

Michigan Intelligent Transportation Systems Center

Serving Motorists on Southeast Michigan Freeways

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



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In the Spotlight



The 2011 Metro Region construction season is in full swing. This season there are two major, high-impact projects: M-39 in Wayne County and M-59 in Oakland County. All high-impact construction projects have dedicated traffic management plans, which include signed detours/alternate routes to help motorists avoid potential traffic back-ups.

Other major Metro Detroit projects this year include I-696 and I-94 in Macomb County, and I-75 in Oakland County - all involving daily and nightly lane closures.

For the most up-to-date listings of statewide lane closures, including Metro Detroit, visit the MDOT Mi Drive Web site at www.michigan.gov/drive. The site provides lane closure information for state trunklines only, including current and future construction lane closures, as well as lane closures due to traffic incidents.



Compiled by:



Summary

Data Key

May 2011

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.

4,154

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 entries, and high-impact incident notifications.

5,850

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.

217,207

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.

511

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).

100% Accurate

MaintStar



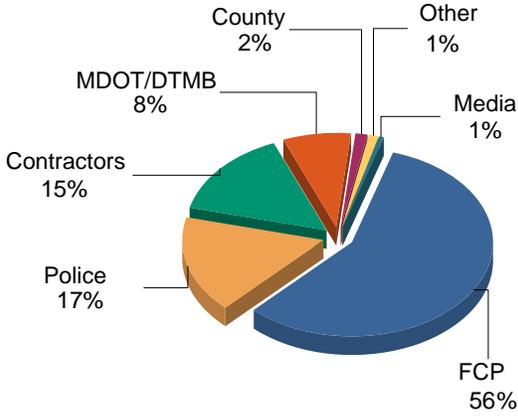
System Availability

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: 90%

CCTV: 90%

Calls by Type



Total Calls: 5,850

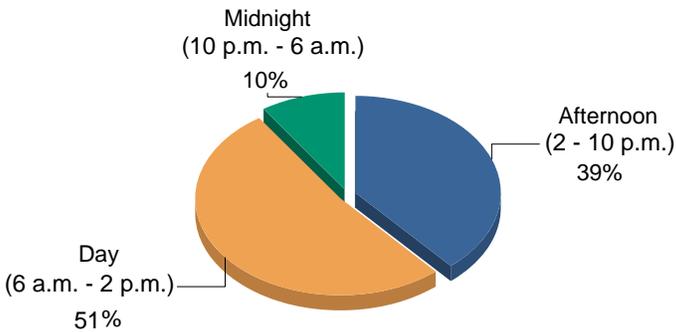
Agency	No. of Calls
FCP	3,349
Contractors	883
City	5
County	91
Federal	0
Fire	1
Police	970
Border	3
MDOT/DTMB	446
Media	40
Special Events	10
Transit	0
State	0
Parking	0
Airport	0
Animals	0
OTHER	52
Total	5,850

MDOT/DTMB	Total
Taylor TSC	160
Oakland TSC	96
MITS Center	45
Macomb TSC	35
Port Huron TSC	20
Detroit Maintenance Garage	16
Detroit TSC	16
Metro Region Office	16
DTMB	15
Auburn Hills Garage	11
Answering Service	7
Brighton TSC	5
Jackson TSC	4
Total	446

