

Michigan Intelligent Transportation Systems Center

Serving Motorists on Southeast Michigan Freeways

www.michigan.gov/its
www.michigan.gov/drive

May 2012



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In the Spotlight



Construction season was in full motion in May, with the Michigan Intelligent Transportation Service (MITS) Center displaying 175 construction messages on message boards across Metro Detroit. These messages helped motorists by sharing detour information meant to help avoid delays.

The MITS Center also posted construction information on the popular MDOT Mi Drive Web site, www.michigan.gov/drive. The site provides the most up-to-date listings of statewide lane closures and includes current and future construction lane closures, as well as lane closures due to traffic incidents.

Construction season can be hard on motorists but the dedicated staff at the MITS Center does its best to help by letting the public know what to expect on state roadways and how to avoid construction delays.

Compiled by:



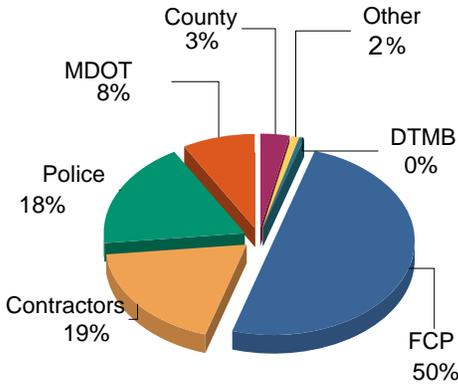
Summary

Data Key

May 2012

Call Card		Total Assists
Freeway Courtesy Patrol (FCP) Drivers fill out information on data cards for each stop (abandoned vehicles), assist (occupied vehicles, debris, accidents, etc.) and tow.		4,127
Call Tracking		Total Calls
Operators manually enter all incoming and outgoing Control Room calls, including two-way communications, select Michigan State Police (MSP) Computer-Aided Dispatch (CAD) entries and high-impact incident notifications.		6,474
Mi Drive Web Site		Total Page Views
Operators inform media and general public about current incident information such as lane closures and road construction. Real-time camera images are also available.		NO DATA AVAILABLE
Advanced Traffic Management System		Total Incidents
Data is entered into the Advanced Traffic Management System in order to send messages to Dynamic Message Signs (DMS) and to post incidents on the Web site.		516
Quality Assurance/Quality Control		All High-Impact Incidents
Comprehensive and systematic quality assurance/quality control audit of freeway operations including messaging and high-impact notifications (freeway closures, lane closures where only one lane is open and freeway-to-freeway ramp closures).		93% Accurate
MaintStar		System Availability
MaintStar manages maintenance issues for all Intelligent Transportation System (ITS) equipment, including Dynamic Message Signs (DMS) and Closed-Circuit Television (CCTV) cameras, and tracks work orders and overall ITS performance.		DMS: 97% CCTV: 100%

Calls by Type



Total Calls: 6,474

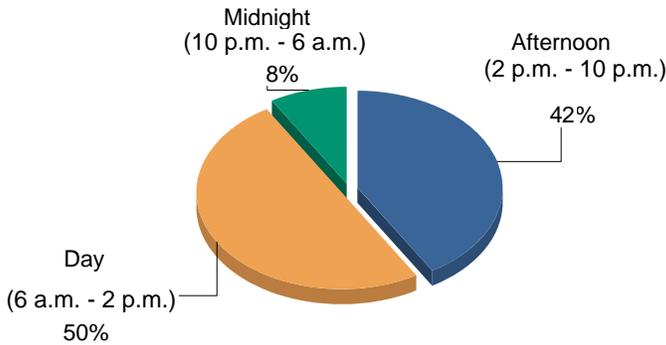
Agency	No. of Calls
Airport	0
Border	2
Contractors	1,204
County	211
Detroit, City of	6
DTMB	29
FCP	3,217
Federal	0
Fire	0
MDOT	535
Media	15
Police	1,180
Special Events	12
Transit	3
OTHER	60
Total	6,474

MDOT	Total
Metro Region Taylor TSC	147
Metro Region Macomb/St Clair TSC	99
MITSC	90
Metro Region Oakland TSC	52
MITSC TOC	52
Metro Region Detroit TSC	33
Statewide TOC	21
Answering Service	16
Blue Water Bridge TOC	11
Metro Region Office	10
MDOT University Region	2
Metro Region Construction Section	1
TBD	1
Total	535

