

Michigan Intelligent Transportation Systems Center

Serving Motorists on Southeast Michigan Freeways

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

March 2012



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In the Spotlight



At the seventh annual Regional Operations Partnering Workshop on March 15, 2012, MITS Center representatives presented a demonstration of Incident Management that is done at the MITSC to over 50 participants including representatives from the Michigan Department of Transportation (MDOT), Michigan State Police, local police and fire departments, Metropolitan Planning Organizations, universities, county road commissions, and private engineering consulting firms, among various others.

This year's focus was to "Advance Traffic Incident Management" by increasing responder safety, promoting safe, quick clearance, and ensuring prompt reliable incident communication. For more information about the event, please visit www.semcog.org/RegionalOperations.aspx. In the coming months, MITS Center staff will continue to engage first responders by hosting Public Incident Safety Responder Workshops, raising awareness of MITS Center resources to increase safety of field personnel responding to freeway incidents.

Compiled by:



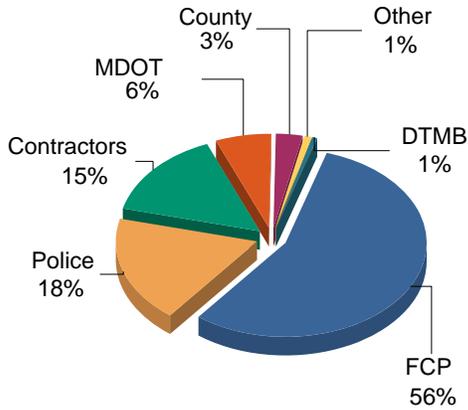
Summary

Data Key

March 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.		3,958
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.		5,720
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.		459
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: 97% CCTV: 100%

Calls by Type



Total Calls: 5,720

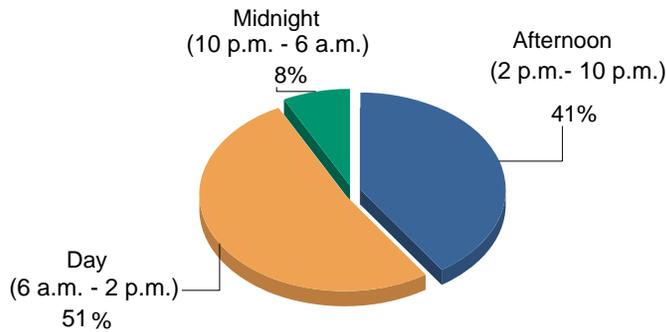
Agency	No. of Calls
Airport	1
Border	0
Contractors	858
County	167
Detroit, City of	5
DTMB	39
FCP	3,186
Federal	0
Fire	0
MDOT	369
Media	13
Police	1,033
Special Events	6
Transit	0
OTHER	43
Total	5,720

MDOT	Total
Metro Region Taylor TSC	99
Metro Region Operations Section	83
MITSC TOC	52
Metro Region Oakland TSC	51
Metro Region Macomb/St Clair TSC	21
Answering Service	16
Metro Region Office	15
Metro Region Detroit TSC	13
Statewide TOC	13
Blue Water Bridge TOC	2
MDOT Southwest Region	1
Metro Region Construction Section	1
TBD	1
West Michigan TOC	1
Total	369

