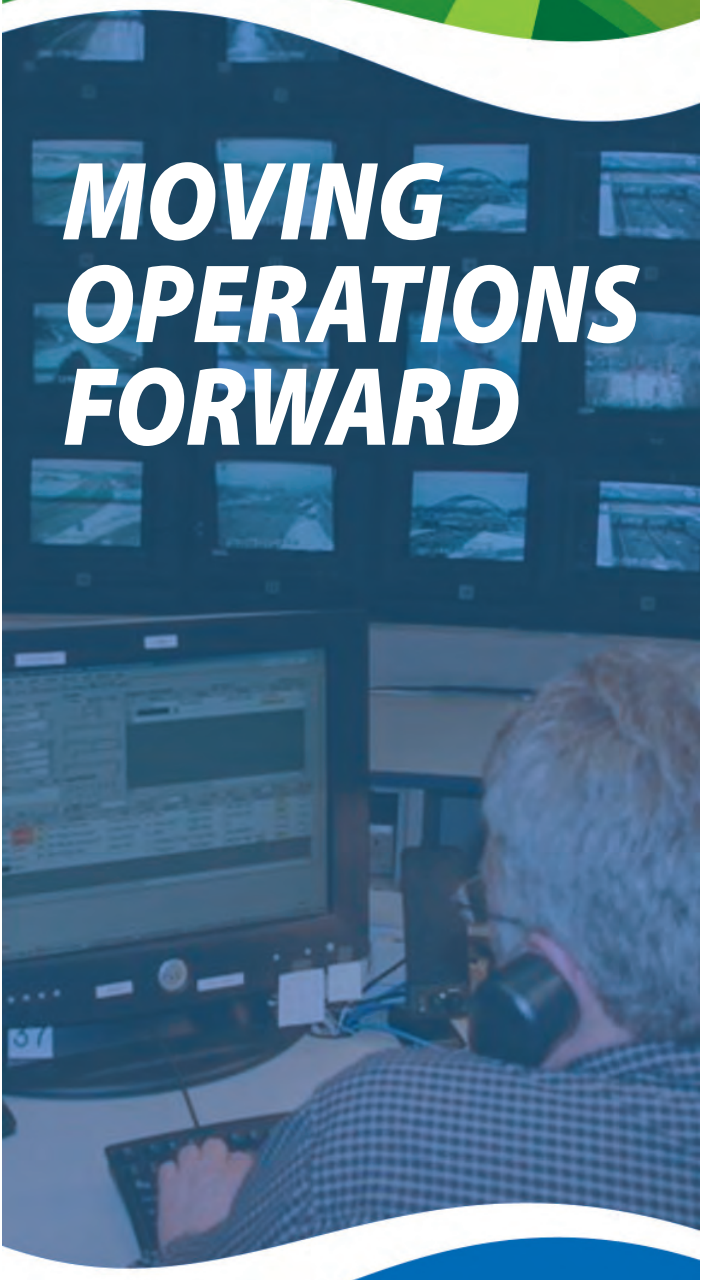
MICHIGAN INTELLIGENT
TRANSPORTATION SYSTEMS CENTER

MOVING OPERATIONS FORWARD



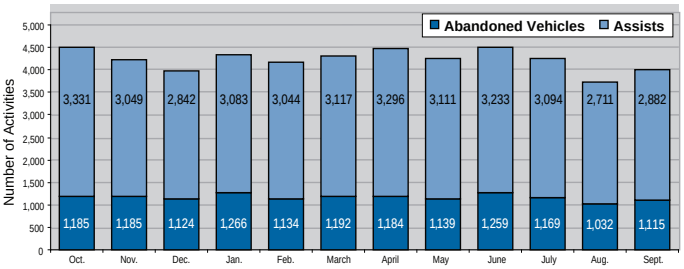
2008 ANNUAL REPORT

(October 2007 - September 2008)

FREEWAY COURTESY PATROL (FCP)

