

West Michigan Transportation Operations Center

July 2012

Serving Motorists Across West Michigan

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In the Spotlight



Many special events are held every summer across Michigan, and western Michigan has its fair share.

The staff of West Michigan Transportation Operations Center (WMTOC) prepares for these events by contacting the event coordinator, the Michigan Department of Transportation (MDOT), the Michigan State Police (MSP), the Grand Rapids Police Department and local law enforcement agencies. Working with these partners, the WMTOC verifies event dates and times, lane or ramp closures that may be necessary and construction projects that may influence traffic operations near the event. Dynamic message signing plans are then developed in coordination with the applicable partners for use before and during the event.

This July, the WMTOC coordinated message plans for and monitored traffic operations during the "Cost of Freedom Tribute" motorcycle ride and the Coast Guard Festival. Control room operators also monitored traffic until 2 a.m. during the July 4th fireworks displays in Grand Rapids and Grand Haven due to the after-hours nature of these events.

Additional staff worked during the motorcycle event to manage the potential for traffic impacts. In addition to the extra WMTOC staff, MSP and the Kentwood Police Department posted officers in the control room during the motorcycle event to serve as a command post and provide interoperable communication between WMTOC staff and the law enforcement agencies. The additional staffing resulted in a well-coordinated special event and minimal delay to motorists.

