

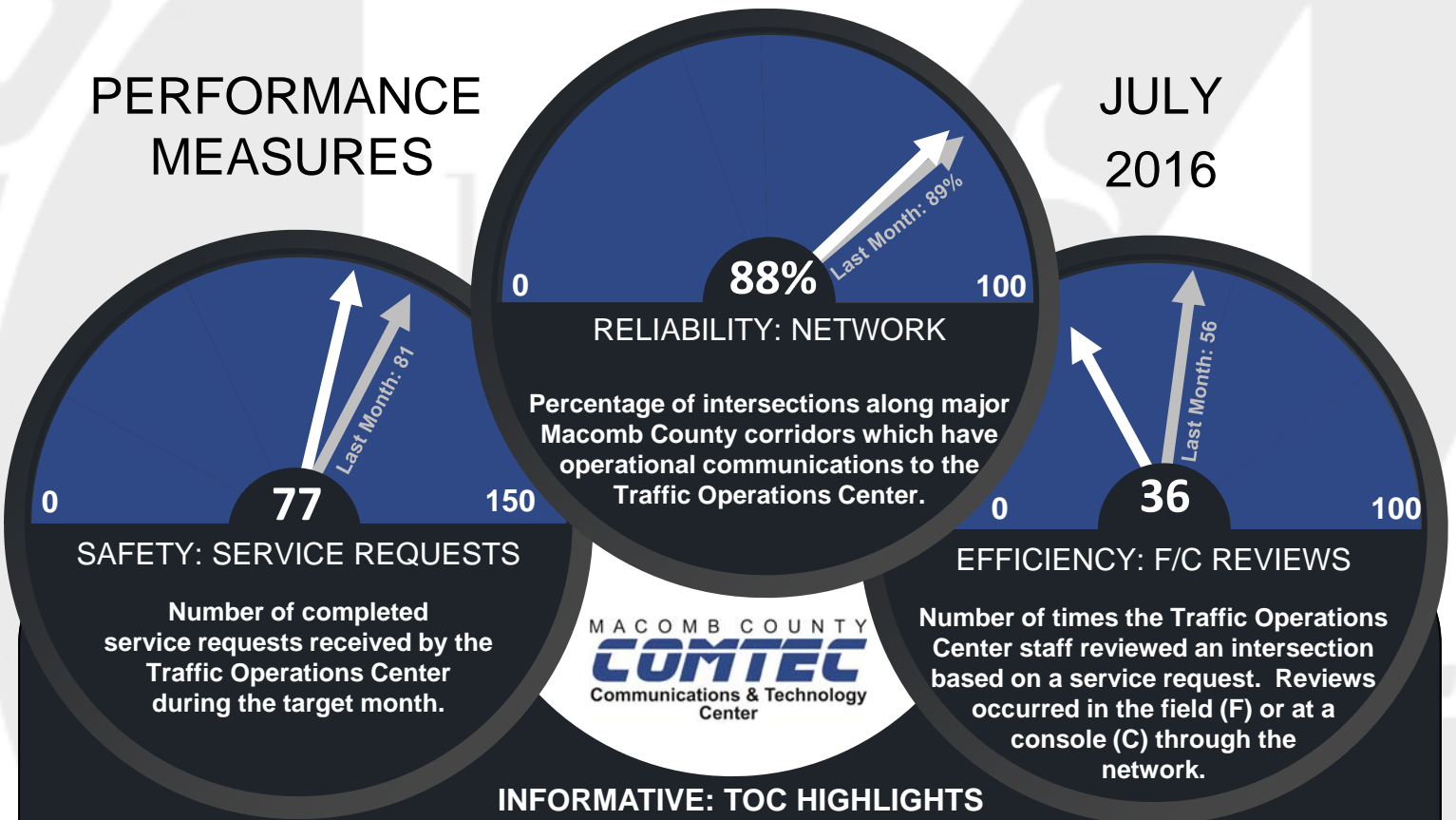
MACOMB COUNTY DEPARTMENT OF ROADS

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

JULY
2016



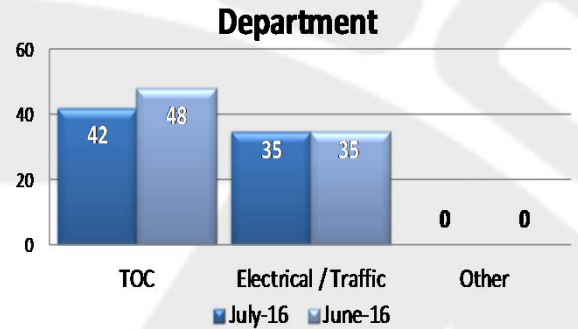
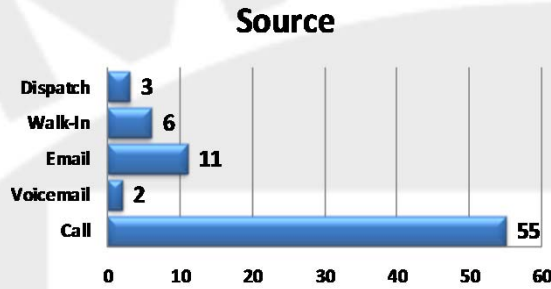
The month of July was busy for the Macomb County Department of Roads (MCDR) Traffic Operations Center (TOC). TOC engineers worked with MCDR inspectors and contractors on a series of traffic switches and new signal equipment upgrades as part of the Michigan Department of Transportation's (MDOT) M-53 (Van Dyke) reconstruction project through Sterling Heights. These upgrades will result in better service at various intersections along M-53 in Sterling Heights, with new controllers, cabinets, and communications equipment. New signal mast arms and signal heads, along with new pedestrian crosswalks and median landscape features, will bring about a more enjoyable experience for motorists along Van Dyke.

