MACOMB COUNTY DEPARTMENT OF ROADS

TRAFFIC OPERATIONS CENTER

"To provide and maintain a reliable real-time traffic operations system, in coordination with county stakeholders, that enables a safe, efficient, and informative travel experience." - MCDR TOC Mission Statement

PERFORMANCE MEASURES



May 2022

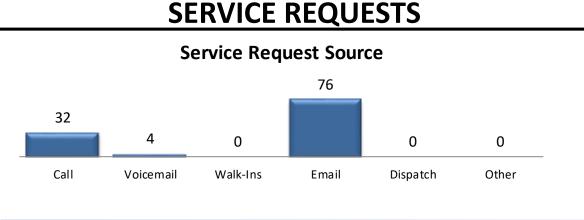




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MONTHLY TOC HIGHLIGHT

In May, the Macomb County Department of Roads (MCDR) Traffic Operations Center (TOC) supported the planned full closure of the I-94 freeway between M-59 and Metro Parkway. The closure was to help DTE upgrade the high-voltage transmission lines across I-94 on May 8th for 8 hours, starting at 6 AM. The TOC engineers anticipated the travel paths the freeway traffic may consider, coordinated with Southeast Michigan TOC (SEMTOC) about the messages on MDOT's Dynamic Message Signs, posted closure information to crowd-sourced platforms (such as Waze), and prepared special timings for 79 signals on short notice. Throughout the duration of the closure, TOC engineers monitored and managed the flow of traffic by making as-needed, real-time signal timing modifications.



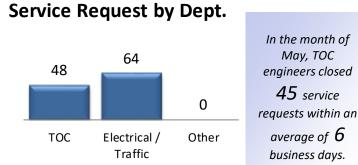
In the month of May, 112 incoming requests regarding traffic signals were received.

May, TOC

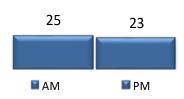
45 service

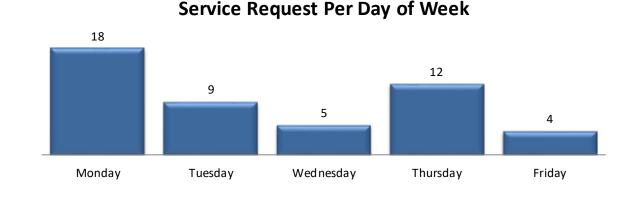
average of 6

business days.