Compiled by:
URS

WMTOC Control Room

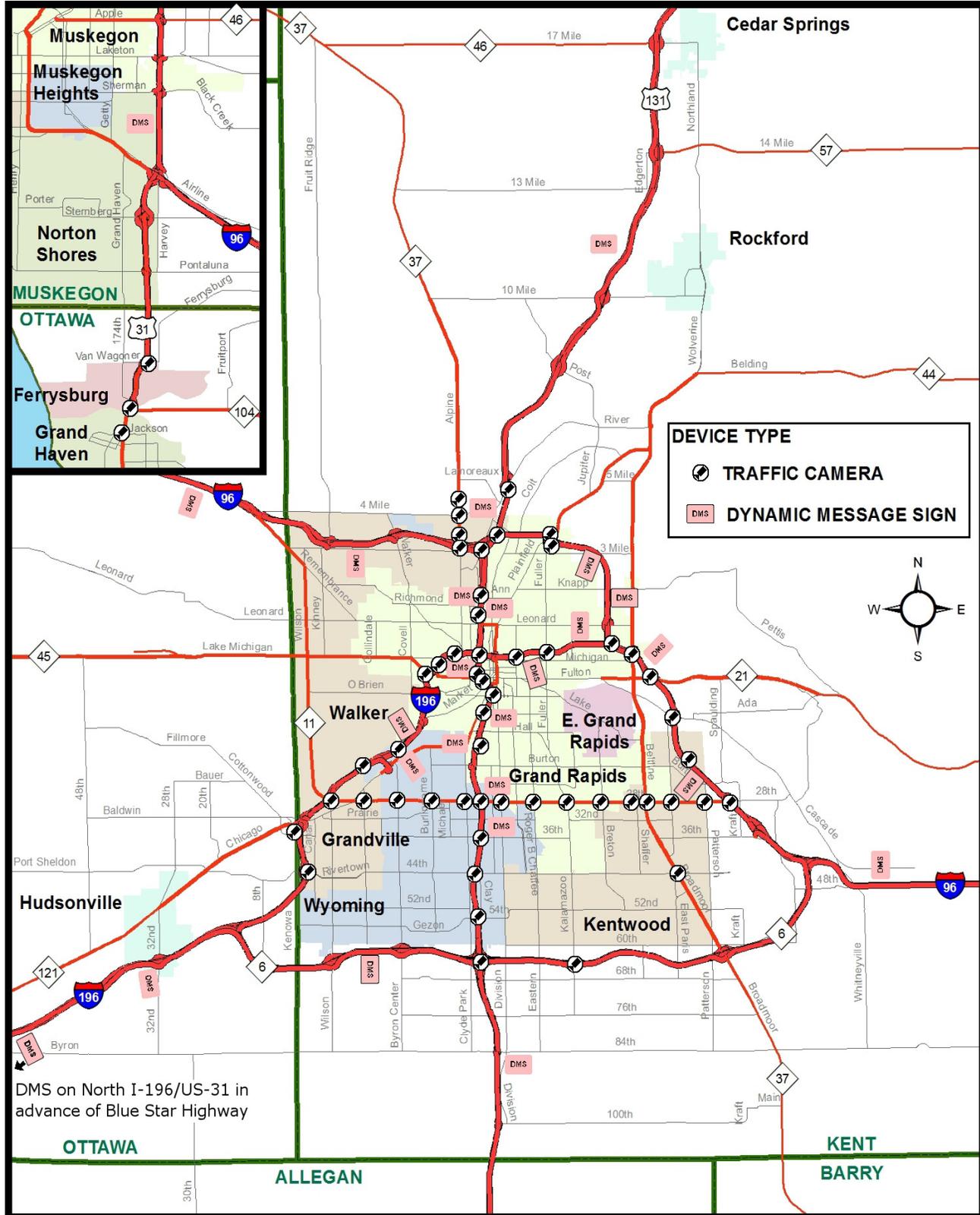
Hours of Operation

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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ITS Device Locations and Coverage Area



DMS on North I-196/US-31 in advance of Blue Star Highway

Summary

Data Key

July 2012

WMTOC Communications Activity



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

Total Communication

Calls: 343
E-mails: 303

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 94.6%
Content Correct 91.9%

Unplanned Incidents



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

Total Incidents

110

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

12

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: 81%
DMS: 83%
VSS: 100%

PLEASE NOTE:

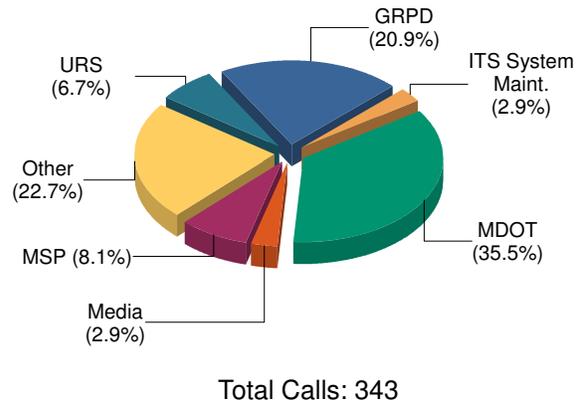
The following report is limited to data collected within the ITS device coverage area as seen on previous page.

Calls and E-mails by Type

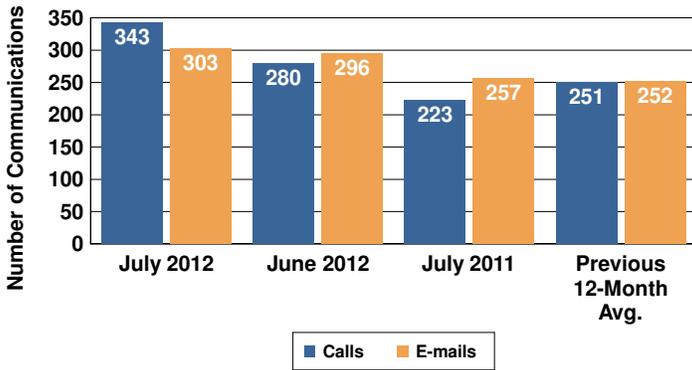


Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	0	0	16	0	16
Grand Rapids Police Department	3	69	72	0	0	0
ITS System Maintenance	3	7	10	35	4	39
Kent County Road Commission	3	15	18	0	0	0
Kent County Sheriff	0	5	5	0	0	0
Listserv (Traffic Notifications)	0	0	0	49	37	86
MDOT, Construction	11	7	18	55	3	58
MDOT, Maintenance	10	16	26	2	1	3
MDOT, Other	3	2	5	0	0	0
MDOT, Traffic/ITS	8	65	73	18	4	22
Media	8	2	10	3	1	4
Michigan State Police	6	22	28	0	0	0
Other	22	33	55	7	3	10
URS Corporation	15	8	23	2	3	5
Weather	0	0	0	60	0	60
Month Total	92	251	343	247	56	303

