

Michigan Intelligent Transportation Systems Center

Serving Motorists on Southeast Michigan Freeways

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

June 2011



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In the Spotlight



The 53rd Annual Target Fireworks drew an estimated 1.2 million people to the downtown Detroit riverfront. The MITS Center and the City of Detroit Traffic Management Center (CODTMC) worked extremely well together in managing incoming and outgoing traffic for the event. The Detroit Police Department and Michigan State Police utilized both of the centers cameras to obtain a better overall look at the event and as a tool to more accurately dispatch their officers where needed. Through strategic planning, individual freeways and ramps were closed for incoming traffic at 6 p.m. and reopened at midnight to assist in downtown motorist mobility. All traffic leaving the city cleared just before midnight, a half-hour improvement from last year.



Compiled by:

URS

Summary

Data Key

June 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.

4,390

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.

6,369

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.

272,951

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.

500

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



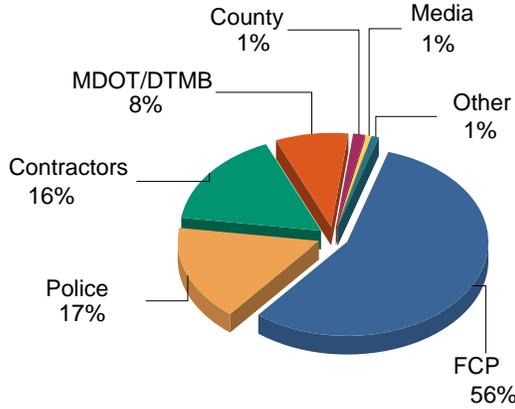
System Availability

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: 93%

CCTV: 91%

Calls by Type



Total Calls: 6,369

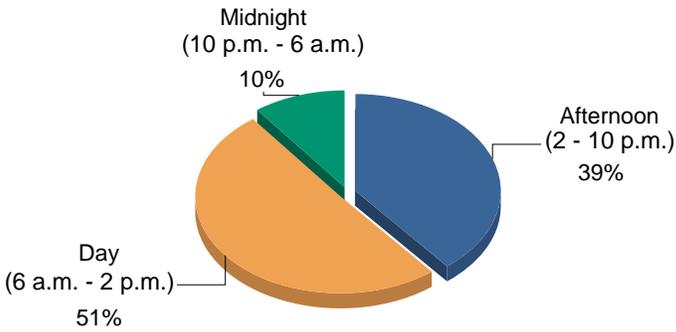
Agency	No. of Calls
FCP	3,545
Contractors	1,044
City	12
County	89
Federal	0
Fire	0
Police	1,047
Border	9
MDOT/DTMB	518
Media	45
Special Events	13
Transit	1
State	0
Parking	1
Airport	0
Animals	0
OTHER	45
Total	6,369

MDOT/DTMB	Total
Taylor TSC	222
Oakland TSC	89
MITS Center	68
Macomb TSC	31
Detroit Maintenance Garage	29
Auburn Hills Garage	21
DTMB	18
Detroit TSC	12
Metro Region Office	10
Port Huron TSC	9
Answering Service	4
Jackson TSC	3
Brighton TSC	2
Total	518

