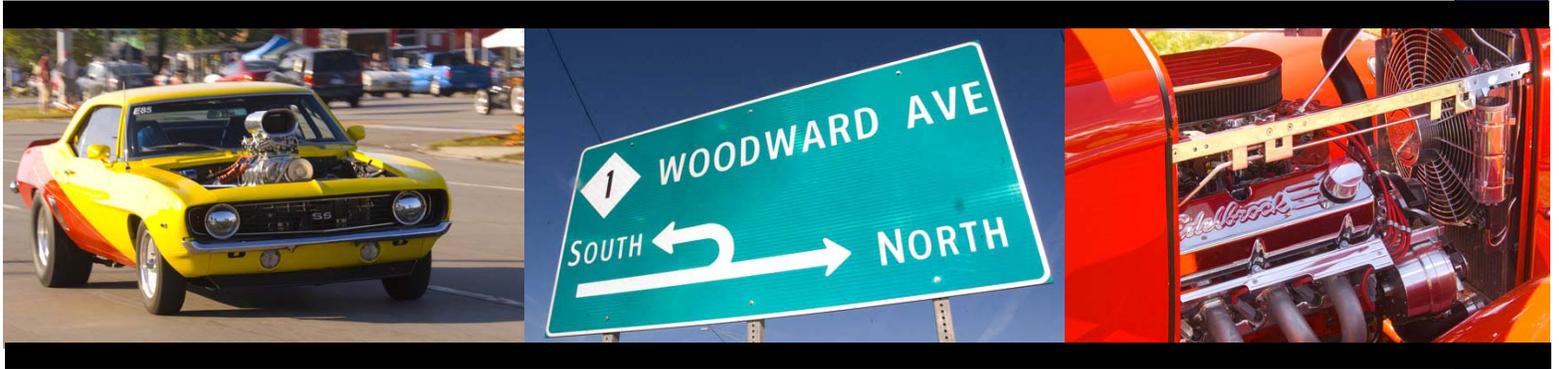


Michigan Intelligent Transportation Systems Center

Serving Motorists on Southeast Michigan Freeways

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

August 2010



Matt Smith, P.E., P.T.O.E.
18101 W. Nine Mile Road
Southfield, MI 48075
SmithMatt@michigan.gov

Sandra Montes, P.E.
1050 6th Street
Detroit, MI 48226
MontesS@michigan.gov

In the Spotlight



The Metro Detroit area hosted its annual Woodward Dream Cruise on Aug. 21, which spans 16 miles on M-1 (Woodward Avenue) from Pontiac to Detroit. MITSC plays a key role in this special event by providing dedicated message plans for the event weekend. The message plan incorporates the use of Changeable Message Signs, which display messages informing motorists of delays, alternate routes and safe driving practices over the course of the weekend. These messages are altered in real time with the use of Closed-Circuit Television cameras to give the most accurate information to motorists. These message plans, along with others throughout the year, reduce congestion and promote freeway safety for Metro Detroit motorists.

Classic Cars Cruising Along M-1



Compiled by:



Summary

Data Key

Aug. 2010

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.

4,593

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.

6,825

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.

165,656

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.

