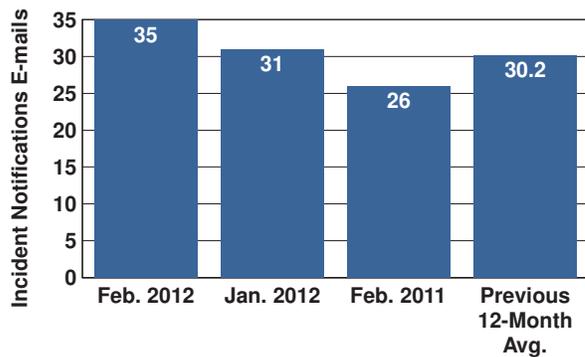
Communication History



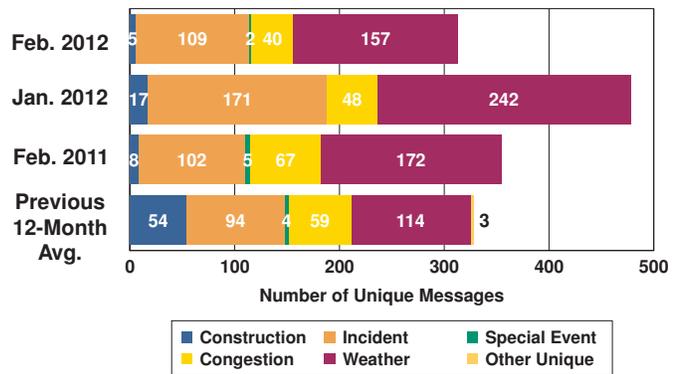
E-mails by Type



Incident Notification* History



DMS and VSS Messages by Type

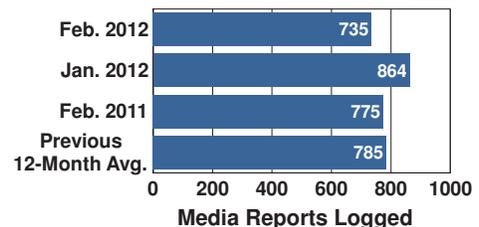


Incident Notification* Communication Accuracy



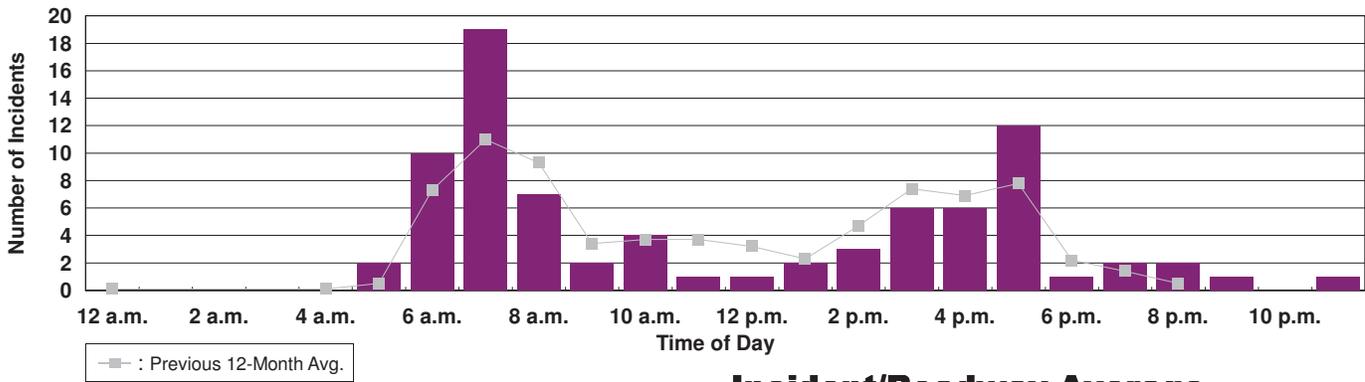
	Feb. 2012	Jan. 2012	Feb. 2011	Previous 12 Months
Format Correct	100.0%	100.0%	100.0%	98.1%
Content Correct	97.1%	96.8%	100.0%	97.2%