Calls by Weekday Shift

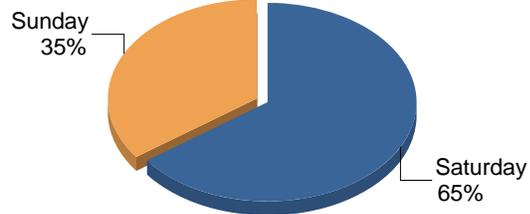


Monday - Friday



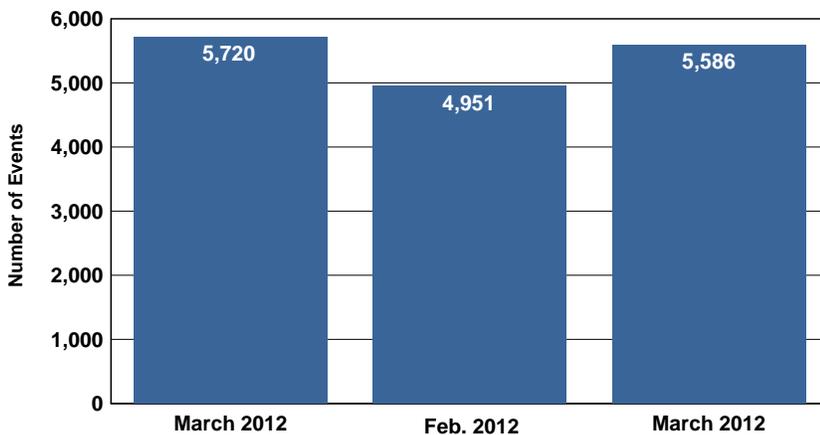
Average Number of Calls per Weekday: 217

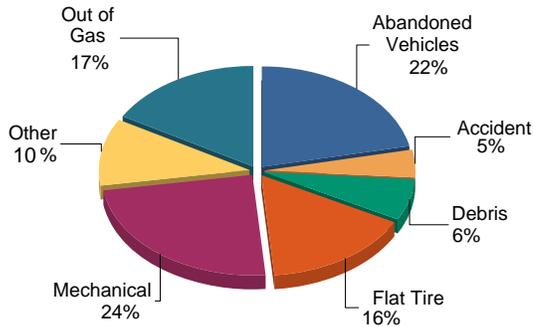
Calls by Weekend Day



Average Number of Calls per Weekend: 207

Monthly Event History





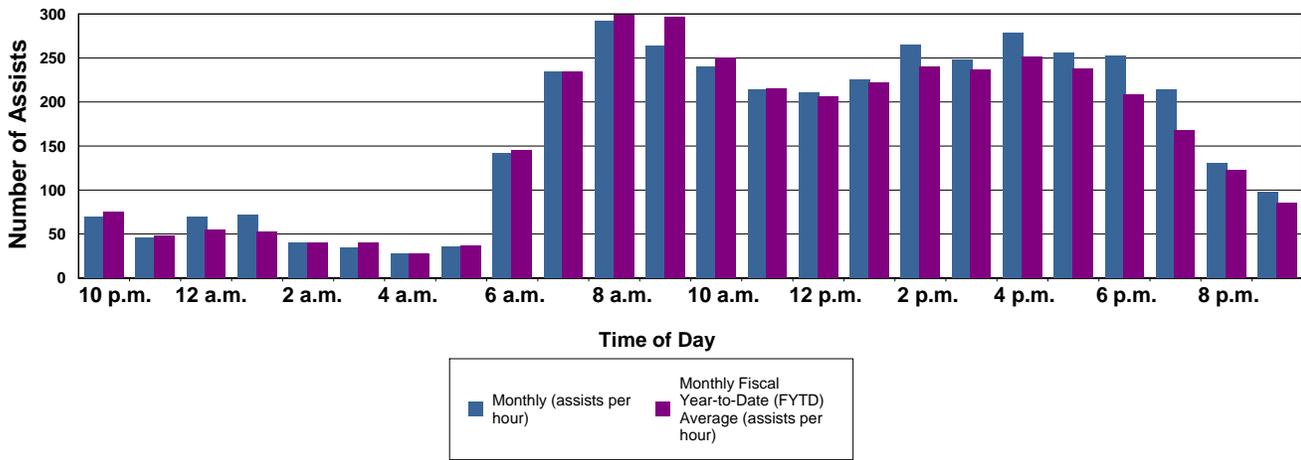
In the month of March, the highest number of assists for the Freeway Courtesy Patrol were in the Mechanical Assist category at 24 percent.

