

West Michigan Transportation Operations Center

Serving Motorists Across West Michigan

www.michigan.gov/its

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January 2013



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In the Spotlight



A variety of weather conditions affected travel throughout the Grand Rapids area during January, including 17 inches of snow, 4 inches of rain, temperatures ranging between -2 and 58 degrees, and wind speeds over 40 mph. The majority of the snow and rain fell during the last half of the month.

Several of the data collected by WMTOC operators during January were twice the average amount observed over the previous 12 months. For example, there were 205 incidents in January compared to an average of 103; 78 incident notification e-mails compared to an average of 38; 259 unique incident messages compared to an average of 117; 131 crashes compared to an average of 59; and 92 lane closures compared to an average of 42. Additional detail can be found on pages 4-6 of this report.

The week of Jan. 21 had the greatest concentration of snow, wind and cold temperatures-all having the greatest effect on travel. Nine inches of snow fell during the week, wind speeds averaged approximately 8 mph, and the average high temperature was less than 17 degrees. During the week, WMTOC operators documented 73 crashes, handled 85 phone calls with stakeholders and augmented the standard control room staffing with approximately 25 hours of additional secondary operator time, all toward the goal of helping motorists get to their destinations safely and efficiently.

Compiled by:
URS

WMTOC Control Room

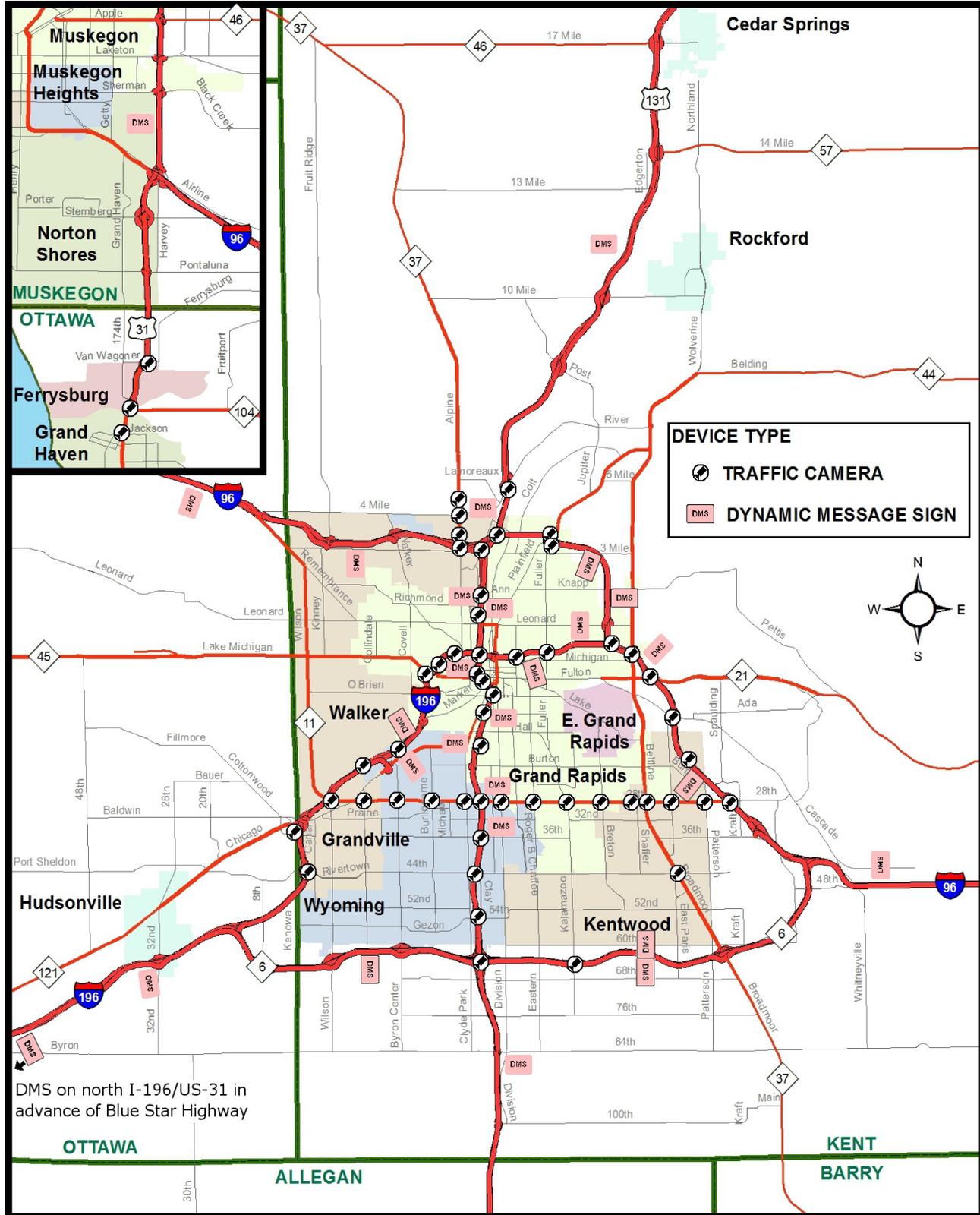
Hours of Operation

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

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ITS Device Locations and Coverage Area



Summary

Data Key

January 2013

WMTOC Communications Activity



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

Total Communication

Calls: 322
E-mails: 552

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 97.4%

Unplanned Incidents



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

Total Incidents

205

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: 92%
MVDS: 19%
DMS: 94%
VSS: 100%

PLEASE NOTE:

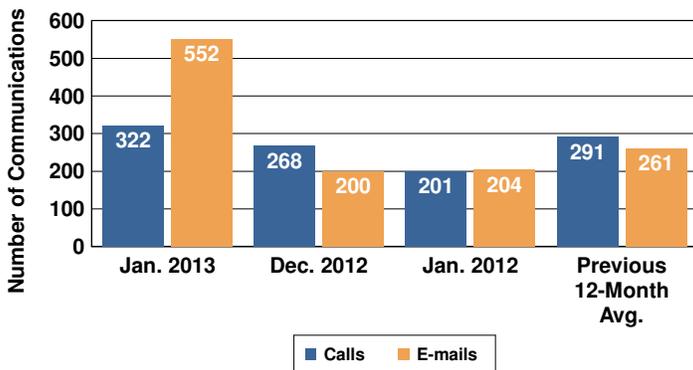
The following report is limited to data collected within the ITS device coverage area as seen on previous page.

Calls and E-mails by Type

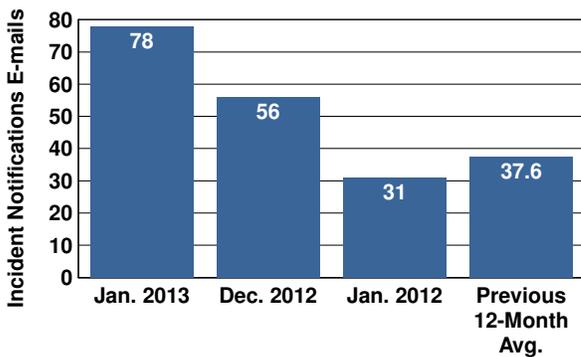


Agency	Calls			E-mails		
	In	Out	Total	In	Out	Total
City of Grand Rapids	0	1	1	26	0	26
Grand Rapids Police Department	8	63	71	0	0	0
ITS System Maintenance	7	4	11	30	5	35
Kent County Road Commission	5	7	12	0	0	0
Kent County Sheriff	0	1	1	0	0	0
Listserv (Traffic Notifications)	0	0	0	29	78	107
MDOT, Construction	3	0	3	0	0	0
MDOT, Maintenance	21	16	37	1	3	4
MDOT, Other	3	3	6	31	5	36
MDOT, Traffic/ITS	7	59	66	10	2	12
Media	7	3	10	0	0	0
Michigan State Police	5	33	38	8	0	8
Nixle	0	0	0	40	0	40
Other	17	14	31	208	1	209
URS Corporation	26	9	35	3	4	7
Weather	0	0	0	68	0	68
Month Total	109	213	322	454	98	552

Communication History



Incident Notification* History



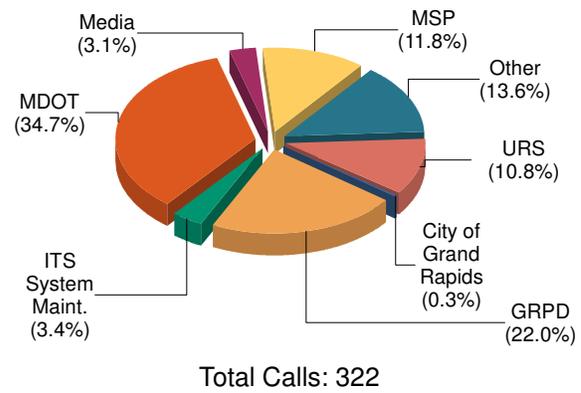
Incident Notification* Communication Accuracy