Calls by Weekday Shift



Monday - Friday

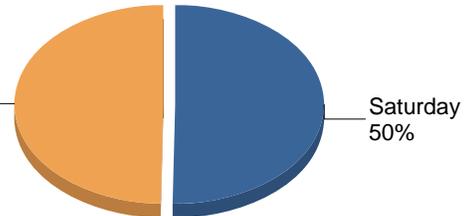


Average Number of Calls per Weekday: 222

Calls by Weekend Day

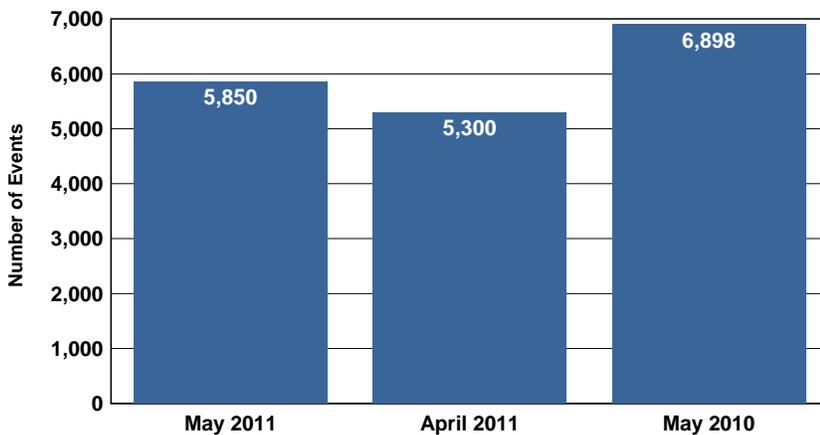


Sunday 50%



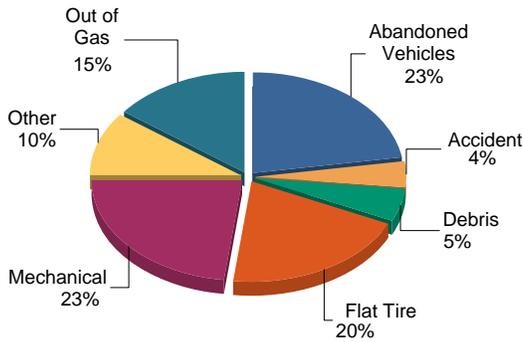
Average Number of Calls per Weekend: 217

Monthly Event History



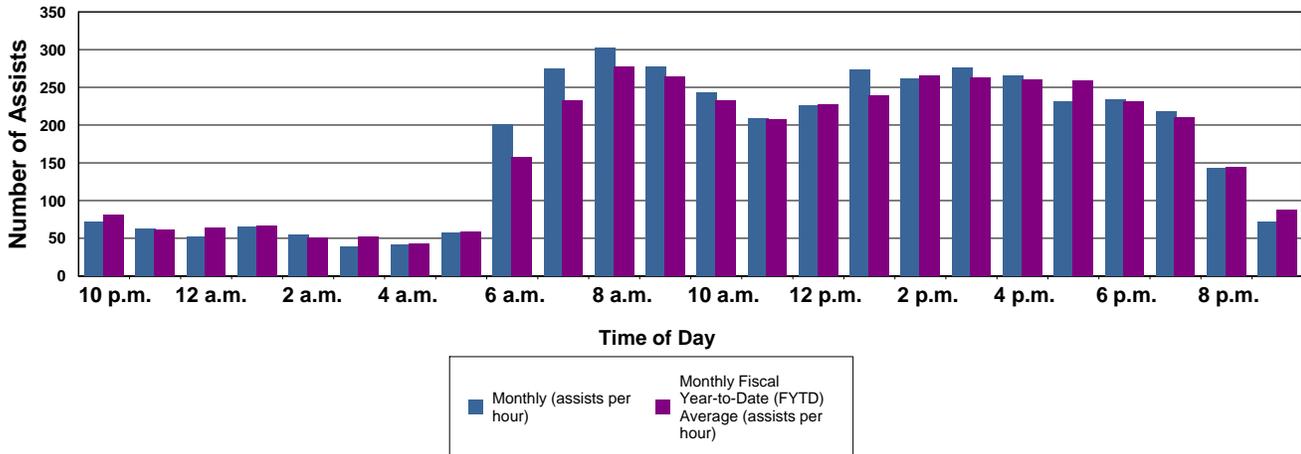


In May, the Freeway Courtesy Patrol performed 45 motorist transports. This service allows the Courtesy Patrol driver to take an individual off the freeway to wait for assistance, or to a near by auto store for a part.



