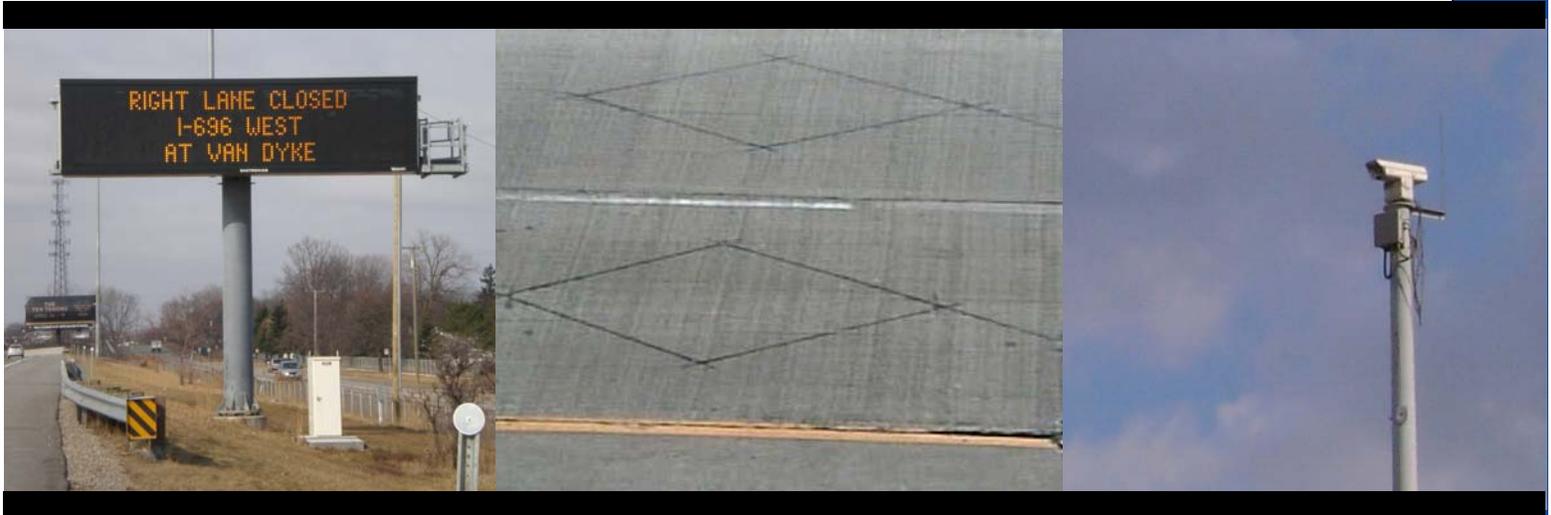


Michigan Intelligent Transportation Systems Center

Serving Motorists on Southeast Michigan Freeways
www.michigan.gov/its

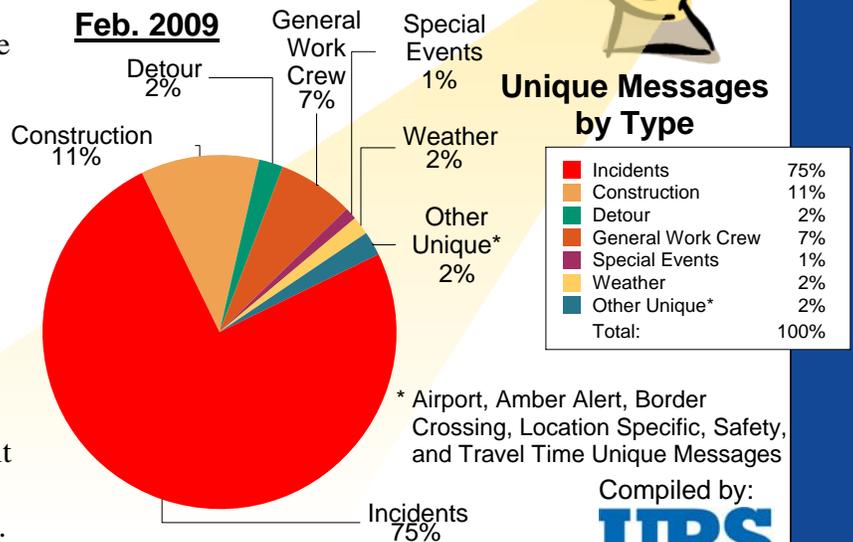
February 2009



Mark Geib P.E., 1050 6th Street, Detroit, MI 48226
GeibM@michigan.gov

In the Spotlight

Each day there are approximately 880,000 people who view messages displayed on Dynamic Message Signs, courtesy of MDOT and the MITS Center. These signs are used to inform motorists of current freeway conditions, such as construction events, incidents, and special event traffic, and are also used to communicate other information like travel times, safety messages, weather issues affecting freeways, and Amber Alerts. A recent study showed that during an Amber Alert, approximately 387,000 motorists on average viewed the Amber Alert messages placed on these signs. These signs benefit all motorists, and here at the MITS Center, it is our duty to provide all motorists with up-to-date travel information to ensure safe driving conditions.



