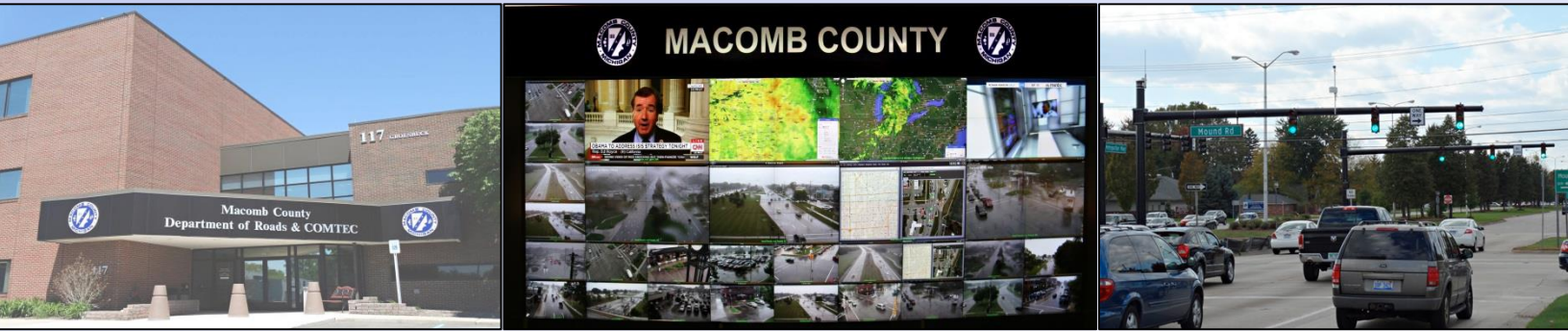


MACOMB COUNTY DEPARTMENT OF ROADS

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



April 2022

AECOM

WSP

**INTEGRAL
BLUE**



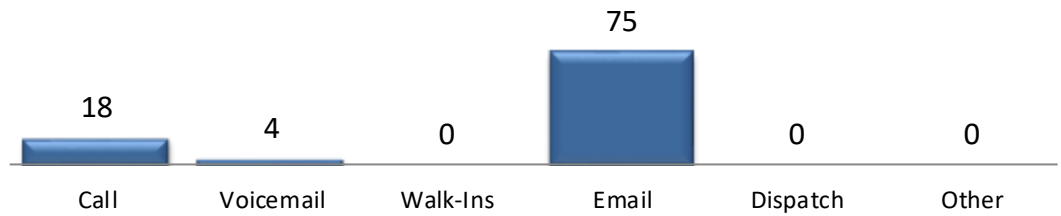
John Abraham, PhD, PE, PTOE
Director of Traffic & Operations
Macomb County Department of Roads
117 S Groesbeck Hwy
Mount Clemens, MI 48043
586-463-8671
JAbraham@RCMCWeb.org

MONTHLY TOC HIGHLIGHT

The month of April typically starts off the construction season for roadway projects, and 2022 is no different in Macomb County. Construction may be seen in various locations throughout the county, such as Mound Road, Gratiot, Metro Parkway, and Hall Road. To combat the expected delays, the Traffic Operations Center (TOC) reviews and monitors the lane closures, posts closure information to crowd-sourced platforms (such as Waze), deploys signal timing changes to reduce delays, and informs of major projects through platforms such as the InnovateMound.org website. As the weather becomes warmer and construction projects expand throughout the county, the TOC will continue to monitor, update operations, and inform the public.

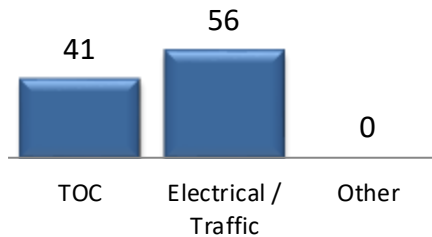
SERVICE REQUESTS

Service Request Source



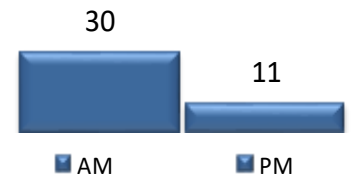
In the month of April, **97** incoming requests regarding traffic signals were received.

Service Request by Dept.