May Total: 4,154
3,166 Assists
988 Abandoned Vehicle Stops

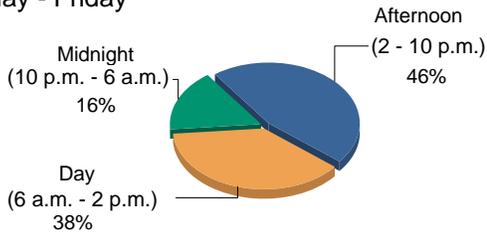
FCP Assists by Time of Day



FCP Dispatches by Weekday Shift

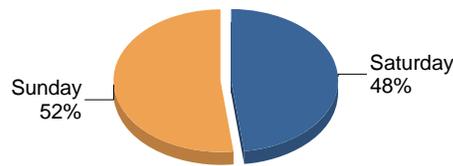


Monday - Friday



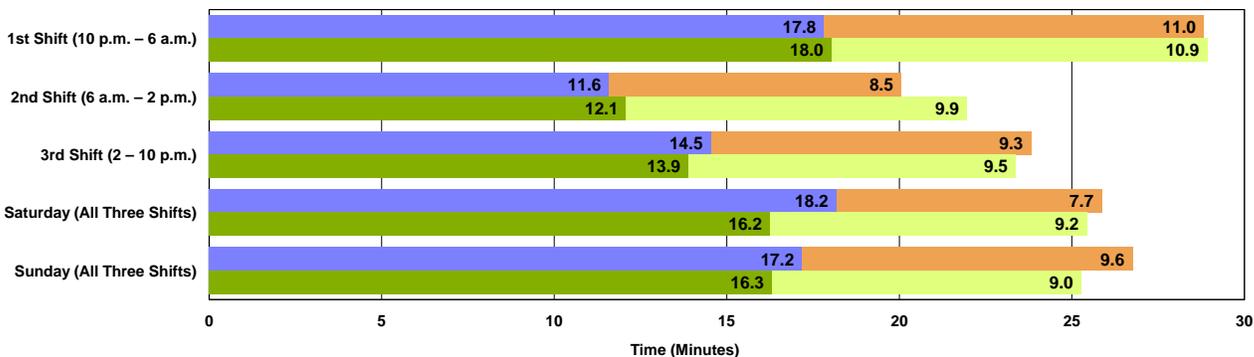
Average Number of Dispatches per Weekday: 31

FCP Dispatches by Weekend Day



Average Number of Dispatches per Weekend: 46

FCP Average Service Times



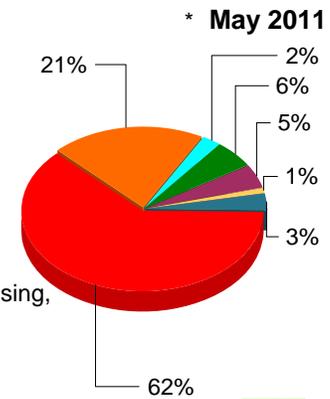
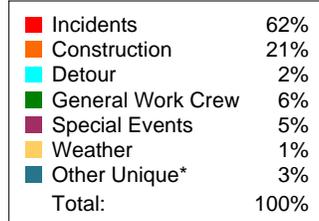
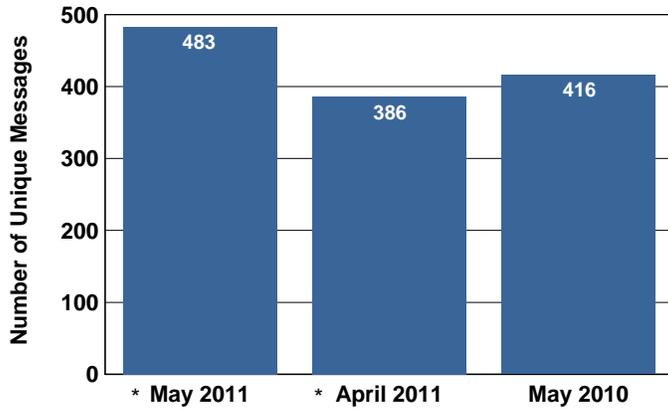


"Thank you MDOT for providing the Freeway Courtesy Patrol service. My vehicle was experiencing mechanical issues and I had to pull over onto the shoulder. I called my road service for a tow and they stated it would take 40 minutes until they arrived. A Courtesy Patrol driver arrived at my location shortly after and stayed with me until the tow arrived. He made the situation so much better, and made me feel more secure. Thanks again MDOT."