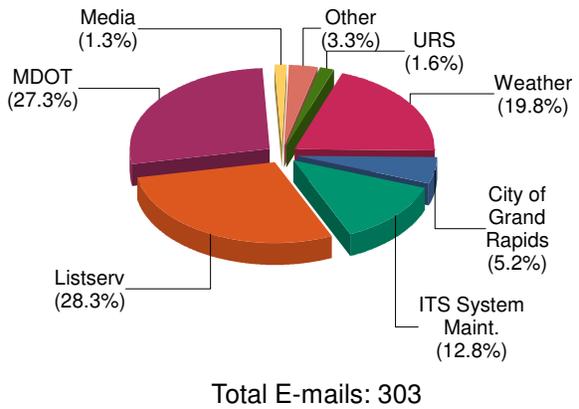
Calls by Type



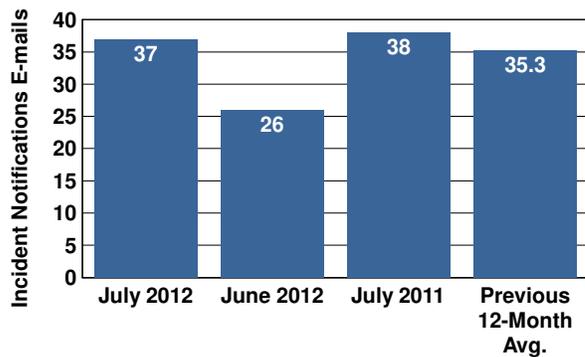
Communication History



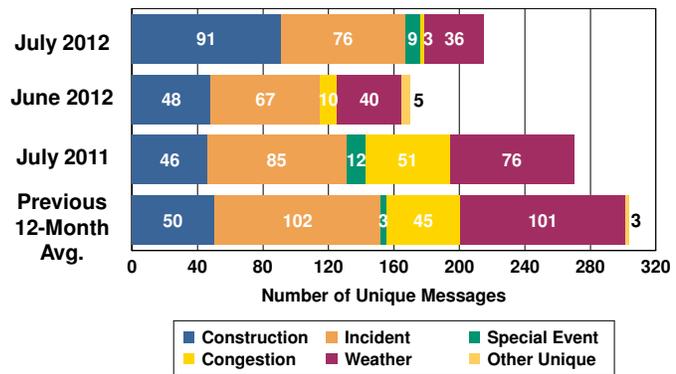
E-mails by Type



Incident Notification* History



DMS and VSS Messages by Type

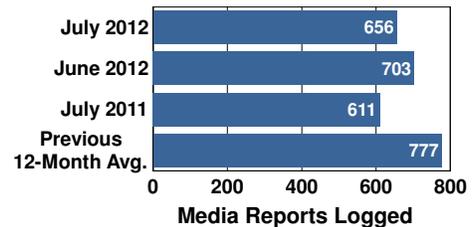


Incident Notification* Communication Accuracy



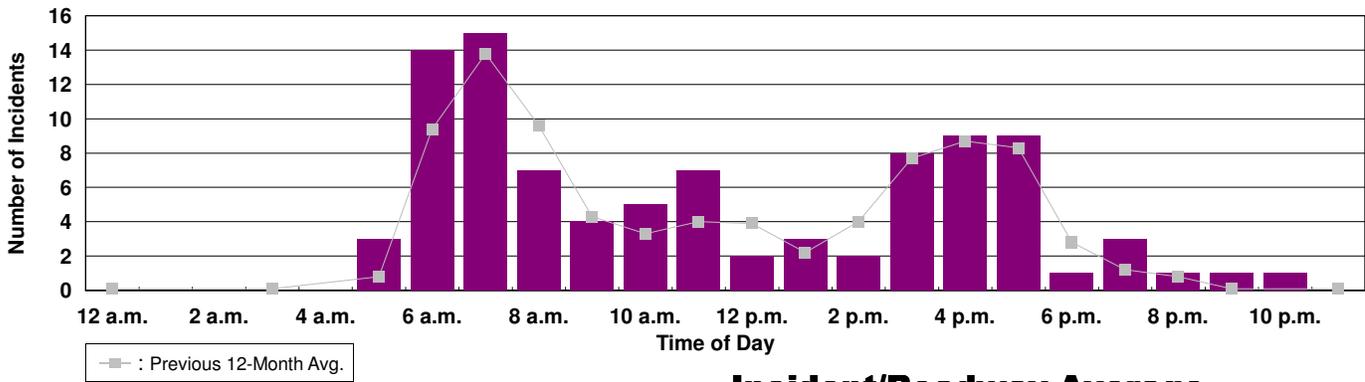
	July 2012	June 2012	July 2011	Previous 12 Months
Format Correct	94.6%	100.0%	97.4%	98.8%
Content Correct	91.9%	96.2%	97.4%	97.2%