Calls by Weekday Shift

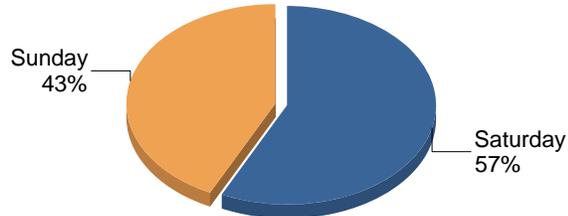


Monday - Friday



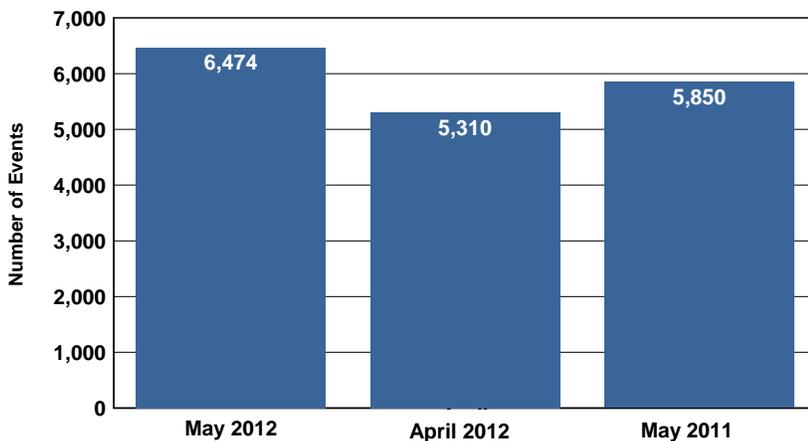
Average Number of Calls per Weekday: 240

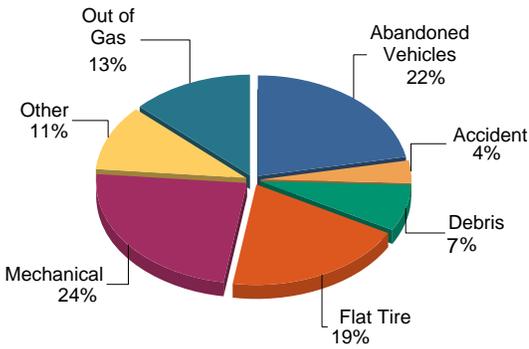
Calls by Weekend Day



Average Number of Calls per Weekend: 243

Monthly Event History

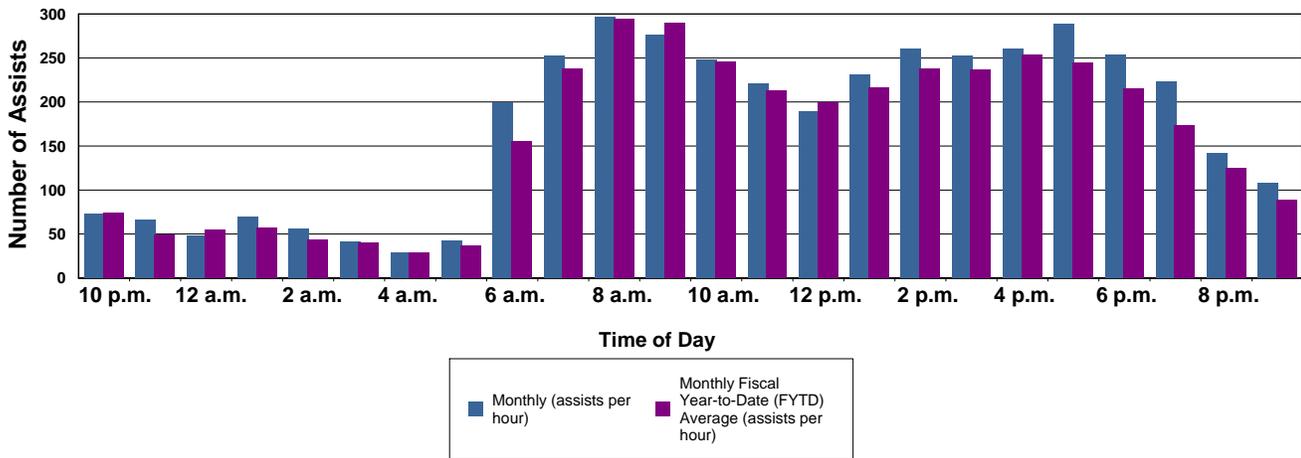




In the month of May, the lowest number of assists for the Freeway Courtesy Patrol were in the "Accident Assist" category at 4 percent.