Calls by Weekday Shift

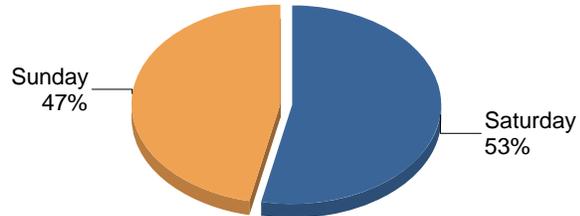


Monday - Friday



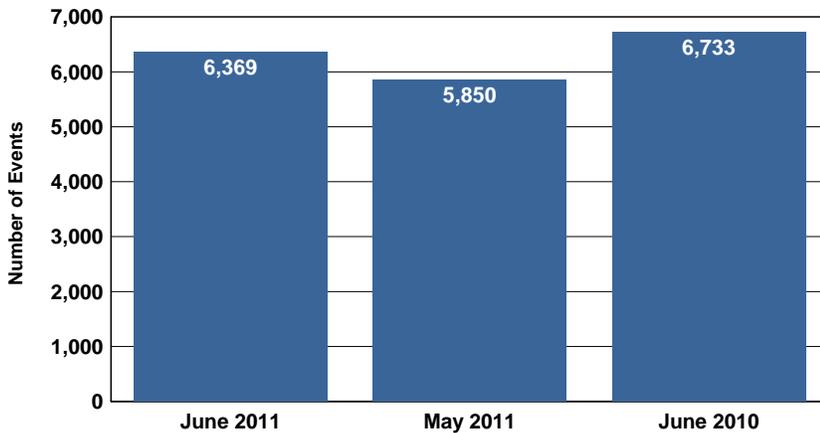
Average Number of Calls per Weekday: 242

Calls by Weekend Day



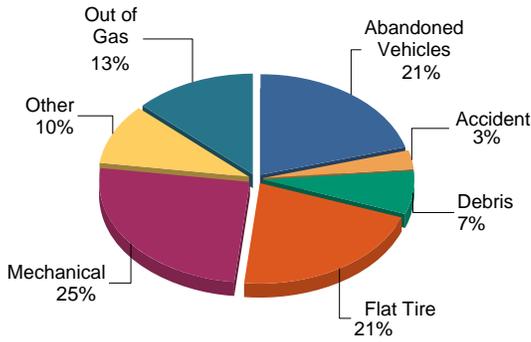
Average Number of Calls per Weekend: 266

Monthly Event History



FCP Assist Type

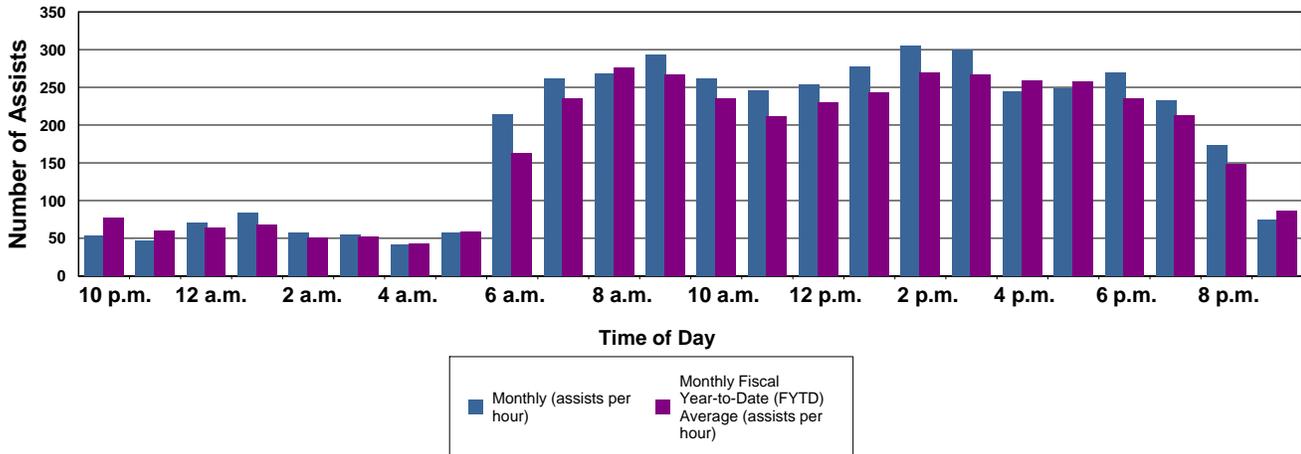
FCP Random Fact & Monthly Totals



In June, the Freeway Courtesy Patrol responded to 4,390 total incidents. Of that total, 75 percent of these incidents took place on the right shoulder of the freeway, while the remaining 25 percent took place on the left shoulder.