As well, TOC engineers and staff worked to assist local events, fairs, and fireworks in celebration of the 4th of July. Being able to adapt the traffic network to accommodate these special events provides a better experience for the motoring public and keeps their focus on the fun at hand.

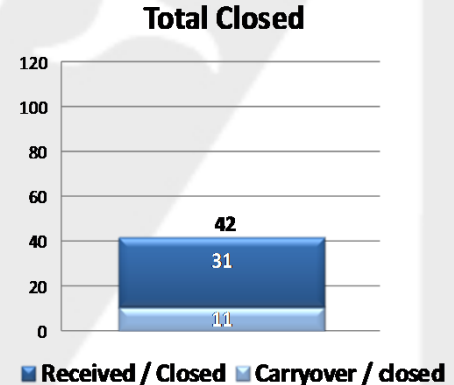
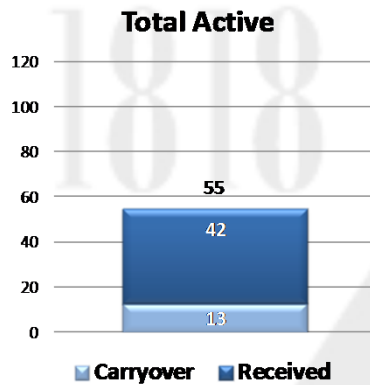


John Abraham, PhD, PE, PTOE
Director of Traffic & Operations
Macomb County Department of Roads
117 S Groesbeck Hwy
Mount Clemens, MI 48043
586-463-8671
JAbraham@RCMCWeb.org

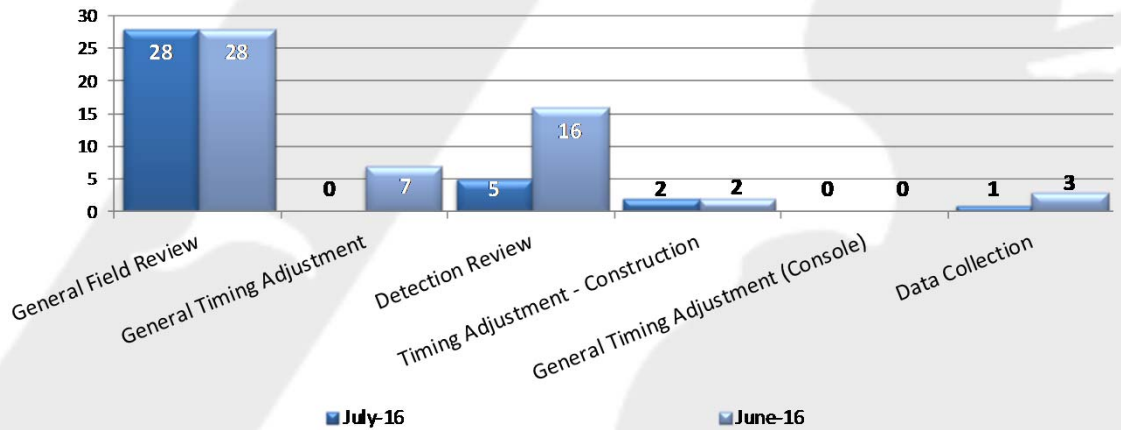
Service Requests



For the month of July, 77 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 July, 13 service requests will carry over into August 2016.