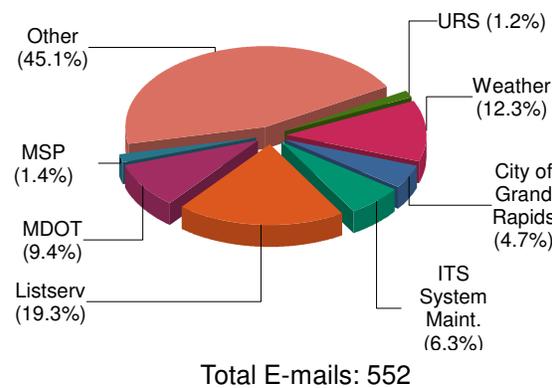
	Jan. 2013	Dec. 2012	Jan. 2012	Previous 12 Months
Format Correct	100.0%	94.6%	100.0%	97.8%
Content Correct	97.4%	96.4%	96.8%	95.6%

* 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 at: <http://1.usa.gov/qZzuHo>.

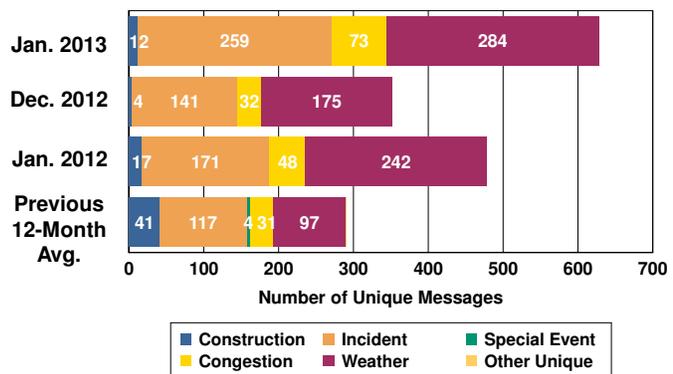
Calls by Type



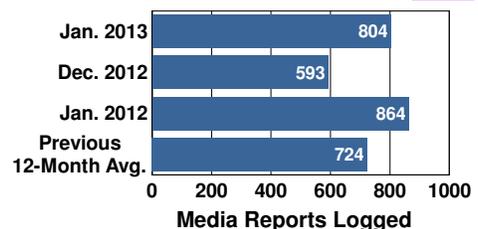
E-mails by Type



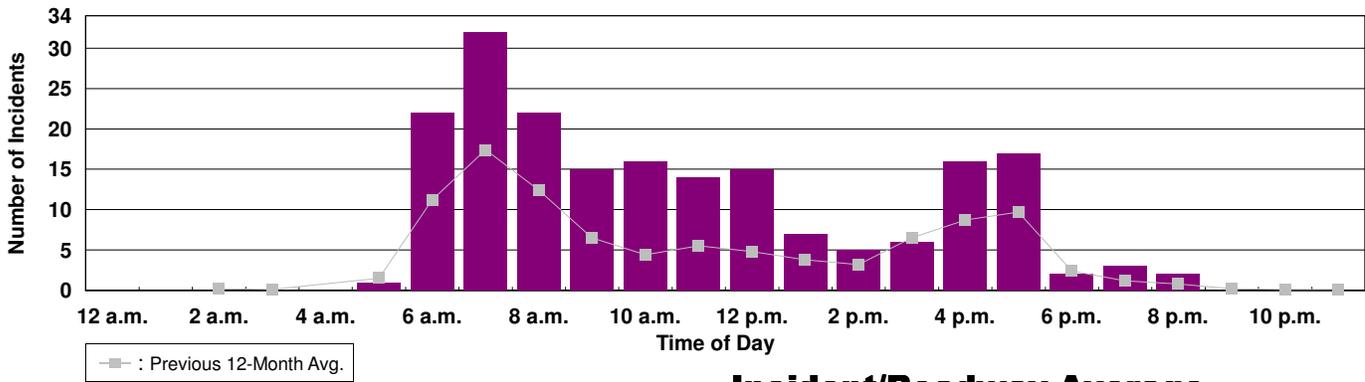