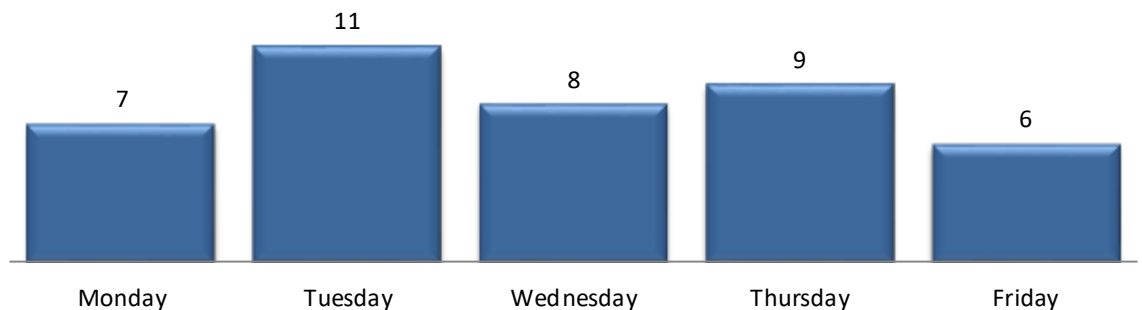


In the month of April, TOC engineers closed **38** service requests within an average of **6** business days.