March Total: 3,958

3,043 Assists

915 Abandoned Vehicle Stops

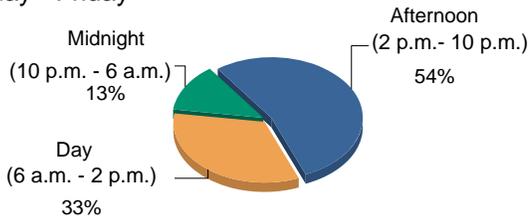
FCP Assists by Time of Day



FCP Dispatches by Weekday Shift



Monday - Friday



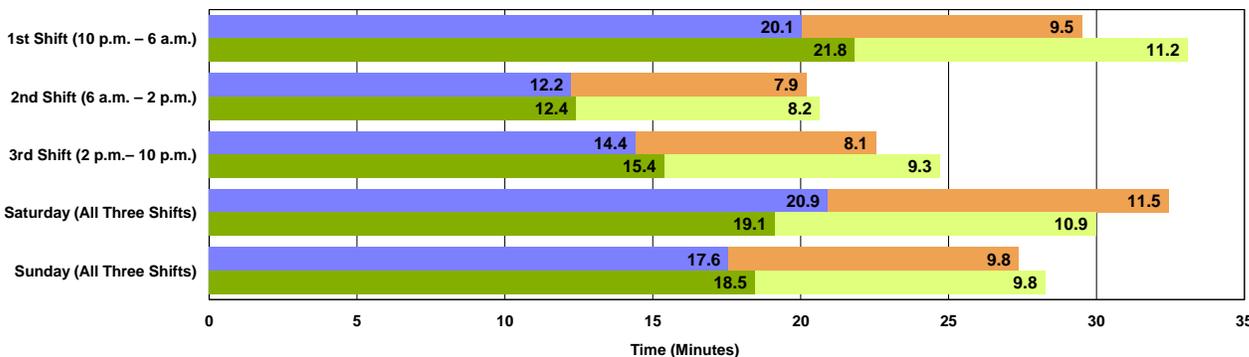
Average Number of Dispatches per Weekday: 34

FCP Dispatches by Weekend Day



Average Number of Dispatches per Weekend: 45

FCP Average Service Times



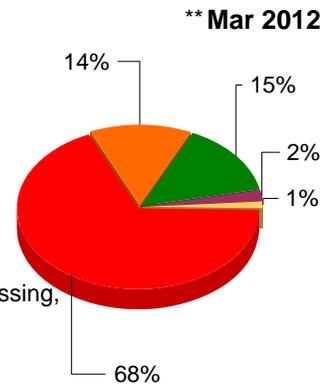
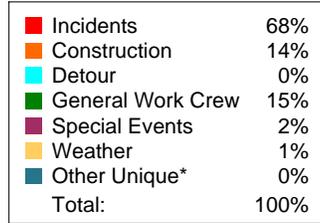
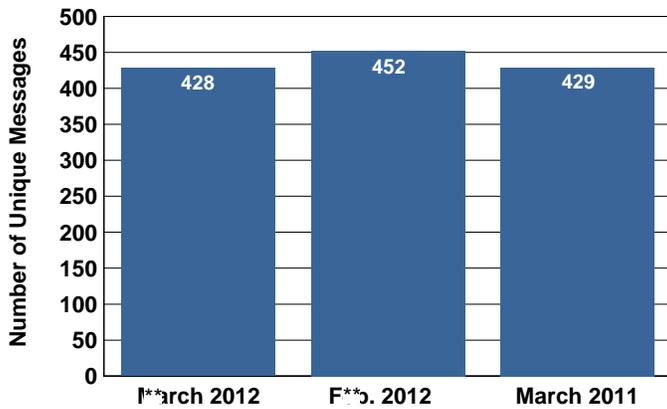


"I just wanted to express my appreciation for the quick, friendly service I received from your Courtesy Patrol on westbound I-94. I ran out of gas on my way home from work to pick up my children. The vehicle roadside assistance number that I called said it would take an hour for assistance to arrive. I was very concerned. Five minutes after I made the request for roadside assistance to my vehicle carrier, your Courtesy Patrol showed up and gave me enough gas to make it to the next station. I really appreciated the timely, friendly help! What a surprise and delight. I was able to get safely to my kids on time. Thank you, MDOT and your Courtesy Patrol!!"