May Total: 4,127
3,175 Assists
952 Abandoned Vehicle Stops

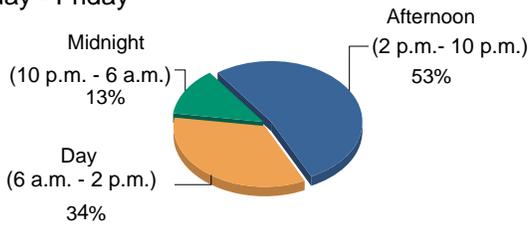
FCP Assists by Time of Day



FCP Dispatches by Weekday Shift

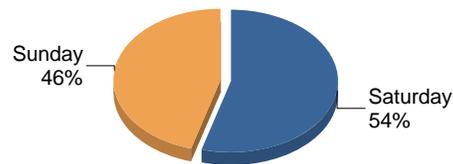


Monday - Friday



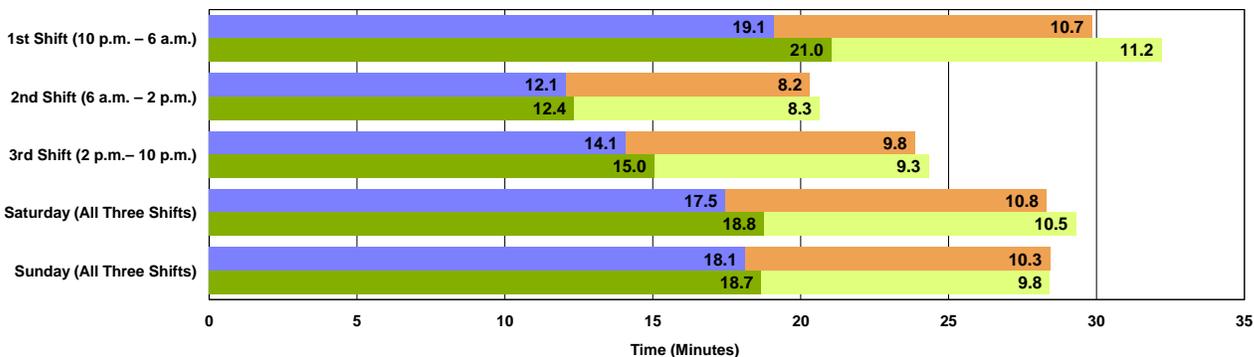
Average Number of Dispatches per Weekday: 33