DMS and VSS Messages by Type



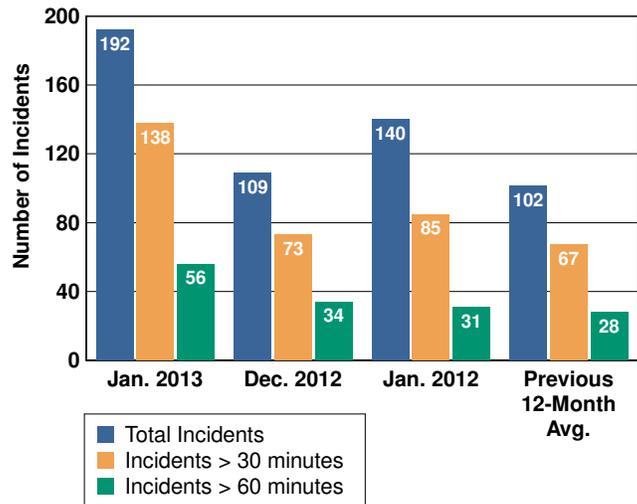
Media Audits



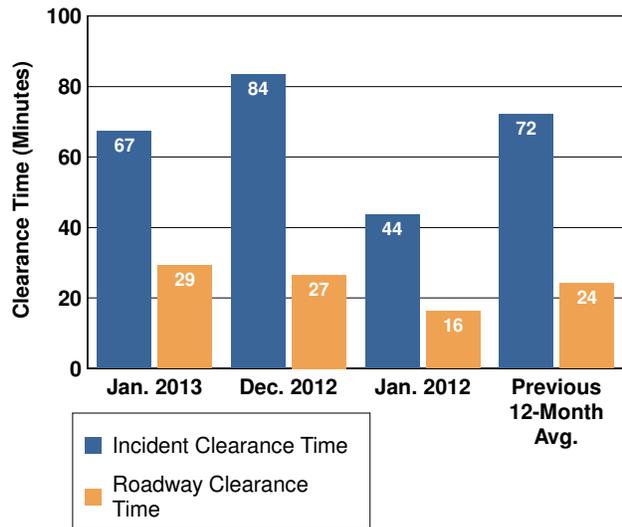
Total of Unplanned Incidents per Weekday Hour



Incident Clearance Details*

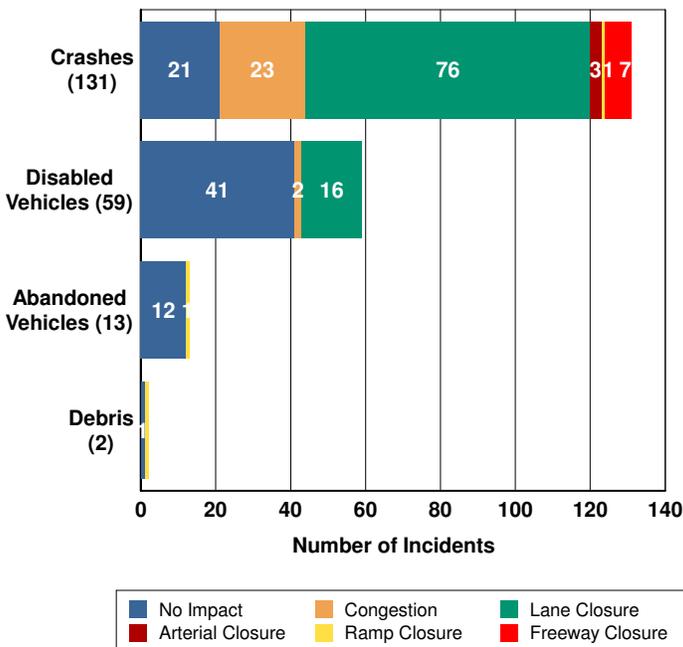


Incident/Roadway Average Clearance Times

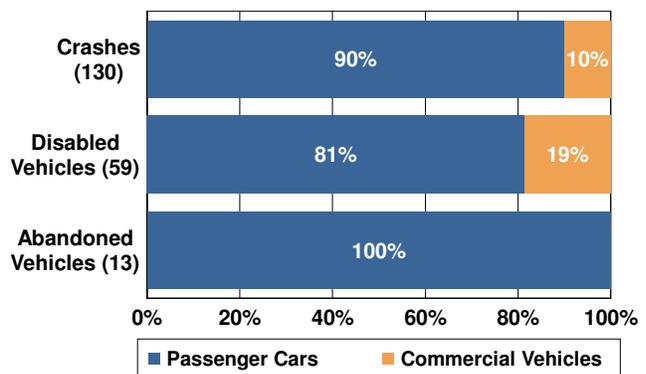


*Incident Clearance Details excludes abandoned vehicles.