June Total: 4,390
3,445 Assists
945 Abandoned Vehicle Stops

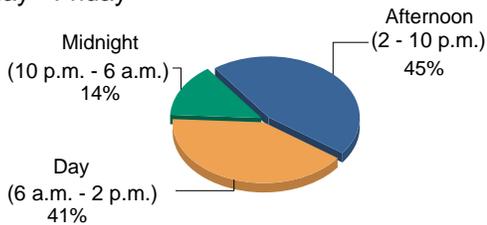
FCP Assists by Time of Day



FCP Dispatches by Weekday Shift

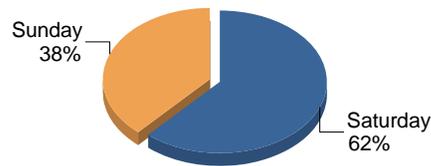


Monday - Friday



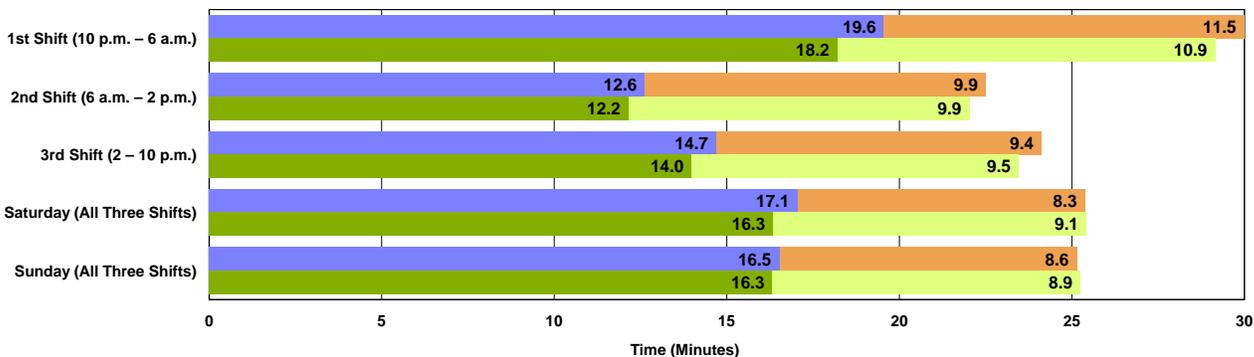
Average Number of Dispatches per Weekday: 34

FCP Dispatches by Weekend Day



Average Number of Dispatches per Weekend: 48

FCP Average Service Times



Legend: Current Month Average Response Times (Blue), Monthly FYTD Average Response Times (Green), Current Month Average Clear Times (Orange), Monthly FYTD Average Clear Times (Yellow)



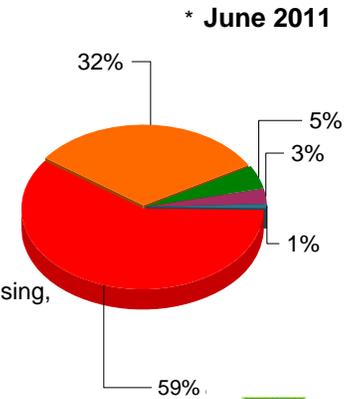
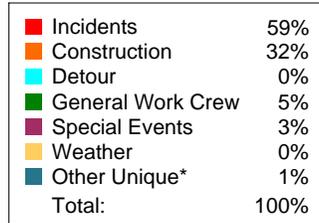
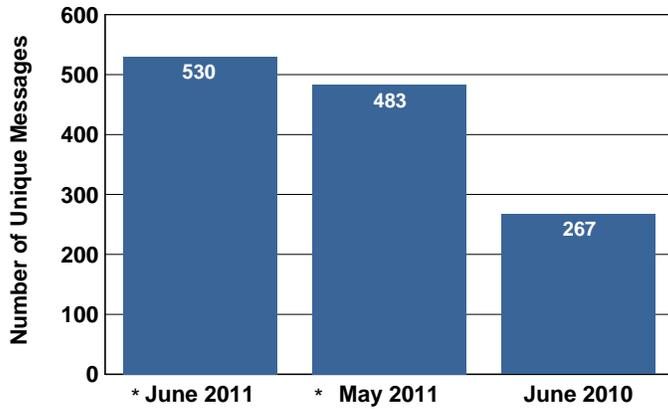