TOC by Time of Day



Service Request Per Day of Week



TRAFFIC OPERATIONS

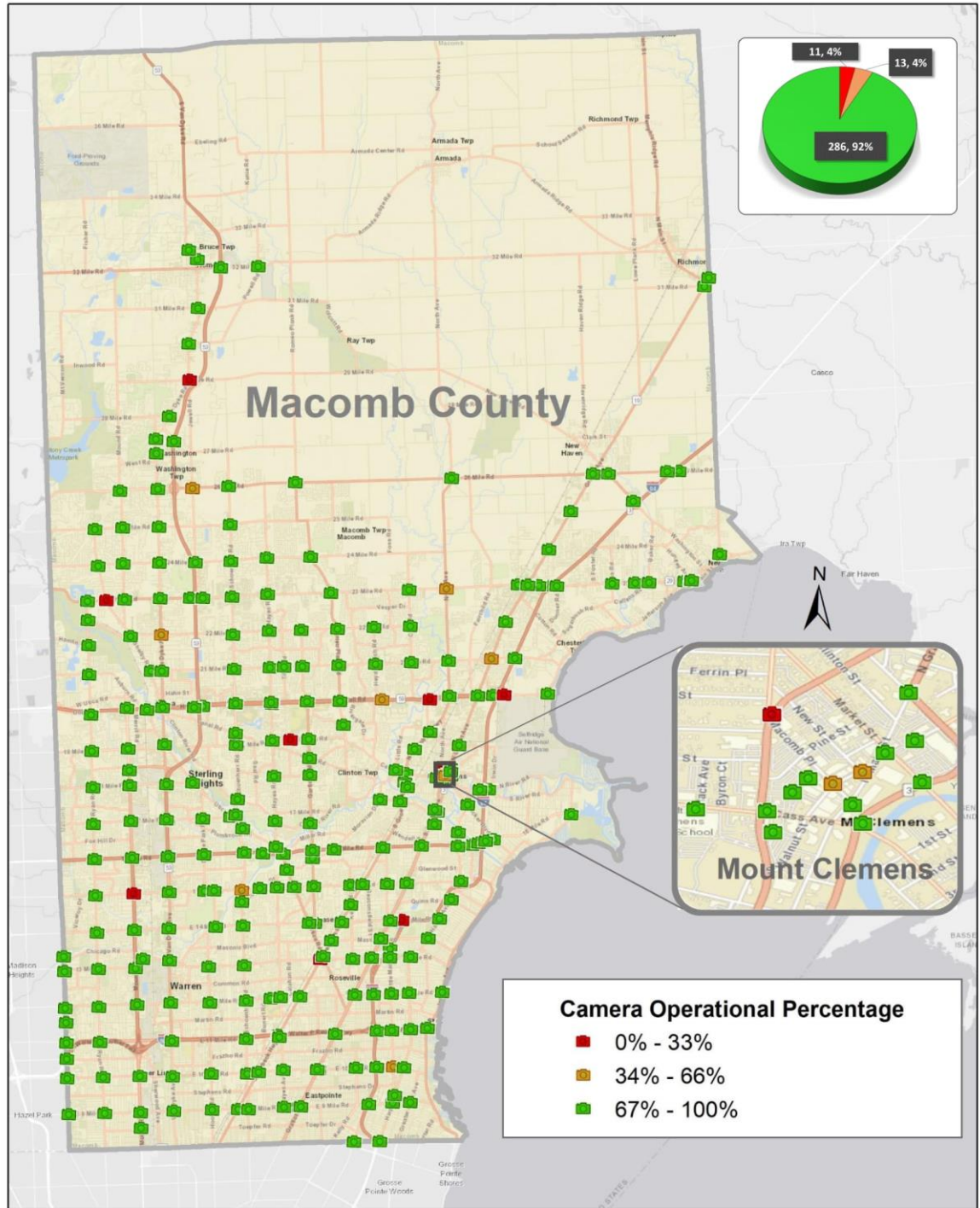
April 2022



CCTV TRAFFIC CAMERA SUMMARY

CAMERA COVERAGE

April 2022



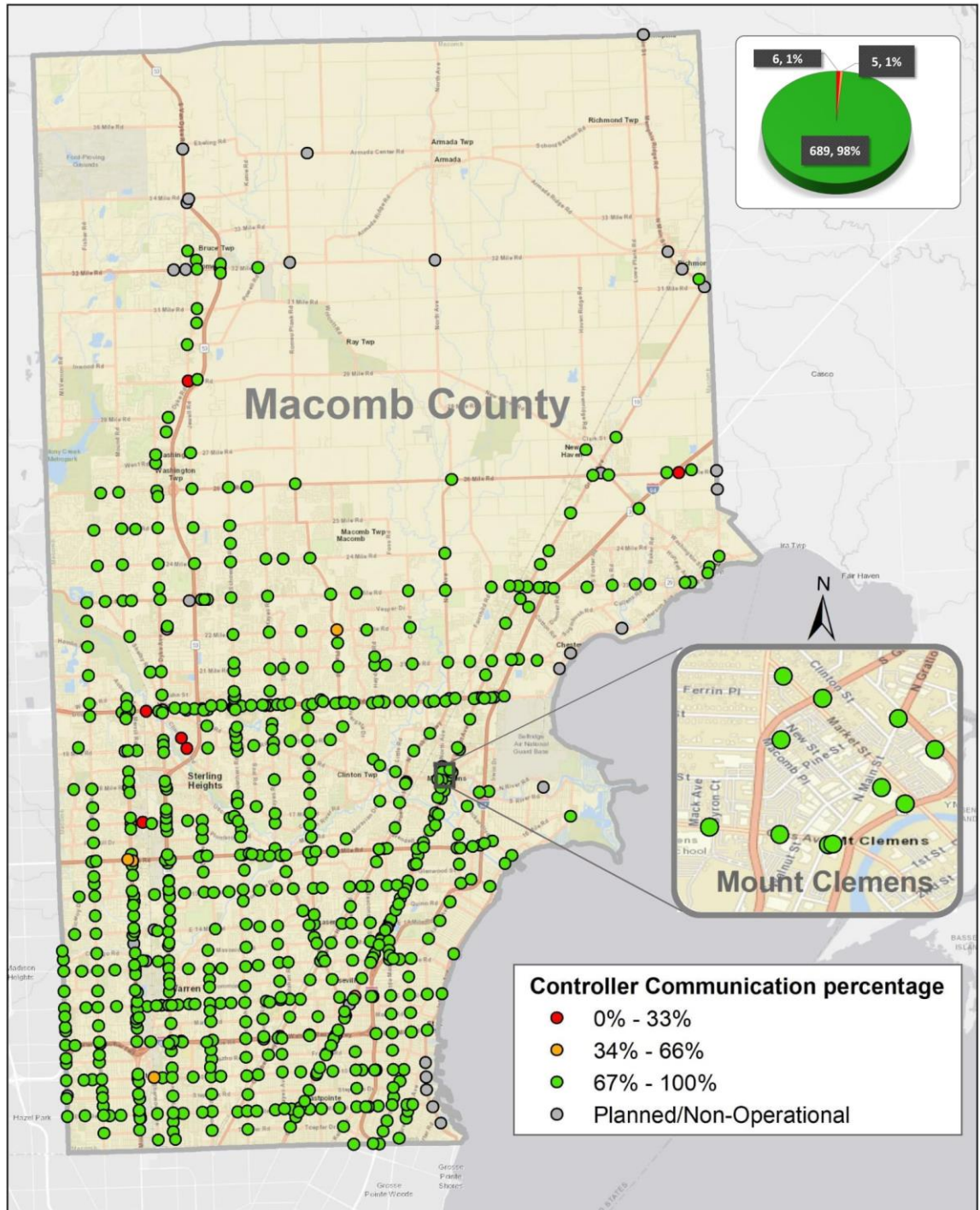
The map above represents the CCTV camera operational percentages for the month of April 2022.