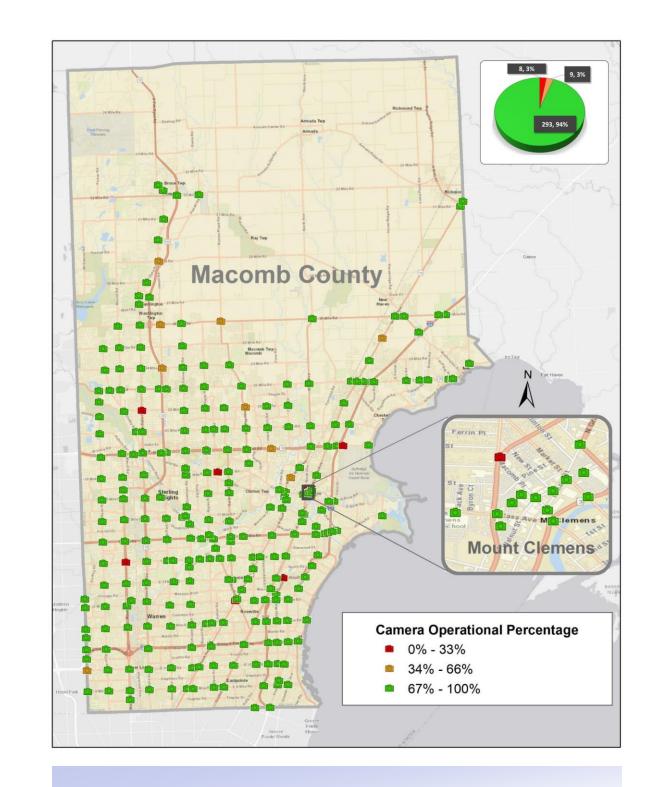
TOC by Time of Day







CCTV TRAFFIC CAMERA SUMMARY

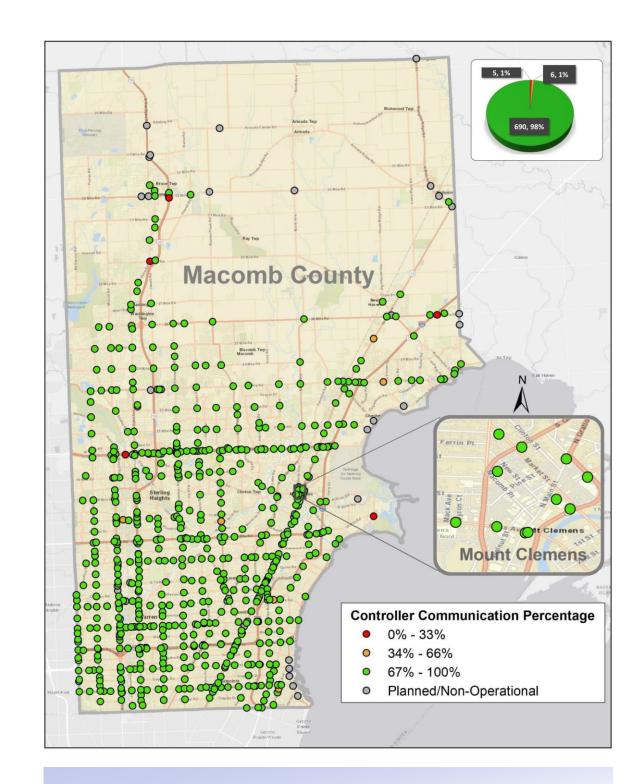


CAMERA COVERAGE May 2022



The map above represents the CCTV camera operational percentages for the month of May 2022.

REGIONAL COMMUNICATIONS SUMMARY





ITS MAINTENANCE May 2022

The map above represents the communication availability percentages of Traffic Signal Controllers for the month of May 2022.

HIGH IMPACT CORRIDOR COMMUNICATIONS AVAILABILITY

Corridor	Current Month	Previous Month	Change
9 Mile	99%	99%	0%
14 Mile	99%	97%	2%
15 Mile	99%	99%	0%
Metro Parkway	99%	99%	0%
Hall Rd(M-59)	97%	99%	-2%
Dequindre	99%	86%	13%
Ryan	99%	97%	2%
Mound	99%	99%	0%
Hoover	99%	96%	3%
Schoenherr	99%	98%	1%
Hayes	98%	99%	-1%
Gratiot(M-3)	99%	97%	2%
Harper	99%	99%	0%

The table above represents a one-time monthly snapshot of communications along major corridors in Macomb County.

FIELD WORK

77 sites visited by the IT/ITS Maintenance Technicians. 15 sites visited by the combined efforts of the IT/ITS Maintenance and MCDR Electrical crews.

SIGNAL TIMING CHANGES

Traffic signal changes performed by TOC engineers

Time of Signal change	Loc #	Intersection	Reason for signal change
05/04/2022 16:06	Gratiot (M-3)/21 Mile Road	185	Congestion
05/04/2022 16:07	Dequindre/Universal Mall	380	Incident
05/04/2022 16:07	I-94 EB Off Ramp/Little Mack	714	Traffic Study
05/04/2022 16:07	I-94 WB Off Ramp/Little Mack	713	Traffic Study
05/04/2022 16:07	Little Mack/Masonic	254	Traffic Study
05/04/2022 16:07	North Avenue/21 Mile Road	482	Incident
05/04/2022 16:07	Lorraine/10 Mile Road	390	Service Request
05/04/2022 16:07	14 Mile Road/Ryan	144	Service Request
05/04/2022 16:08	Hall Road WB (M-59)/Crossover East of Romeo Plank	763	Congestion
05/05/2022 10:43	Metropolitan Parkway WB/Crossover 550' E of Gratiot	648	Incident