Freeway	Segment	TOTAL ASSISTS (miles)	ASSIST DENSITY		AVERAGE RESPONSE TIME (min)		AVERAGE CLEAR TIME (min)			
			May 2011	FYTD Avg.	May 2011	FYTD Avg.	May 2011	FYTD Avg.		
I-75	Oakland County Line to I-696	37.0	404	381.4	10.9	10.3	20.2	19.5	8.1	9.6
	I-696 to I-94	8.0	255	234.9	31.9	29.4	12.2	11.5	10.8	11.3
	I-94 to I-96	5.6	71	73.8	12.7	13.2	13.5	11.4	10.4	11.4
	I-96 to I-275	37.0	342	274.3	9.2	7.4	15.8	14.9	8.3	9.7
		87.6	1,072	964.3	12.2	88.1	15.7	15.0	9.0	10.2
I-94	Washtenaw County Line to M-39	20.7	284	290.4	13.7	14.0	17.8	16.2	9.1	9.1
	M-39 to I-75	9.0	291	275.3	32.3	30.6	11.9	11.8	10.0	9.9
	I-75 to I-696	10.0	263	273.0	26.3	27.3	15.8	14.3	9.7	10.2
	I-696 to St. Clair County Line	21.0	173	145.8	8.2	6.9	16.6	17.6	7.7	8.1
		60.7	1,011	984.4	16.7	129.7	14.8	14.2	9.3	9.5
I-96	Livingston County Line to I-275/I-696	11.0	150	127.9	13.6	11.6	19.1	18.6	6.6	8.7
	I-275/M-14 to M-39	12.0	218	197.8	18.2	16.5	12.6	15.3	8.2	9.1
	M-39 to I-75	11.0	308	293.8	28.0	26.7	13.0	12.3	9.8	9.6
		34.0	676	619.4	19.9	145.7	14.5	14.4	8.6	9.3
I-275	I-96/I-696 to M-14/I-96	8.0	126	109.5	15.8	13.7	15.6	16.8	7.6	8.3
	M-14/I-96 to I-94	12.0	136	133.1	11.3	11.1	14.5	15.2	7.6	8.7
	I-94 to I-75	17.5	80	62.3	4.6	3.6	18.5	17.0	8.3	7.9
		37.5	342	304.9	9.1	65.0	15.8	16.0	7.7	8.4
I-696	I-96/I-275 to M-10	9.3	140	145.0	15.1	15.6	15.8	16.8	8.4	9.0
	M-10 to I-75	9.0	145	126.1	16.1	14.0	13.7	13.6	9.0	10.3
	I-75 to I-94	10.4	189	183.3	18.2	17.6	15.1	13.4	8.4	9.8
		28.7	474	454.4	16.5	126.7	14.9	14.4	8.6	9.7
M-59 (Veterans)		24.0	16	35.3	0.7	1.5	14.0	23.1	6.0	8.4
I-375		1.2	3	4.5	2.5	3.8	14.9	14.9	17.7	8.1
M-10 (Lodge)		17.9	323	319.8	18.0	17.9	11.4	11.8	11.3	10.2
M-14		6.4	53	53.4	8.3	8.3	20.3	18.0	9.2	9.1
M-39 (Southfield)		14.2	109	234.3	7.7	16.5	16.4	12.7	8.4	10.7
M-5 (Grand River)		10.3	43	31.5	4.2	3.1	22.2	19.8	4.6	7.3
M-8 (Davison)		2.2	32	27.8	14.5	12.6	8.5	10.0	10.0	11.8
Total		324.7	4,154	4,033.6						