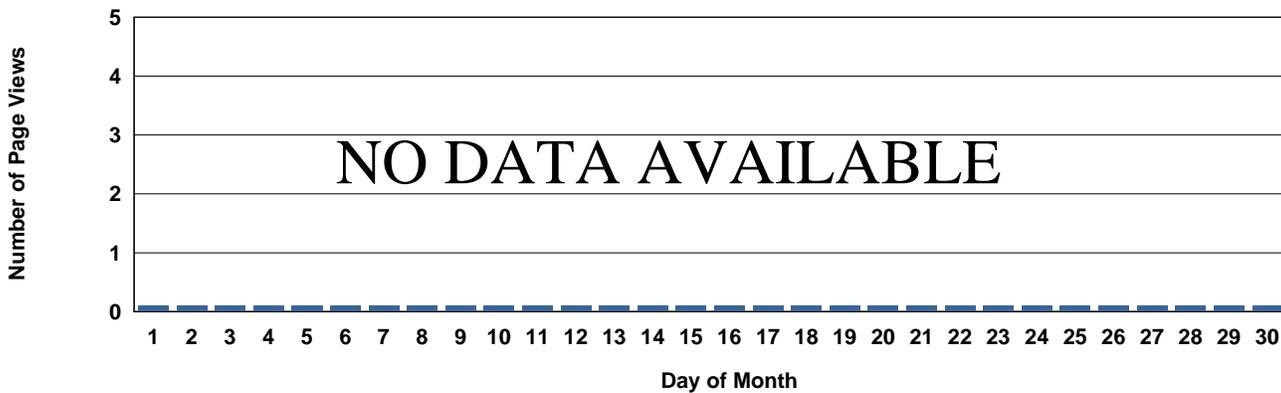
Freeway Segment	TOTAL ASSISTS (miles)	TOTAL ASSISTS		ASSIST DENSITY		AVERAGE RESPONSE TIME (min)		AVERAGE CLEAR TIME (min)	
		March 2012	FYTD Avg.	March 2012	FYTD Avg.	March 2012	FYTD Avg.	March 2012	FYTD Avg.
I-75									
Oakland County Line to I-696	37.0	326	318.3	8.8	8.6	20.7	23.1	7.1	8.0
I-696 to I-94	8.0	194	224.0	24.3	28.0	11.7	13.4	9.8	10.4
I-94 to I-96	5.6	65	66.7	11.6	11.9	11.6	13.2	11.3	9.6
I-96 to I-275	37.0	329	309.5	8.9	8.4	13.5	15.7	7.3	7.5
Total I-75	87.6	914	918.5	10.4	62.9	15.6	17.3	8.0	8.5
I-94									
Washtenaw County Line to M-39	20.7	348	293.3	16.8	14.2	20.1	18.7	8.6	8.8
M-39 to I-75	9.0	232	234.5	25.8	26.1	13.5	14.9	7.9	9.6
I-75 to I-696	10.0	273	241.2	27.3	24.1	13.2	15.2	10.4	9.5
I-696 to St. Clair County Line	21.0	155	129.2	7.4	6.2	14.9	15.8	7.5	8.4
Total I-94	60.7	1,008	898.2	16.6	88.8	15.1	16.0	8.7	9.1
I-96									
Livingston County Line to I-275/I-696	11.0	142	117.5	12.9	10.7	24.1	23.6	8.2	8.1
I-275/M-14 to M-39	12.0	186	184.7	15.5	15.4	16.9	16.1	6.9	10.6
M-39 to I-75	11.0	294	262.2	26.7	23.8	10.1	13.5	7.5	8.7
Total I-96	34.0	622	564.3	18.3	99.6	15.3	16.7	7.5	9.2
I-275									
I-96/I-696 to M-14/I-96	8.0	78	81.8	9.8	10.2	18.4	18.8	6.1	7.9
M-14/I-96 to I-94	12.0	104	114.0	8.7	9.5	18.1	17.3	8.1	10.9
I-94 to I-75	17.5	90	94.7	5.1	5.4	19.4	19.6	7.9	7.0
Total I-275	37.5	272	290.5	7.3	46.5	18.4	18.2	7.4	8.8
I-696									
I-96/I-275 to M-10	9.3	135	124.2	14.5	13.4	19.3	17.1	7.5	8.4
M-10 to I-75	9.0	138	136.5	15.3	15.2	15.2	14.3	9.3	8.4
I-75 to I-94	10.4	149	169.2	14.3	16.3	13.9	14.7	9.3	8.8
Total I-696	28.7	422	429.8	14.7	89.9	16.2	15.2	8.7	8.6
M-59 (Veterans)	24.0	39	30.7	1.6	1.3	23.0	24.3	8.4	8.3
I-375	1.2	7	7.2	5.8	6.0	7.0	9.2	9.7	10.5
M-10 (Lodge)	17.9	331	333.5	18.5	18.6	14.8	13.0	11.2	11.7
M-14	6.4	51	47.5	8.0	7.4	19.6	17.7	9.4	9.0
M-39 (Southfield)	14.2	224	213.8	15.8	15.1	12.4	13.5	8.5	8.8
M-5 (Grand River)	10.3	38	28.7	3.7	2.8	15.3	19.4	8.0	7.6
M-8 (Davison)	2.2	30	32.8	13.6	14.9	9.7	10.5	8.6	8.7
Total	324.7	3,958	3,795.5						