Media Audits

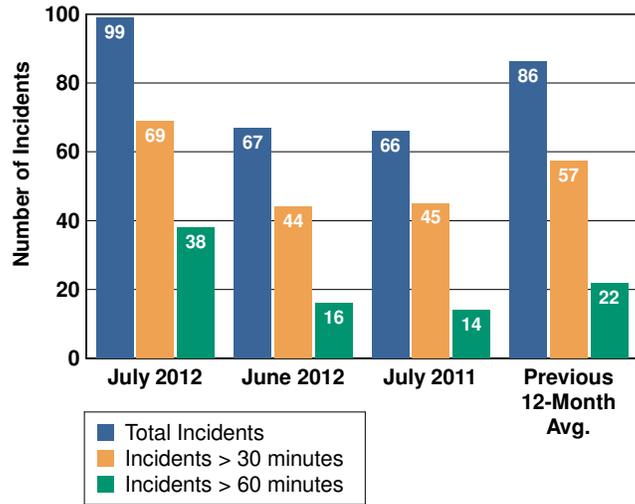


* Incident Notification e-mails are issued for high-impact incidents with an expected duration of 15 minutes or longer. To subscribe to this list, please visit the MDOT listserv at: <http://1.usa.gov/qZzuHo>.

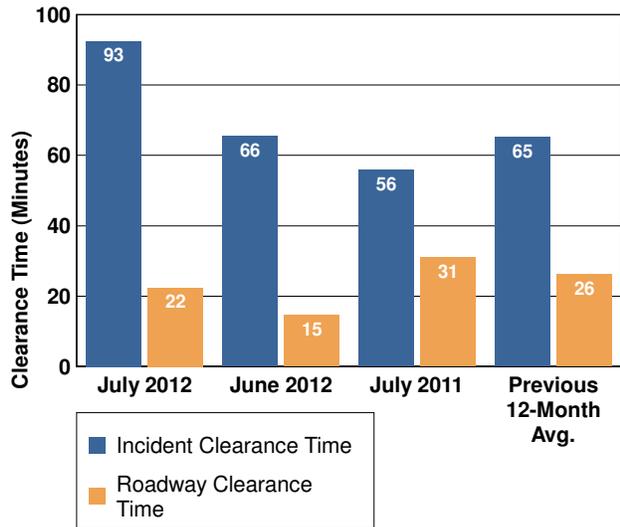
Total of Unplanned Incidents per Weekday Hour



Incident Clearance Details*

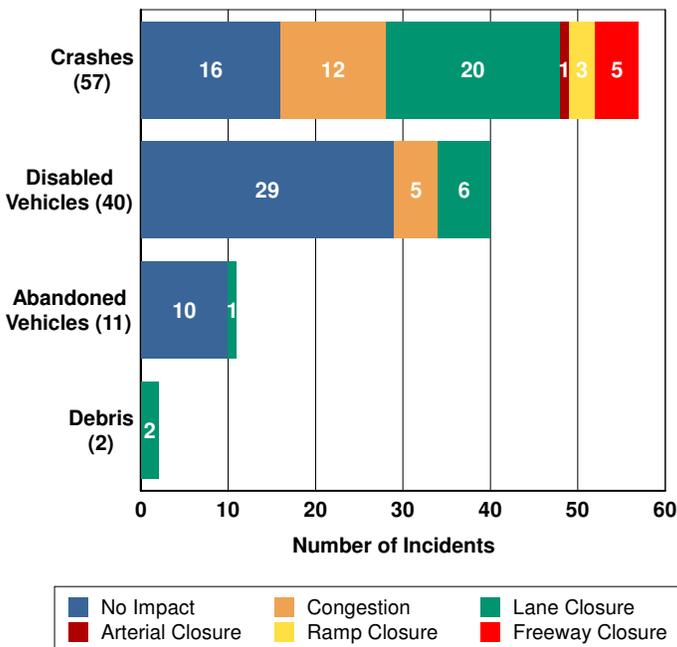


Incident/Roadway Average Clearance Times

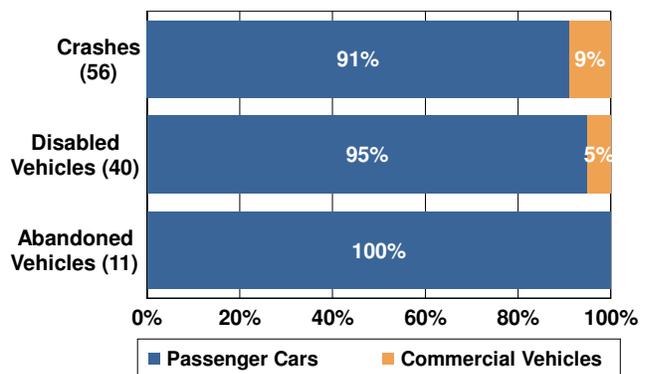


*Incident Clearance Details excludes abandoned vehicles.