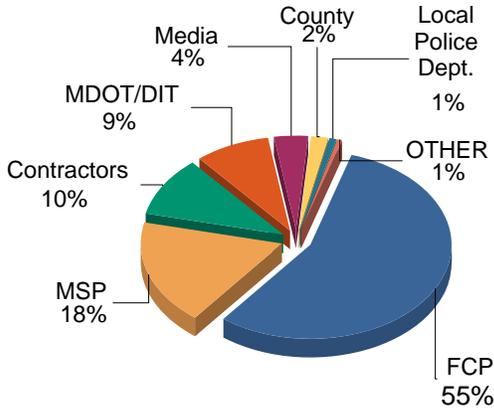
Summary

Data Key

Feb. 2009

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.		3,280
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.		4,118
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.		218,523
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.		461
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).		98% 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: 96% CCTV: 89%

Calls by Type

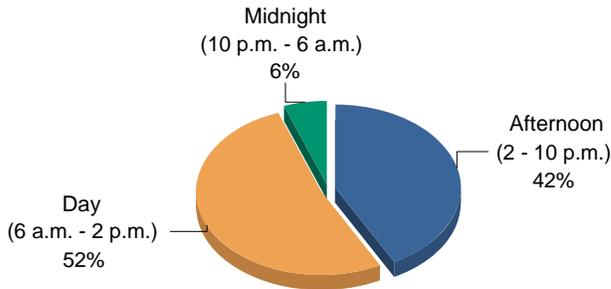


Total Calls: 4,118

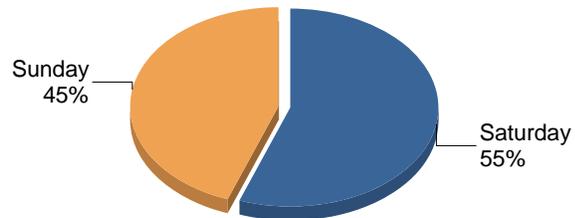
Agency	No. of Calls
FCP	2,299
Contractors	425
City	2
County	77
Federal	0
Fire	2
Local Police Dept.	38
MSP	734
Border	0
MDOT/DIT	354
Media	159
Special Events	4
Transit	0
Parking	1
Airport	0
Animals	1
OTHER	22
Total	4,118

MDOT/DIT	Total
Taylor TSC	120
Oakland TSC	69
MITS Center	35
Detroit TSC	30
DIT	22
Macomb TSC	19
Detroit Maintenance Garage	18
Answering Service	12
Auburn Hills Garage	10
Allen Park Field Office	6
Metro Region Office	6
Southwest Region	3
Port Huron TSC	2
University Region	2
Total	354