Unique DMS Messages by Type



* Airport, AMBER Alert, Border Crossing, Location Specific, Safety, and Travel Time Unique Messages
 ** data averaged due to system outage

Mi Drive Web Site March Daily Page Views



* Referring Site Requests to Mi Drive Web Site in March



NO DATA AVAILABLE

Incident Communication Accuracy



Weekend DMS Snapshot Review	March 2012	Feb. 2012	March 2011
All Incident Messages	100%	100%	100%
High-Impact DMS Messages	March 2012	Feb. 2012	March 2011
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	March 2012	Feb. 2012	March 2011
Advisory Text Messages	96%	86%	92%
Web Site Incident Postings	100%	100%	96%

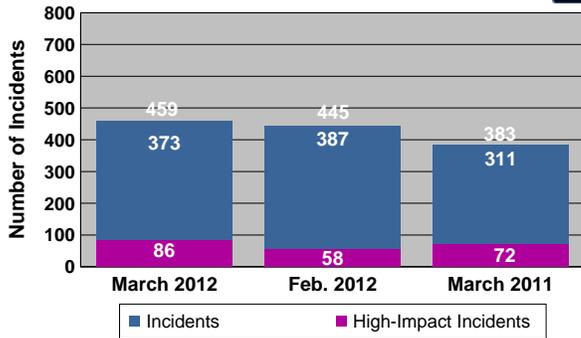
Most Utilized DMS



1. I-75 NB at Woodward Hgts.
2. I-75 NB at Woodward Hgts.
3. I-75 NB at Woodward Hgts.
4. I-75 SB at Wattles
5. I-696 EB at Manistee



Total Number of Incidents



High-Impact Incident Activity



	March 2012	Feb. 2012	March 2011
Freeway Closures All Lanes Closed	17	8	19
Lane Closures Only One Lane Open	59	41	39
Ramp Closures Freeway-to-Freeway	10	9	14
Total	86	58	72

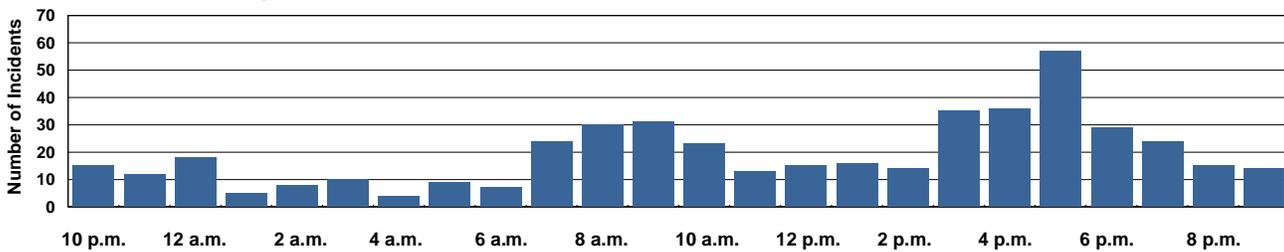
High-impact incidents account for **19%** of the total incidents in March.