Traffic Impacts by Type



Vehicle Composition of Incidents*



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

Secondary Crashes

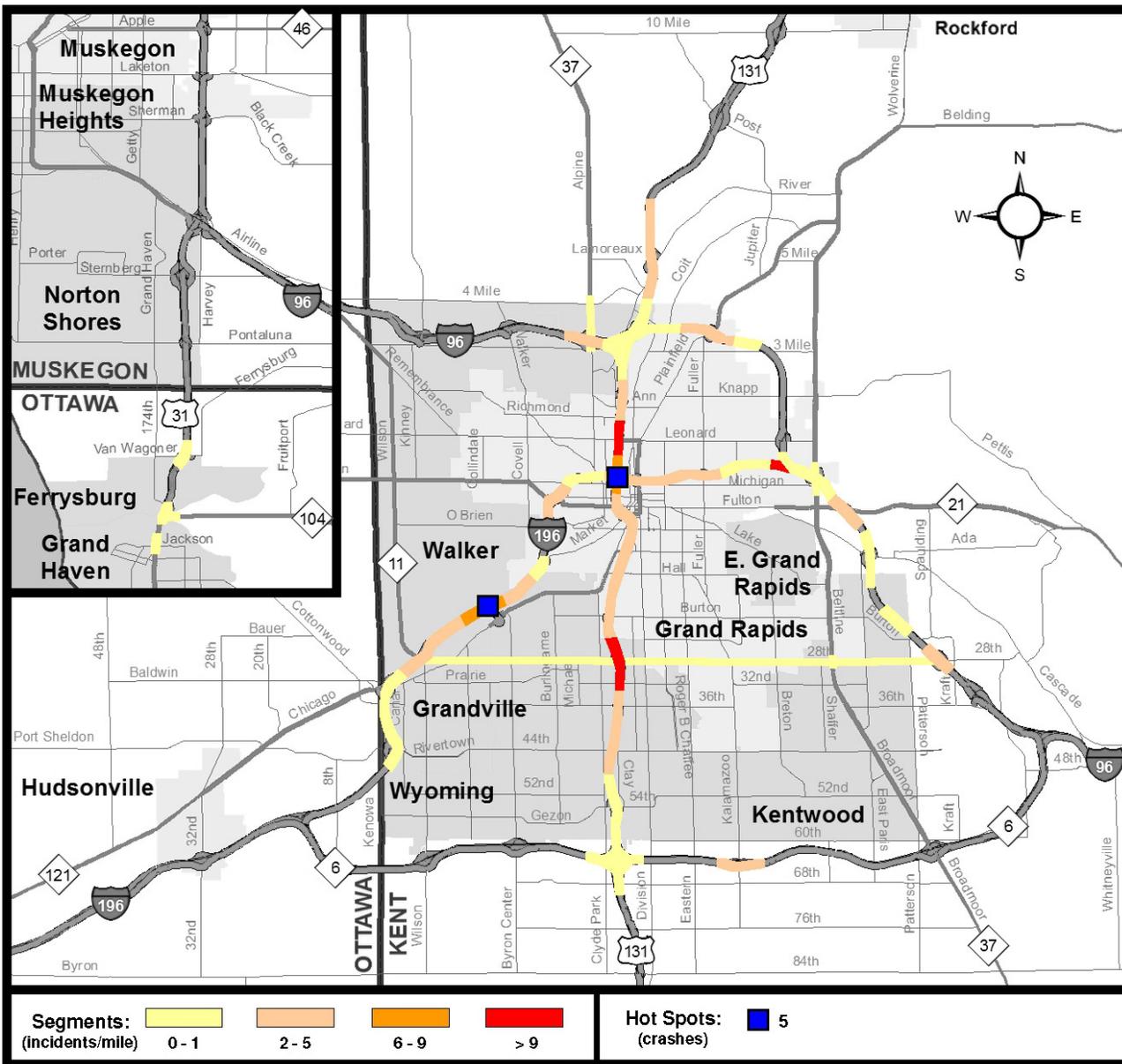


Month	Secondary Crashes	Total Crashes
July 2012	3 (5%)	56

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	July 2012	June 2012	July 2011	Previous 12-Month Avg.
Lane Closure	29	28	36	39.1
Ramp Closure	3	1	3	2.8
Freeway Closure	5	1	3	2.3