Calls by Shift



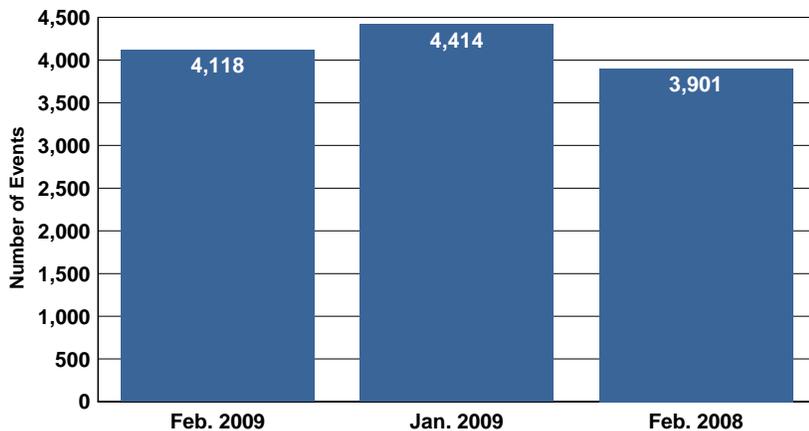
Calls by Weekend Day

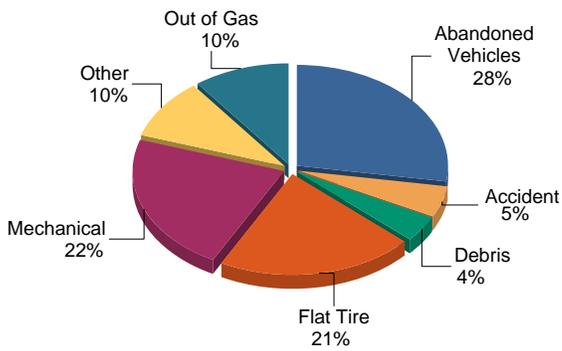


Average Number of Calls per Weekday: 174

Average Number of Calls per Weekend: 163

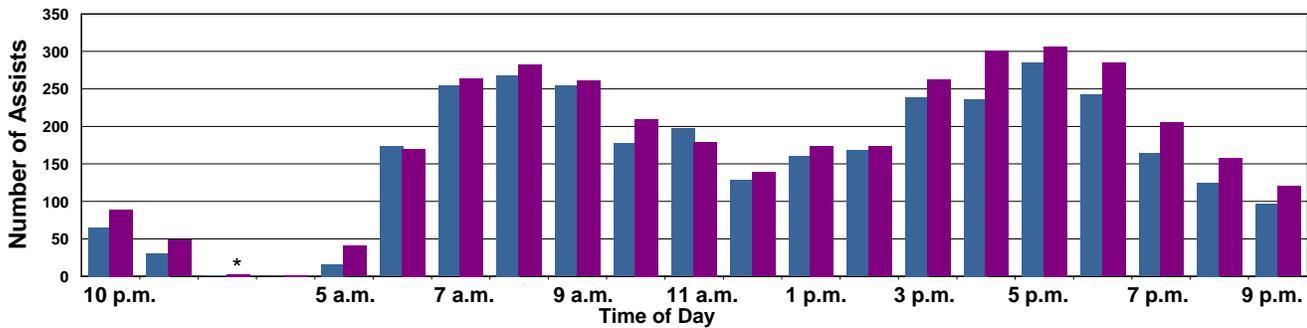
Monthly Event History



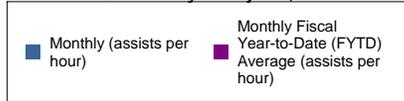


February Total: 3,280
2,347 Assists
933 Abandoned Vehicle Stops

FCP Assists by Time of Day



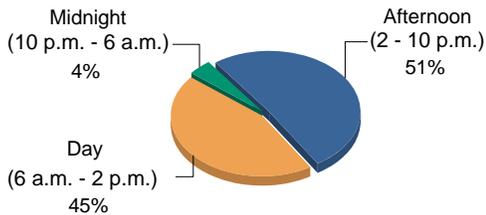
* FCP coverage hours adjusted for Gateway Project, no scheduled coverage from 12 a.m. - 5 a.m.



FCP Dispatches by Weekday Shift



FCP Dispatches by Weekend Day

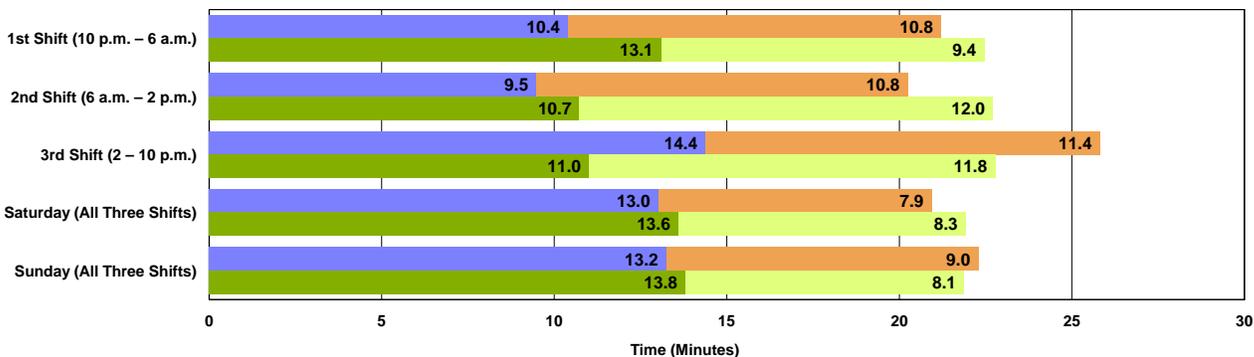


Average Number of Dispatches per Weekday: 24



Average Number of Dispatches per Weekend: 32

FCP Average Service Times





Motorist Quote of the Month:

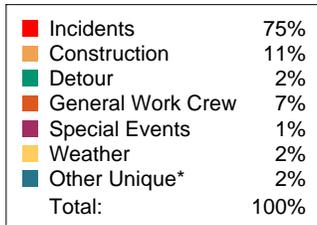
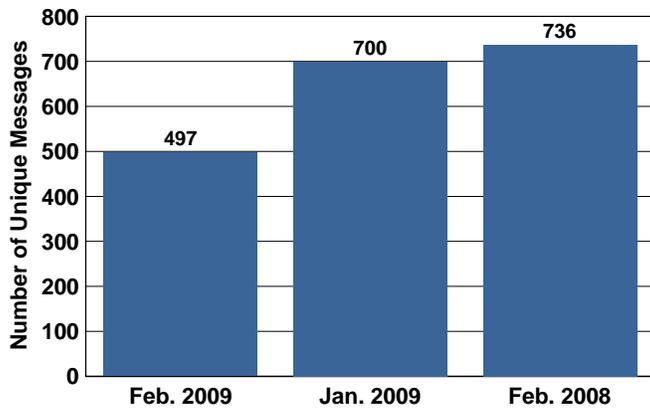
"I would just like to THANK YOU so very much for your assistance yesterday afternoon. I had a blow out on I-75 and Rochester Road on my way to a funeral. A gentleman came to my assistance and changed my tire. I would like to just say what a wonderful service; I never dreamt that I would ever need you. I have seen your vans alongside the road assisting others and thought, 'What a great thing,' so THANK YOU! THANK YOU!!"

Courtesy
Patrol

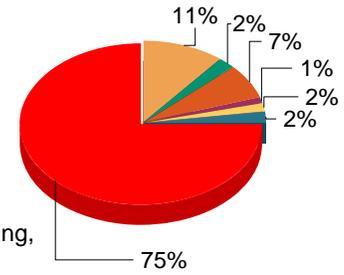


Freeway	Segment	TOTAL ASSISTS (miles)	ASSISTS PER MILE		AVERAGE RESPONSE TIME (min)		AVERAGE CLEAR TIME (min)	
			Feb. 2009	FYTD 2009 Avg.	Feb. 2009	FYTD Avg.	Feb. 2009	FYTD Avg.
I-75	Oakland County Line to I-696	37.0	353	354.4	9.5	9.6	15.8	18.9
	I-696 to I-94	8.0	211	227.2	26.4	28.4	8.2	8.2
	I-94 to I-96	5.6	31	53.8	5.5	9.6	11.4	10.8
	I-96 to I-275	37.0	137	152.2	3.7	4.1	12.0	13.0
	Total	87.6	732	787.6	8.4	9.0	11.6	13.0
I-94	Washtenaw County Line to M-39	20.7	277	328.6	13.4	15.9	10.1	10.4
	M-39 to I-75	9.0	215	257.0	23.9	28.6	9.1	10.0
	I-75 to I-696	10.0	208	260.6	20.8	26.1	11.3	10.8
	I-696 to St. Clair County Line	21.0	123	128.4	5.9	6.1	15.6	12.7
	Total	60.7	823	974.6	13.6	16.1	10.5	10.6
I-96	Livingston County Line to I-275/I-696	11.0	110	123.0	10.0	11.2	12.7	13.9
	I-275/M-14 to M-39	12.0	103	131.0	8.6	10.9	9.1	10.6
	M-39 to I-75	11.0	195	228.4	17.7	20.8	41.9	15.0
	Total	34.0	408	482.4	12.0	14.2	23.8	13.7
I-275	I-96/I-696 to M-14/I-96	8.0	115	96.0	14.4	12.0	9.3	11.1
	M-14/I-96 to I-94	12.0	163	148.6	13.6	12.4	11.6	12.2
	I-94 to I-75	17.5	67	68.2	3.8	3.9	8.0	14.3
	Total	37.5	345	312.8	9.2	8.3	10.3	12.1
I-696	I-96/I-275 to M-10	9.3	121	128.8	13.0	13.8	11.4	11.7
	M-10 to I-75	9.0	139	137.4	15.4	15.3	10.6	9.9
	I-75 to I-94	10.4	164	197.0	15.8	18.9	9.1	9.9
	Total	28.7	424	463.2	14.8	16.1	10.3	10.5
I-375		1.2	3	5.8	2.5	4.8	11.0	8.2
M-10 (Lodge)		17.9	215	289.4	12.0	16.2	9.1	9.4
M-14		6.4	51	51.6	8.0	8.1	10.2	11.8
M-39 (Southfield)		14.2	187	195.2	13.2	13.7	10.7	12.0
M-5 (Grand River)		10.3	33	42.6	3.2	4.1	10.3	11.9
M-8 (Davison)		2.2	59	63.2	26.8	28.7	8.8	9.8
Total		300.7	3,280	3,668.4				