Traffic Impacts by Type



Vehicle Composition of Incidents*



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

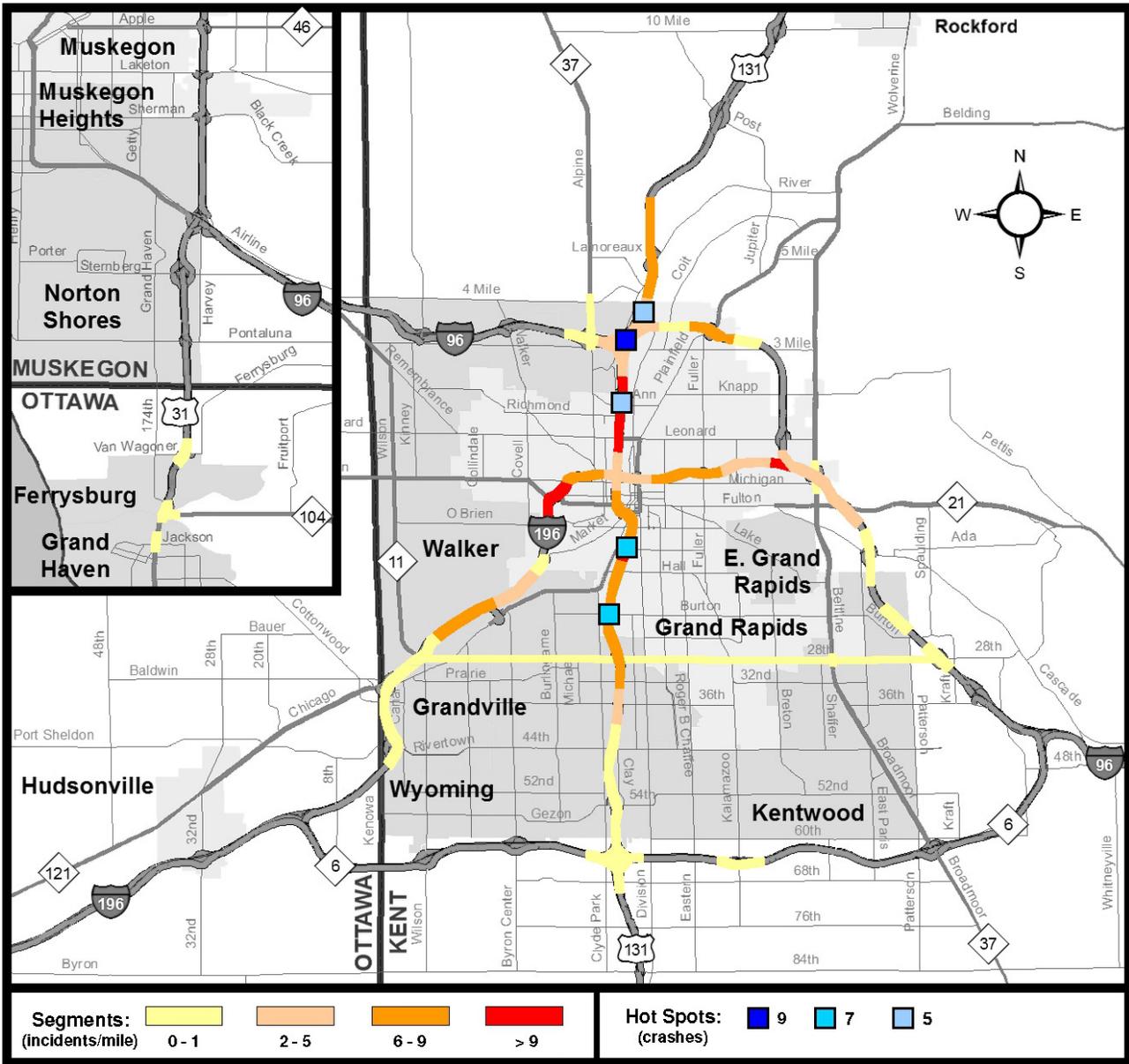
Secondary Crashes



Month	Secondary Crashes	Total Crashes
January 2013	9 (7%)	131



Incident Density and Hot Spots Map



Incident Management



High-impact Unplanned Incident Activity*



Incident Impact	Jan. 2013	Dec. 2012	Jan. 2012	Previous 12-Month Avg.
Lane Closure	92	47	50	41.8
Ramp Closure	3	5	4	3.3
Freeway Closure	7	4	1	3.2