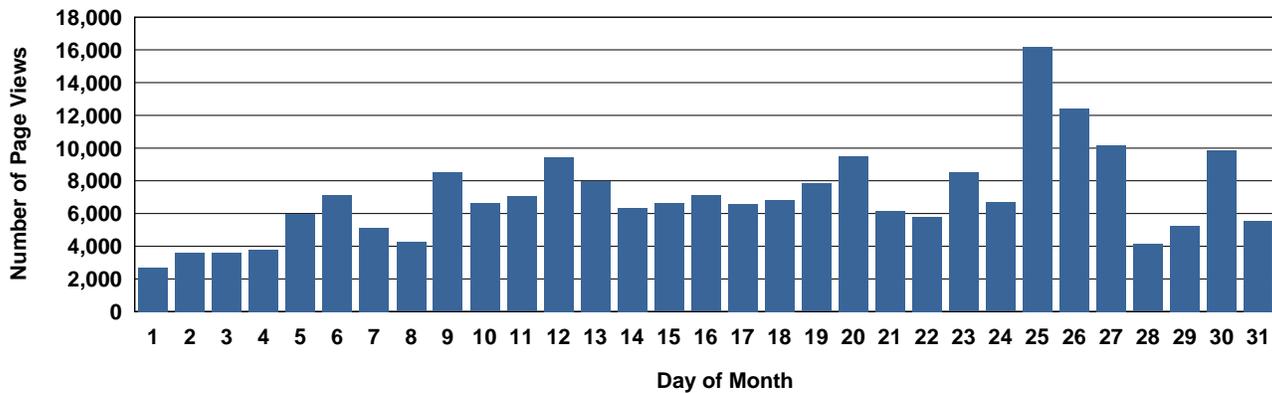
Unique DMS Messages by Type



* Airport, Amber Alert, Border Crossing, Location Specific, Safety, and Travel Time Unique Messages

* May 2011 data averaged from past years due to system outage

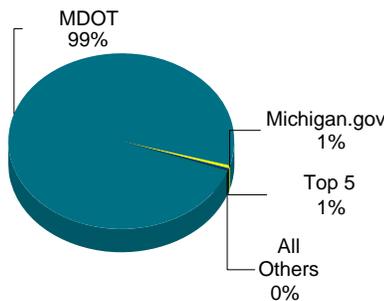
Mi Drive Web Site May Daily Page Views



Referring Site Requests to Mi Drive Web Site in May



In **May**, the Mi Drive Web site experienced the most activity on **Mondays**.



Top 5 Non-Michigan.gov Sites



On an average day in **May**, the Mi Drive Web site received the most activity between **4 and 5 p.m.**

Incident Communication Accuracy



Weekend DMS Snapshot Review	May 2011	April 2011	May 2010
All Incident Messages	100%	100%	100%
High-Impact DMS Messages	May 2011	April 2011	May 2010
All High-Impact Messages	100%	100%	98%
Freeway Closure Messages	100%	100%	100%
Lane Closure Messages	100%	100%	99%
Ramp Closure Messages	100%	100%	90%
Other Communication	May 2011	April 2011	May 2010
Advisory Text Messages	91%	90%	91%
Web Site Incident Postings	95%	97%	95%

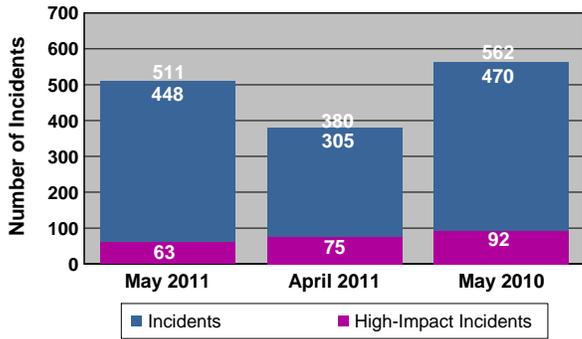
Most Utilized DMS



1. I-75 SB at State Fair
2. I-75 NB at 7 Mile
3. I-96 EB Local at Evergreen
4. I-96 EB at Beech Daly
5. M-39 NB at Puritan



