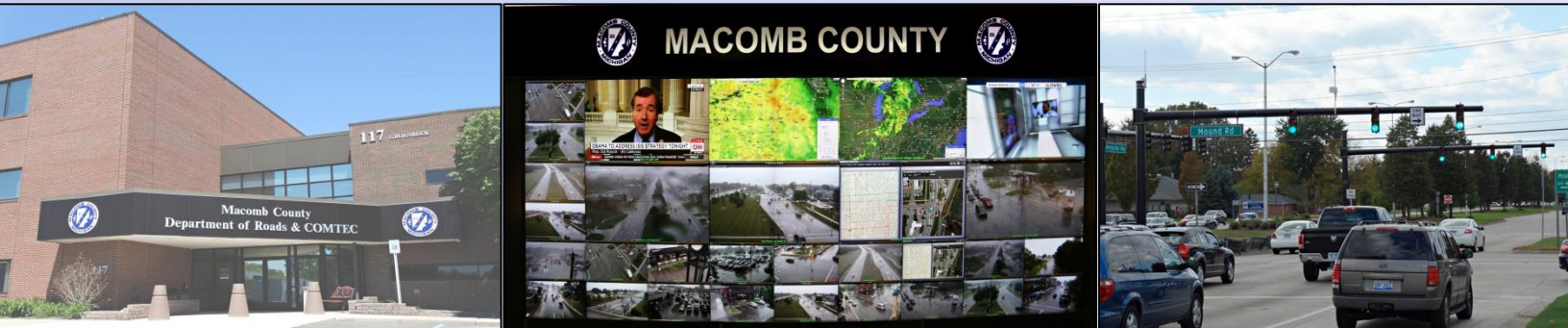


MACOMB COUNTY DEPARTMENT OF ROADS

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



July 2021

AECOM

WSP

INTEGRAL
BLUE



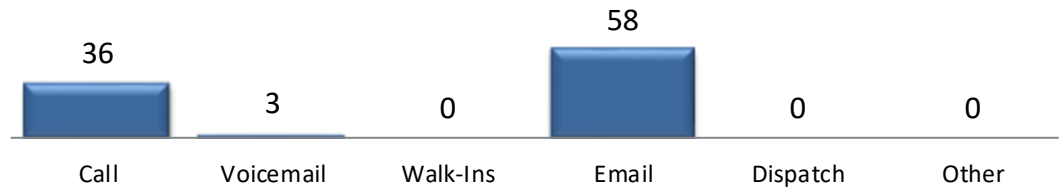
John Abraham, PhD, PE, PTOE
Director of Traffic & Operations
Macomb County Department of Roads
117 S Groesbeck Hwy
Mount Clemens, MI 48043
586-463-8671
JAbraham@RCMCWeb.org

MONTHLY TOC HIGHLIGHT

In July 2021, the Macomb County Department of Roads Traffic Operations Center (TOC) engineers assisted the traffic flow for multiple special events at various parts of the County. One of which was the Shelby Township's Independence Day Fireworks. The show attracted many in-person viewers. The event started at dusk, around 10 PM, on July 1st and lasted for half an hour. After the event, the traffic took about 40 minutes to egress out of the designated parking lots. The TOC engineers monitored and deployed signals timing changes in real-time to nine signalized intersections based on traffic demand during that period. While police were on-site at the congested intersections, they monitored traffic operations rather than needing to stand in the middle of the intersection and direct active traffic, allowing motorists to utilize the traffic signals as intended. The TOC was able to effectively move traffic without additional risk to on-site law enforcement.

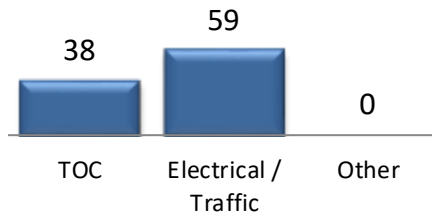
SERVICE REQUESTS

Service Request Source



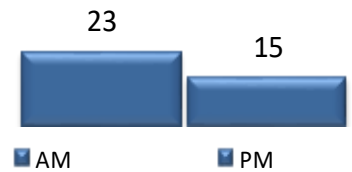
In the month of July, **97** incoming requests regarding traffic signals were received.