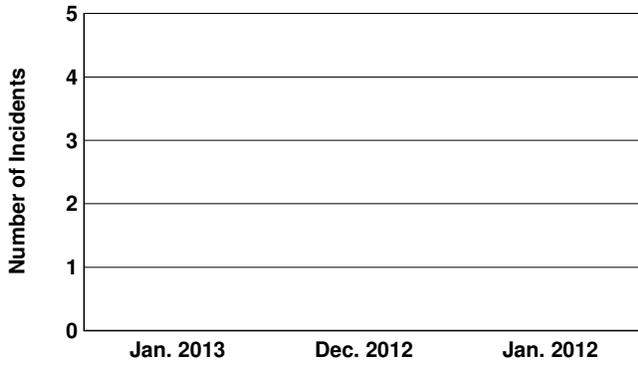
*High-impact Unplanned Incident Activity includes unplanned incidents resulting in closures.

Unplanned Incidents by Roadway within Coverage Area



Freeway/Arterial	Jan. 2013		Dec. 2012		Jan. 2012		Previous 12-Month Avg.	
	Total	per mi.	Total	per mi.	Total	per mi.	Total	per mi.
I-96 (10.6 mi.)	26	2.5	11	1.0	24	2.3	15.5	1.5
I-196 (12.1 mi.)	50	4.1	43	3.6	35	2.9	28.8	2.4
US-131 (15.2 mi.)	95	6.3	42	2.8	86	5.7	56.3	3.7
US-31 (1.7 mi.)	2	1.2	2	1.2	2	1.2	1.3	0.8
M-6 (4 mi.)	10	2.5	4	1.0	2	0.5	1.2	0.3
M-11 (11.5 mi.)	1	0.1	0	0	1	0.1	0.8	0.1
Month Total	184	3.3	102	1.9	150	2.7	103.9	1.9

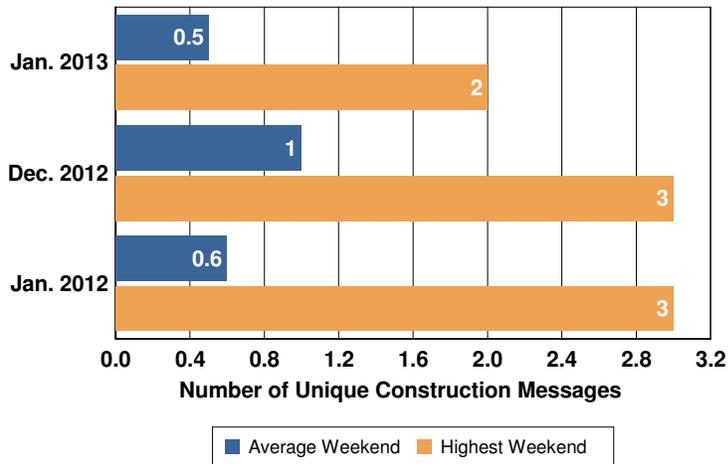
Incidents Occurring in Work Zones



Work Zone Incident Details:

During the month of January, no incidents were identified by operators as being within work zones.

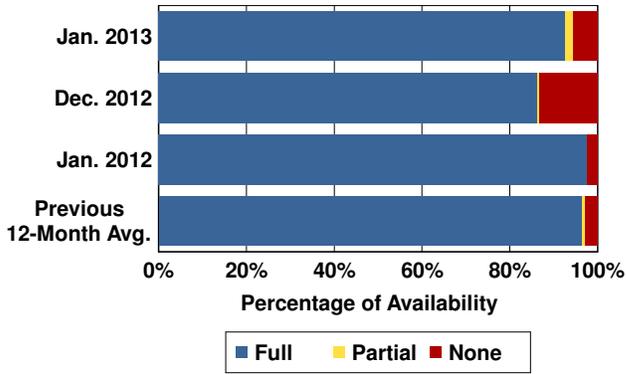
Weekend* Construction DMS Message Activity



* Friday, Saturday and Sunday.