559

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



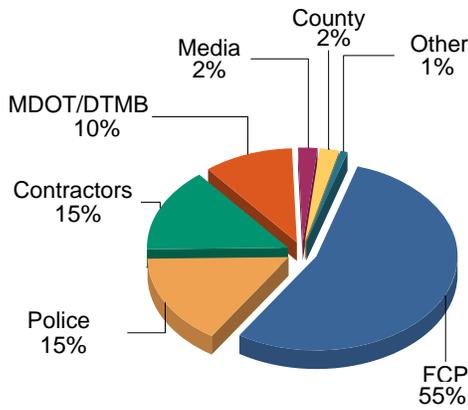
System Availability

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: 87%

CCTV: 93%

Calls by Type



Total Calls: 6,825

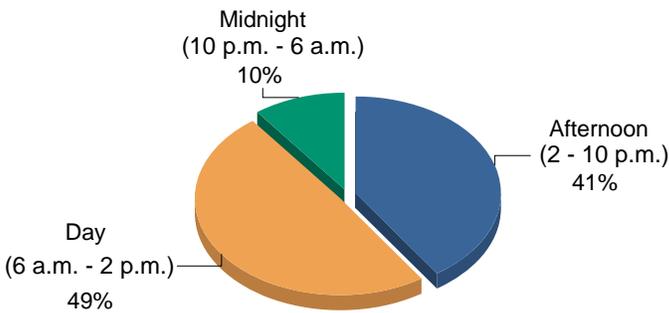
Agency	No. of Calls
FCP	3,707
Contractors	993
City	7
County	139
Federal	0
Fire	0
Police	1,051
Border	3
MDOT/DTMB	700
Media	151
Special Events	6
Transit	1
State	0
Parking	2
Airport	0
Animals	0
OTHER	65
Total	6,825

MDOT/DTMB	Total
Taylor TSC	238
Oakland TSC	137
Detroit TSC	72
MITS Center	69
Macomb TSC	55
DTMB	43
Auburn Hills Garage	26
Metro Region Office	22
Detroit Maintenance Garage	14
Jackson TSC	10
Answering Service	6
Port Huron TSC	4
University Region	2
Bay Region	1
Lansing	1
Total	700

Calls by Weekday Shift

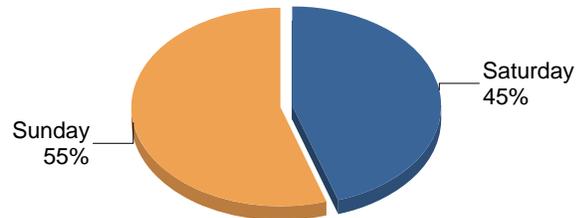


Monday - Friday



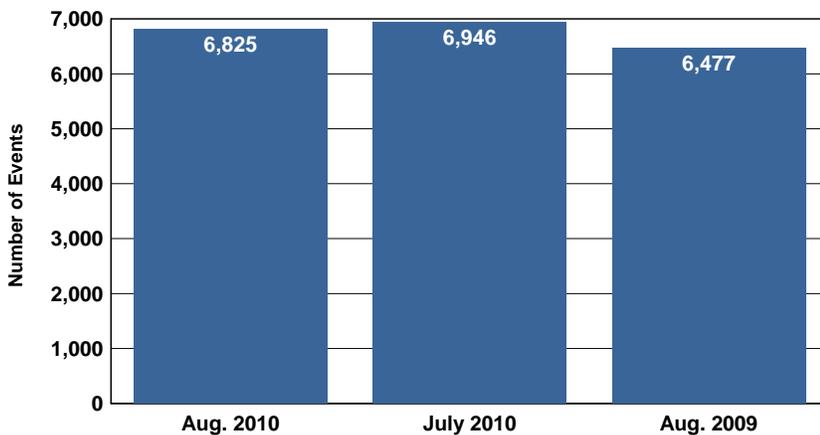
Average Number of Calls per Weekday: 252

Calls by Weekend Day



Average Number of Calls per Weekend: 291

Monthly Event History

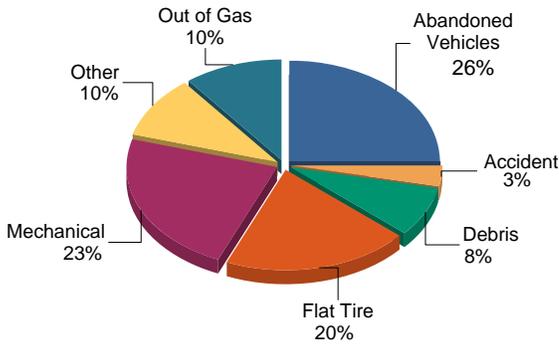


FCP Assist Type

FCP Random Fact & Monthly Totals



The farthest license plate of a motorist assisted was from Florida, totaling six separate vehicle assists. A total of 74 out-of-state vehicles were assisted during the month.