Unique DMS Messages by Type

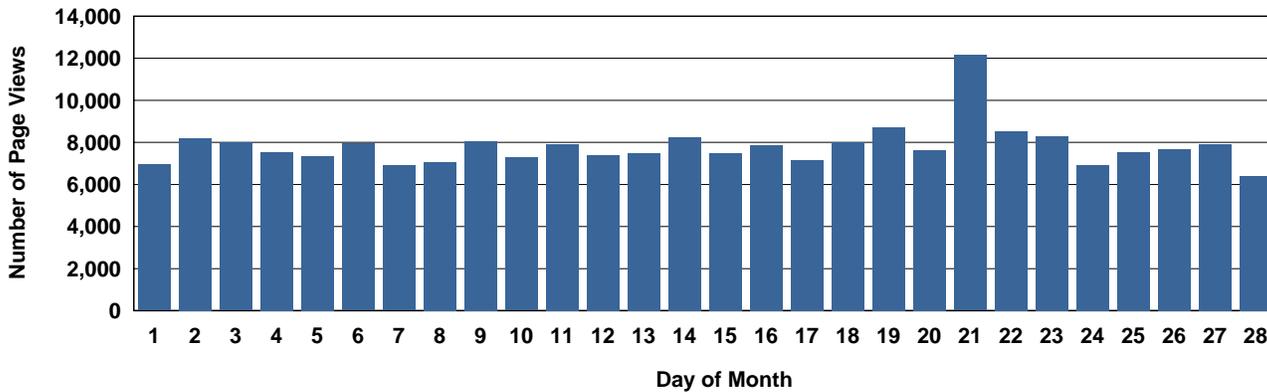


Feb. 2009



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

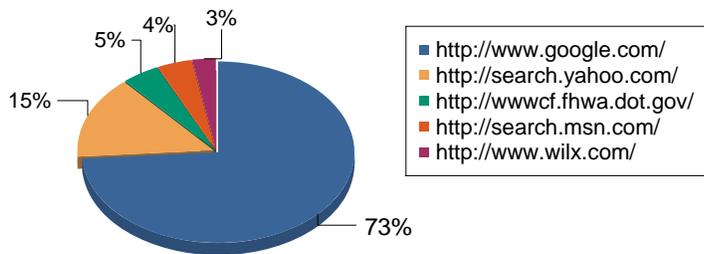
Mi Drive Web Site Daily Page Views



Top 5 Recurring Site Requests to Mi Drive Web Site



In **February**, the Mi Drive Web site experienced the most activity on **Saturdays**.



Does not include Michigan.gov requests.

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

Incident Communication Accuracy



Weekend DMS Snapshot Review	Feb. 2009	Jan. 2009	Feb. 2008
All Incident Messages	100%	100%	100%
High-Impact DMS Messages	Feb. 2009	Jan. 2009	Feb. 2008
All High-Impact Messages	98%	100%	96%
Freeway Closure Messages	93%	100%	100%
Lane Closure Messages	100%	100%	95%
Ramp Closure Messages	100%	100%	91%
Other Communication	Feb. 2009	Jan. 2009	Feb. 2008
Advisory Text Messages	93%	94%	99%
Web Site Incident Postings	93%	94%	100%