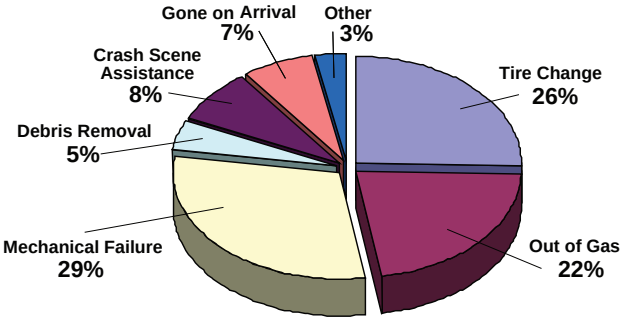
FCP Activities

In Fiscal Year (FY) 2008, the FCP performed 50,777 stops, including 36,793 assists (occupied vehicles, debris, accidents, etc.) and 13,984 abandoned vehicle stops. June 2008 experienced the most overall activity.



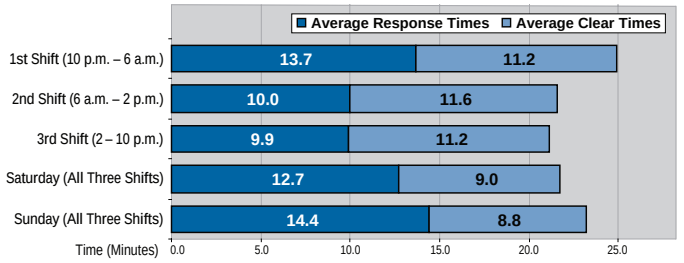
FCP Assists by Type

The chart below identifies the different capacities in which the FCP is able to help maintain mobility on the freeway system by assisting stranded motorists and removing debris from the roadway. Seven percent of the time, the motorist was gone upon FCP's arrival to the scene.



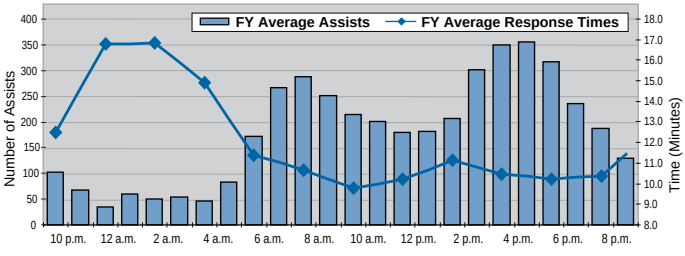
FCP Average Service Times

Response time is calculated from the time the control room operator dispatches the FCP driver to the time the driver arrives on scene. Clear time is the duration from the time that the driver arrives on the scene until the driver completes the assist.