Total Incidents by Roadway

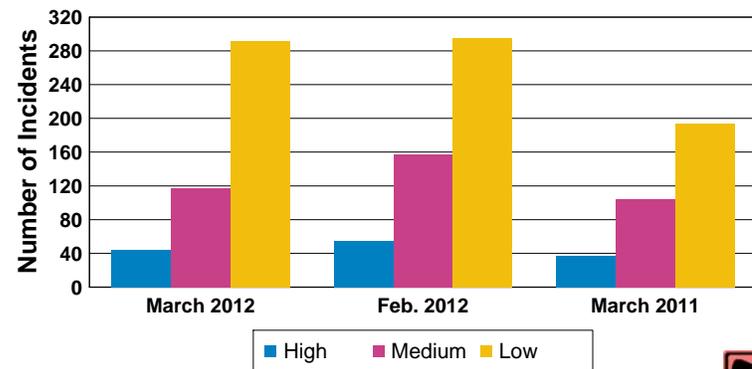


Freeway	March 2012	Feb. 2012	*March 2011
I-75 (CHRYSLER/FISHER)	112	117	84
I-94 (FORD)	107	98	74
I-696 (REUTHER)	57	63	74
I-96 (JEFFRIES)	83	75	65
M-10 (LODGE)	28	25	22
M-39 (SOUTHFIELD)	37	22	34
I-275	31	35	30
I-375	1	3	0
M-14	2	5	0
M-59	1	2	0
Total	459	445	383

Total Incidents per Hour

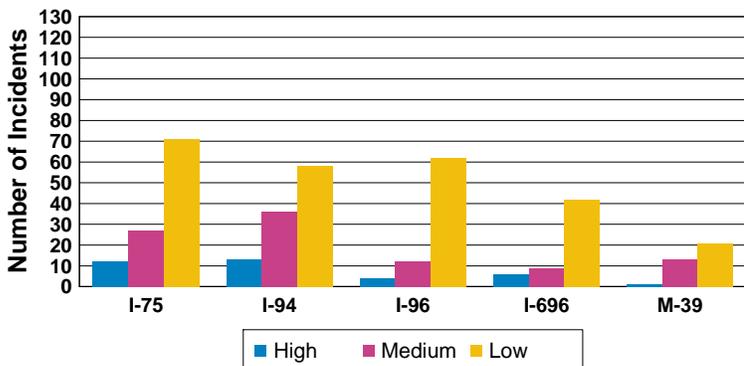


Total Incident Severity/Duration by Month

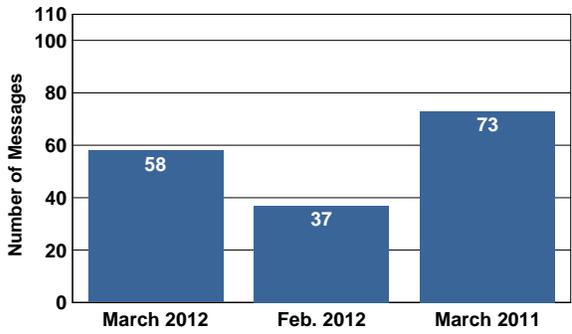


- Single-lane closures equal to 90+ minutes, partial closures (more than one lane, but not all) equal to 45+ minutes, or total closures (all lanes) 20+ minutes
- Shoulder closures equal to 90+ minutes, single-lane closures between 20 and 89 minutes, partial closures (more than one lane but not all) between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