Total Number of Incidents



High-Impact Incident Activity



	May 2011	April 2011	May 2010
Freeway Closures All Lanes Closed	7	11	15
Lane Closures Only One Lane Open	49	57	68
Ramp Closures	7	7	9
Freeway-to-Freeway			
Total	63	75	92

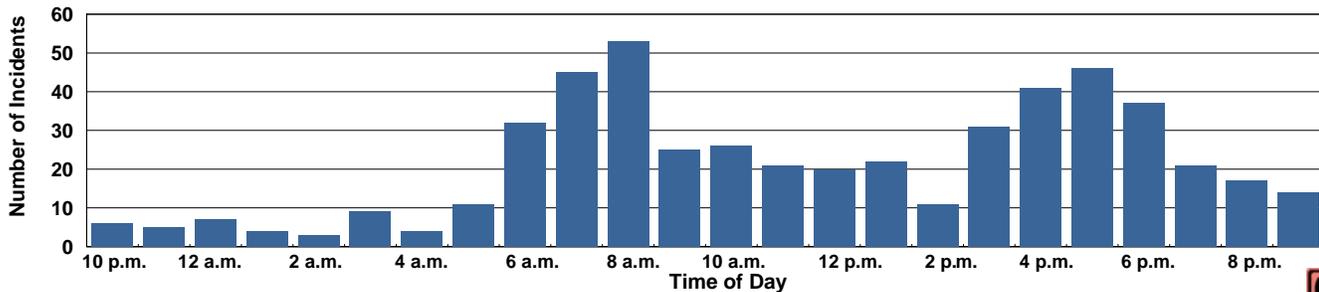
High-impact incidents account for 12% of the total incidents in May.



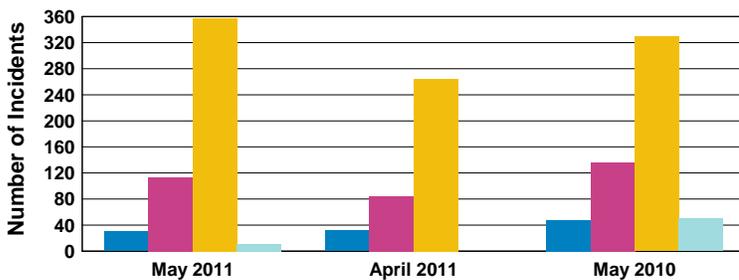
Total Incidents by Roadway

Freeway	May 2011	April 2011	May 2010
I-75 (CHRYSLER/FISHER)	130	107	138
I-94 (FORD)	118	70	134
I-696 (REUTHER)	85	72	92
I-96 (JEFFRIES)	63	59	75
M-10 (LODGE)	33	24	34
M-39 (SOUTHFIELD)	10	15	45
I-275	64	33	39
I-375	1	0	4
M-14	7	0	0
M-59	0	0	1
Total	511	380	562