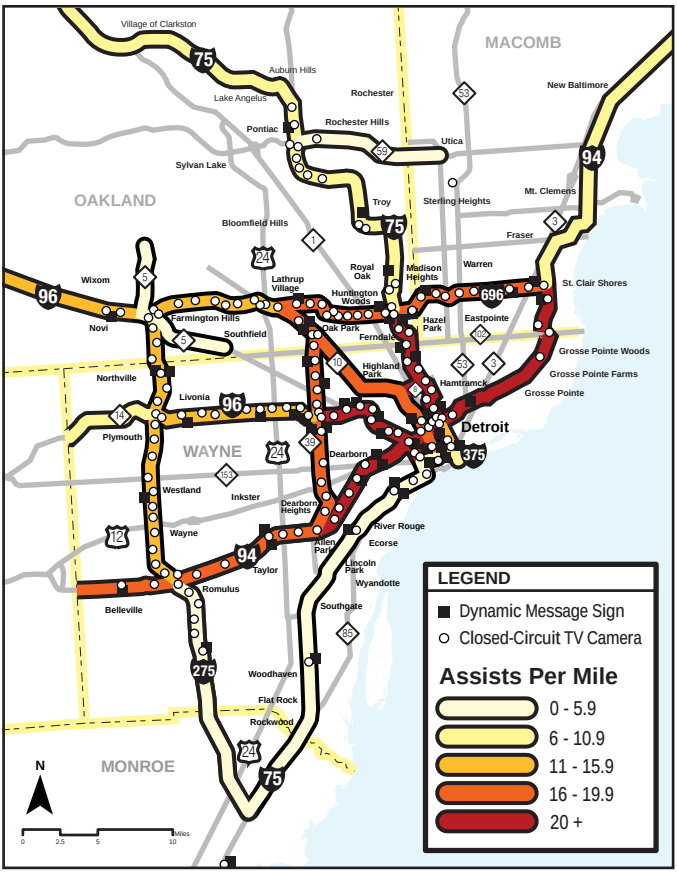


FCP Annual Assists by Time of Day

The bars in the graph below represent the number of average assists per hour, and the line represents the average response time in minutes. During the afternoon rush, the FCP helps the most amount of people with short response times.



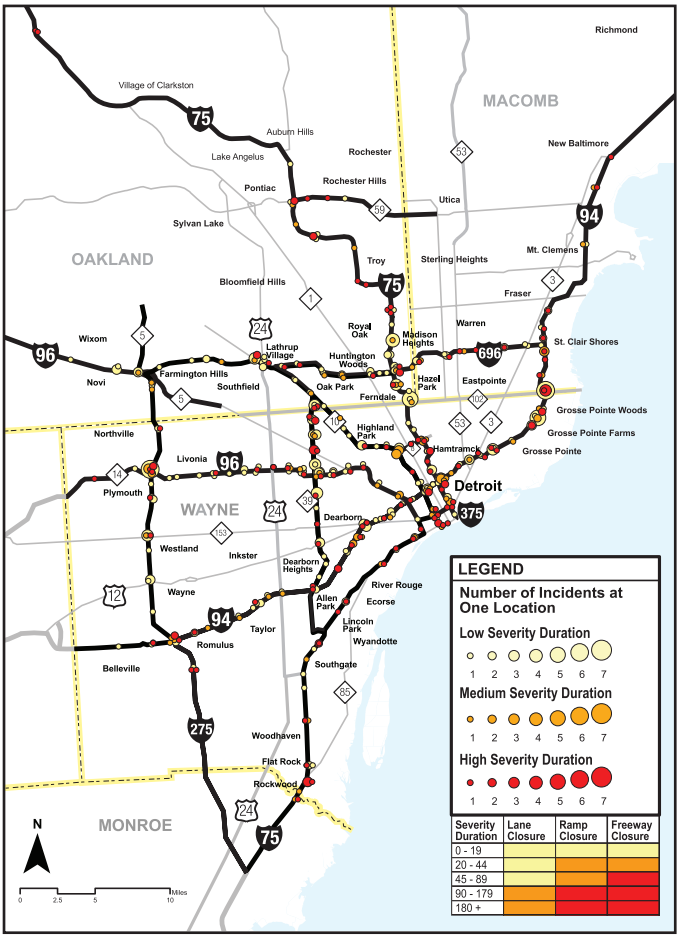
FCP ASSISTS PER MILE



Construction projects which require extended freeway closures such as “Dodge the Lodge” and “Gateway” have significant impacts on FCP assists per mile. The assists per mile along M-10 *increased* from 10.4 in FY 2007 to 19.5 in FY 2008 due to “Dodge the Lodge.” The assists per mile along I-75 from I-94 to I-96 *decreased* from 19.4 in FY 2007 to 13.7 in FY 2008 due to “Gateway.”