"I was driving home from a Detroit Tiger's game and got a flat tire on the I-96 expressway. I was in the process of making some calls to have someone come change my tire, and one of your MDOT courtesy vans pulled up. It was so nice to see him! Your courtesy van driver changed my tire and I was on my way within 15 minutes. I wanted to say thanks to him for handling the tire change in such a quick manner - and he was very courteous, and thanks to your company for this awesome service. I really appreciate it!!"



Freeway	Segment	TOTAL ASSISTS (miles)	TOTAL ASSISTS		ASSIST DENSITY		AVERAGE RESPONSE TIME (min)		AVERAGE CLEAR TIME (min)	
			June 2011	FYTD Avg.	June 2011	FYTD Avg.	June 2011	FYTD Avg.	June 2011	FYTD Avg.
I-75	Oakland County Line to I-696	37.0	433	387.1	11.7	10.5	22.3	19.8	8.4	9.5
	I-696 to I-94	8.0	254	237.0	31.8	29.6	13.2	11.7	10.9	11.3
	I-94 to I-96	5.6	86	75.1	15.4	13.4	9.7	11.2	9.6	11.2
	I-96 to I-275	37.0	374	285.3	10.1	7.7	15.5	15.0	10.0	9.7
		87.6	1,147	984.6	13.1	101.2	16.6	15.2	9.6	10.1
I-94	Washtenaw County Line to M-39	20.7	375	299.8	18.1	14.5	13.7	15.9	10.5	9.3
	M-39 to I-75	9.0	312	279.3	34.7	31.0	12.7	11.9	8.8	9.8
	I-75 to I-696	10.0	310	277.1	31.0	27.7	14.7	14.4	10.6	10.3
	I-696 to St. Clair County Line	21.0	169	148.3	8.0	7.1	15.7	17.4	9.0	8.2
		60.7	1,166	1,004.6	19.2	148.9	13.8	14.1	9.8	9.6
I-96	Livingston County Line to I-275/I-696	11.0	144	129.7	13.1	11.8	18.6	18.6	6.1	8.3
	I-275/M-14 to M-39	12.0	229	201.2	19.1	16.8	13.2	15.0	8.4	9.1
	M-39 to I-75	11.0	312	295.8	28.4	26.9	15.0	12.6	9.4	9.6
		34.0	685	626.7	20.1	165.9	15.0	14.5	8.3	9.2
I-275	I-96/I-696 to M-14/I-96	8.0	114	110.0	14.3	13.8	12.7	16.5	9.9	8.5
	M-14/I-96 to I-94	12.0	140	133.9	11.7	11.2	15.8	15.3	10.6	8.9
	I-94 to I-75	17.5	110	67.6	6.3	3.9	26.3	17.6	10.0	8.3
		37.5	364	311.4	9.7	74.7	15.7	16.0	10.2	8.6
I-696	I-96/I-275 to M-10	9.3	161	146.8	17.3	15.8	17.0	16.8	8.5	8.9
	M-10 to I-75	9.0	147	128.4	16.3	14.3	16.6	13.9	11.2	10.4
	I-75 to I-94	10.4	161	180.8	15.5	17.4	14.3	13.5	9.3	9.8
		28.7	469	456.0	16.3	143.0	16.0	14.6	9.6	9.7
M-59 (Veterans)		24.0	19	33.4	0.8	1.4	32.0	23.9	7.3	8.4
I-375		1.2	5	4.6	4.2	3.8	9.0	14.3	6.6	7.9
M-10 (Lodge)		17.9	314	319.1	17.5	17.8	11.3	11.7	10.6	10.3
M-14		6.4	81	56.4	12.7	8.8	18.2	18.0	9.4	9.1
M-39 (Southfield)		14.2	62	215.1	4.4	15.1	22.9	13.0	11.9	10.7
M-5 (Grand River)		10.3	40	32.4	3.9	3.1	16.8	19.4	7.1	7.2
M-8 (Davison)		2.2	38	28.9	17.3	13.1	11.4	10.2	12.0	11.8
Total		324.7	4,390	4,073.2						