Service Request by Dept.

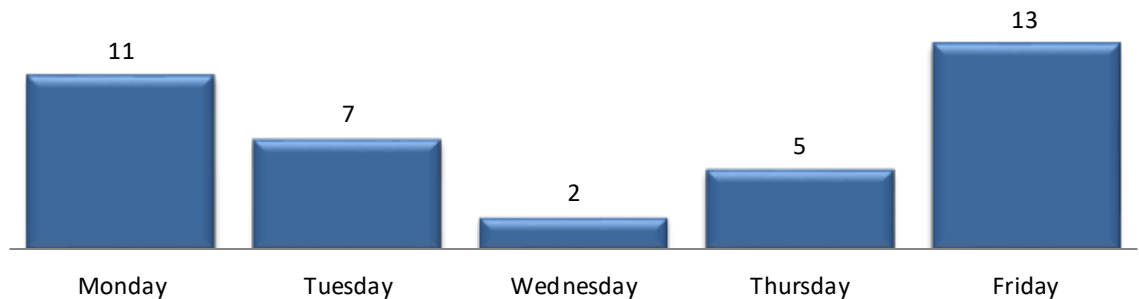


In the month of July, TOC engineers closed **40** service requests within an average of **6** business days.

TOC by Time of Day



Service Request Per Day of Week



TRAFFIC OPERATIONS