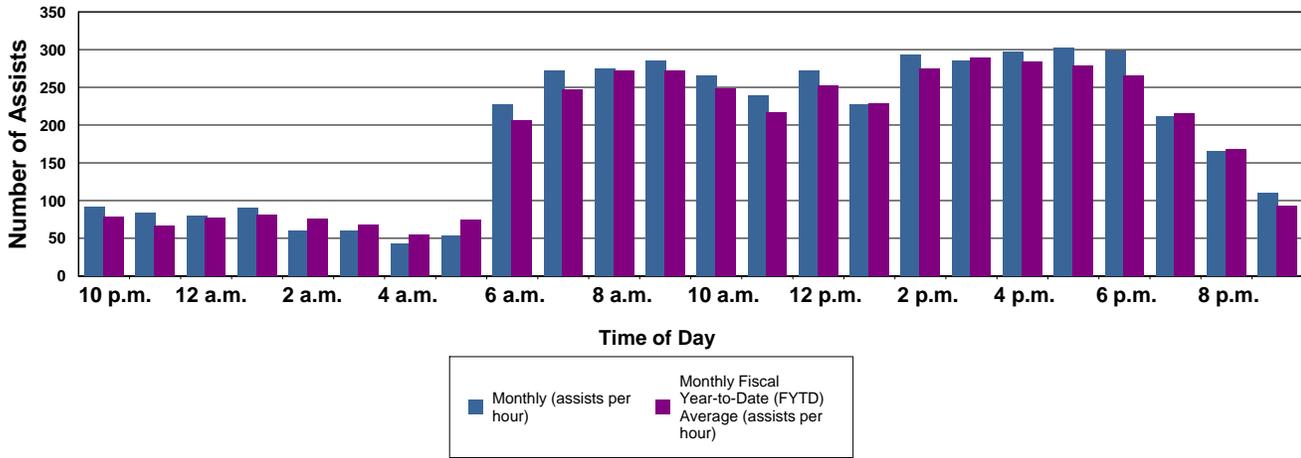


August Total: 4,593

3,379 Assists

1,214 Abandoned Vehicle Stops

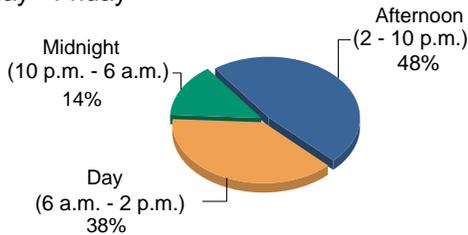
FCP Assists by Time of Day



FCP Dispatches by Weekday Shift

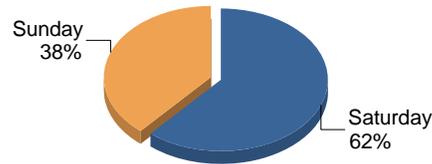


Monday - Friday



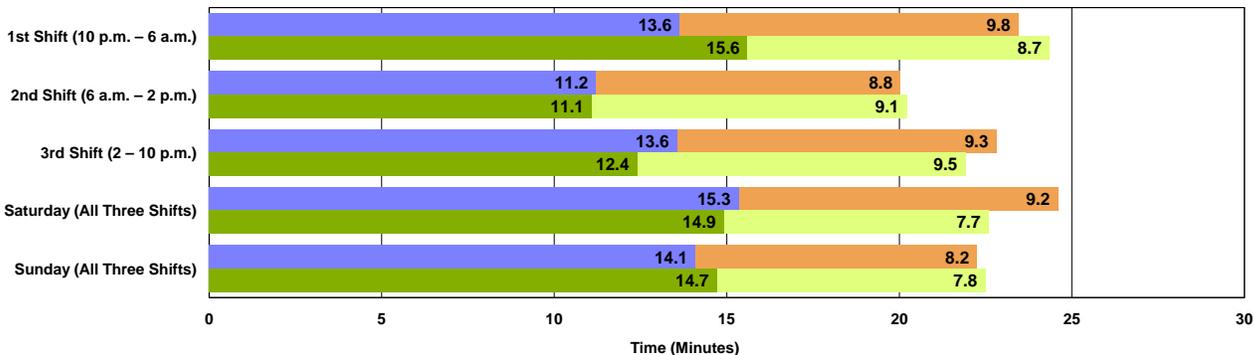
Average Number of Dispatches per Weekday: 30

FCP Dispatches by Weekend Day



Average Number of Dispatches per Weekend: 45

FCP Average Service Times



FCP Service Area and Assists per Mile



Motorist Quote of the Month:

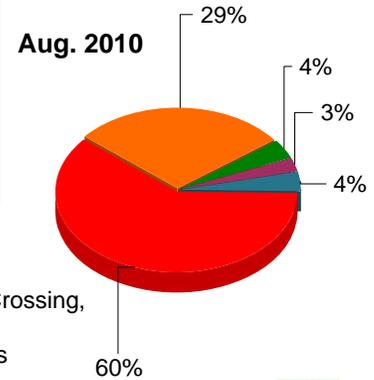
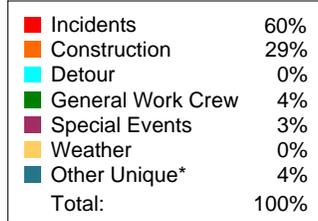
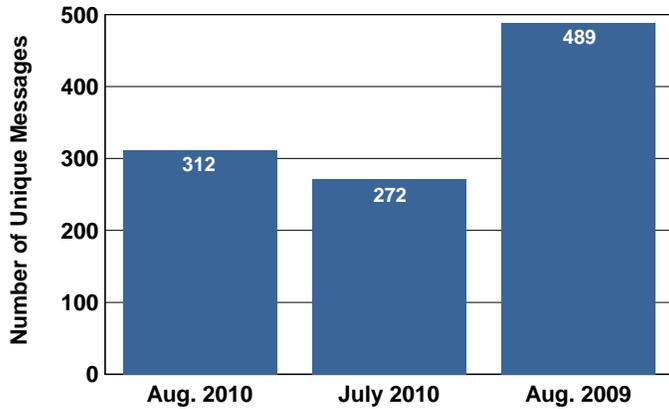
"I personally want to thank you for providing the MDOT Courtesy Patrol program. I ran out of gas and was on the phone with my roadside assistance when one of your drivers appeared and provided me with enough gas to get to the closest gas station. Thank You, MDOT."