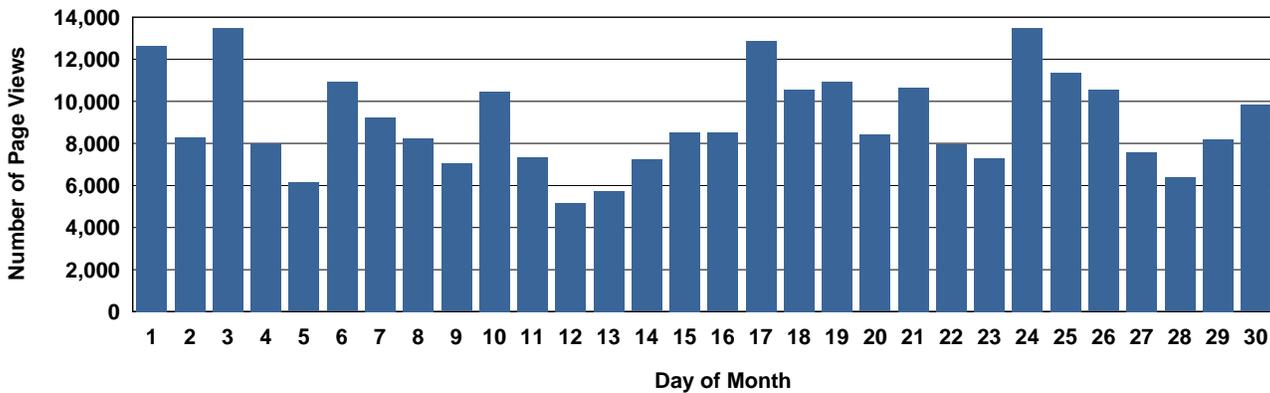
Unique DMS Messages by Type



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

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

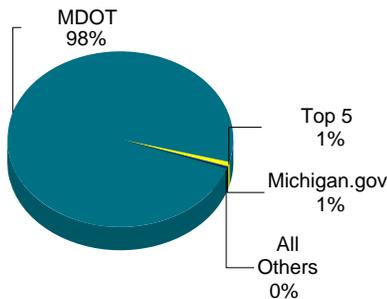
Mi Drive Web Site June Daily Page Views



Referring Site Requests to Mi Drive Web Site in June



In **June**, the Mi Drive Web site experienced the most activity on **Wednesdays**.



Top 5 Non-Michigan.gov Sites

- http://www.google.com/
- http://search.yahoo.com/
- http://www.tv20detroit.com/
- http://www.clickondetroit.com/
- http://www.bing.com/

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

Incident Communication Accuracy



Weekend DMS Snapshot Review	June 2011	May 2011	June 2010
All Incident Messages	100%	100%	100%
High-Impact DMS Messages	June 2011	May 2011	June 2010
All High-Impact Messages	100%	100%	100%
Freeway Closure Messages	100%	100%	100%
Lane Closure Messages	100%	100%	100%
Ramp Closure Messages	100%	100%	100%
Other Communication	June 2011	May 2011	June 2010
Advisory Text Messages	96%	91%	89%
Web Site Incident Postings	100%	95%	98%

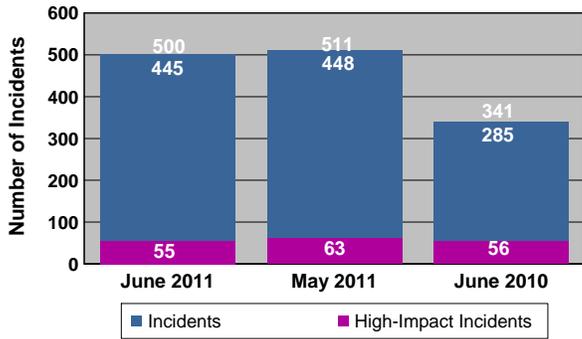
Most Utilized DMS



1. I-96 EB Local at Evergreen
2. I-75 SB at State Fair
3. I-696 EB at Couzens
4. I-75 NB at Clay
5. M-39 NB at Puritan



Total Number of Incidents



High-Impact Incident Activity



	June 2011	May 2011	June 2010
Freeway Closures All Lanes Closed	10	7	17
Lane Closures Only One Lane Open	43	49	30
Ramp Closures Freeway-to-Freeway	2	7	9
Total	55	63	56