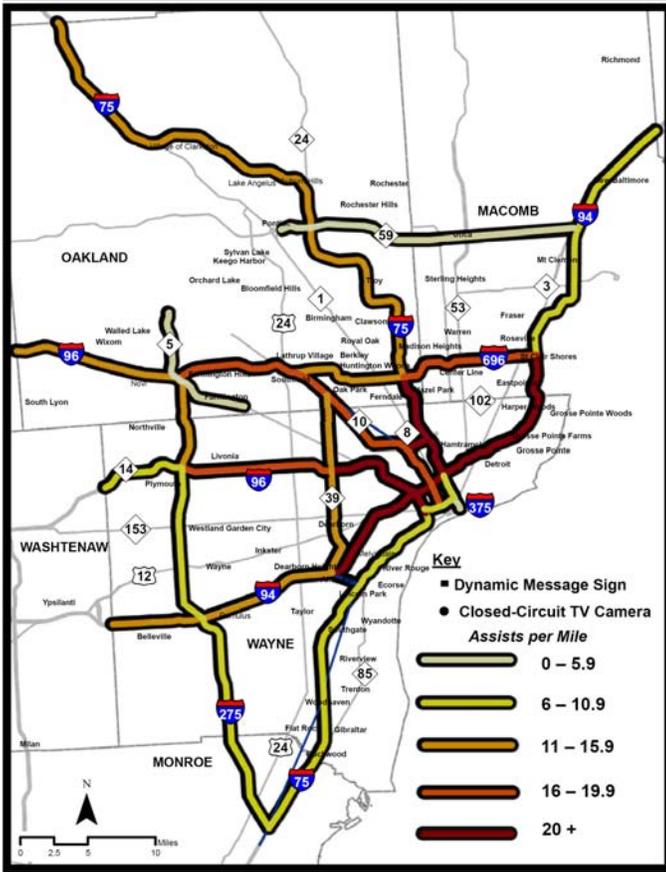
FCP Dispatches by Weekend Day



Average Number of Dispatches per Weekend: 37

FCP Average Service Times





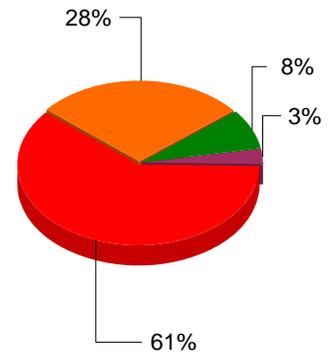
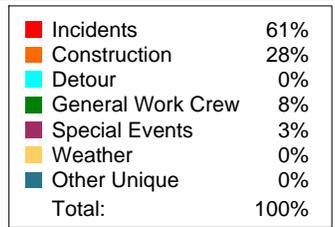
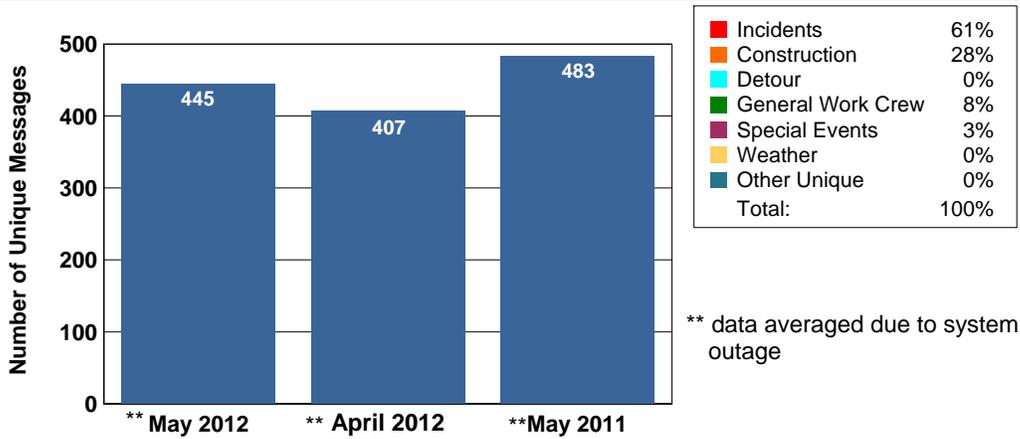
"I was on EB I-696 on my way to a job interview. Right before my exit my car decided to die on me. I did not know what to do. In a matter of minutes a Courtesy Patrol Vehicle pulled up right behind me. The Courtesy Patrol driver took a look at my car and told me he could help, my battery was dead. He gave me a jump and my car started right up. I am happy I left early for the job interview and because of the quick response of the Courtesy Patrol driver I made it to the job interview on time. The Courtesy Patrol driver was very professional and courteous. He knew what he was doing. Thank you MDOT for providing such a wonderful service."