Courtesy Patrol

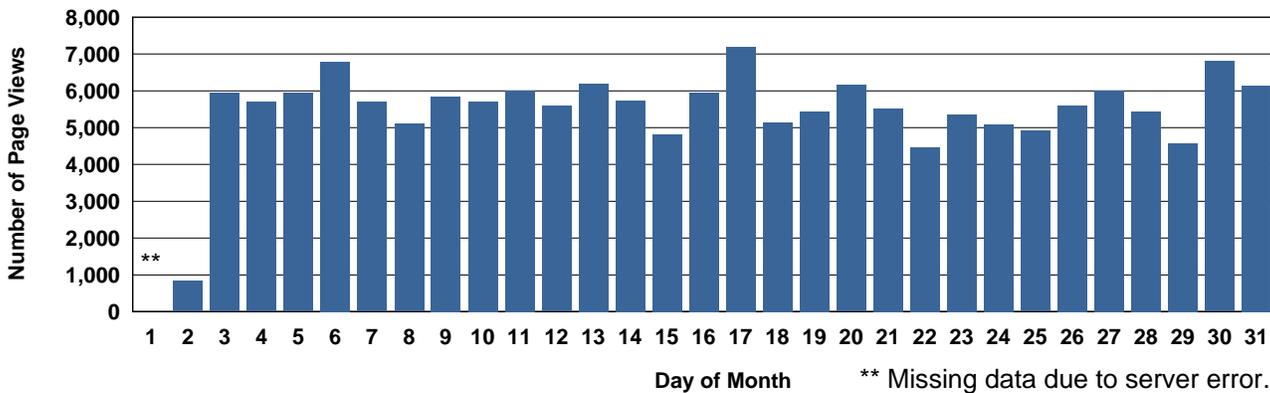
Freeway Segment	(miles)	TOTAL ASSISTS		ASSIST DENSITY		AVERAGE RESPONSE TIME (min)		AVERAGE CLEAR TIME (min)	
		August 2010	FYTD Avg.	August 2010	FYTD Avg.	August 2010	FYTD Avg.	August 2010	FYTD Avg.
I-75									
Oakland County Line to I-696	37.0	426	388.4	11.5	10.5	18.0	16.6	10.6	10.1
I-696 to I-94	8.0	276	250.4	34.5	31.3	12.1	10.3	9.9	10.5
I-94 to I-96	5.6	76	69.5	13.6	12.4	10.7	11.0	8.9	10.1
I-96 to I-275	37.0	361	282.7	9.8	7.6	15.0	14.4	7.4	8.3
	87.6	1,139	990.9	13.0	12.4	14.6	13.3	9.3	9.7
I-94									
Washtenaw County Line to M-39	20.7	322	326.7	15.6	15.8	14.1	13.6	8.7	9.0
M-39 to I-75	9.0	276	275.6	30.7	30.6	12.0	11.4	9.1	9.5
I-75 to I-696	10.0	321	280.1	32.1	28.0	10.6	12.2	9.3	9.0
I-696 to St. Clair County Line	21.0	119	200.5	5.7	9.5	14.4	13.1	7.4	7.9
	60.7	1,038	1,082.9	17.1	19.6	12.2	12.4	8.9	8.9
I-96									
Livingston County Line to I-275/I-696	11.0	156	121.6	14.2	11.1	18.7	17.6	8.6	8.2
I-275/M-14 to M-39	12.0	243	243.5	20.3	20.3	11.5	12.6	7.1	8.6
M-39 to I-75	11.0	313	307.4	28.5	27.9	11.4	11.8	7.8	8.0
	34.0	712	672.5	20.9	21.6	13.8	13.4	7.7	8.3
I-275									
I-96/I-696 to M-14/I-96	8.0	141	115.7	17.6	14.5	12.4	15.2	9.4	8.9
M-14/I-96 to I-94	12.0	146	149.2	12.2	12.4	12.1	13.6	9.9	7.9
I-94 to I-75	17.5	71	73.8	4.1	4.2	14.5	13.8	6.3	7.8
	37.5	358	338.7	9.5	9.9	12.3	14.2	9.0	8.2
I-696									
I-96/I-275 to M-10	9.3	168	144.2	18.1	15.5	14.2	14.4	8.5	8.7
M-10 to I-75	9.0	153	145.9	17.0	16.2	11.7	12.4	10.9	8.9
I-75 to I-94	10.4	216	195.6	20.8	18.8	14.4	12.2	9.4	8.5
	28.7	537	485.7	18.7	18.6	13.5	12.8	9.5	8.7
M-59 (Veterans)	24.0	25	29.2	1.0	1.2	11.7	20.4	9.6	10.1
I-375	1.2	10	8.9	8.3	7.4	11.0	13.2	11.8	9.0
M-10 (Lodge)	17.9	339	353.5	18.9	19.8	12.0	11.2	10.8	9.4
M-14	6.4	67	71.3	10.5	11.1	13.6	14.1	7.3	7.8
M-39 (Southfield)	14.2	301	270.9	21.2	19.1	12.0	12.0	8.6	9.5
M-5 (Grand River)	10.3	46	37.3	4.5	3.6	11.8	14.8	12.4	8.0
M-8 (Davison)	2.2	21	47.2	9.5	21.4	5.8	8.7	12.8	9.7
Total	324.7	4,593	4,389.0						

Unique DMS Messages by Type



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

Mi Drive Web Site August Daily Page Views

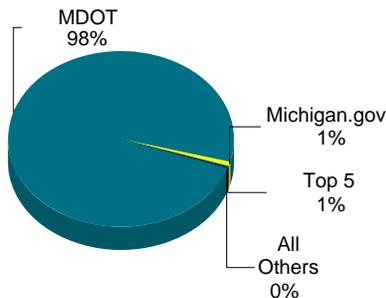


** Missing data due to server error.

Referring Site Requests to Mi Drive Web Site in August



In **August**, the Mi Drive Web site experienced the most activity on **Tuesdays**.