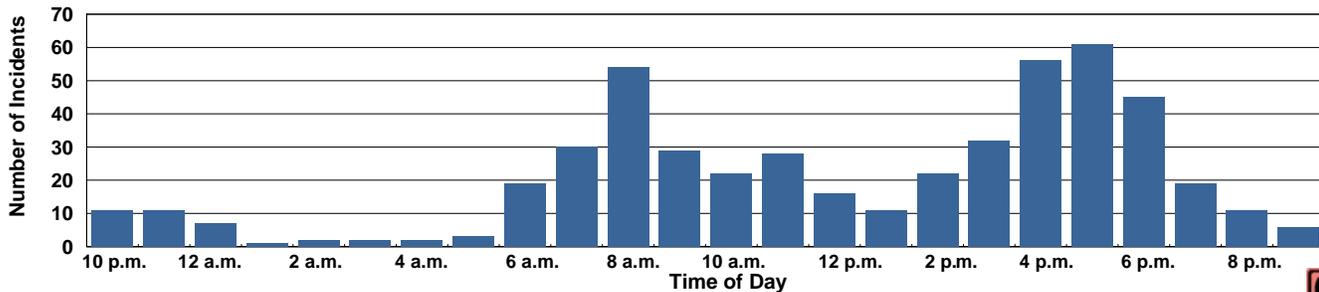
High-impact incidents account for **11%** of the total incidents in June.



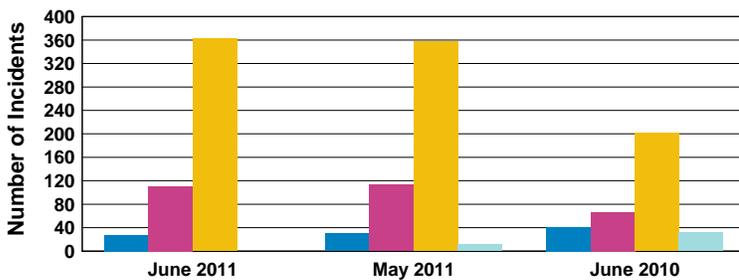
Total Incidents by Roadway

Freeway	June 2011	May 2011	June 2010
I-75 (CHRYSLER/FISHER)	135	130	87
I-94 (FORD)	88	118	68
I-696 (REUTHER)	113	85	57
I-96 (JEFFRIES)	54	63	42
M-10 (LODGE)	33	33	23
M-39 (SOUTHFIELD)	4	10	31
I-275	62	64	31
I-375	0	1	2
M-14	10	7	0
M-59	1	0	0
Total	500	511	341