May 2022

MAINTENANCE

SIGNAL TIMING CHANGES

CONTINUED

05/05/2022 15:52		Intersection	Reason for signal change
55, 55, 2022 15.52	Hall Road (M-59)/Romeo Plank	211	Congestion
05/05/2022 16:18	Hall Road EB (M-59)/Crossover West of Romeo Plank	762	Congestion
05/09/2022 11:05	Hall Road WB (M-59)/Marketplace Boulevard	890	Special Event
05/09/2022 11:05	Hall Road WB (M-59)/Crossover East of Gratiot	811	Special Event
05/09/2022 11:05	Gratiot (M-3)/Hall Road (M-59)	162	Special Event
05/09/2022 11:05	Hall Road EB (M-59)/Crossover West of Gratiot	810	Special Event
05/09/2022 11:05	Gratiot (M-3)/Pankow Boulevard	818	Special Event
05/09/2022 11:05	Clair/Gratiot SB (M-3)	354	Special Event
05/09/2022 11:05	Gratiot SB (M-3)/Market	497	Special Event
05/09/2022 11:05	Gratiot SB (M-3)/North Avenue/Macomb St.	498	Special Event
05/09/2022 11:05	Cass/Gratiot SB (M-3)	499	Special Event
05/09/2022 11:05	Church/Gratiot SB (M-3)	502	Special Event
05/09/2022 11:05	Gratiot SB (M-3)/Robertson	501	Special Event
05/09/2022 11:05	Gratiot SB (M-3)/Wellington Crescent	168	Special Event
05/09/2022 11:05	Gratiot SB (M-3)/Harrington	163	Special Event
	Gratiot SB (M-3)/Remick	86	Special Event
	Gratiot SB (M-3)/Wendell	459	Special Event
	Gratiot (M-3)/Metropolitan Parkway		Special Event
	Metropolitan Parkway EB/Crossover 475' W of Gratiot	647	Special Event
	Gratiot SB (M-3)/Holly Street Crossover		Special Event
	Gratiot SB (M-3)/Crossover 530' N of 15 Mile Road		Special Event
	15 Mile Road/Gratiot		Special Event
	Gratiot SB (M-3)/Crossover North of Quinn		Special Event
	Gratiot SB (M-3)/Crossover 600' N of 14 Mile Road		Special Event
	14 Mile Road/Gratiot		Special Event
	Gratiot SB (M-3)/Crossover North of Voiland		Special Event
	Gratiot SB (M-3)/Macomb Mall	161	Special Event
	Gratiot (M-3)/Masonic		Special Event
	Gratiot NB (M-3)/I-94 EB Ramp		Special Event
	Gratiot SB (M-3)/Crossover 375' N of 13 Mile Road		Special Event
	Gratiot (M-3)/13 Mile Road		Special Event
	Gratiot NB (M-3)/Crossover 475' S of 13 Mile Road		Special Event
	Gratiot NB (M-3)/Crossover South of Masonic		Special Event
	Gratiot SB (M-3)/Crossover South of Waterbury		Special Event
	Gratiot NB (M-3)/Crossover 850' S of 14 Mile Road		Special Event
	Gratiot NB (M-3)/Crossover South of Quinn		Special Event
	Gratiot NB (M-3)/At Abrahm		Special Event
	Gratiot NB (M-3)/Price Drive Crossover		Special Event
1	Gratiot NB (M-3)/Schaefer		Special Event
	Broadway (M-3/NB Gratiot)/Iroquois		Special Event
	Broadway (M-3/NB Gratiot)/Harrington		Special Event
	Broadway (M-3/NB Gratiot)/Wellington Crescent		Special Event
	Gratiot NB (M-3)/Robertson		Special Event
	Cass (Crocker)/Gratiot NB (M-3)		Special Event
	Broadway (M-3/NB Gratiot)/Market		Special Event
	Gratiot NB (M-3)/Walnut		Special Event
1	Gratiot NB (M-3)/Main/Welts		Special Event