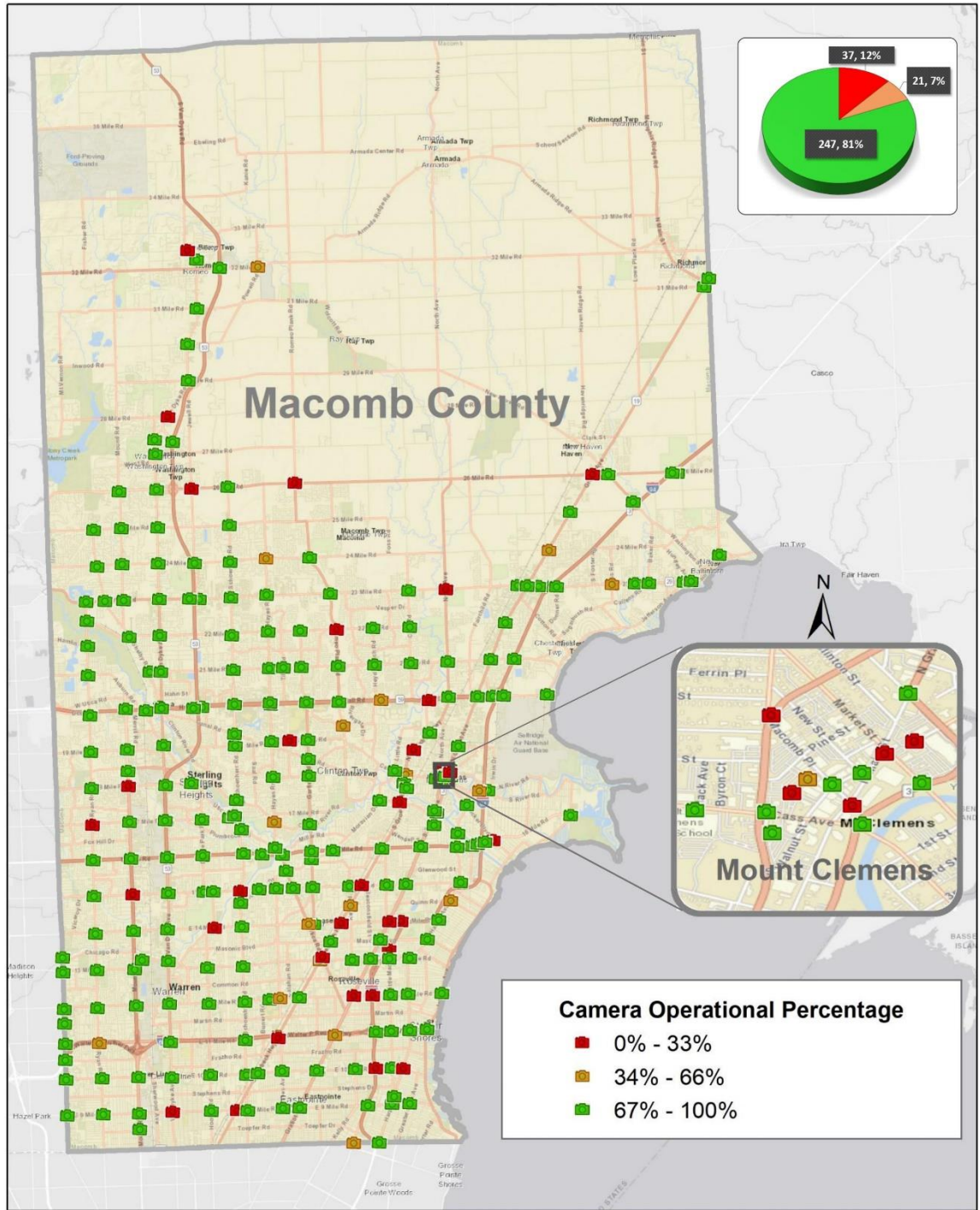
July 2021



CCTV TRAFFIC CAMERA SUMMARY

CAMERA COVERAGE

July 2021



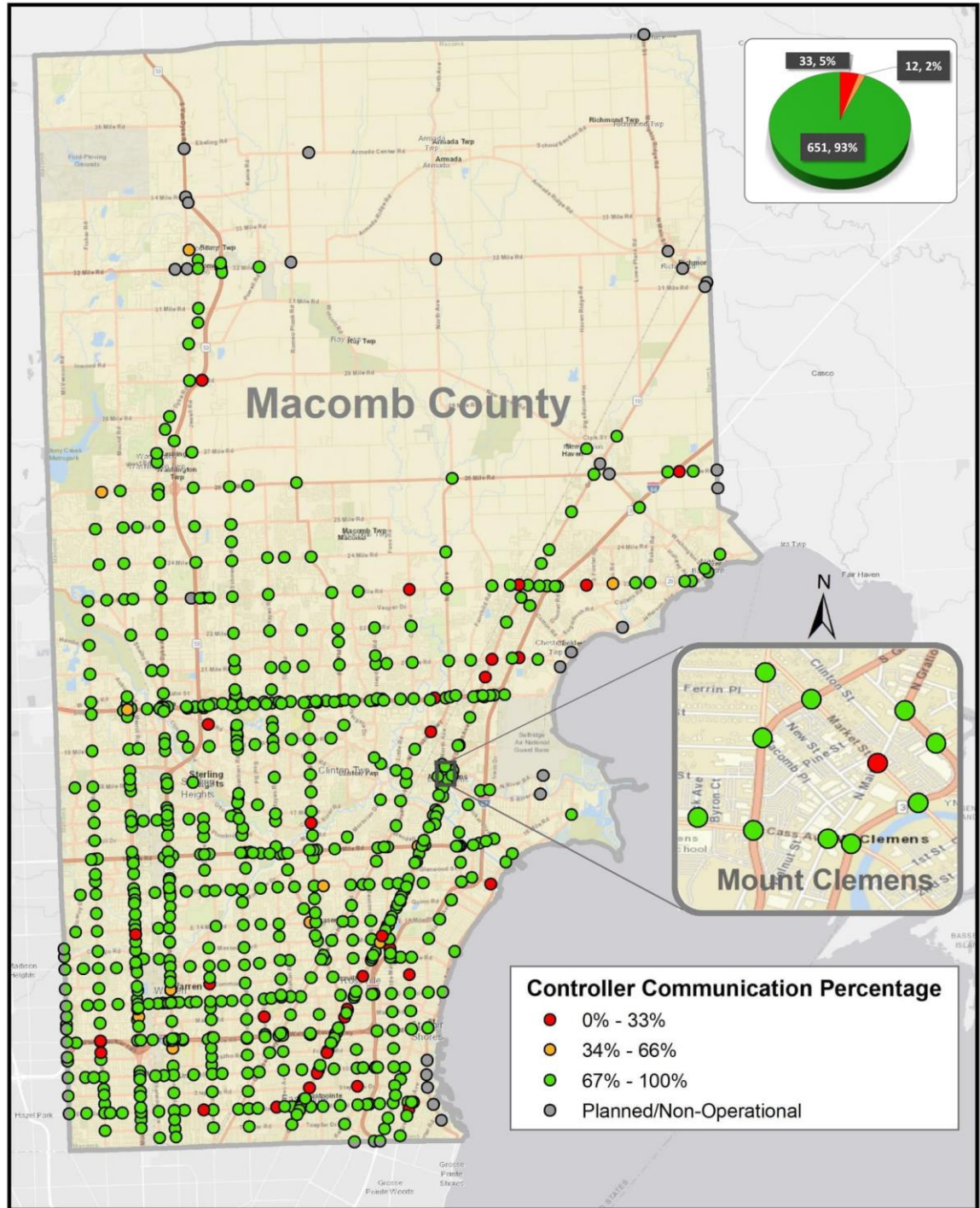
The map above represents the CCTV camera operational percentages for the month of July 2021.