Top 5 Non-Michigan.gov Sites

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

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

Incident Communication Accuracy



Weekend DMS Snapshot Review	Aug. 2010	July 2010	Aug. 2009
All Incident Messages	100%	100%	100%
High-Impact DMS Messages	Aug. 2010	July 2010	Aug. 2009
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	Aug. 2010	July 2010	Aug. 2009
Advisory Text Messages	92%	89%	97%
Web Site Incident Postings	100%	100%	100%

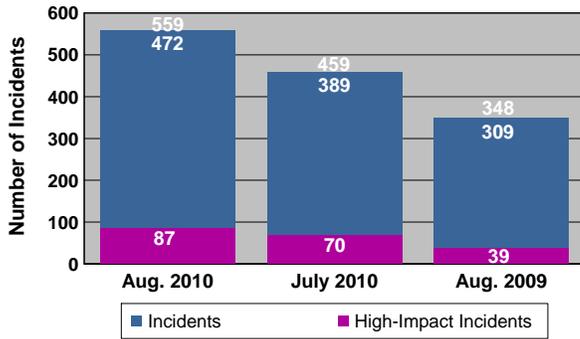
Most Utilized DMS



1. I-696 WB at Ryan
2. I-696 EB at Manistee
3. I-75 NB at Woodward Hghts.
4. I-75 SB at Wattles
5. I-75 SB at University



Total Number of Incidents



High-Impact Incident Activity



	Aug. 2010	July 2010	Aug. 2009
Freeway Closures All Lanes Closed	24	15	7
Lane Closures Only One Lane Open	48	48	30
Ramp Closures Freeway-to-Freeway	15	7	2
Total	87	70	39

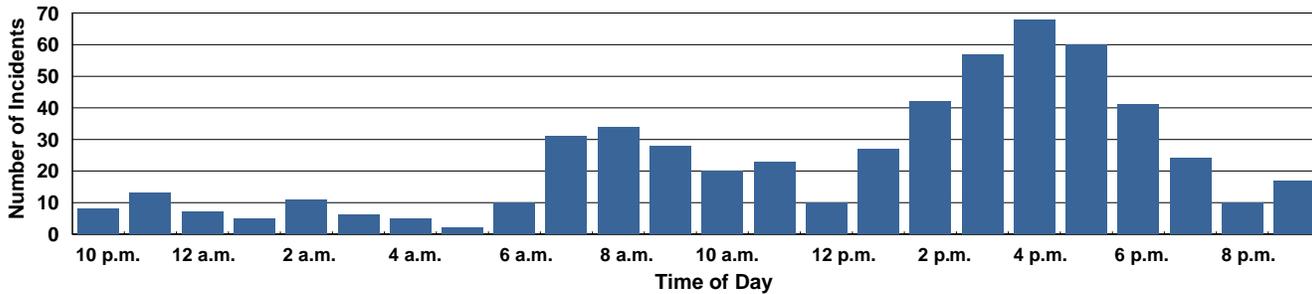
High-impact incidents account for **16%** of the total incidents in August.

Total Incidents by Roadway

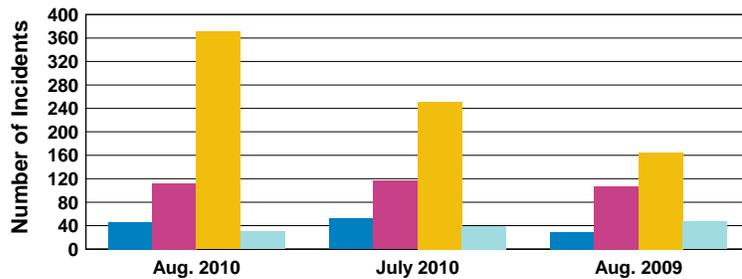


Freeway	Aug. 2010	July 2010	Aug. 2009
I-75 (CHRYSLER/FISHER)	164	120	99
I-94 (FORD)	112	96	75
I-696 (REUTHER)	100	66	47
I-96 (JEFFRIES)	61	63	37
M-10 (LODGE)	41	36	33
M-39 (SOUTHFIELD)	30	34	36
I-275	46	40	21
I-375	1	3	0
M-59	4	1	0
Total	559	459	348