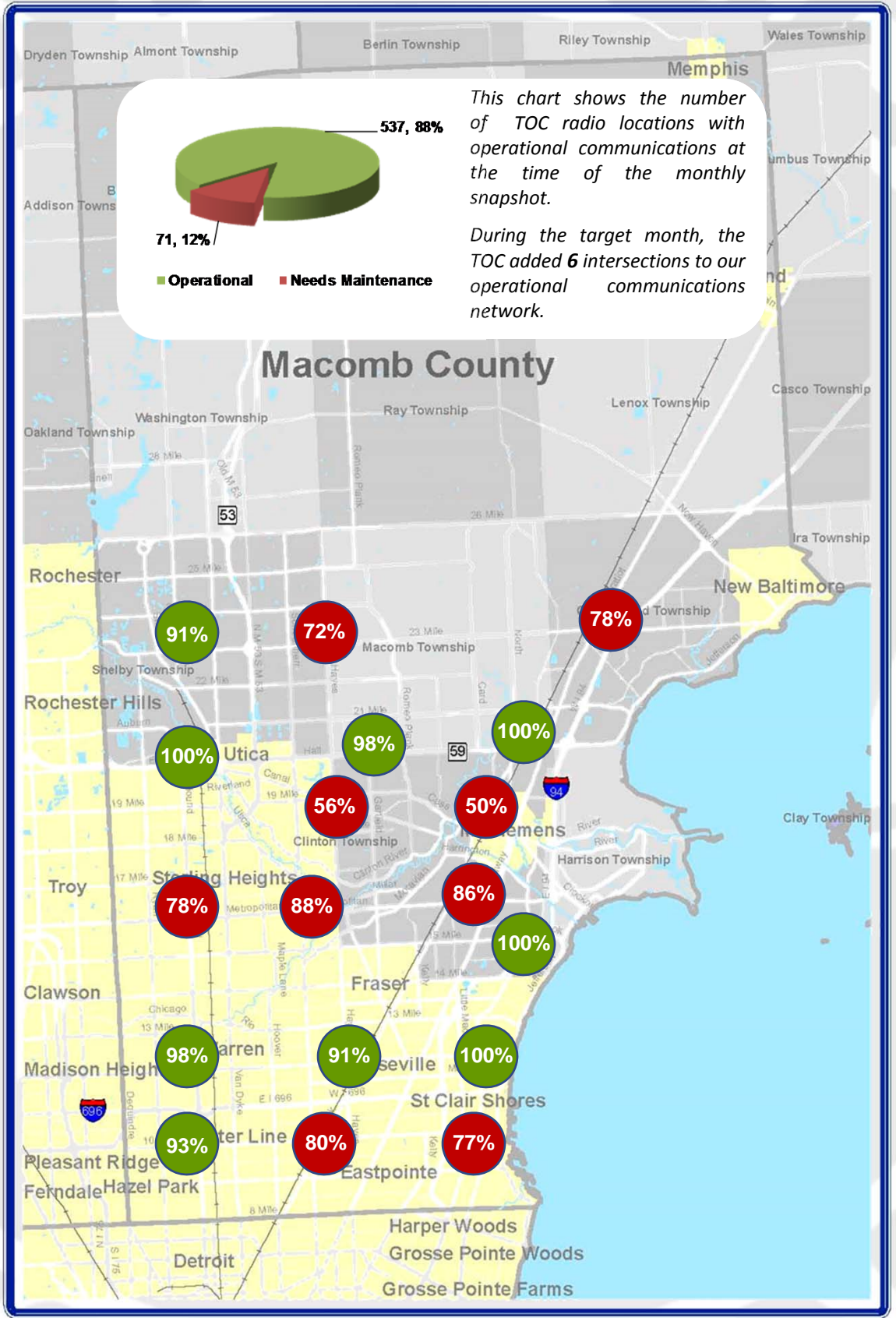


Compilation of the general field/console review types completed by the Traffic Operations Engineers. Field/console reviews are assigned after a public/stakeholder concern warrants an investigation. Reviews are either conducted in the field or at an Operator console through a network connection.