Courtesy Patrol



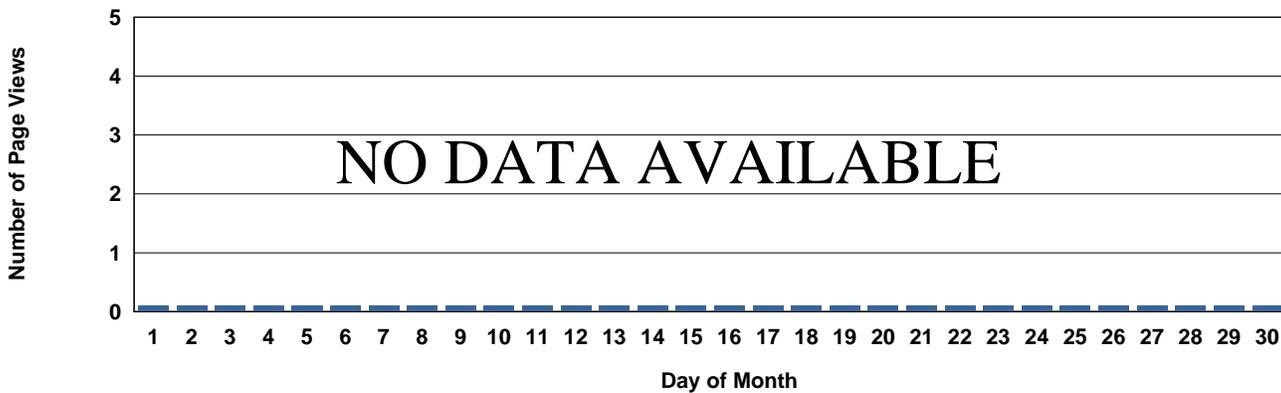
Freeway Segment	TOTAL ASSISTS (miles)	TOTAL ASSISTS		ASSIST DENSITY		AVERAGE RESPONSE TIME (min)		AVERAGE CLEAR TIME (min)	
		May 2012	FYTD Avg.	May 2012	FYTD Avg.	May 2012	FYTD Avg.	May 2012	FYTD Avg.
I-75									
Oakland County Line to I-696	37.0	409	333.3	11.1	9.0	18.6	22.2	7.4	8.2
I-696 to I-94	8.0	225	222.6	28.1	27.8	13.4	13.2	11.2	10.3
I-94 to I-96	5.6	61	64.9	10.9	11.6	13.0	13.1	10.8	9.5
I-96 to I-275	37.0	359	313.6	9.7	8.5	13.2	15.3	8.6	7.6
Total I-75	87.6	1,054	934.4	12.0	85.3	14.9	16.7	8.8	8.6
I-94									
Washtenaw County Line to M-39	20.7	271	282.6	13.1	13.7	15.6	18.1	7.1	8.6
M-39 to I-75	9.0	243	234.1	27.0	26.0	13.3	14.4	10.6	9.6
I-75 to I-696	10.0	227	235.8	22.7	23.6	13.1	14.9	11.5	9.7
I-696 to St. Clair County Line	21.0	172	135.6	8.2	6.5	15.0	15.7	8.2	8.1
Total I-94	60.7	913	888.1	15.0	117.1	14.0	15.5	9.3	9.1
I-96									
Livingston County Line to I-275/I-696	11.0	146	119.4	13.3	10.9	20.1	22.7	10.5	8.4
I-275/M-14 to M-39	12.0	221	187.4	18.4	15.6	18.3	16.1	9.3	10.1
M-39 to I-75	11.0	294	264.3	26.7	24.0	11.9	13.5	8.6	8.7
Total I-96	34.0	661	571.0	19.4	134.4	15.3	16.4	9.3	9.1
I-275									
I-96/I-696 to M-14/I-96	8.0	94	81.6	11.8	10.2	14.7	18.2	9.6	8.0
M-14/I-96 to I-94	12.0	97	110.0	8.1	9.2	25.7	18.5	8.6	10.2
I-94 to I-75	17.5	111	98.3	6.3	5.6	26.6	20.2	9.2	7.2
Total I-275	37.5	302	289.9	8.1	61.8	20.4	18.6	9.1	8.6
I-696									
I-96/I-275 to M-10	9.3	165	127.6	17.7	13.7	15.8	16.6	8.6	8.4
M-10 to I-75	9.0	124	134.9	13.8	15.0	15.0	14.5	10.7	9.0
I-75 to I-94	10.4	192	172.5	18.5	16.6	12.8	14.2	7.2	8.5
Total I-696	28.7	481	435.0	16.8	121.3	14.5	15.0	8.6	8.6
M-59 (Veterans)	24.0	45	32.9	1.9	1.4	22.0	24.3	4.9	7.4
I-375	1.2	7	6.8	5.8	5.6	14.8	11.2	14.1	10.9
M-10 (Lodge)	17.9	343	328.5	19.2	18.4	10.9	12.9	13.7	12.0
M-14	6.4	47	47.1	7.3	7.4	22.8	18.5	8.8	8.7
M-39 (Southfield)	14.2	204	213.6	14.4	15.0	12.2	13.4	7.4	9.3
M-5 (Grand River)	10.3	21	28.1	2.0	2.7	15.0	18.5	7.6	7.3
M-8 (Davison)	2.2	49	36.3	22.3	16.5	10.6	10.3	8.5	8.3
Total	324.7	4,127	3,811.6						

Unique DMS Messages by Type



** data averaged due to system outage

Mi Drive Web Site May Daily Page Views



Referring Site Requests to Mi Drive Web Site in May



NO DATA AVAILABLE

Incident Communication Accuracy



Weekend DMS Snapshot Review	May 2012	April 2012	May 2011
All Incident Messages	100%	100%	100%
High-Impact DMS Messages	May 2012	April 2012	May 2011
All High-Impact Messages	93%	86%	100%
Freeway Closure Messages	100%	100%	100%
Lane Closure Messages	100%	100%	100%
Ramp Closure Messages	100%	100%	100%
Other Communication	May 2012	April 2012	May 2011
Advisory Text Messages	100%	100%	91%
Web Site Incident Postings	100%	100%	95%