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

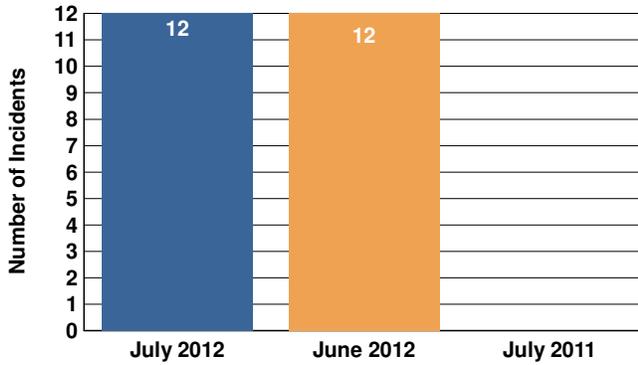
Unplanned Incidents by Roadway within Coverage Area



Freeway/Arterial	July 2012		June 2012		July 2011		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (10.6 mi.)	11	1.0	7	0.7	7	0.7	12.8	1.2
I-196 (12.1 mi.)	30	2.5	18	1.5	20	1.7	23.1	1.9
US-131 (15.2 mi.)	55	3.6	45	3.0	45	3.0	50.7	3.3
US-31 (1.7 mi.)	0	0	0	0	1	0.6	0.8	0.5
M-6 (4 mi.)	2	0.5	0	0	-	-	0.8	0.2
M-11 (11.5 mi.)	0	0	0	0	-	-	0.5	0
Month Total	98	1.8	70	1.3	73	1.3	88.7	1.6

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

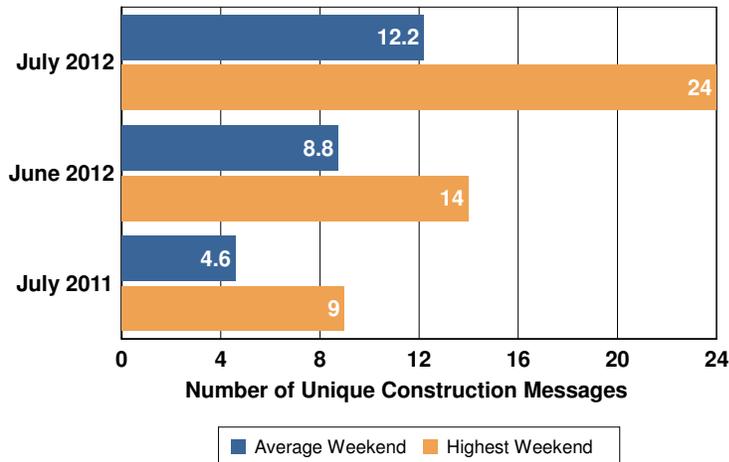
Incidents Occurring in Work Zones



Work Zone Incident Details:

During the month of July, 12 incidents were identified by operators as being within work zones. All 12 incidents occurred within the US-131 work zone under Franklin Street, with one incident on wet pavement. On northbound US-131, two disabled vehicles occurred at M-11 (28th Street), two crashes occurred at Burton Street, one crash and one debris event occurred at Hall Street and two crashes occurred at Franklin Street. On southbound US-131, one crash occurred at I-196, two crashes occurred at Wealthy Street and one crash occurred at Franklin Street.

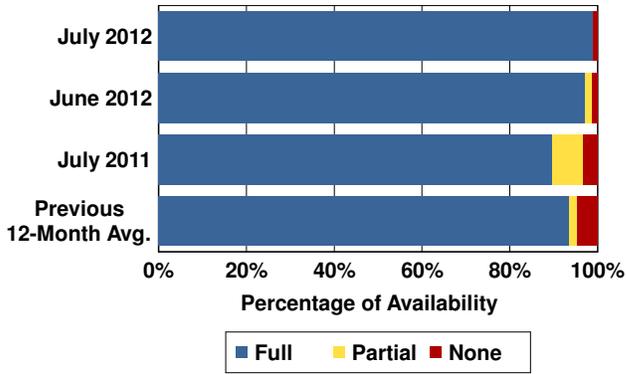
Weekend* Construction DMS Message Activity



* Friday, Saturday and Sunday.