Total Incidents per Hour

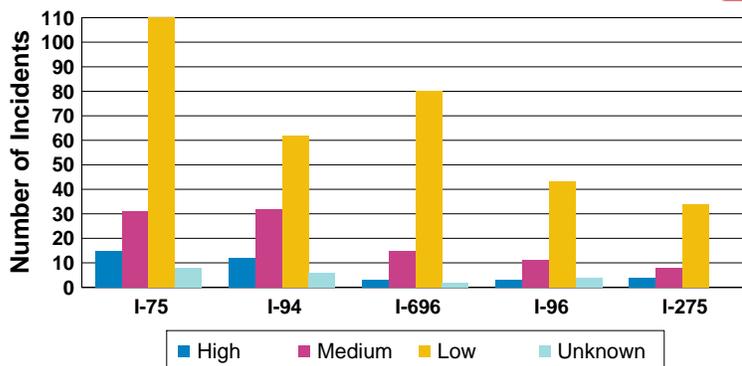


Total Incident Severity/Duration by Month

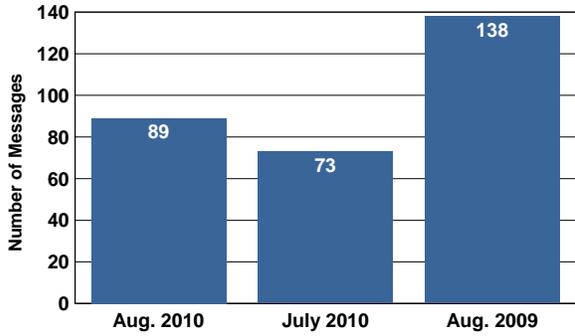


- Single-lane closures equal to 90+ minutes, partial closures (more than one lane, but not all) equal to 45+ minutes, or total closures (all lanes) 20+ minutes
- Shoulder closures equal to 90+ minutes, single-lane closures between 20 and 89 minutes, partial closures (more than one lane but not all) between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

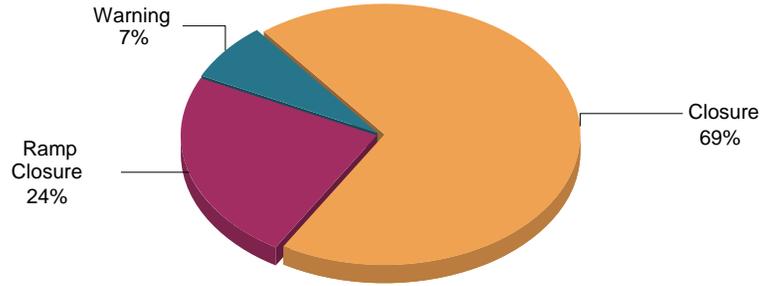
Severity/Duration by Top 5 Freeways



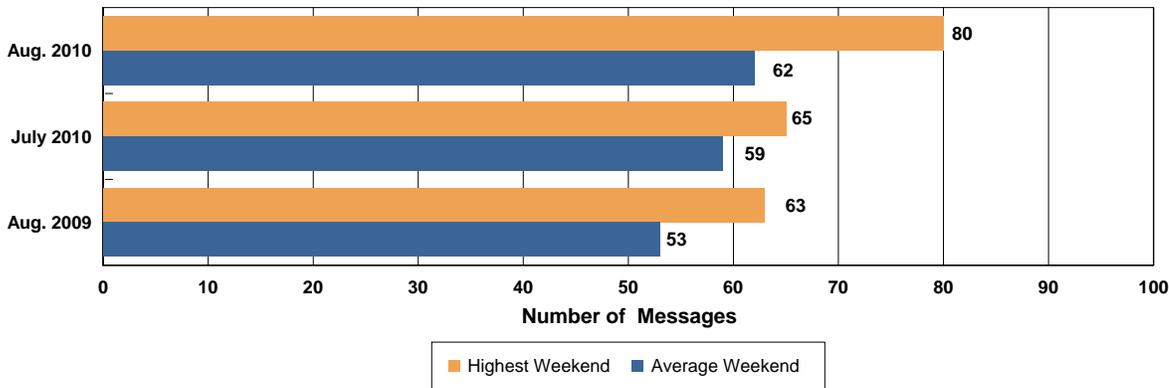
Unique Construction Messages



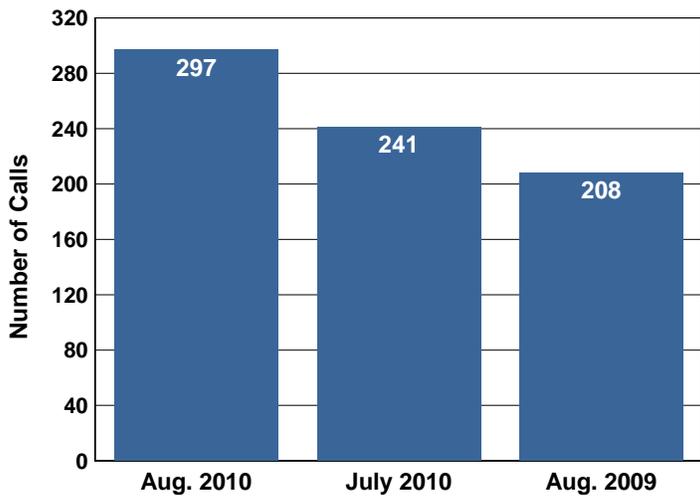
Highest Weekend Unique Construction Messages