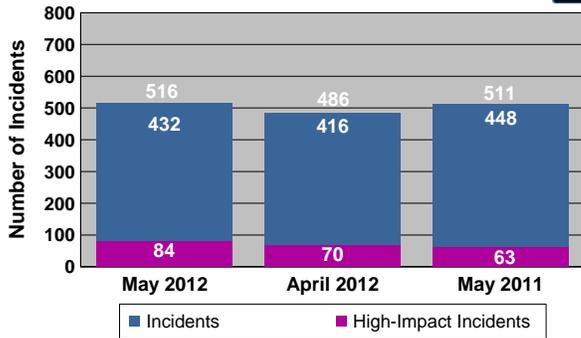
Most Utilized DMS



1. I-75 NB at 7 Mile
2. I-94 EB at Beech Daly
3. I-75 SB South of 13 Mile
4. I-696 EB at Couzens
5. M-39 SB at Chicago



Total Number of Incidents



High-Impact Incident Activity



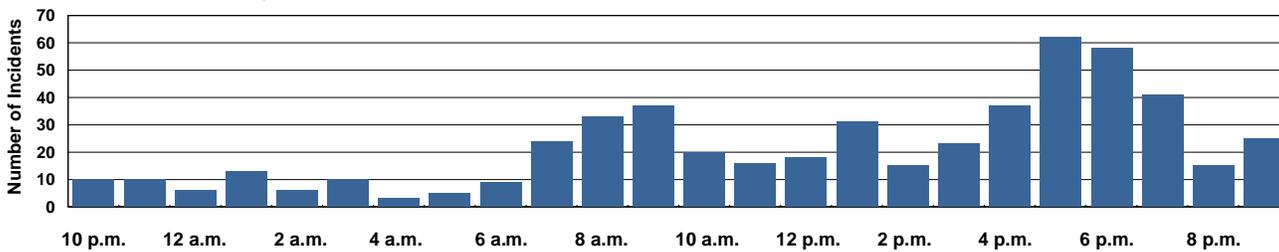
	May 2012	April 2012	May 2011
Freeway Closures All Lanes Closed	13	17	7
Lane Closures Only One Lane Open	65	44	49
Ramp Closures Freeway-to-Freeway	6	9	7
Total	84	70	63

High-impact incidents account for **16%** of the total incidents in May.

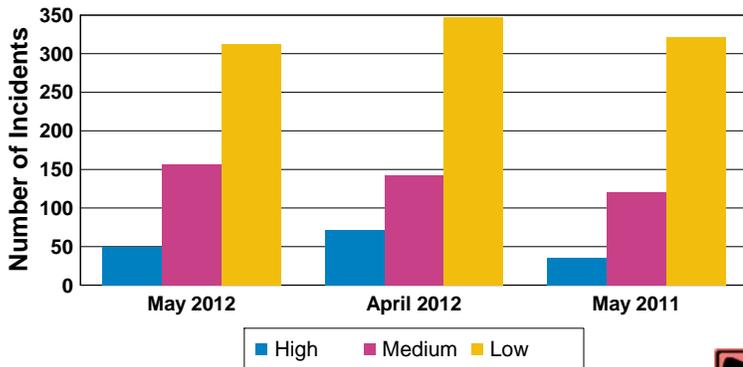
Total Incidents by Roadway

Freeway	May 2012	April 2012	* May 2011
I-75 (CHRYSLER/FISHER)	121	126	130
I-94 (FORD)	94	112	118
I-696 (REUTHER)	83	82	85
I-96 (JEFFRIES)	81	66	63
M-10 (LODGE)	34	21	33
M-39 (SOUTHFIELD)	40	34	10
I-275	57	38	64
I-375	3	4	1
M-14	2	3	7
M-59	1	0	0
Total	516	486	511