Total Incidents per Hour

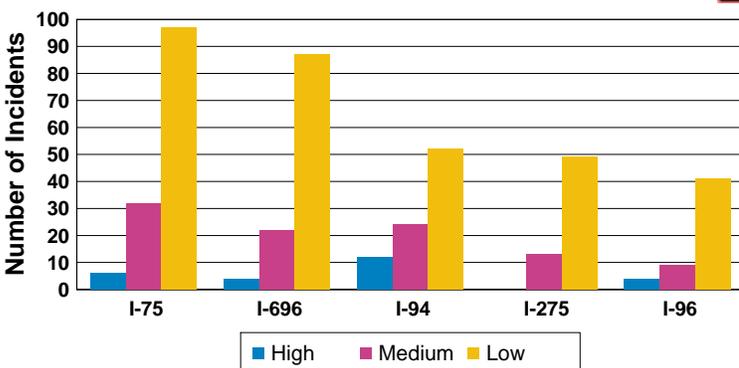


Total Incident Severity/Duration by Month

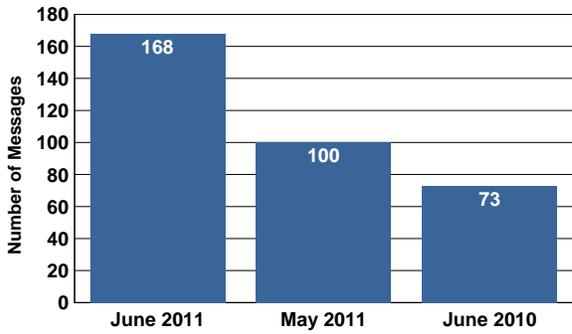


- Single-lane closures equal to 90+ minutes, partial closures (more than one lane, but not all) equal to 45+ minutes, or total closures (all lanes) 20+ minutes
- Shoulder closures equal to 90+ minutes, single-lane closures between 20 and 89 minutes, partial closures (more than one lane but not all) between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