REGIONAL COMMUNICATIONS SUMMARY

ITS MAINTENANCE

April 2022



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



HIGH IMPACT CORRIDOR COMMUNICATIONS AVAILABILITY

| Corridor | Current Month | Previous Month | Change |
|---------------|---------------|----------------|--------|
| 9 Mile | 99% | 99% | 0% |
| 14 Mile | 97% | 99% | -2% |
| 15 Mile | 99% | 99% | 0% |
| Metro Parkway | 99% | 99% | 0% |
| Hall Rd(M-59) | 99% | 99% | 0% |
| Dequindre | 86% | 97% | -11% |
| Ryan | 97% | 98% | -1% |
| Mound | 99% | 99% | 0% |
| Hoover | 96% | 99% | -3% |
| Schoenherr | 98% | 98% | 0% |
| Hayes | 99% | 99% | 0% |
| Gratiot(M-3) | 97% | 98% | -1% |
| Harper | 99% | 99% | 0% |

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

FIELD WORK

72 sites visited by the IT/ITS Maintenance Technicians. 9 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 |
|-----------------------|---|--------------|--------------------------|
| 04/01/2022 10:57 | Cass/Clinton River Road | 870 | Construction |
| 04/01/2022 12:14 | Hall Road (M-59)/Elizabeth | 632 | Construction |
| 04/01/2022 13:06 | Cass/Groesbeck (M-97) | 72 | Incident |
| 04/04/2022 12:02 | Gratiot NB (M-3)/I-94 EB Ramp | 215 | Construction |
| 04/04/2022 12:02 | Gratiot NB (M-3)/Crossover South of Masonic | 749 | Construction |
| 04/04/2022 12:02 | Gratiot (M-3)/Masonic | 169 | Construction |
| 04/04/2022 12:02 | Gratiot SB (M-3)/Macomb Mall | 161 | Construction |
| 04/04/2022 12:02 | Gratiot SB (M-3)/Crossover North of Voiland | 752 | Construction |
| 04/04/2022 12:02 | Clinton River Road/Hayes | 542 | Incident |
| 04/08/2022 15:02 | Hayes/Shoreline | 626 | Incident |