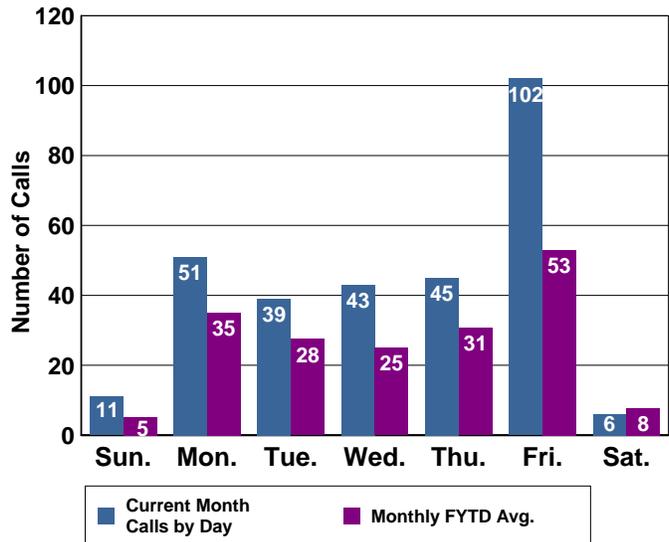
Weekend Construction DMS Message Activity



Total Construction Calls per Month



Construction Calls by Day



Construction Activity



DMS Availability

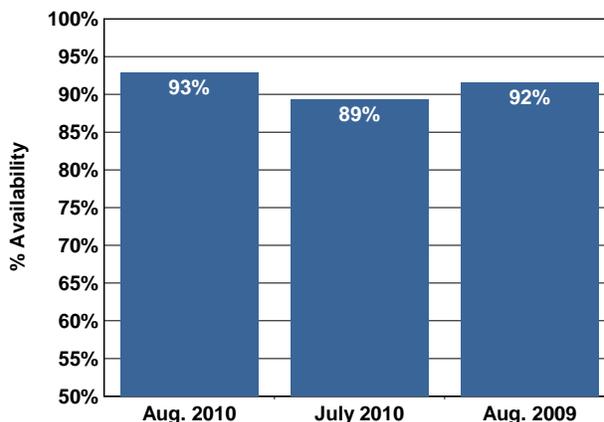
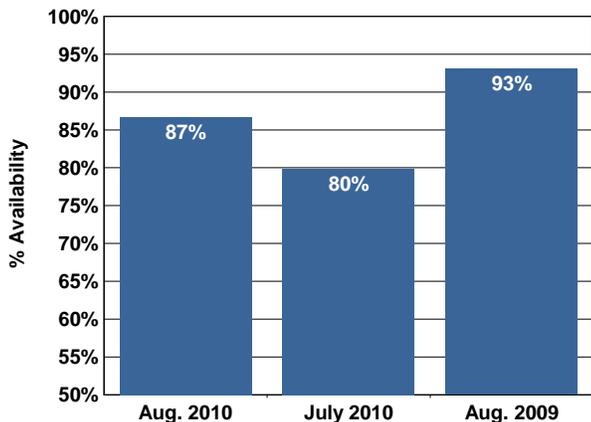


CCTV Camera Availability



	Aug. 2010	July 2010	Aug. 2009
Available	60	55	67
Not Available	9	14	5
Total	69	69	72

	Aug. 2010	July 2010	Aug. 2009
Available	172	165	152
Not Available	13	20	14
Total	185	185	166



Equipment Upgrades



Equipment Type	Maintenance Activity
CCTV	
-----	-
TOTAL	0
DMS	
-----	-
TOTAL	0

Work Order Processing