FREEWAY SEGMENT	COVERAGE (miles)	TOTAL ASSISTS	ASSISTS PER MILE	TOTAL ASSISTS	ASSISTS PER MILE
		‘08 Fiscal YTD Averages		‘07 Fiscal YTD Averages	
I-75	87.6	926	10.6	1,197	13.7
Oakland County Line to I-696	37.0	392	10.6	431	11.7
I-696 to I-94	8.0	252	31.5	318	39.8
I-94 to I-96	5.6	77	13.7	108	19.4
I-96 to I-275	37.0	205	5.5	340	9.2
I-94	60.7	1,077	17.7	1,039	17.1
Washtenaw County Line to M-39	20.7	371	17.9	322	15.6
M-39 to I-75	9.0	302	33.5	290	32.2
I-75 to I-696	10.0	269	26.9	291	29.1
I-696 to St. Clair County Line	21.0	135	6.4	136	6.5
I-96	34.0	589	17.3	687	20.2
Livingston County Line to I-275/I-696	11.0	131	11.9	147	13.3
I-275/M-14 to M-39	12.0	178	14.8	213	17.8
M-39 to I-75	11.0	280	25.4	327	29.7
I-275	37.5	377	10.0	381	10.2
I-96/I-696 to M-14/I-96	8.0	115	14.3	134	16.8
M-14/I-96 to I-94	12.0	173	14.4	175	14.6
I-94 to I-75	17.5	89	5.1	72	4.1
I-375	1.2	10	8.3	9	7.3
I-696 (Reuther)	28.7	499	17.4	520	18.1
I-96/I-275 to M-10	9.3	141	15.1	134	14.4
M-10 to I-75	9.0	160	17.8	186	20.6
I-75 to I-94	10.4	198	19.1	200	19.2
M-5 (Grand River)	10.3	45	4.4	48	4.6
M-8 (Davison)	2.2	75	34.3	50	22.7
M-10 (Lodge)	17.9	349	19.5	187	10.4
M-14	6.4	51	7.9	44	6.9
M-39 (South?eld)	14.2	234	16.5	226	15.9
M-59 (Veterans)	11.6	3	0.2	4	0.3
Total	312.3	4,235		4,392	

HIGH-IMPACT INCIDENTS



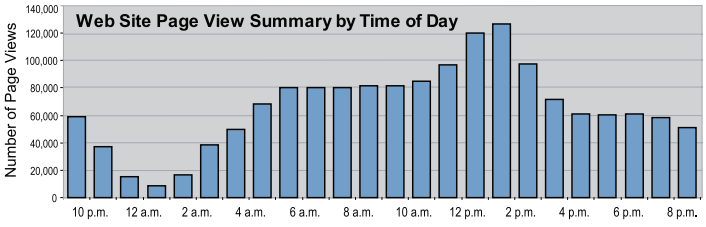
The map above identifies the location of all high-impact incidents; freeway closures (all lanes blocked), lane closures (only one lane open), and ramp closures (freeway-to-freeway ramp blocked). Since these major incidents adversely affect traffic flow, MITSC sends a notification e-mail to stakeholders, in addition to broadcasting the information on Dynamic Message Signs (DMS) and the Mi Drive Web site. Information is checked using a comprehensive Quality Assurance/Quality Control (QA/QC) procedure. The table below illustrates the accuracy of the information.

FY 2008 MONTHLY QA/QC CLOSURE SUMMARY

MONTHLY ACCURACY PERCENTAGE

MONTH	CLOSURE TOTALS	E-MAIL CORRECT	WORDING CORRECT	SIGNS CORRECT	TIMING CORRECT	WEB SITE CORRECT
OCTOBER	57	93%	98%	98%	100%	100%
NOVEMBER	47	94%	96%	98%	100%	98%
DECEMBER	51	96%	96%	100%	100%	98%
JANUARY	32	97%	94%	100%	100%	100%
FEBRUARY	76	99%	96%	100%	100%	100%
MARCH	57	100%	96%	96%	100%	91%
APRIL	40	95%	98%	98%	98%	95%
MAY	39	95%	92%	95%	100%	97%
JUNE	41	98%	100%	98%	100%	95%
JULY	50	96%	98%	100%	100%	100%
AUGUST	29	100%	100%	97%	100%	100%
SEPTEMBER	52	94%	96%	98%	100%	100%

Mi Drive www.michigan.gov/drive



MDOT's Mi Drive Web site updates the public about statewide lane closures and ongoing and future construction projects. Mi Drive also displays Metro Detroit current traffic incidents, real-time traffic flow, average speeds and camera images, and Grand Rapids camera images.

There were 1,585,863 total Web site page views. The number of page views peaked just before the evening commute.