MAINTENANCE May 2022



SIGNAL TIMING CHANGES CONTINUED

Time of Signal			Reason for signal
change	Loc #	Intersection	change
	Clair (Joy)/Gratiot NB (M-3)	165	Special Event
	Hall Road EB (M-59)/Crossover W. of Marketplace		Special Event
	Hall Road WB (M-59)/I-94 EB ON Ramp		Special Event
	I-94 EB Off Ramp/Little Mack	714	Special Event
	I-94 WB Off Ramp/Little Mack	713	Special Event
	Little Mack/Masonic	254	Special Event
	15 Mile Road/Harper/Klix	210	Special Event
	Fierz (Harper)/King	736	Special Event
	I-94 Ramp B/Metropolitan Parkway EB	597	Special Event
	I-94 Ramp D/Metropolitan Parkway WB	596	Special Event
	Metropolitan Parkway/Union Lake	981	Special Event
	Metropolitan Parkway WB/Crossover 295' E of Harper	650	Special Event
	Harper/Metropolitan Parkway	218	Special Event
	Metropolitan Parkway EB/Crossover 300' W of Harper		Special Event
	Metropolitan Parkway WB/Crossover 550' E of Gratiot		Special Event
	Crocker/Metropolitan Parkway	92	Special Event
	Harper/Wellington Crescent	433	Special Event
	Avery (Crocker)/Harper	51	Special Event
	M-3 (Gratiot Ave.)/Market place	1076	Special Event
	Gratiot (M-3)/21 Mile Road	185	Special Event
	I-94 WB Off Ramp/21 Mile Road	345	Special Event
	Gratiot (M-3)/22 Mile Road	27	Special Event
05/09/2022 11:05	Cotton/Gratiot (M-3/M-59)	848	Special Event
05/09/2022 11:05	Gratiot (M-3)/23 Mile Road	186	Special Event
05/09/2022 11:05	23 Mile Road/Waterside Market Place	973	Special Event
05/09/2022 11:05	I-94 WB Off Ramp/23 Mile Road	836	Special Event
05/09/2022 11:05	Fairchild/21 Mile Road	387	Special Event
05/09/2022 11:05	Cass/Groesbeck (M-97)	72	Special Event
05/09/2022 11:05	Church/Groesbeck (M-97)	884	Special Event
05/09/2022 11:05	Groesbeck (M-97)/Harrington	195	Special Event
05/10/2022 14:40	Chicago Road/Van Dyke	80	Construction
05/10/2022 15:20	Chicago Road/Van Dyke	80	Incident
05/10/2022 15:21	Gratiot (M-3)/Hall Road (M-59)	162	Construction
05/10/2022 15:43	15 Mile Road/Schoenherr	396	Service Request
	Dodge Park/15 Mile Road	382	Service Request
05/10/2022 16:42	Hall Road EB (M-59)/Crossover West of Gratiot	810	Congestion
05/11/2022 17:47	15 Mile Road/Groesbeck (M-97)	134	Congestion
05/11/2022 17:48	Gratiot (M-3)/Hall Road (M-59)	162	Construction
05/11/2022 17:48	Hall Road WB (M-59)/Crossover East of Gratiot	811	Construction
	Hall Road (M-59)/Elizabeth	632	Construction
05/13/2022 11:19	Hall Road EB (M-59)/Crossover West of Groesbeck	808	Construction
05/13/2022 11:19	Groesbeck (M-97)/Hall Road (M-59)	193	Construction