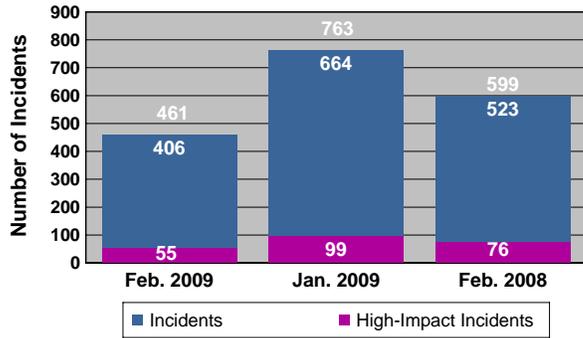
Most Utilized DMS



1. I-94 EB at Second
2. I-375 NB at Gratiot
3. M-10 NB at M. L. King
4. M-39 NB at Fitzpatrick
5. M-39 SB at 7 Mile



Total Number of Incidents



High-Impact Incident Activity



	Feb. 2009	Jan. 2009	Feb. 2008
Freeway Closures All Lanes Closed	16	39	28
Lane Closures Only One Lane Open	34	46	37
Ramp Closures	5	14	11
Freeway-to-Freeway			
Total	55	99	76

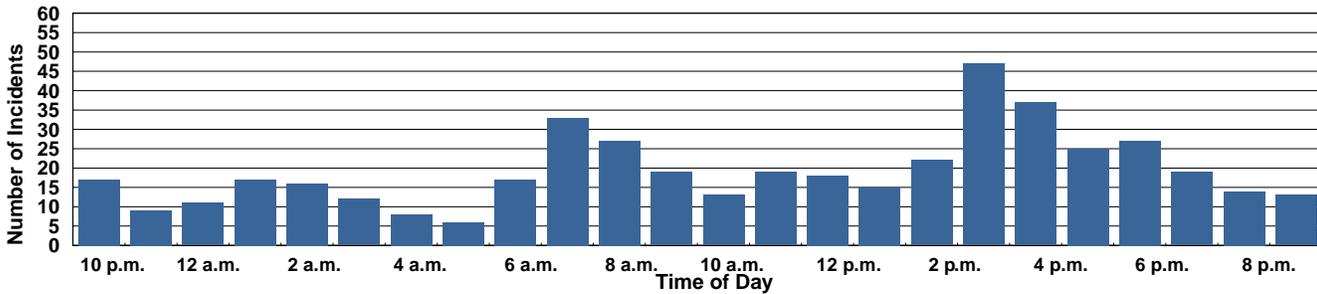
High-impact incidents account for 7% of the total incidents in February.

Total Incidents by Roadway

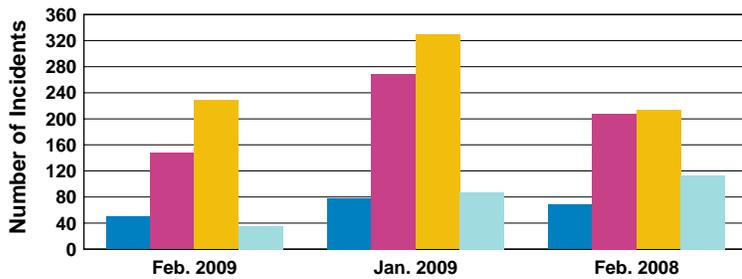


Freeway	Feb. 2009	Jan. 2009	Feb. 2008
I-75 (CHRYSLER/FISHER)	87	177	156
I-94 (FORD)	119	163	131
I-696 (REUTHER)	59	144	97
I-96 (JEFFRIES)	64	70	78
M-10 (LODGE)	32	49	48
M-39 (SOUTHFIELD)	62	86	51
I-275	38	74	37
I-375	0	0	1
Total	461	763	599