Media Audits

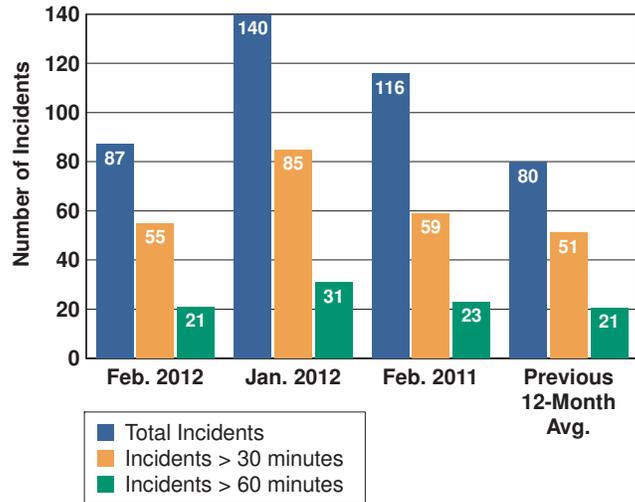


* Incident Notification e-mails are issued for high-impact incidents with an expected duration of 15 minutes or longer. To subscribe to this list, please visit the MDOT listserv by following this link.

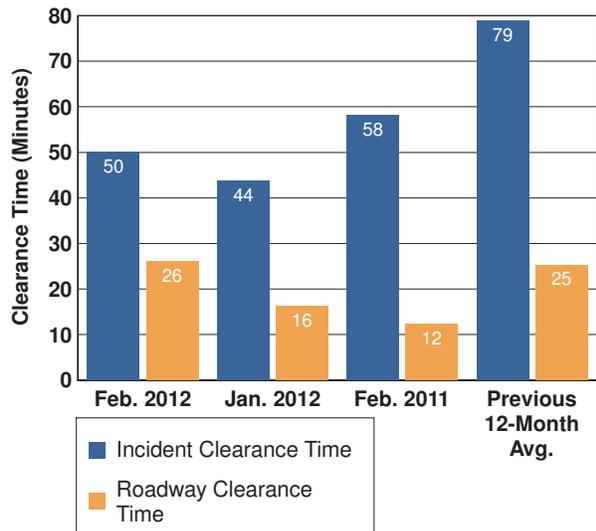
Total of Unplanned Incidents per Weekday Hour



Incident Clearance Details*

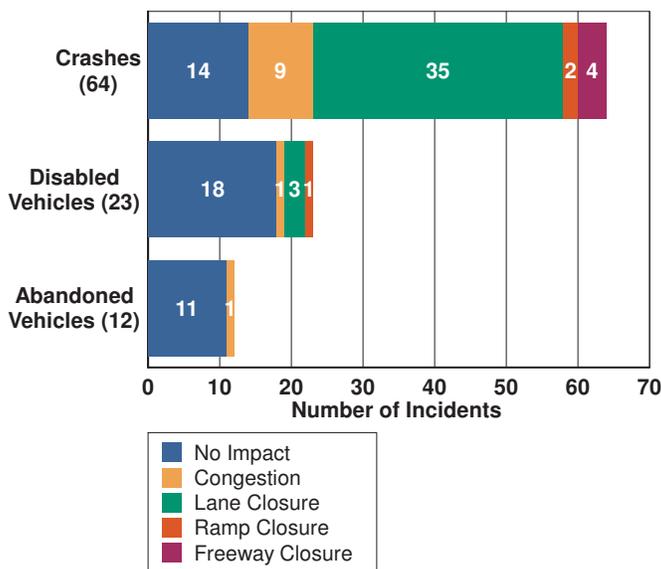


Incident/Roadway Average Clearance Times

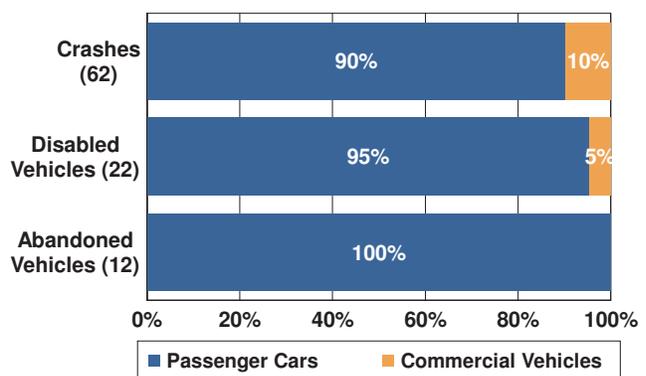


*Incident Clearance Details excludes abandoned vehicles.