SIGNAL TIMING CHANGES CONTINUED

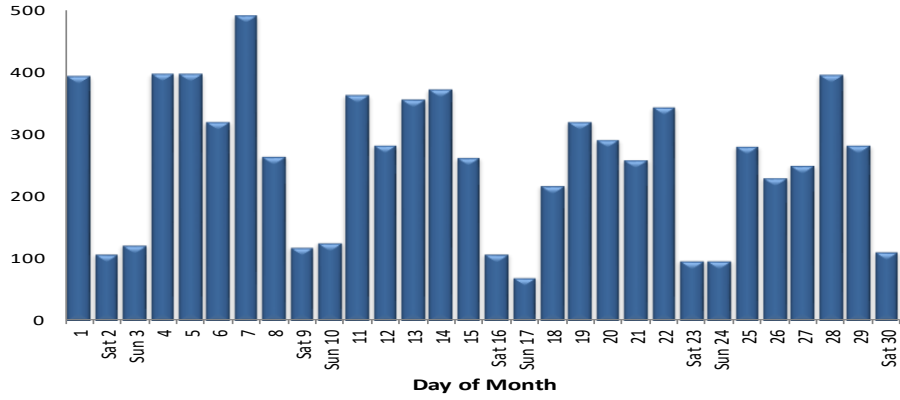
MAINTENANCE

April 2022

| Time of Signal change | Loc # | Intersection | Reason for signal change |
|-----------------------|--|--------------|--------------------------|
| 04/11/2022 9:21 | Ryan/22 Mile Road | 709 | Congestion |
| 04/11/2022 17:11 | Hall Road (M-59)/Romeo Plank | 211 | Incident |
| 04/11/2022 17:11 | Gratiot (M-3)/23 Mile Road | 186 | Construction |
| 04/12/2022 7:37 | Gratiot (M-3)/23 Mile Road | 186 | Construction |
| 04/12/2022 7:43 | Gratiot SB (M-3)/Crossover North of Voiland | 752 | Construction |
| 04/12/2022 12:01 | Delco/Hall Road (M-59) | 525 | Incident |
| 04/12/2022 18:07 | Dove St./Macomb College Drive/Garfield | 1001 | Incident |
| 04/14/2022 9:57 | Ryan/17 Mile Road | 447 | Service Request |
| 04/14/2022 17:21 | 14 Mile Road/Van Dyke | 147 | Incident |
| 04/15/2022 14:31 | Hall Road WB (M-59)/I-94 WB Off Ramp | 812 | Construction |
| 04/15/2022 14:54 | I-94 EB Off Ramp/Little Mack | 714 | Congestion |
| 04/18/2022 17:16 | 15 Mile Road/Harper/Klix | 210 | Incident |
| 04/19/2022 14:34 | I-94 EB Off Ramp/Little Mack | 714 | Congestion |
| 04/19/2022 16:04 | Gratiot (M-3)/21 Mile Road | 185 | Congestion |
| 04/20/2022 7:19 | Gratiot NB (M-3)/Crossover 850' S of 14 Mile Road | 532 | Congestion |
| 04/19/2022 16:37 | Groesbeck (M-97)/Hall Road (M-59) | 193 | Construction |
| 04/19/2022 16:37 | 23 Mile Road/Waterside Market Place | 973 | Construction |
| 04/19/2022 16:37 | Hayes/24 Mile Road | 511 | Traffic Study |
| 04/20/2022 7:19 | Gratiot NB (M-3)/Crossover 850' S of 14 Mile Road | 532 | Congestion |
| 04/20/2022 9:06 | North Avenue/21 Mile Road | 482 | Congestion |
| 04/20/2022 15:47 | Ryan/13 Mile Road | 301 | Construction |
| 04/20/2022 16:25 | Moravian/Utica Road | 270 | Incident |
| 04/21/2022 15:13 | 15 Mile Road/Ryan | 137 | Construction |
| 04/21/2022 15:14 | 15 Mile Road/Schoenherr | 396 | Congestion |
| 04/21/2022 15:14 | Metropolitan Parkway/Schoenherr | 268 | Congestion |
| 04/21/2022 15:15 | North Avenue/21 Mile Road | 482 | Service Request |
| 04/25/2022 11:27 | Hayes/23 Mile Road | 653 | Construction |
| 04/25/2022 16:14 | Metropolitan Parkway WB/Crossover E of Groesbeck | 618 | Incident |
| 04/25/2022 16:14 | Metropolitan Parkway EB/Crossover W of Groesbeck | 646 | Incident |
| 04/25/2022 16:14 | Groesbeck (M-97)/Metropolitan Parkway | 198 | Incident |
| 04/26/2022 13:52 | Metropolitan Parkway EB/Crossover 300' W of Harper | 649 | Incident |
| 04/26/2022 13:52 | Harper/Metropolitan Parkway | 218 | Incident |
| 04/26/2022 13:52 | Metropolitan Parkway WB/Crossover 295' E of Harper | 650 | Incident |
| 04/26/2022 13:52 | 15 Mile Road/Harper/Klix | 210 | Incident |
| 04/26/2022 13:52 | Groesbeck (M-97)/12 Mile Road | 204 | Incident |
| 04/26/2022 13:52 | 12 Mile Road/Utica Road | 320 | Incident |
| 04/26/2022 19:20 | 15 Mile Road/Schoenherr | 396 | Service Request |
| 04/27/2022 8:49 | Hayes/23 Mile Road | 653 | Incident |
| 04/27/2022 12:43 | Gratiot (M-3)/23 Mile Road | 186 | Construction |
| 04/27/2022 16:19 | Hall Road EB (M-59)/Crossover W. of Marketplace Blvd | 891 | Construction |
| 04/27/2022 16:34 | 15 Mile Road/Utica Road | 138 | Incident |
| 04/27/2022 16:41 | Hayes/Utica Road | 504 | Incident |
| 04/28/2022 12:16 | Hall Road EB (M-59)/Crossover W. of Marketplace Blvd | 891 | Construction |
| 04/28/2022 15:00 | North Avenue/21 Mile Road | 482 | Congestion |
| 04/29/2022 8:18 | Hayes/22 Mile Road | 652 | Incident |

