

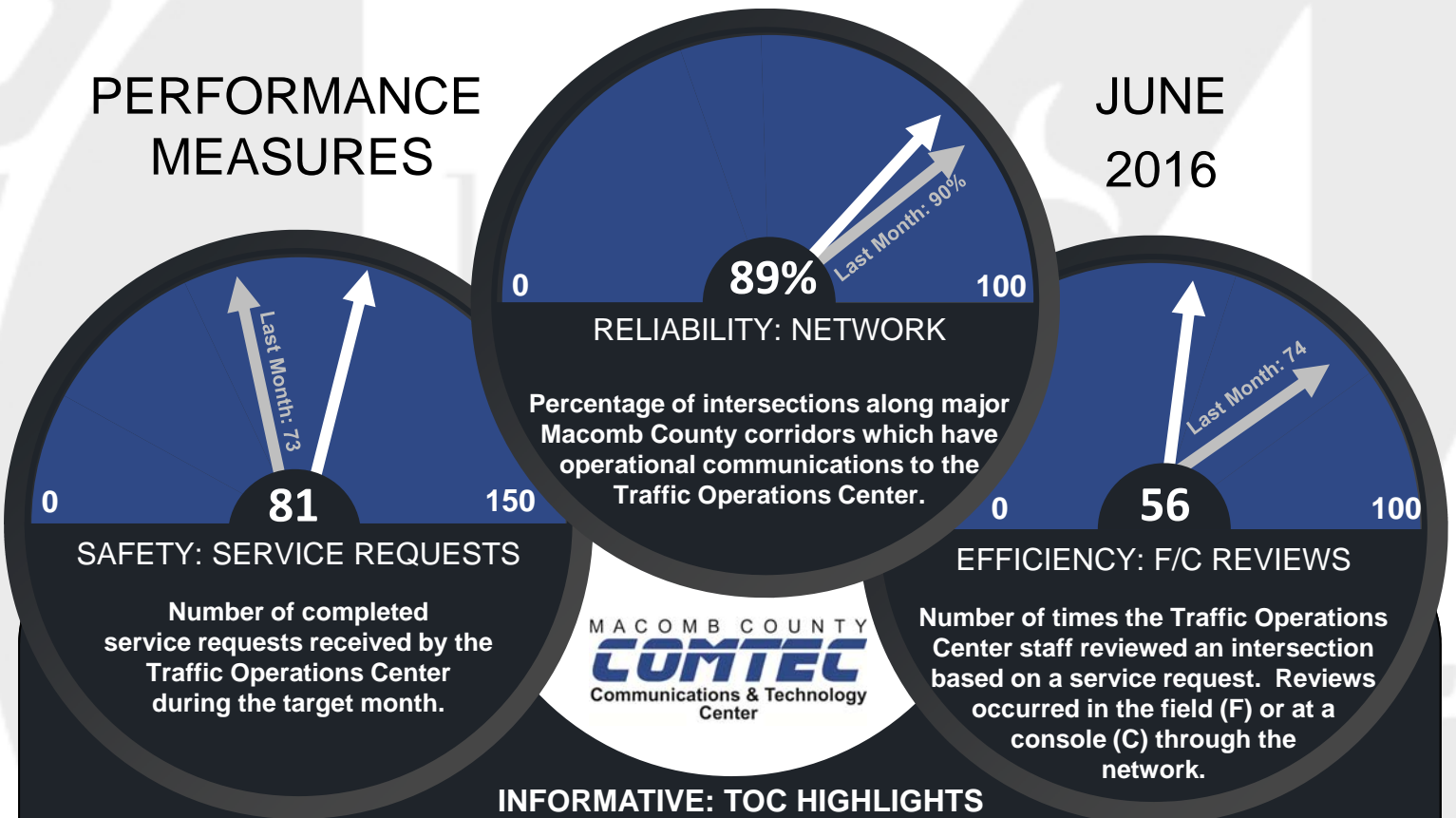
MACOMB COUNTY DEPARTMENT OF ROADS

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."