Traffic Impacts by Type



Vehicle Composition of Incidents*



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

Secondary Crashes

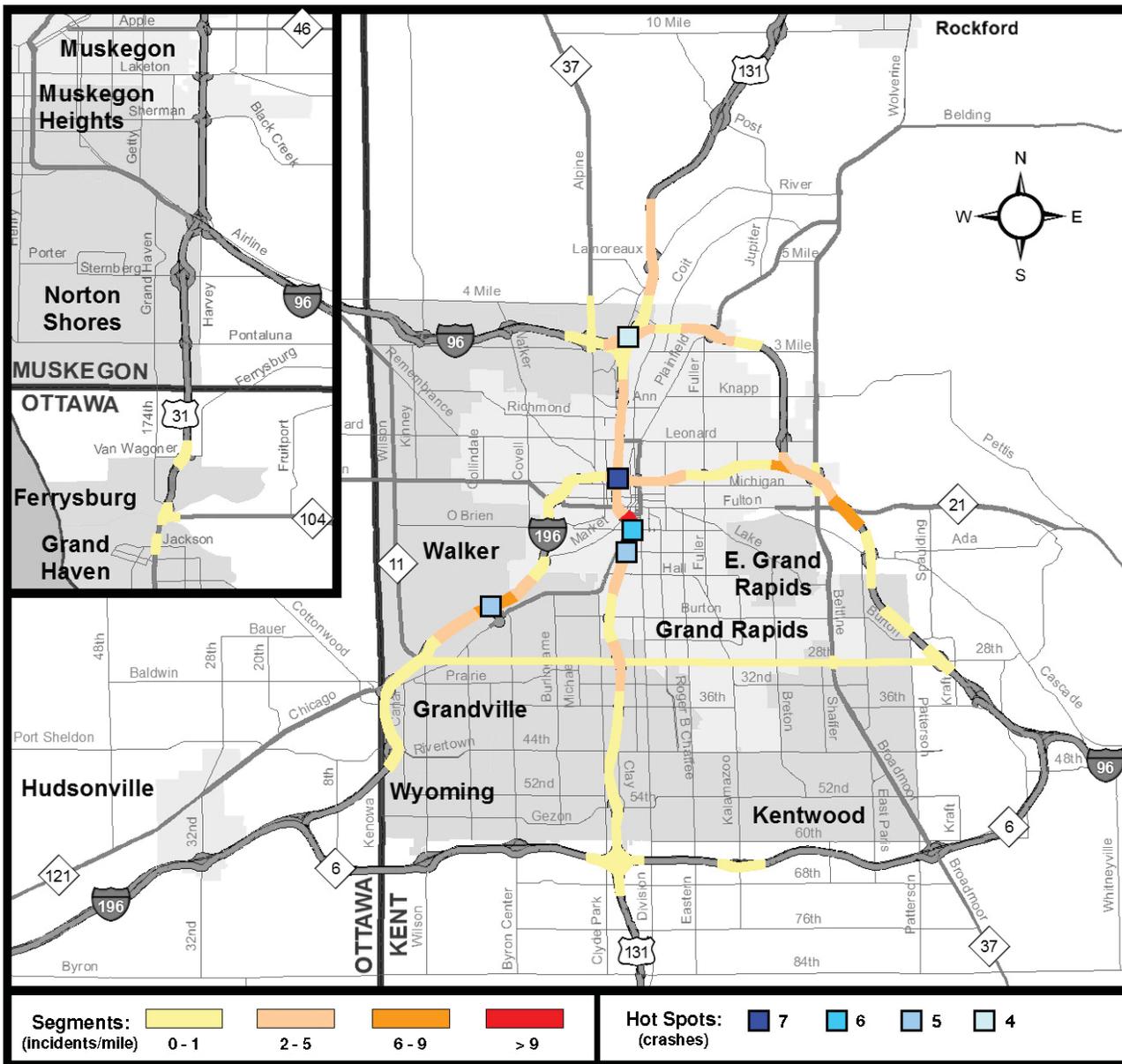


Month	Secondary Crashes	Total Crashes
February 2012	4 (6%)	64

Note: Data from Oct. 2010 to Sept. 2011 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	Feb. 2012	Jan. 2012	Feb. 2011	Previous 12-Month Avg.
Lane Closure	38	50	39	35.3
Ramp Closure	3	4	6	3.1
Freeway Closure	4	1	-	1.1

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

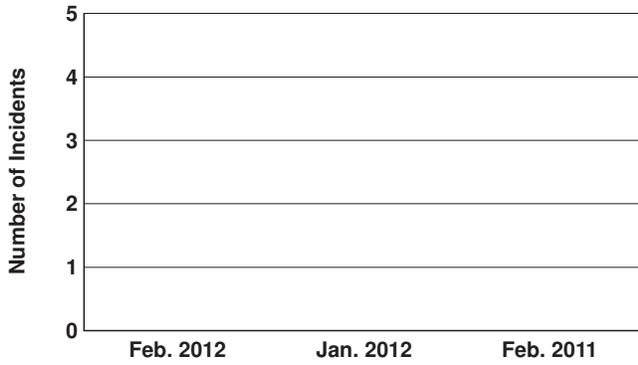
Unplanned Incidents by Roadway within Coverage Area



Freeway/Arterial	Feb. 2012		Jan. 2012		Feb. 2011		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (10.6 mi.)	20	1.9	24	2.3	16	1.5	10.3	1.0