Total Incidents per Hour

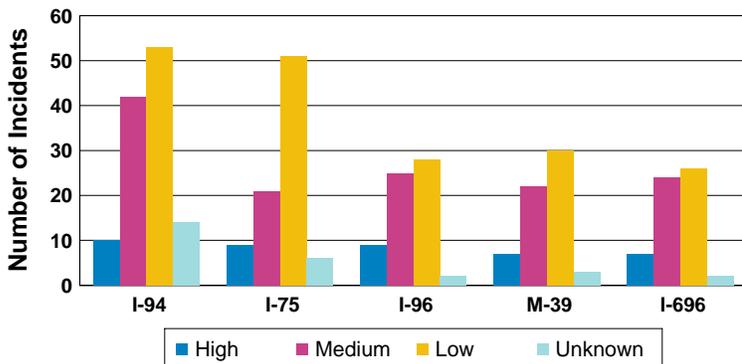


Total Incident Severity/Duration by Month

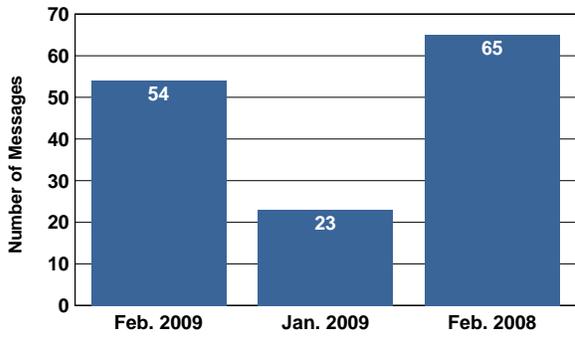


- Single-lane closures equal to 90+ minutes, partial closures (more than one lane, but not all) equal to 45+ minutes, or total closures (all lanes) 20+ minutes
- Shoulder closures equal to 90+ minutes, single-lane closures between 20 and 89 minutes, partial closures (more than one lane but not all) between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

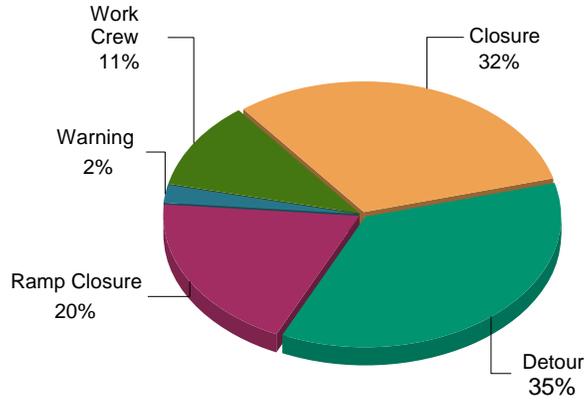
Severity/Duration by Top 5 Freeways



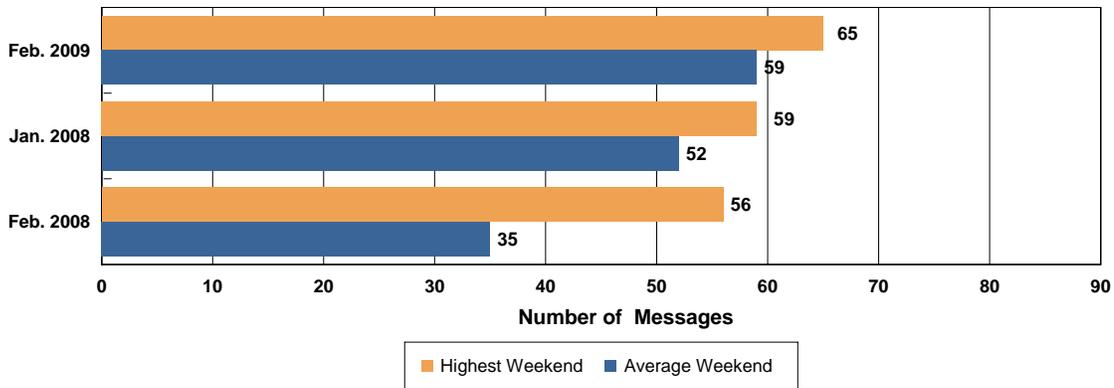
Unique Construction Messages



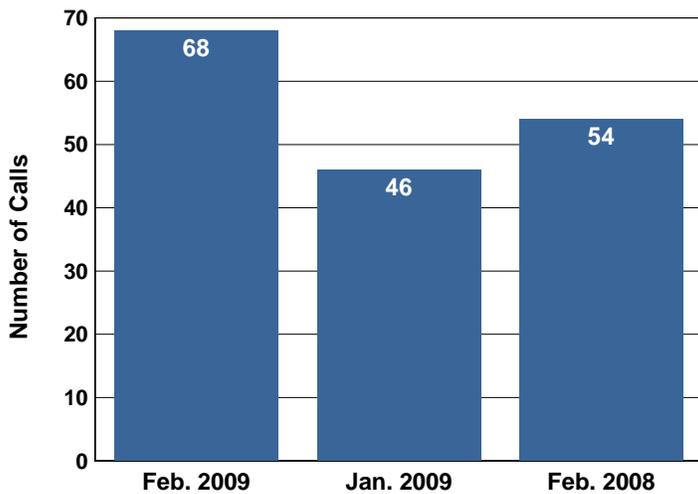
Highest Weekend Unique Construction Messages