REGIONAL COMMUNICATIONS SUMMARY

ITS MAINTENANCE

July 2021



The map above represents the communication availability percentages of Traffic Signal Controllers for the month of July 2021.



HIGH IMPACT CORRIDOR

COMMUNICATIONS AVAILABILITY

Corridor	Current Month	Previous Month	Change
9 Mile	95%	96%	-1%
14 Mile	98%	99%	-1%
15 Mile	97%	79%	18%
Metro Parkway	99%	99%	0%
Hall (M-59)	97%	99%	-2%
Dequindre	91%	87%	4%
Ryan	93%	99%	-6%
Mound	94%	97%	-3%
Hoover	99%	99%	0%
Schoenherr	98%	95%	3%
Hayes	97%	96%	1%
Gratiot (M-3)	95%	94%	1%
Harper	93%	99%	-6%

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

FIELD WORK

93 sites visited by TOC staff and 12 sites visited by IT/ITS maintenance technicians and the MCDR Electrical Group in July 2021.

SIGNAL TIMING CHANGES

Traffic signal changes performed by TOC engineers

Time of Signal change	Loc #	Intersection	Reason for signal change
07/01/2021 19:37	351	Shelby Road/23 Mile Road	Special Event
07/01/2021 19:37	350	Mound/23 Mile Road	Special Event
07/01/2021 19:37	735	23 Mile Road/E. of Mound Shelby Twp. Fire Station	Special Event
07/01/2021 19:37	324	23 Mile Road/Van Dyke	Special Event
07/01/2021 19:37	747	Van Dyke/North of 23 Mile - Shelby Twp. Civic Center D	Special Event
07/01/2021 19:37	323	24 Mile Road/Van Dyke	Special Event
07/01/2021 19:38	750	Mound/26 Mile Road	Special Event
07/01/2021 19:38	328	26 Mile Road/Van Dyke	Special Event
07/02/2021 8:59	178	Card/21 Mile Road	Congestion
07/07/2021 13:44	980	Hall Road EB (M-59)/Heydenreich	Construction
07/07/2021 13:44	802	Hall Road EB (M-59)/Crossover West of Heyendreich	Construction
07/16/2021 12:42	29	Imperial/12 Mile Road	Traffic Study
07/19/2021 13:43	482	North Avenue/21 Mile Road	Service Request
07/19/2021 13:44	870	Cass/Clinton River Road	Construction
07/19/2021 13:44	734	Cass/Heydenreich	Construction
07/19/2021 13:45	534	Cass/Moravian	Construction
07/19/2021 14:43	878	Hayes NB/350' South of Canal	Service Request
07/19/2021 15:07	519	Hayes/19 Mile Road	Service Request
07/20/2021 10:29	822	Jefferson/Sugarbush	Service Request
07/22/2021 15:53	566	Groesbeck (M-97)/Kelly	Incident
07/23/2021 15:46	467	Hall Road (M-59)/Hayes	Incident
07/29/2021 17:27	719	Romeo Plank/24 Mile Road	Congestion
07/29/2021 17:32	719	Romeo Plank/24 Mile Road	Congestion