I-196 (12.1 mi.)*	21	1.7	35	2.9	21	1.7	20.2	1.7
US-131 (15.2 mi.)	46	3.0	86	5.7	86	5.7	51.3	3.4
US-31 (1.7 mi.)	3	1.8	2	1.2	-	-	0.2	0.1
M-6 (4 mi.)	0	0	2	0.5	-	-	0.6	0.1
M-11 (11.5 mi.)	3	0.3	1	0.1	-	-	0.3	0
Month Total	93	1.7	150	2.7	123	2.2	82.9	1.5

Note: Data from Oct. 2010 to Sept. 2011 is not directly comparable with current data due to differences in TOC coverage area.

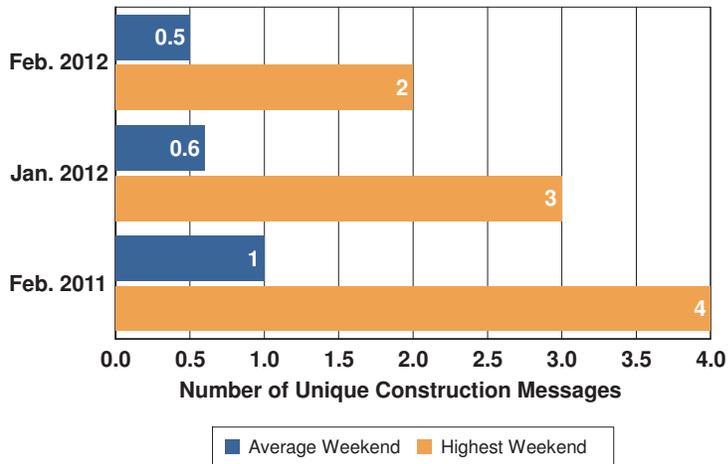
Incidents Occurring in Work Zones



Work Zone Incident Details:

During the month of February, no incidents were identified by operators as being within work zones. This is consistent with the data from Jan. 2012 and Feb. 2011.