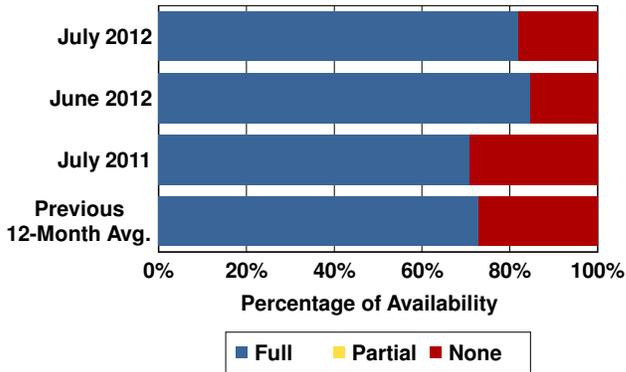
Overall CCTV Camera Availability



Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. I-96 WB @ Plainfield Ave.	86%	-	14%
2. US-31 @ Jackson Ave	91%	-	9%
3. I-96 @ E. Beltline Ave.	93%	-	7%
4. I-96 @ Forest Hill Ave.	93%	-	7%

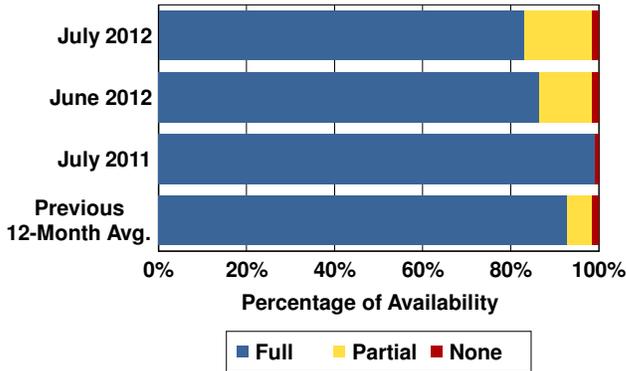
Overall Detector Availability



Individual Detector Availability

Vehicle Detectors Below 95% Availability			
Location	Full	Partial	None
1. 102 - I-196 @ Market	-	-	100%
2. 114N - I-196 WB @ Monroe	-	-	100%
3. 114S - I-196 EB @ Ottawa	-	-	100%
4. 124 - I-196 EB @ I-96 Merge	-	-	100%
5. 201 - US-131 NB S of 36th	-	-	100%
6. 204 - US-131 NB S of 28th	-	-	100%
7. 227 - US-131 NB @ I-96 WB	-	-	100%
8. 226 - US-131 SB @ I-96 WB	32%	-	68%
9. 122 - I-196 @ Maryland	93%	-	7%
10. 127 - I-96 E of E. Beltline	93%	-	7%

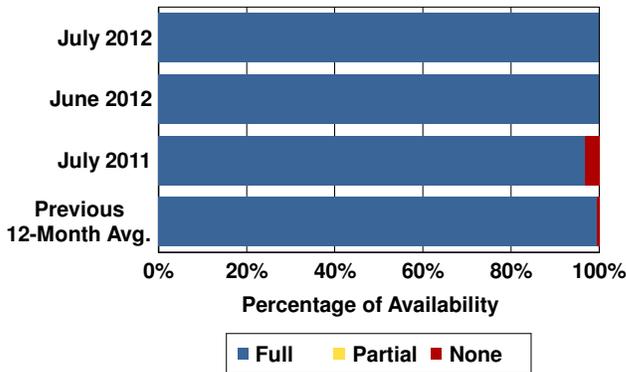
Overall DMS Availability



Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. I-96 EB @ Dean Lake Ave.	-	100%	-
2. I-196 WB @ Plymouth Ave.	-	100%	-
3. I-196 EB @ Chicago Dr. Conn.	-	100%	-
4. US-131 NB @ M-11 (28th St.)	16%	84%	-
5. I-196 EB @ Eastern Ave.	70%	-	30%
6. I-96 EB @ Fruit Ridge Ave.	94%	-	6%

Overall VSS Availability



Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
None.			