PERFORMANCE MEASURES

JUNE
2016

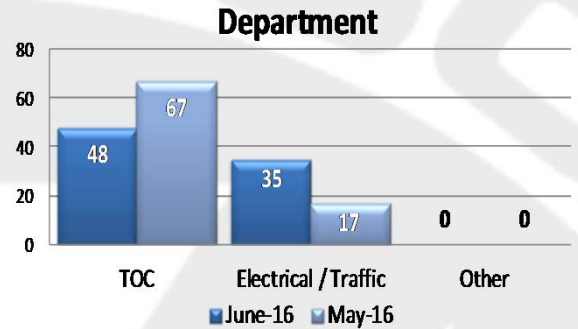
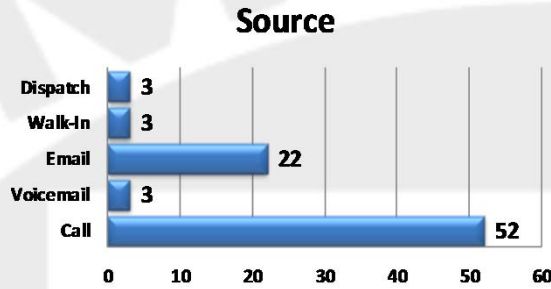


The month of June was a successful month for the Macomb County Department of Roads (MCDR) Traffic Operations Center (TOC). MCDR was able to participate in roundtable discussions and presentations at both the annual Intelligent Transportation Systems (ITS) Michigan conference in Ann Arbor as well as the ITS America conference in San Jose, California. These opportunities provided great insight into current and developing trends in traffic engineering and traffic technology, and also allowed the department and the TOC to showcase our work here in Mount Clemens, which was met with enthusiasm and excitement around the traffic community. On the home front, construction projects continue to progress. MCDR Traffic reached nearing the completion of a signals improvements project covering 18 different intersections. With great collaboration between MCDR Traffic inspectors and TOC engineers; new equipment, signals, and detection equipment were installed seamlessly at all 18 locations with minimal construction hindrances to the motoring public. Lastly, the TOC's efforts with public outreach continue to show positive efforts. Motorists wrote to thank the TOC staff for rapid responses to concerns and have shown appreciation for developing a presence on social media communication channels.

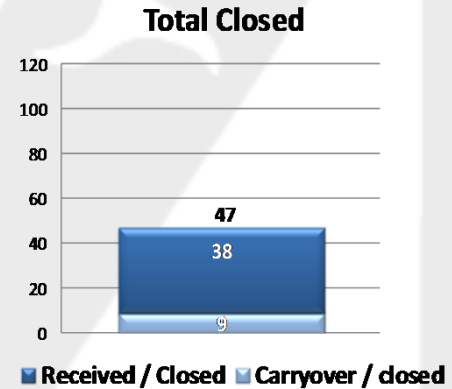
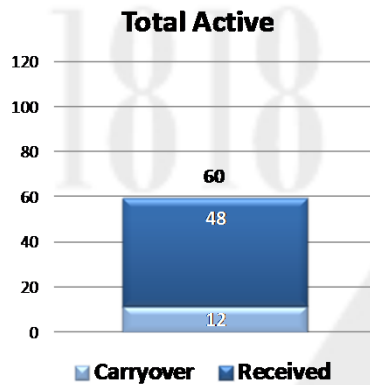


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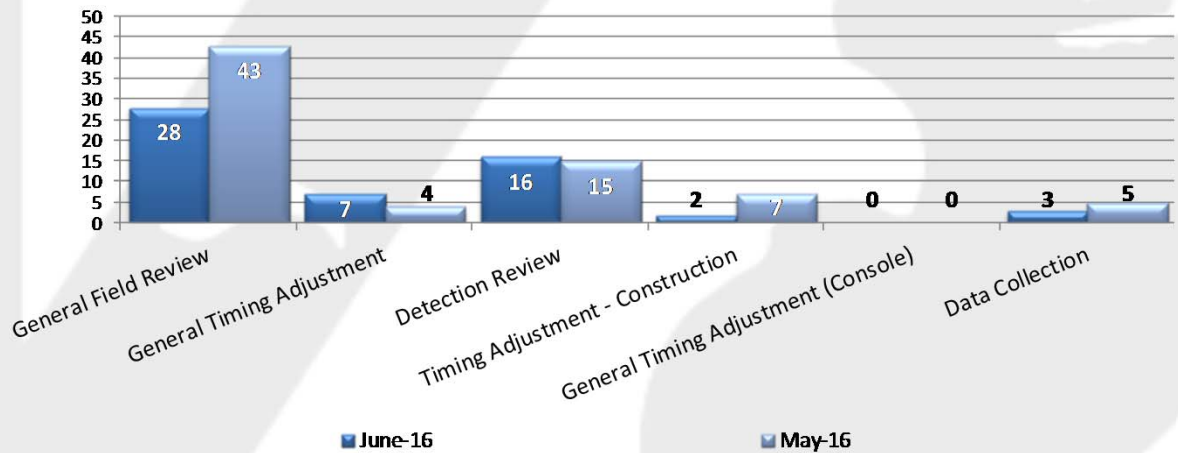
Service Requests