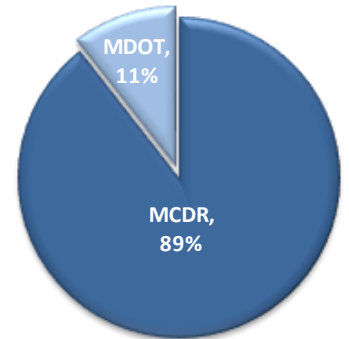
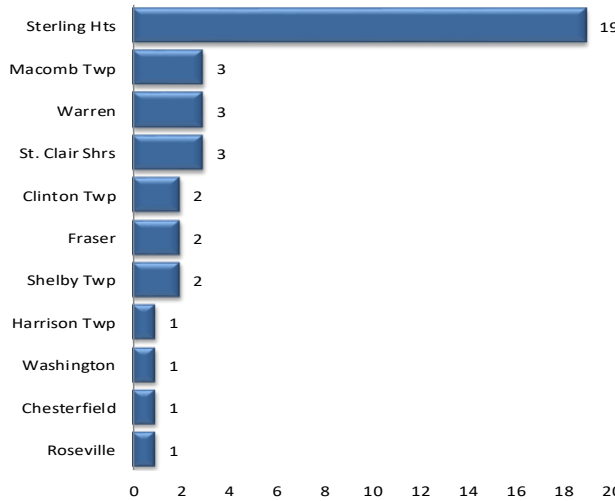


MCDR WEBSITE HITS



A total of **7,697** hits were accrued at <http://roads.macombgov.org/>.

SERVICE REQUESTS PER MUNICIPALITY

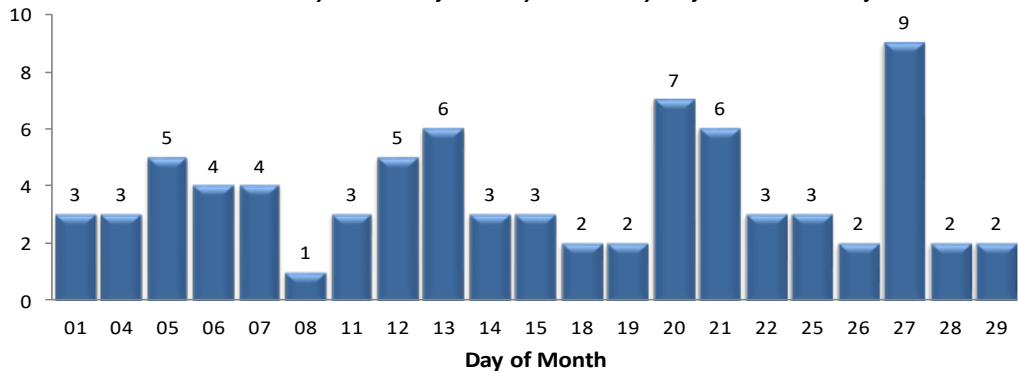


The chart to the left shows how many requests were created per traffic signal location under municipality jurisdiction. The chart to the right shows breakdown of the requests created under MDOT or MCDR / local municipality jurisdiction.

GOVDELIVERY NOTIFICATIONS

In the month of April, the TOC sent out **78** GovDelivery notifications, and increased the number of recipients from **3,292** to **3,347** 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.](#)

MOTORIST EXPERIENCE

April 2022



AECOM