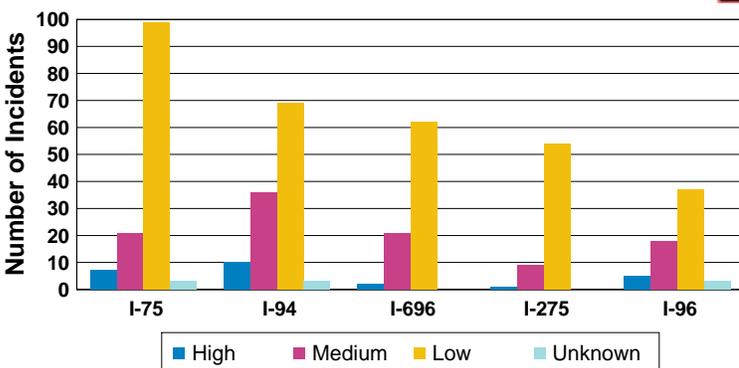
Total Incidents per Hour



Total Incident Severity/Duration by Month



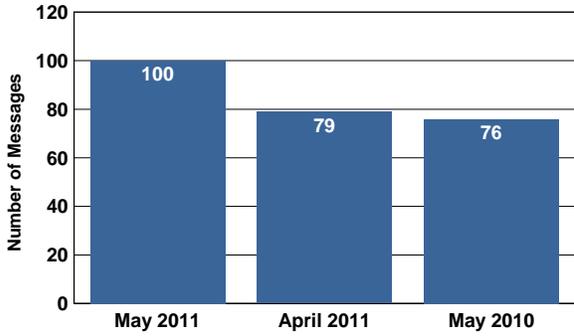
Severity/Duration by Top 5 Freeways



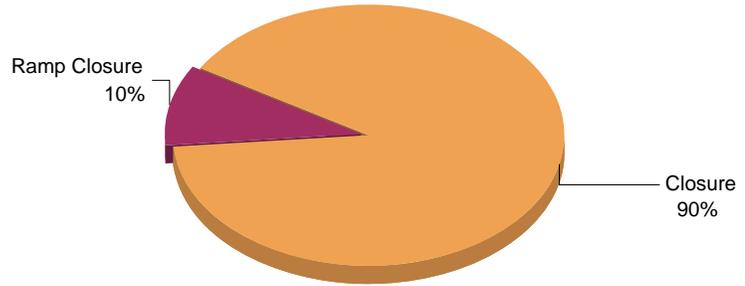
- Single-lane closures equal to 90+ minutes, partial closures (more than one lane, but not all) equal to 45+ minutes, or total closures (all lanes) 20+ minutes
- Shoulder closures equal to 90+ minutes, single-lane closures between 20 and 89 minutes, partial closures (more than one lane but not all) between 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



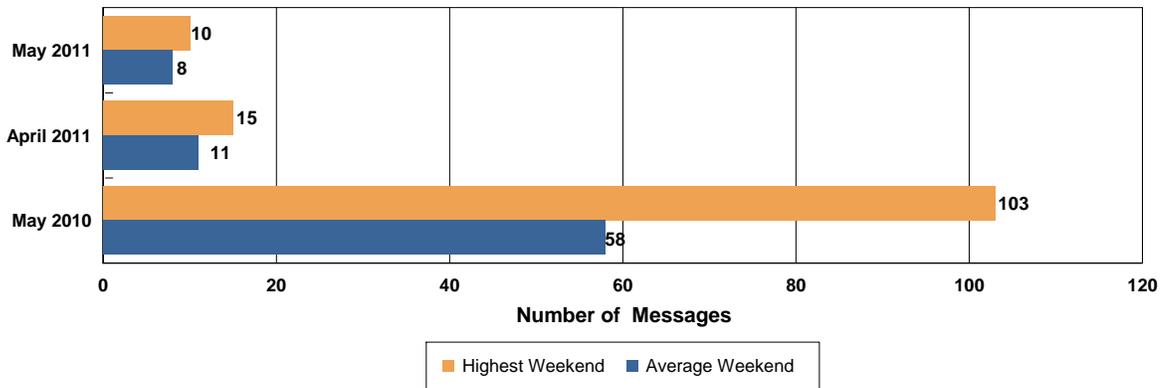
Unique Construction Messages



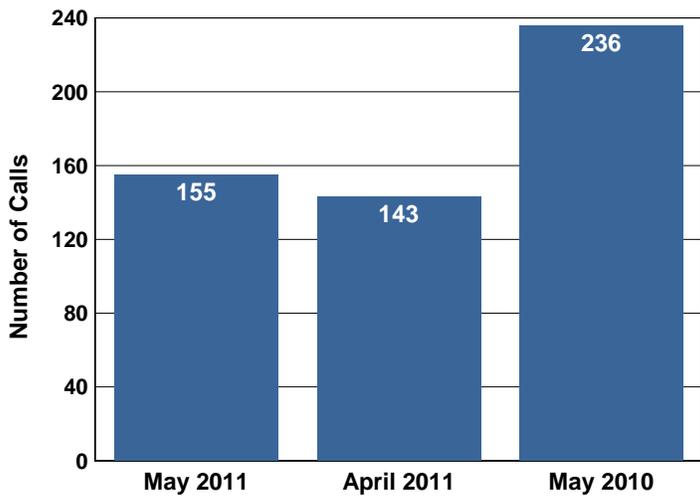
Highest Weekend Unique Construction Messages