For the month of June, 83 incoming requests regarding traffic signals were received. The 'Source' chart shows how the service request was received by the TOC. The 'Department' chart shows the group handling the service request. The 'Other' category indicates where TOC staff helped filter a request to another agency.



At the end of June, 13 service requests will carry over into July 2016.

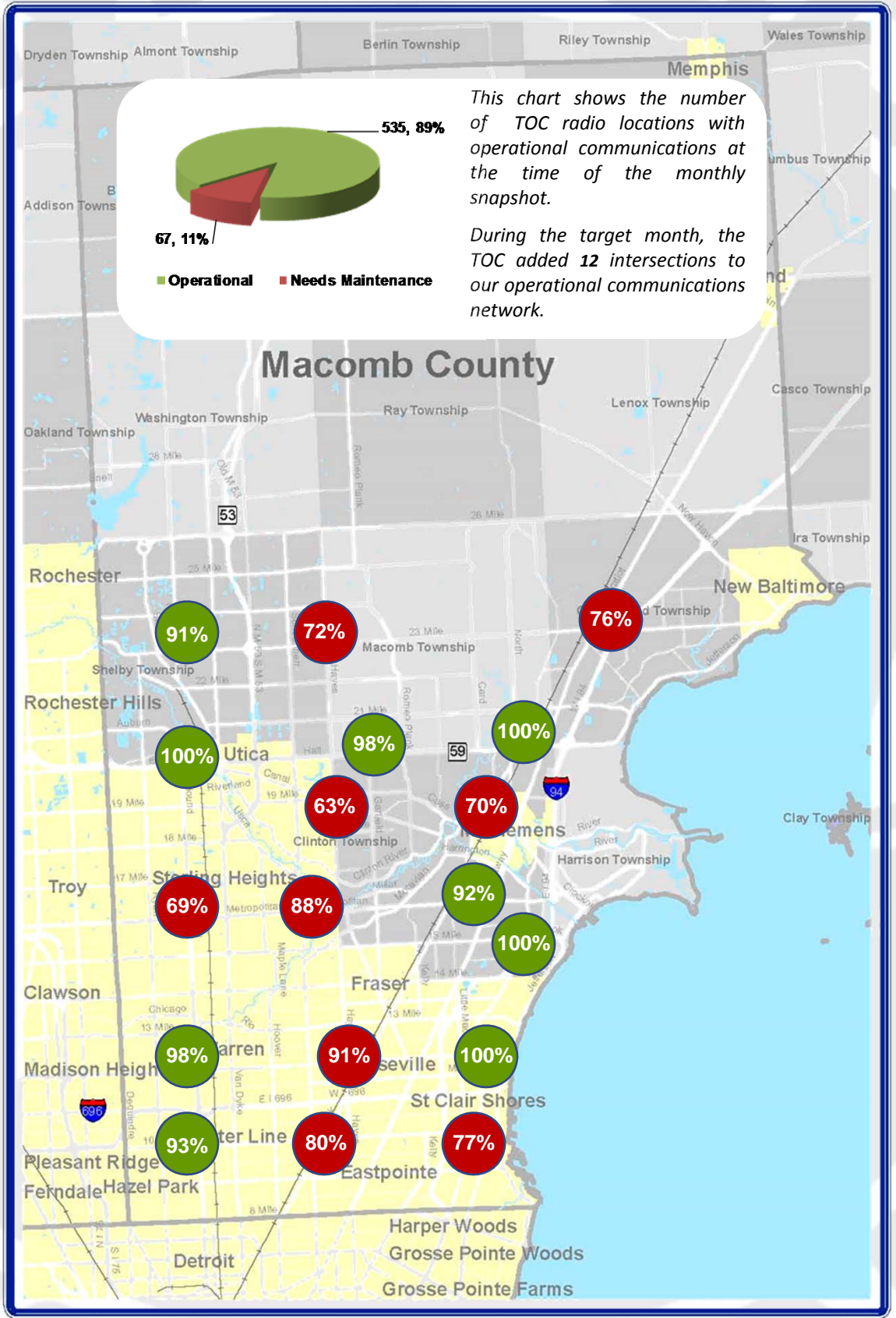


Compilation of the general field/console review types completed by the Traffic Operations Engineers. Field/console reviews are assigned after a public/stakeholder concern warrants an investigation. Reviews are either conducted in the field or at an Operator console through a network connection.

Regional Communications Summary

ITS MAINTENANCE

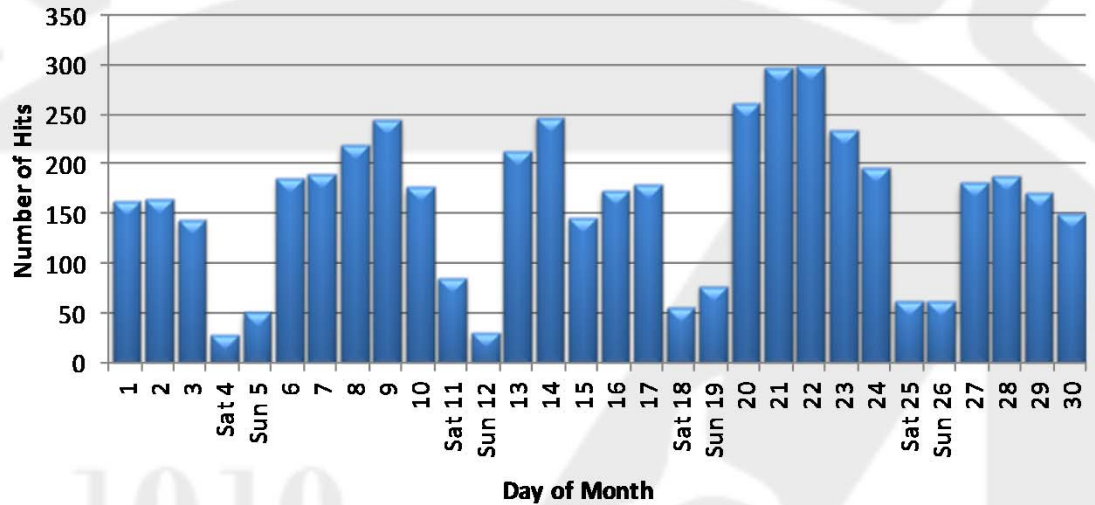
JUNE 2016



Macomb County maintains 18 communications hubs which transmit data between the Traffic Operations Center and regions of traffic signal controllers across the County. The numbers above represent a one-time monthly snapshot of operational communication to each region. Regions considered