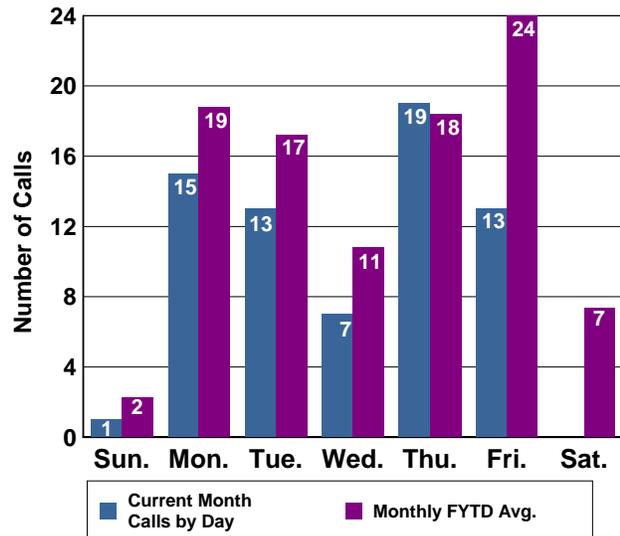
Weekend Construction DMS Message Activity



Total Construction Calls per Month



Construction Calls by Day



Construction Activity



DMS Availability

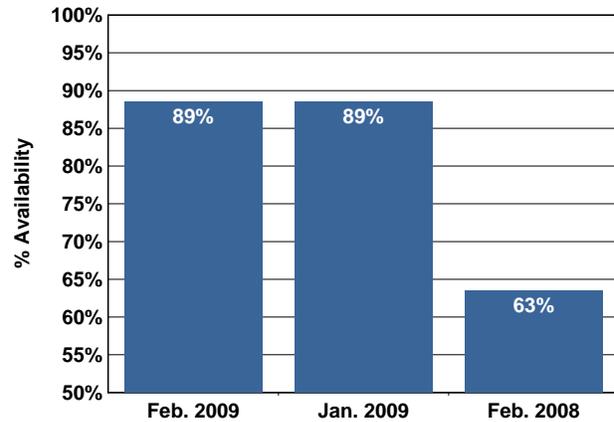
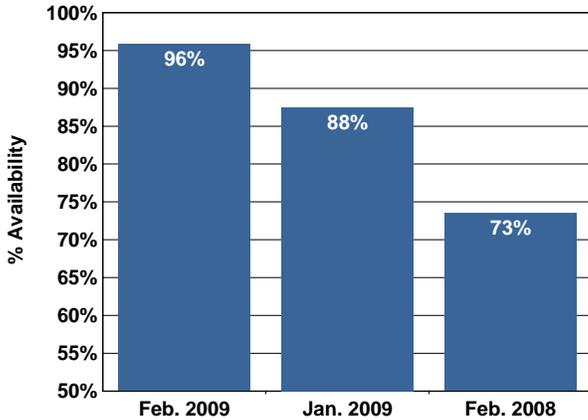


	Feb. 2009	Jan. 2009	Feb. 2008
Available	69	63	46
Not Available	3	9	17
Total	72	72	63

CCTV Camera Availability



	Feb. 2009	Jan. 2009	Feb. 2008
Available	147	147	105
Not Available	19	19	61
Total	166	166	166



Equipment Upgrades



Equipment Type	Maintenance Activity
CCTV	
I-696 @ Evergreen	Upgraded dual cameras to a single camera
I-696 @ Inkster	Reset for communications restoration
TOTAL	2
DMS	
Eastbound I-94 @ Central	Repaired sign panel
Northbound I-75 @ Wattles	Reset for communications restoration
Westbound I-696 @ Evergreen	Reset for communications restoration
Eastbound I-696 @ Farmington	Reset for communications restoration
Eastbound I-96 @ Beck	Reset for communications restoration
Southbound I-75 @ 13 Mille	Reset for communications restoration
Southbound I-75 @ University	Reset for communications restoration
TOTAL	7