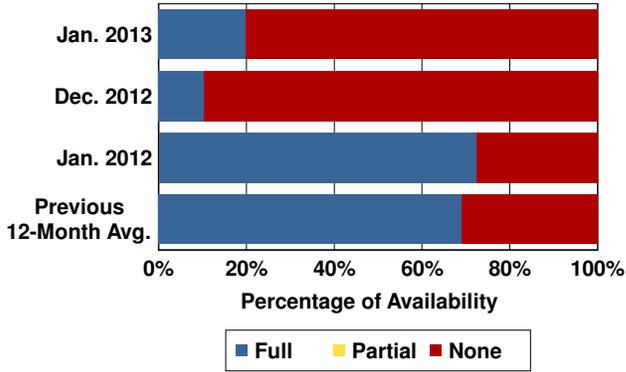
Overall CCTV Camera Availability



Individual CCTV Camera Availability

CCTV Cameras Below 95% Availability			
Location	Full	Partial	None
1. US-131 @ Wealthy St.	-	-	100%
2. I-96 @ Forest Hill Ave.	-	-	100%
3. I-196 @ M-11 (28th St.)	27%	73%	-
4. I-96 WB @ M-37 (Alpine Ave.	77%	-	23%

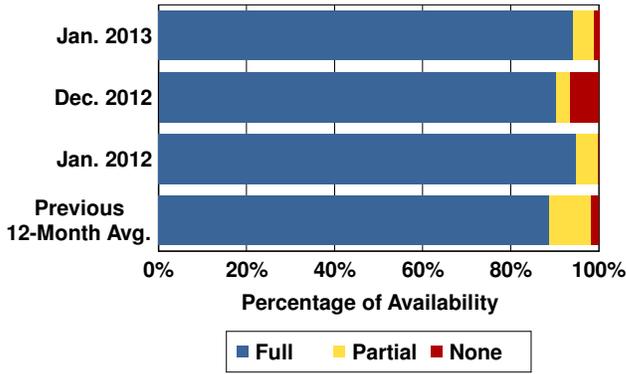
Overall Detector Availability



Individual Detector Availability

Vehicle Detectors Below 95% Availability			
Location	Full	Partial	None
1. 102 - I-196 @ Market	-	-	100%
2. 112 - I-196 @ Seward	-	-	100%
3. 113 - I-196 @ US-131 SB	-	-	100%
4. 114N - I-196 WB @ Monroe	-	-	100%
5. 114S - I-196 EB @ Ottawa	-	-	100%
6. 114 -	-	-	100%
7. 116 - I-196 W of College	-	-	100%
8. 119 -	-	-	100%
9. 124 - I-196 EB @ I-96 Merge	-	-	100%
10. 125 - I-96 EB @ E. Beltline	-	-	100%
11. 126 - I-96 W of E. Beltline	-	-	100%

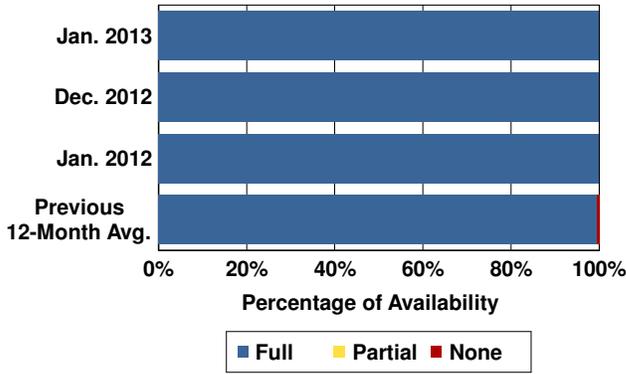
Overall DMS Availability



Individual DMS Availability

DMS Below 95% Availability			
Location	Full	Partial	None
1. US-131 NB @ M-11 (28th St.)	33%	67%	-
2. M-6 WB @ Hanna Lake Ave.	55%	31%	14%
3. M-6 EB @ Hanna Lake Ave.	55%	31%	14%

Overall VSS Availability



Individual VSS Availability

VSS Below 95% Availability			
Location	Full	Partial	None
None.			