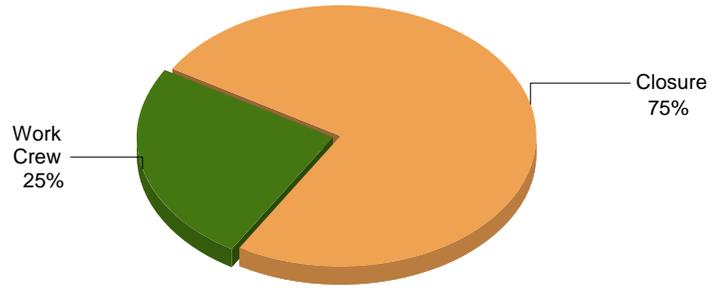
Severity/Duration by Top 5 Freeways



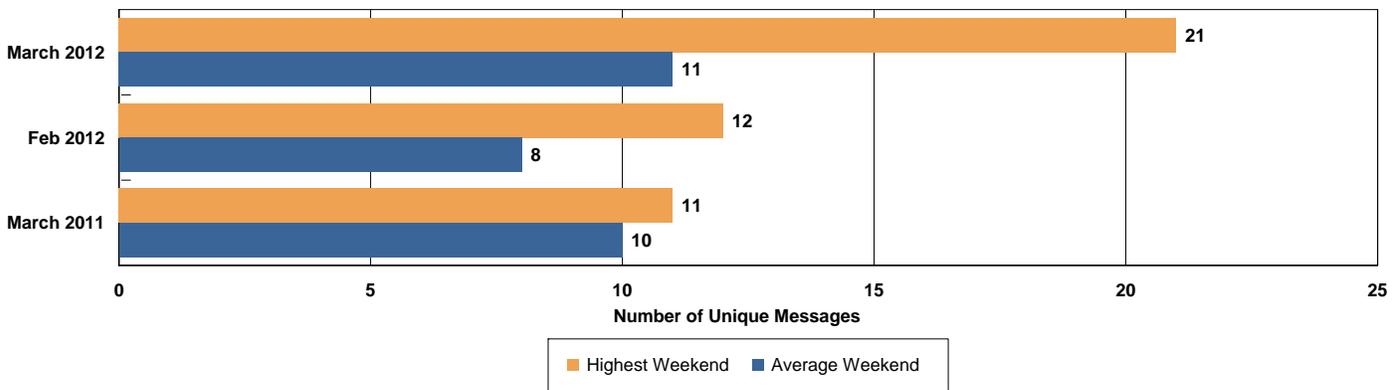
Unique Construction Messages



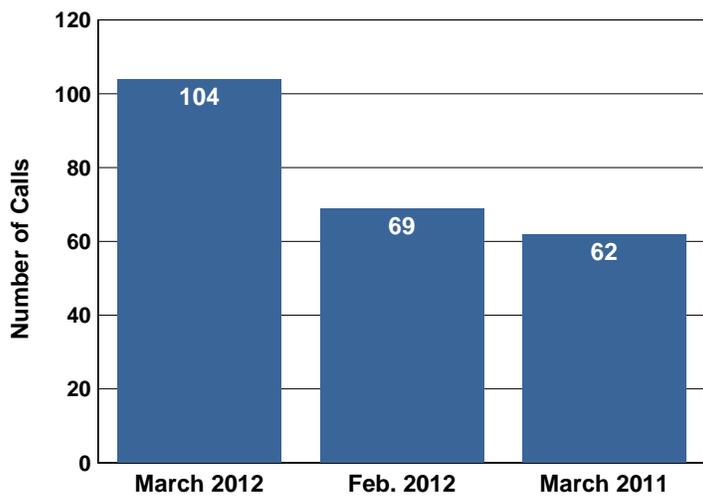
Highest Weekend Unique Construction Messages



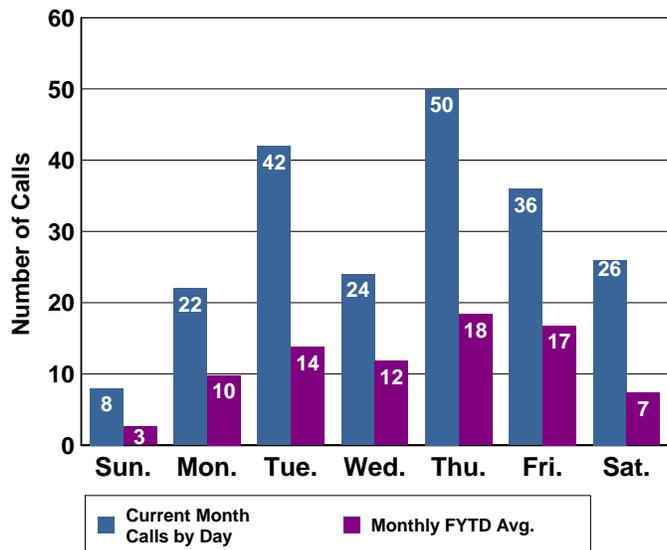
Weekend Construction DMS Message Activity