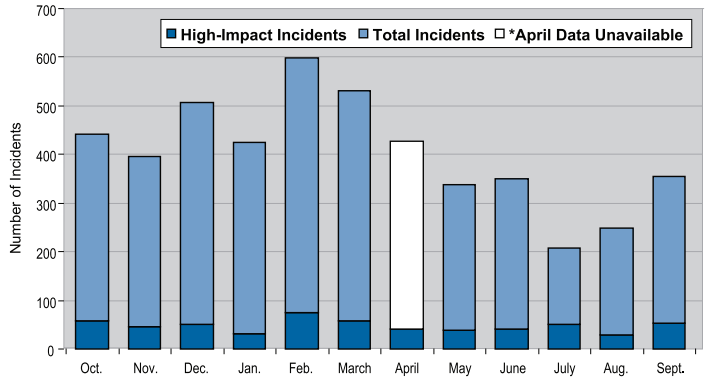
To access the Mi Drive Web site:

1. Go to www.michigan.gov/drive
2. Click on "Construction & Traffic"
3. Click on "Detroit Traffic Map"
4. Click on "Interactive Map," "Traffic Cameras," or "Average Speeds"

INCIDENTS

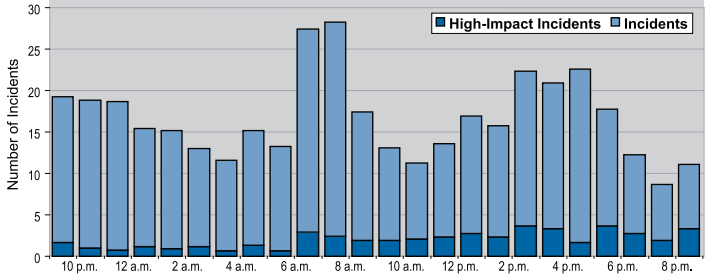
Total Incidents

The total number of incidents per month is shown in the graph below. High-impact incidents account for 13% of the total incidents. The information regarding these incidents (location, number of vehicles involved, lanes blocked) is sent to the Mi Drive Web site. The winter months produce more incidents due to harsh weather conditions and reduced daylight hours.



FY Average Number of Incidents per Hour

The average number of incidents per hour is presented in the graph below. The greatest number of total incidents occurs during the 8 a.m. morning rush hour. The largest percentage of high-impact incidents occurs during the twilight hours of 6 to 9 p.m. indicating that, while the number of total incidents is higher during the morning, the percent of high-impact incidents per hour peaks during the evening.



SPECIAL EVENTS

MITSC technology helped manage over 200 special events. MITSC operations are affected by these events due to high public attendance and the resulting increase in traffic. MITSC works collaboratively with the Michigan State Police and other local agencies to ensure safe and successful events. Because of the functional capabilities at MITSC, main tasks include the dissemination of traveler information through DMS messages, monitoring freeway performance through closed-circuit television cameras and detector information, and communicating with FCP for enhanced incident management. These events include:

Annual Events

- Thanksgiving Day Parade
- Freedom Festival Fireworks
- Woodward Dream Cruise
- Michigan State Fair
- Belle Isle Grand Prix
- North American International Auto Show

New Events for 2008

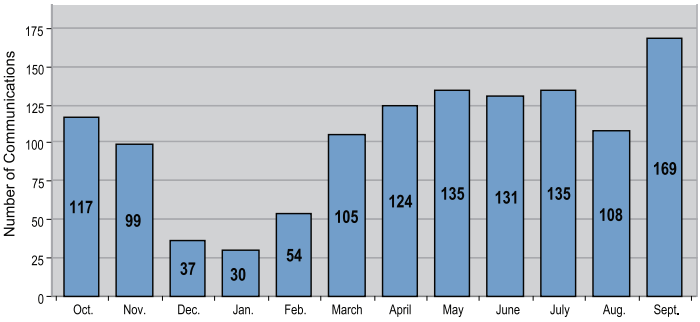
- Red Wings Stanley Cup Parade
- APBA Gold Cup Boat Races
- PGA Championship
- NCAA Regional Finals
- World Wrestling Entertainment

There were 7,488 unique messages displayed on DMS with 173 unique messages relating to special events. Although only 2% of the unique messages involve special events, the valuable information (shuttle, parking, route, ingress, egress, etc.) provided to motorists attending these special events at area venues receives high visibility.