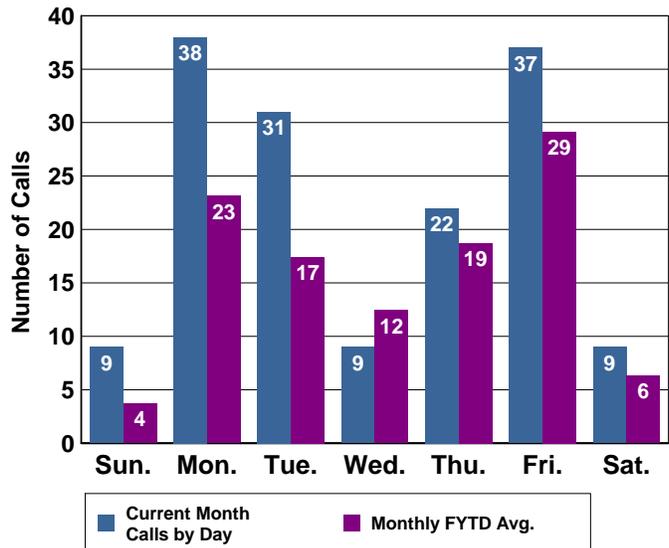
Weekend Construction DMS Message Activity



Total Construction Calls per Month



Construction Calls by Day



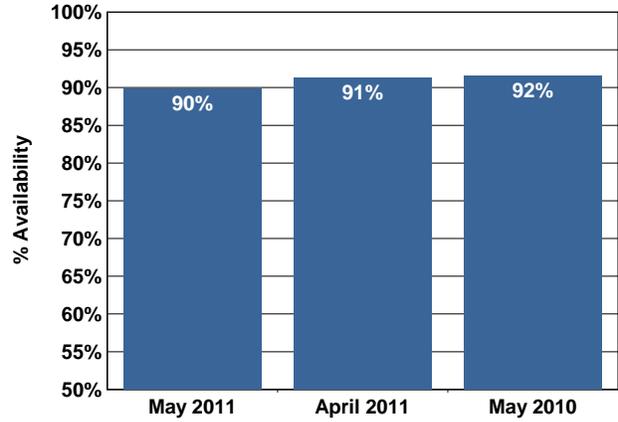
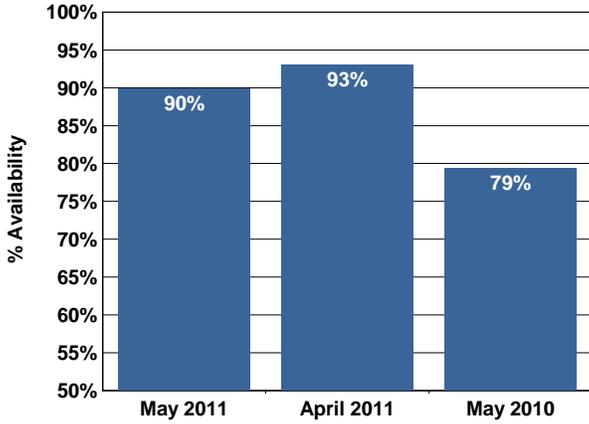
Construction Activity





	May 2011	April 2011	May 2010
Available	62	64	55
Not Available	7	5	14
Total	69	69	69

	May 2011	April 2011	May 2010
Available	153	155	169
Not Available	17	15	16
Total	170	170	185



Equipment Upgrades



Equipment Type	Maintenance Activity
CCTV	
----	-
TOTAL	0
DMS	
----	-
TOTAL	0
Hub-Node Tower/Other	
Troy Hole Project	ATP Testing
C-cans	Relocation
TOTAL	2

Work Order Processing