Total Construction Calls per Month



Construction Calls by Day



Construction Activity



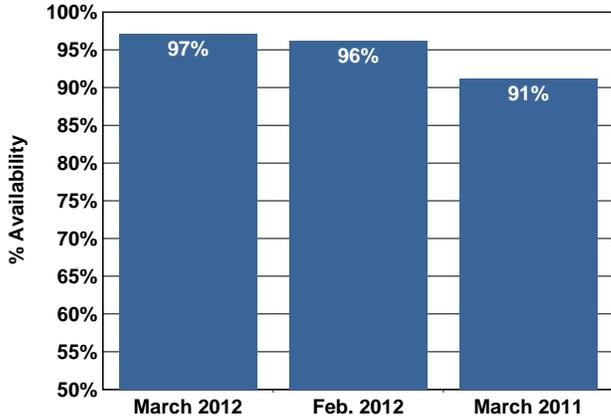
DMS Availability



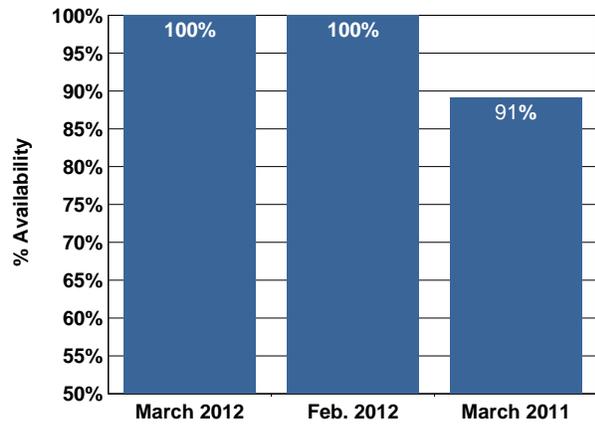
CCTV Camera Availability



	March 2012	Feb. 2012	March 2012
Available	63	60	61
Not Available	2	3	8
Total	65	63	69



	March 2012	Feb 2012	March 2012
Available	238	166	155
Not Available	0	0	15
Total	238	166	170

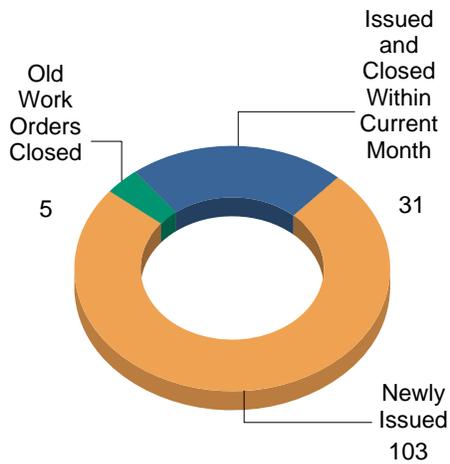


Equipment Upgrades

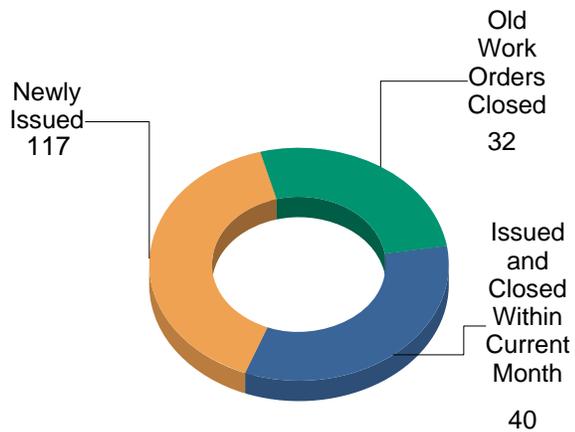


Equipment Type	Maintenance Activity
CCTV	
----	-
TOTAL	0
DMS	
----	-
TOTAL	0
Hub-Node Tower/Other	
----	-
TOTAL	0

Work Order Processing



March 2012



Feb. 2011