MAINTENANCE May 2022



SIGNAL TIMING CHANGES

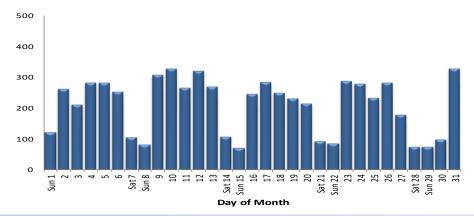
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Time of Signal change	Loc #	Intersection	Reason for signal change
05/13/2022 11:19	Hall Road WB (M-59)/Crossover East of Groesbeck	809	Construction
05/13/2022 11:19	Hall Road EB (M-59)/Crossover West of Gratiot	810	Construction
05/13/2022 11:19	Gratiot (M-3)/Hall Road (M-59)	162	Construction
05/16/2022 16:35	Hall Road (M-59)/Romeo Plank	211	Congestion
05/17/2022 15:43	Romeo Plank/24 Mile Road	719	Service Request
05/18/2022 8:12	Utica Road/Van Dyke	325	Service Request
05/20/2022 14:22	26 Mile Road/Meijer Drive (E. of I-94)	974	Traffic Study
05/20/2022 14:22	I-94 EB Off Ramp/26 Mile Road	851	Traffic Study
05/20/2022 14:22	I-94 WB Off Ramp/26 Mile Road	852	Traffic Study
05/23/2022 17:47	Romeo Plank/23 Mile Road	517	Service Request
05/24/2022 10:57	Hall Road WB (M-59)/Marketplace Boulevard	890	Construction
05/24/2022 10:58	15 Mile Road/Van Dyke	139	Incident
05/24/2022 10:58	Van Dyke NB (M-53)/Crossover 610' S of 15 Mile Road	666	Incident
05/24/2022 14:44	Mound/19 Mile Road	594	Construction
05/24/2022 15:35	14 Mile Road/1550' W. of Van Dyke	364	Traffic Study
05/24/2022 15:52	Hall Road (M-59)/Elizabeth	632	Construction
05/24/2022 15:52	Gratiot (M-3)/Hall Road (M-59)	162	Construction
05/24/2022 15:52	Groesbeck (M-97)/Hall Road (M-59)	193	Construction
05/24/2022 16:55	15 Mile Road/Hayes	827	Construction
05/25/2022 16:57	14 Mile Road/Schoenherr	339	Incident
05/27/2022 9:12	Hall Road EB (M-59)/Crossover West of Schoenherr	766	Incident
05/27/2022 9:12	Hall Road (M-59)/Schoenherr	207	Incident
05/27/2022 9:12	Hall Road WB (M-59)/Crossover East of Schoenherr	767	Incident
05/31/2022 10:30	Metropolitan Parkway EB/Crossover 535' W of Garfield	642	Incident
05/31/2022 10:30	Garfield/Metropolitan Parkway	157	Incident
05/31/2022 10:30	Metropolitan Parkway WB/Crossover 635' E of Garfield	643	Incident



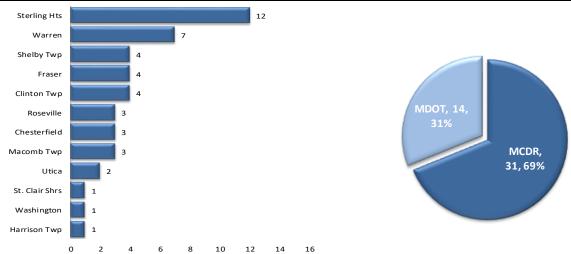
MAINTENANCE May 2022

MCDR WEBSITE HITS



A total of 6,450 hits were accrued at <u>http://roads.macombgov.org/</u>.

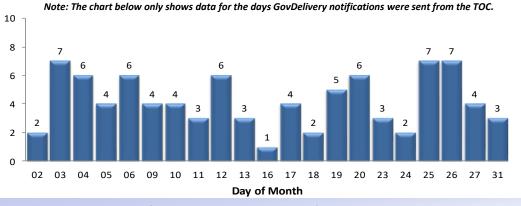
SERVICE REQUESTS PER MUNICIPALITY



The chart to the left shows how many requests were created per traffic signal location under municipality jurisdiction. The chart to the right shows breakdown of the requests created under MDOT or MCDR / local municipality jurisdiction.

GOVDELIVERY NOTIFICATIONS

In the month of May, the TOC sent out 89 GovDelivery notifications, and increased the number of recipients from 3,347 to 3,396 receiving notifications.



GovDelivery is a tool to notify Macomb County motorists of any incident blocking at least one lane of traffic or causing traffic issues. The notifications are sent after an incident has been verified.

Sign up for incident notifications on weekdays from 6 a.m. to 6 p.m. causing lane or roadway closures on major Macomb County arterials.

MOTORIST EXPERIENCE May 2022