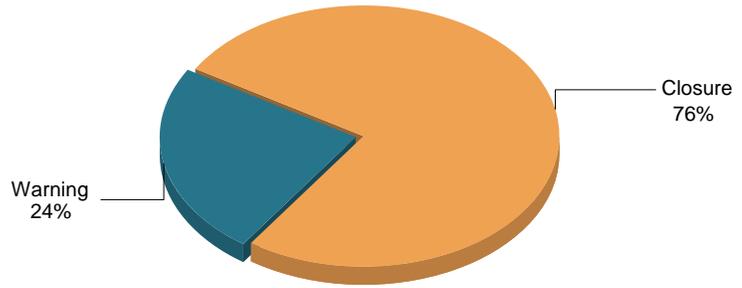
Severity/Duration by Top 5 Freeways



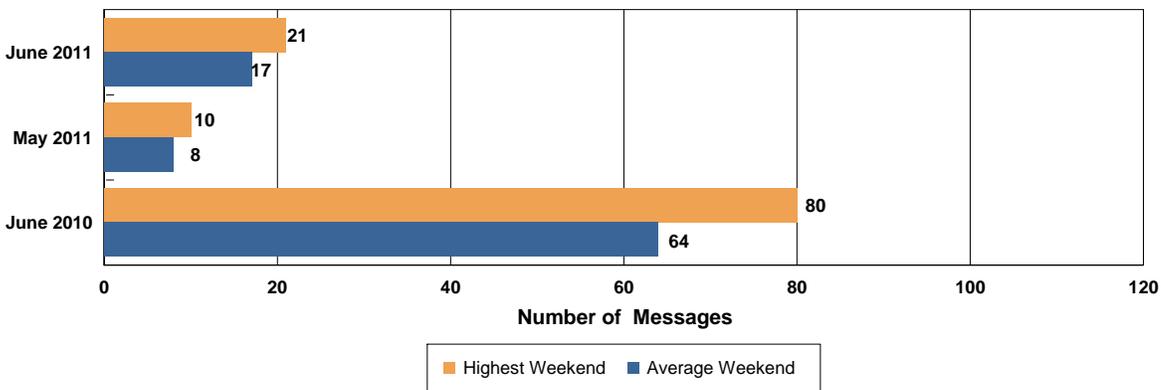
Unique Construction Messages



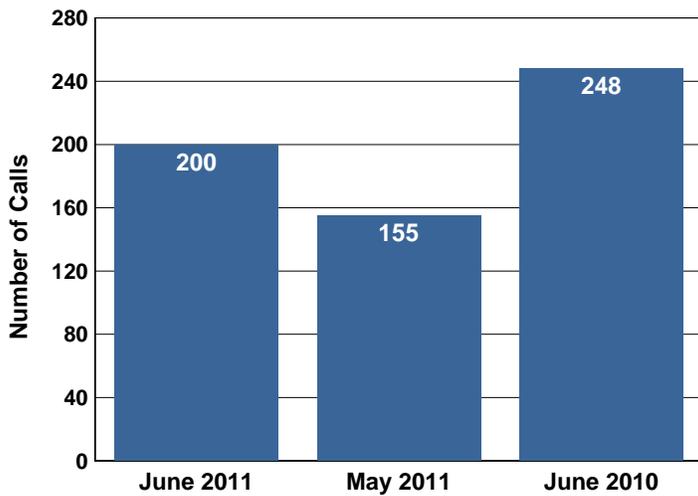
Highest Weekend Unique Construction Messages



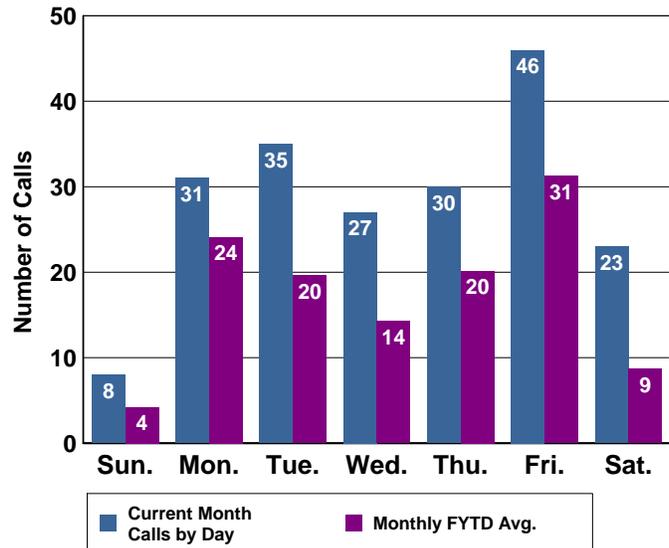
Weekend Construction DMS Message Activity



Total Construction Calls per Month



Construction Calls by Day



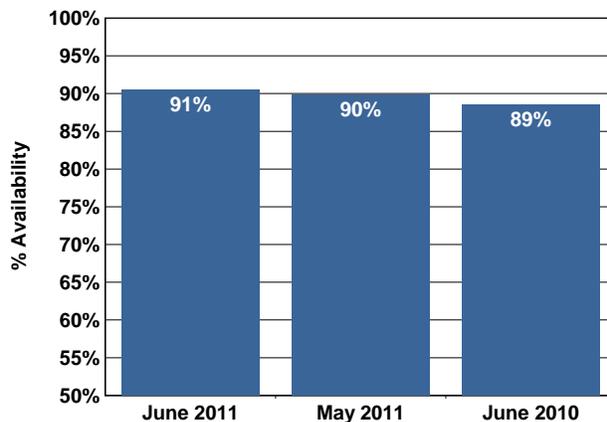
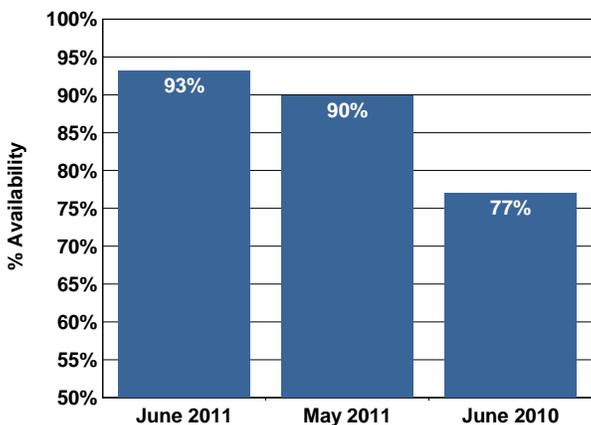
Construction Activity





	June 2011	May 2011	June 2010
Available	64	62	53
Not Available	5	7	16
Total	69	69	69

	June 2011	May 2011	June 2010
Available	154	153	164
Not Available	16	17	21
Total	170	170	185



Equipment Upgrades



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

Work Order Processing