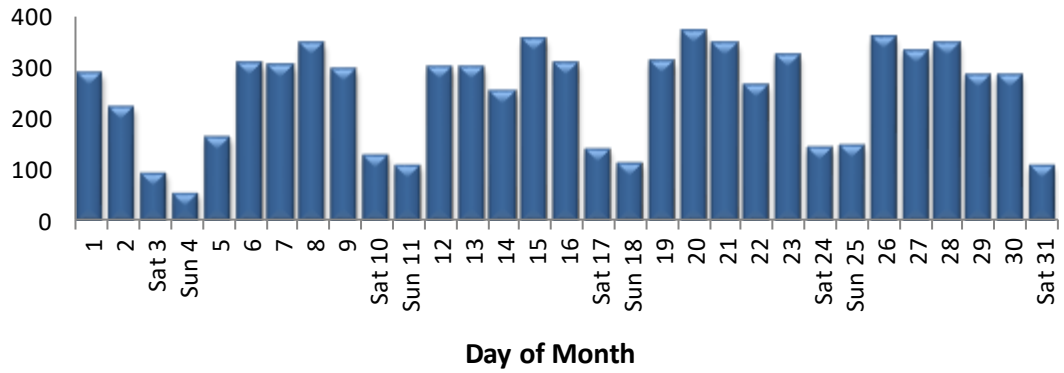
MAINTENANCE

July 2021



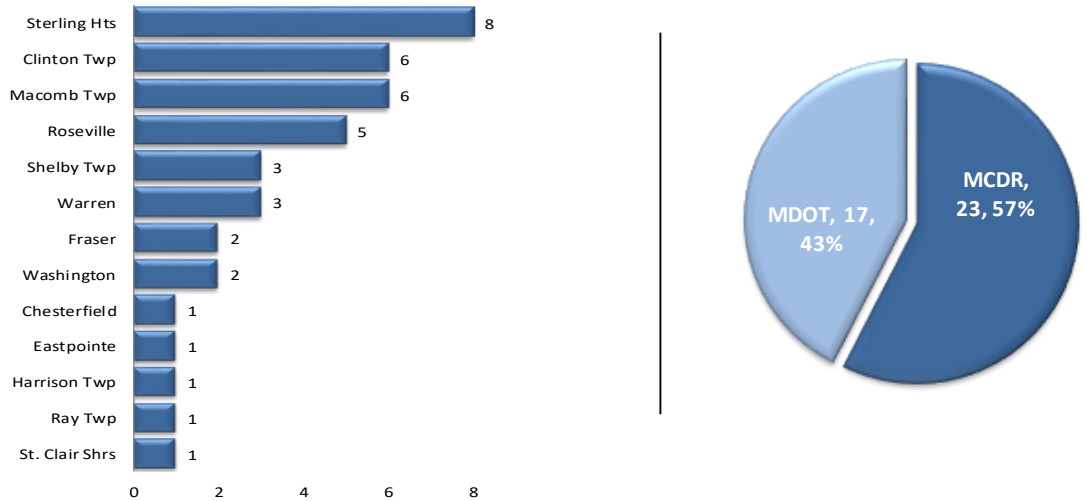
AECOM

MCDR WEBSITE HITS



A total of 7,710 hits were accrued at <http://roads.macombgov.org/>.

SERVICE REQUESTS PER MUNICIPALITY

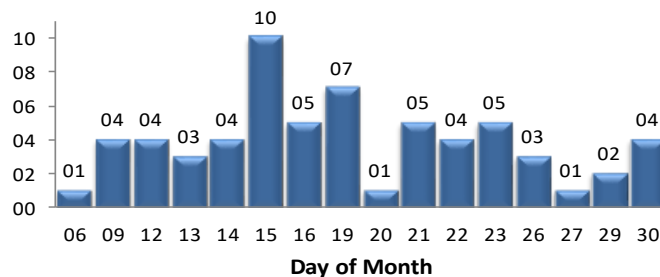


The chart to the left shows how many requests were created per traffic signal location under municipality jurisdiction. The chart to the right shows breakdown of the requests created under MDOT or MCDR / local municipality jurisdiction.

GOVDELIVERY NOTIFICATIONS

In the month of July, the TOC sent out 63 GovDelivery notifications, and increased the number of recipients from 2,661 to 2,716 receiving notifications.

Note: The chart below only shows data for the days GovDelivery notifications were sent from the TOC.



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.](#)