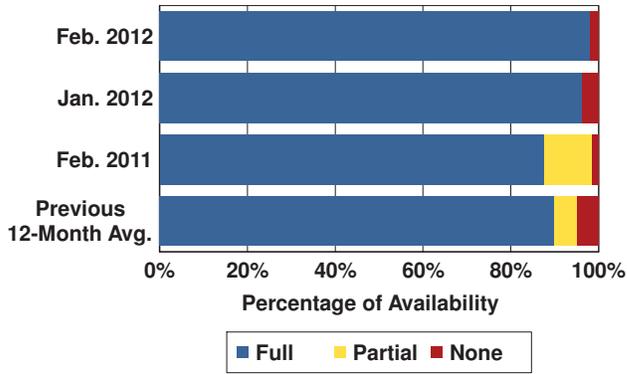
Weekend* Construction DMS Message Activity



* Friday, Saturday and Sunday.



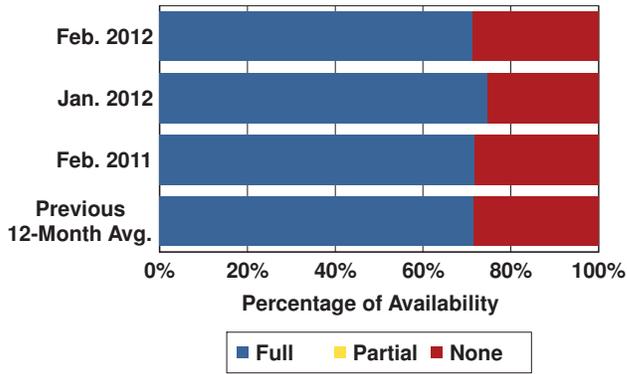
Overall CCTV Camera Availability



Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. I-96 @ E. Beltline Ave.	53%	-	47%

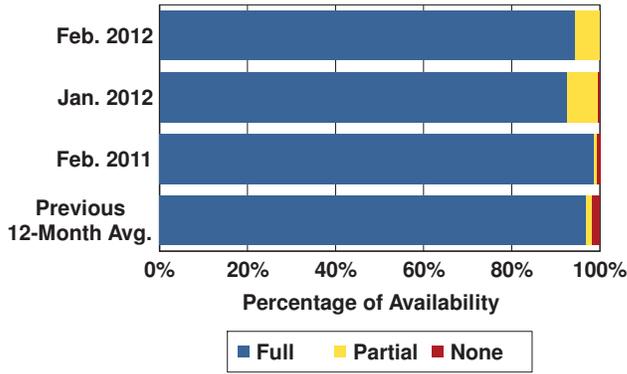
Overall Detector Availability



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. 125 - I-96 EB @ E. Beltline	-	-	100%
4. 201 - US-131 NB S of 36th	-	-	100%
5. 204 - US-131 NB S of 28th	-	-	100%
6. 220 - I-196 @ US-131	-	-	100%
7. 226 - US-131 SB @ I-96 WB	-	-	100%
8. 227 - US-131 NB @ I-96 WB	-	-	100%
9. 229 - US-131 @ I-96	-	-	100%
10. 126 - I-96 W of E. Beltline	44%	-	56%
11. 109 - I-196 @ Jackson	45%	-	55%

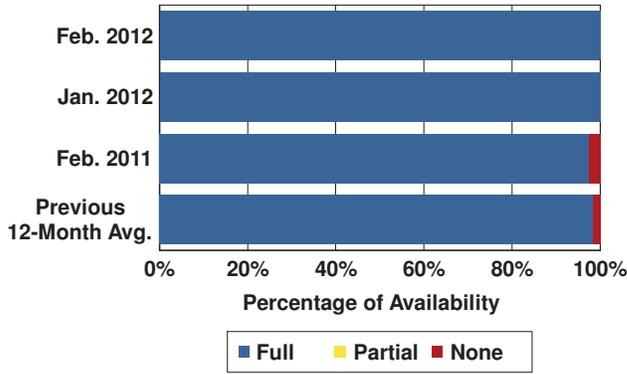
Overall DMS Availability



Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. I-196 EB @ Chicago Dr.	-	100%	-

Overall VSS Availability



Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
None.			