Total Incidents per Hour

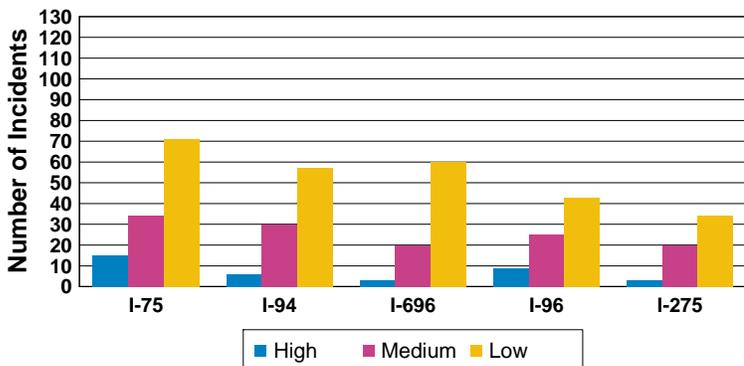


Total Incident Severity/Duration by Month

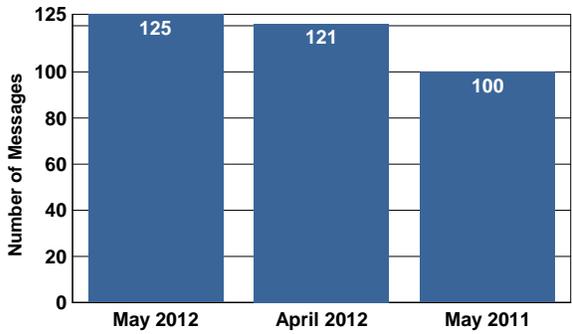


- Single-lane closures equal to 90+ minutes, partial closures (more than one lane, but not all) equal to 45+ minutes or total closures (all lanes) 20+ minutes
- Shoulder closures equal to 90+ minutes, single-lane closures between 20 and 89 minutes, partial closures (more than one lane but not all) between 20 and 44 minutes and total closures (all lanes) less than 20 minutes
- Shoulder closures less than 90 minutes, single-lane closures or partial closures (more than one lane, but not all) less than 20 minutes
- The duration and/or severity is unknown