CONSTRUCTION COORDINATION

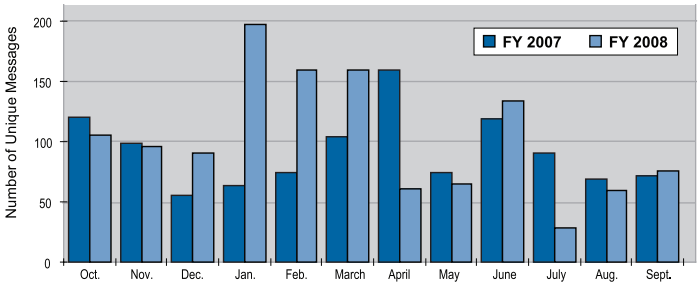
Construction Events/Communication

The typical construction season lasts from April to November each year, during which communication between the control room and field staff increases. The month with the greatest communications increase from FY 2007 was September, with a 38% change. This reinforces the idea that communication is just as important near the end of a project as it is at the beginning.



Construction Unique Messages

There was an increase in construction-related messages in January, February, and March in preparation for the Gateway project. During these three months, advanced warning messages were displayed in addition to alternate route messages, which remained on many signs for the duration of the year.



GATEWAY CONSTRUCTION

The I-75 Ambassador Bridge Gateway project, which involves a total closure of I-75 from Clark Street to I-96 for 22 months, is the largest project in MDOT history. Improvements include reconstruction along I-75 and I-96, a new interchange for accessing the Ambassador Bridge, a new bridge plaza to improve safety and traffic flow, and a state-of-the-art pedestrian bridge across the freeways connecting east and west Mexicantown.

During construction, MDOT and MITSC have worked to mitigate the traffic impacts of the project. Mitigation measures involving MITSC include:

- Posted detour routes
- Installation of 30 portable cameras, 34 dynamic message panels with 191 detectors, and 26 portable changeable message signs, 12 of which are controlled at MITSC
- Use of fixed DMS to broadcast traffic conditions
- Accident investigation sites along I-94
- FCP shift adjustment to provide more coverage during traffic peaks

The total closure of I-75 began in February 2008. I-75 is expected to reopen in December 2009.

MDOT
Michigan Department of Transportation

Michigan Intelligent Transportation Systems Center (MITSC)
Michigan Department of Transportation (MDOT)
1050 6th Street, Detroit, MI 48226
www.michigan.gov/its

Year In Review

October 2007
MITSC monitors a high-impact incident that closed northbound I-275 at Ford Road for over five hours.

November 2007
In anticipation of winter weather, MITSC leads discussions on improving regional winter operations.

December 2007
Management complete Standard Operator Procedures (SOP) manual and develop online quiz for operator initial certification and recertification every six months.

January 2008
MITSC facilitates an after-action review of the tanker accident/ fire on the Rouge River Bridge.

February 2008
FCP hours of operation adjust to support Gateway traffic.

March 2008
MITSC updates sign location map, FCP route map, and Gateway construction DMS map to GIS format.

April 2008
MITSC hosts the NCAA Regional Finals after-action review meeting to plan for the NCAA Championship Game coming to Ford Field in 2009.

May 2008
MITSC conducts two incident responder safety workshops.

June 2008
Control room operators disseminate information on dynamic message signs for Freedom Festival Fireworks and Red Wings Stanley Cup Parade.

July 2008
MITSC modifies its Call Tracking software and shares the enhanced software with two other MDOT offices.

August 2008
The control room supports a video shoot for Jackie Paige, Channel 2 News, to launch camera sharing over PDA devices and cell phones.

September 2008
MITSC staff complete Crystal Reports training in preparation for the new monthly performance measures format, which will debut in FY 2009.

URS
Detroit - Southfield - Grand Rapids - Traverse City

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