to have operational communications (90% or above) are shown in green, while regions found not to have operational communications (<90%) at the time of the snapshot are shown in red.



MCDR Website Hits



Combined website hits accrued at the <http://www.rcmcweb.org/> and the new <http://roads.macombgov.org/>.

County Corridor Communications Availability

Corridor	Current Month	Previous Month	Change
9 Mile	97%	100%	▼ -3%
10 Mile	80%	80%	→ 0%
I-696 Service Drive	100%	100%	→ 0%
12 Mile	97%	97%	→ 0%
14 Mile	100%	100%	→ 0%
15 Mile	94%	100%	▼ -6%
Metro Parkway	97%	100%	▼ -3%
Hall (M-59)	100%	98%	▲ 2%
Dequindre	100%	100%	→ 0%
Ryan	100%	100%	→ 0%
Mound	100%	100%	→ 0%
Hoover	100%	100%	→ 0%
Schoenherr	100%	100%	→ 0%
Hayes	100%	100%	→ 0%
Gratiot (M-3)	99%	100%	▼ -1%
Harper	100%	100%	→ 0%

The table above represents a one-time monthly snapshot of communications along major corridors in Macomb County. Corridors which are considered to have operational communications (90% and above) are shown in green, while corridors found not to have operational communications (<90%) at the time of the snapshot are shown in red.