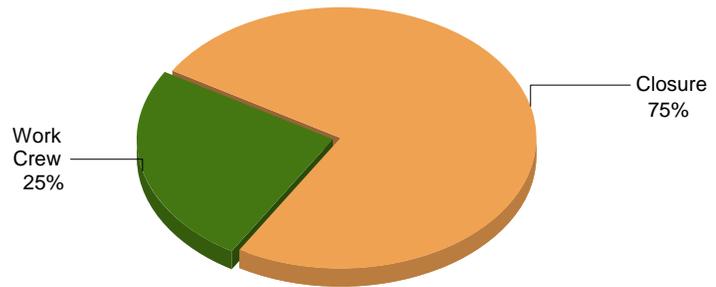
Severity/Duration by Top 5 Freeways



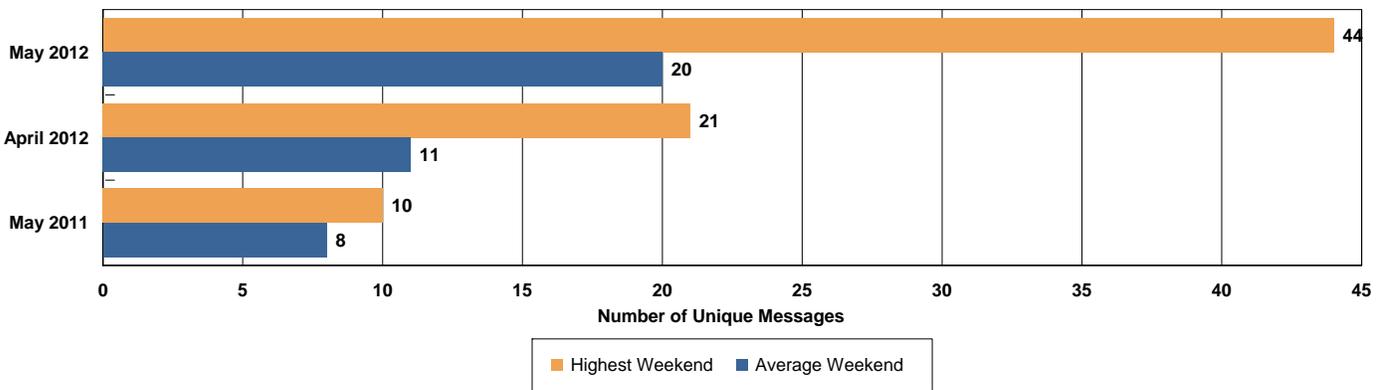
Unique Construction Messages



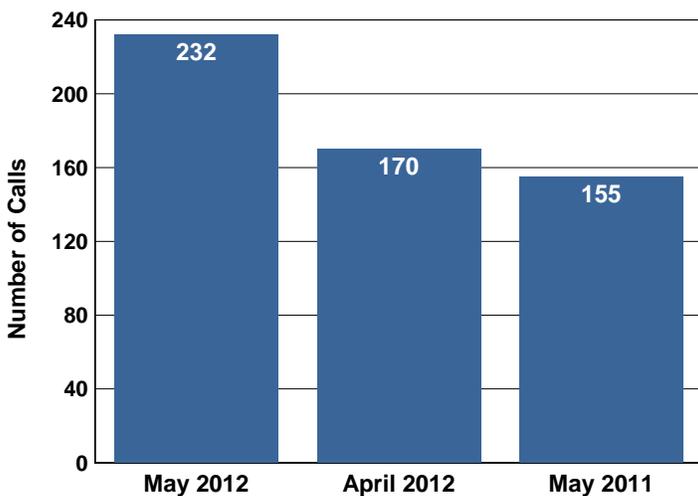
Highest Weekend Unique Construction Messages



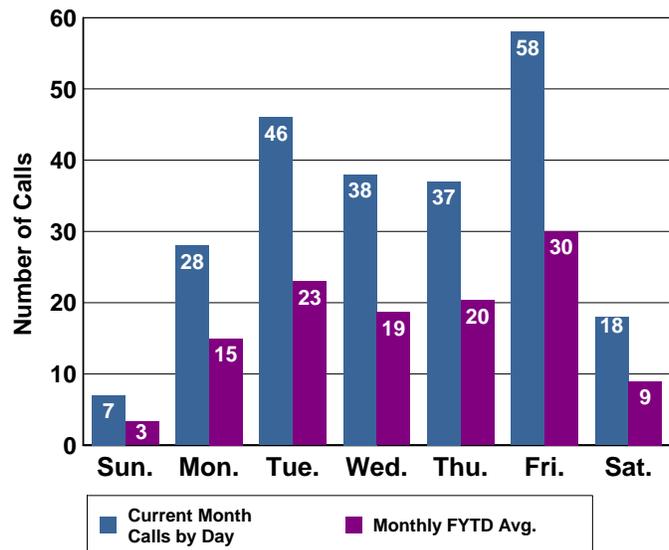
Weekend Construction DMS Message Activity



Total Construction Calls per Month



Construction Calls by Day



Construction Activity



DMS Availability

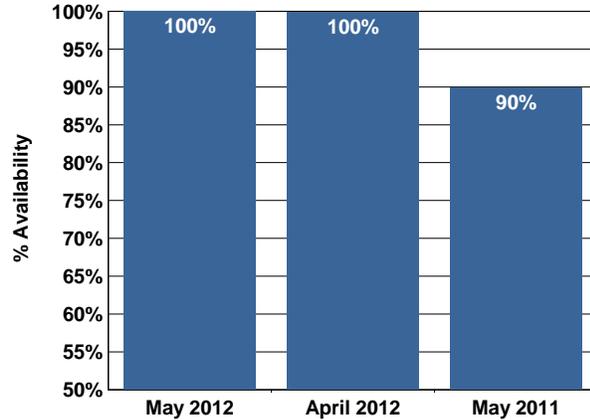
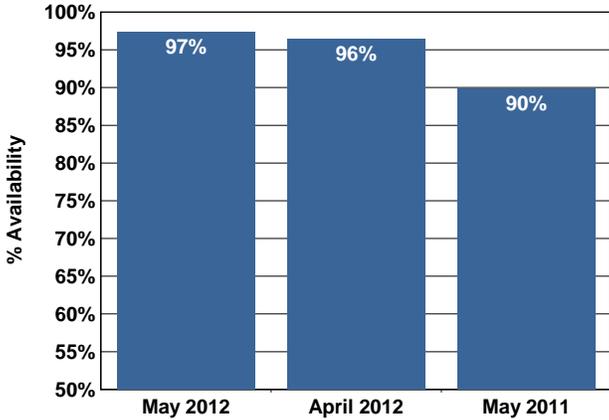


CCTV Camera Availability



	May 2012	April 2012	May 2011
Available	82	63	62
Not Available	2	3	7
Total	84	66	69

	May 2012	April 2012	May 2011
Available	238	160	153
Not Available	0	0	17
Total	238	160	170



Equipment Upgrades



Equipment Type	Maintenance Activity
CCTV	
----	-
TOTAL	0
DMS	
----	-
TOTAL	0
Hub-Node Tower/Other	
----	-
TOTAL	0

Work Order Processing