Executed Roadway Upgrades

Date	Location	Organization	Upgrade
06/06/2016	483: 17 Mile at Dodge Park	MCDR	D4 conversion
06/13/2016	513: Clinton River at Riverland	MCDR	D4 conversion; ped and vehicle detection installed
06/14/2016	883: Clinton River at Saal	MCDR	D4 conversion; ped and vehicle detection installed
06/14/2016	073: Canal at Delco	MCDR	D4 conversion; ped and vehicle detection installed
06/16/2016	754: 18 Mile at Gulliver	MCDR	D4 conversion; ped and vehicle detection installed
06/16/2016	612: Moravian at Millar	MCDR	Ped and vehicle detection installed
06/17/2016	657: Dodge Park at Canterbury	MCDR	D4 conversion; ped and vehicle detection installed
06/17/2016	633: 17 Mile at Plumbrook	MCDR	D4 conversion; ped and vehicle detection installed
06/17/2016	586: Dodge Park at 16.5 Mile	MCDR	D4 conversion; ped and vehicle detection installed
06/17/2016	706: Dodge Park at Plumbrook	MCDR	D4 conversion; ped and vehicle detection installed
06/20/2016	439: Sherwood at Westminster	MCDR	D4 conversion; ped and vehicle detection installed
06/20/2016	103: Dequindre at Stephens	MCDR	D4 conversion; ped and vehicle detection installed
06/20/2016	190: Greater Mack at Overlake	MCDR	D4 conversion
06/21/2016	254: Little Mack at Masonic	MCDR	D4 conversion; new four level left turn signals
06/22/2016	128: Greater Mack at Englehardt	MCDR	D4 conversion; ped and vehicle detection installed
06/22/2016	151: Little Mack at Frazho	MCDR	D4 conversion; vehicle detection installed
06/22/2016	253: Little Mack at Martin	MCDR	D4 conversion; ped and vehicle detection installed
06/22/2016	622: Moravian at Harrington	MCDR	Vehicle detection installed
06/30/2016	891: EB M-59 at Marketplace	MCDR	New signal install

Tracks the roadway upgrades executed in Macomb County, including those done by other transportation agencies, also lists a description of the upgrades performed.

GovDelivery Notifications

In the month of June, the TOC sent out 30 GovDelivery notifications, and increased the number of recipients from 298 to 310 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 only sent after the incident has been verified by camera, Sheriff and/or local police agencies.



[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.](#)

Major Construction and Maintenance

Project Parameters	Start Date	Approximate Completion Date	Location(s)
Construction	07/30/2015	11/18/2016	31 Mile East of Mt. Vernon across the Stoney Creek (Bridge)
Construction	11/06/2015	To be determined	Shook Bridge over the Clinton-Harrison Drain
Construction	11/19/2015	To be determined	Quinn Bridge located between Oakview and I-94
Construction	03/03/2016	09/01/2016	Charter Oaks and adjacent subdivision roads
Construction	03/20/2016	06/03/2016	Lakeshore Bridge (North) over Channel to Lake St. Clair
Construction	04/01/2016	07/26/2016	Executive from Henry B. Joy to Production
Construction	04/11/2016	07/28/2016	Chapman over Deer Creek Bridge Replace
Construction	05/02/2016	08/02/2016	32 Mile from old Van Dyke to M-53, Romeo
Construction	05/02/2016	07/12/2016	12 Mile from Ryan to Mound
Construction	05/06/2016	07/02/2016	32 Mile over North Branch of Clinton River
Construction	05/09/2016	08/01/2016	Van Dyke from West to Campground
Construction	06/21/2016	08/12/2016	Schoenherr from 14 Mile North to 15 Mile
Construction	06/23/2016	08/20/2016	Mound from Rinke to South of I-696
Construction	06/27/2016	10/15/2016	19 Mile from Hayes to Romeo Plank
Construction	07/05/2016	09/30/2016	14 Mile from M-53 to 2500 feet East of M-53

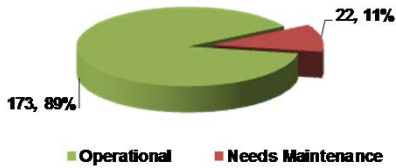
Out of the many projects that occur on Macomb County roads, these projects potentially have the most impact to motorists.



Current Camera Locations

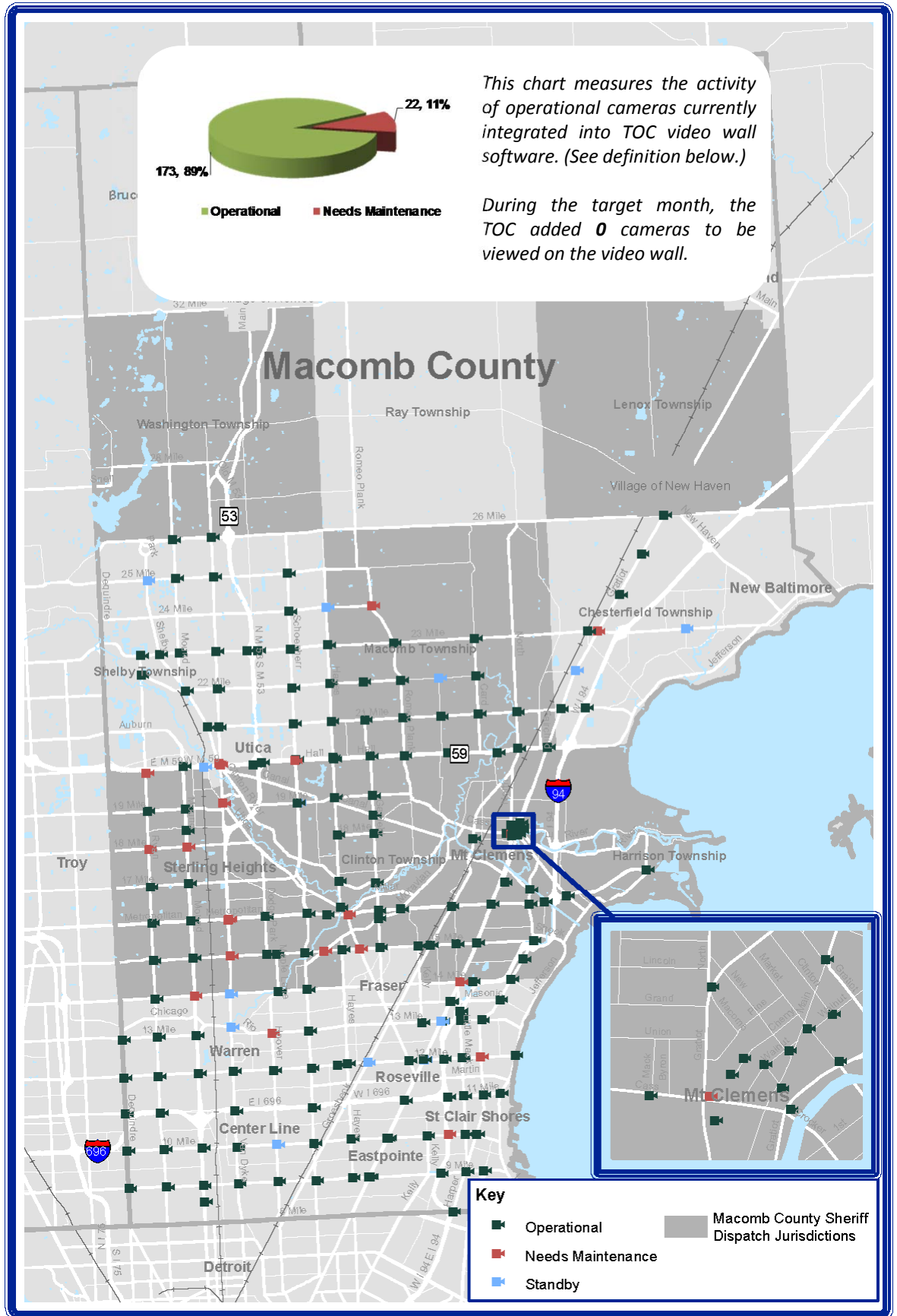
CAMERA COVERAGE

JUNE 2016



This chart measures the activity of operational cameras currently integrated into TOC video wall software. (See definition below.)

During the target month, the TOC added 0 cameras to be viewed on the video wall.



- Key**
- Operational
 - Needs Maintenance
 - Standby
 - Macomb County Sheriff Dispatch Jurisdictions

Cameras currently deployed and under Macomb County Department of Roads jurisdiction.
Cameras in "Standby" have not yet been integrated into TOC video wall software.