Regional Communications Summary

ITS MAINTENANCE

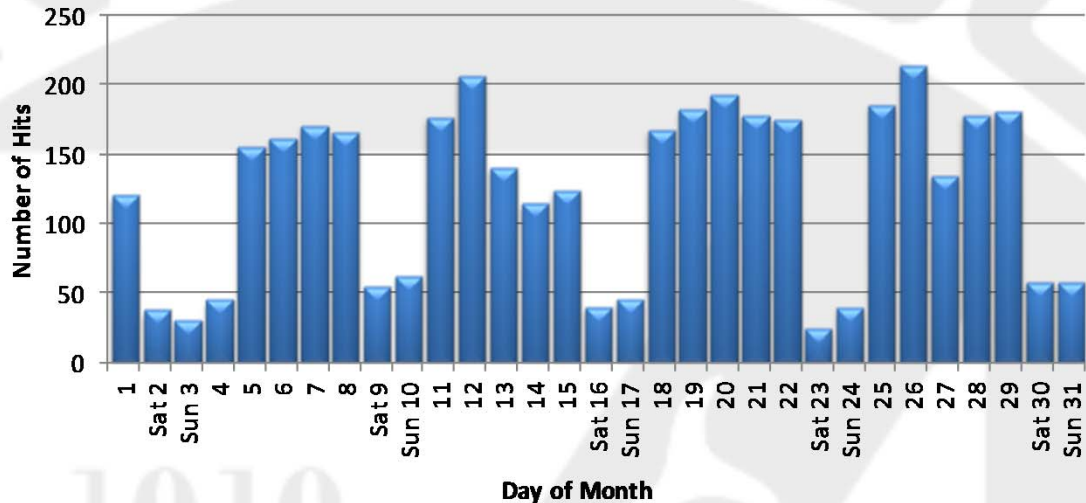
JULY 2016



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%	97%	0%
10 Mile	80%	80%	0%
I-696 Service Drive	100%	100%	0%
12 Mile	100%	97%	3%
14 Mile	100%	100%	0%
15 Mile	89%	94%	-5%
Metro Parkway	97%	97%	0%
Hall (M-59)	100%	100%	0%
Dequindre	92%	100%	-8%
Ryan	100%	100%	0%
Mound	100%	100%	0%
Hoover	100%	100%	0%
Schoenherr	100%	100%	0%
Hayes	100%	100%	0%
Gratiot (M-3)	100%	99%	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

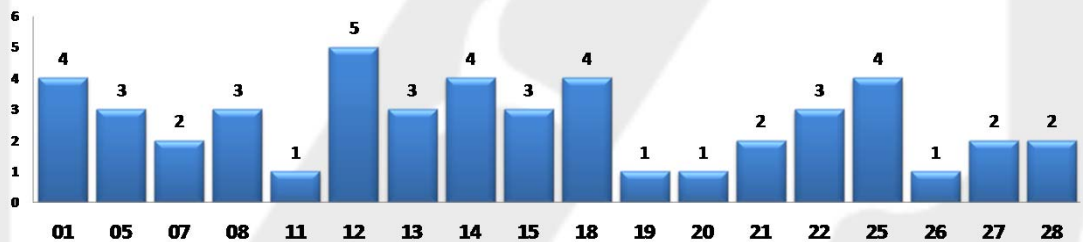
Date	Location	Organization	Upgrade
07/11/2016	002: Groveland at Martin	MCDR	D4 conversion
07/11/2016	620: Kelly at Frazho	MCDR	D4 conversion
07/11/2016	248: Kelly at Stephens	MCDR	D4 conversion
07/11/2016	251: Kelly at Toepfer	MCDR	D4 conversion
07/13/2016	352: M-53 (Van Dyke) at 18 Mile	MCDR	New signal install
07/22/2016	310: M-53 (Van Dyke) at Metro Parkway	MCDR	New signal install
07/22/2016	673: NB M-53 (Van Dyke) at cross-over South of Metro Parkway	MCDR	New signal install
07/22/2016	670: SB M-53 (Van Dyke) at cross-over North of Metro Parkway	MCDR	New signal install
07/22/2016	671: SB M-53 (Van Dyke) at cross-over East of Metro Parkway	MCDR	New signal install
07/25/2016	672: SB M-53 (Van Dyke) at cross-over West of Metro Parkway	MCDR	New signal install
07/26/2016	040: SB M-53 (Van Dyke) at cross-over North of 18 Mile	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 July, the TOC sent out 48 GovDelivery notifications, and increased the number of recipients from 310 to 314 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 (Van Dyke), 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 (Van Dyke) to 2500 feet East of M-53 (Van Dyke)

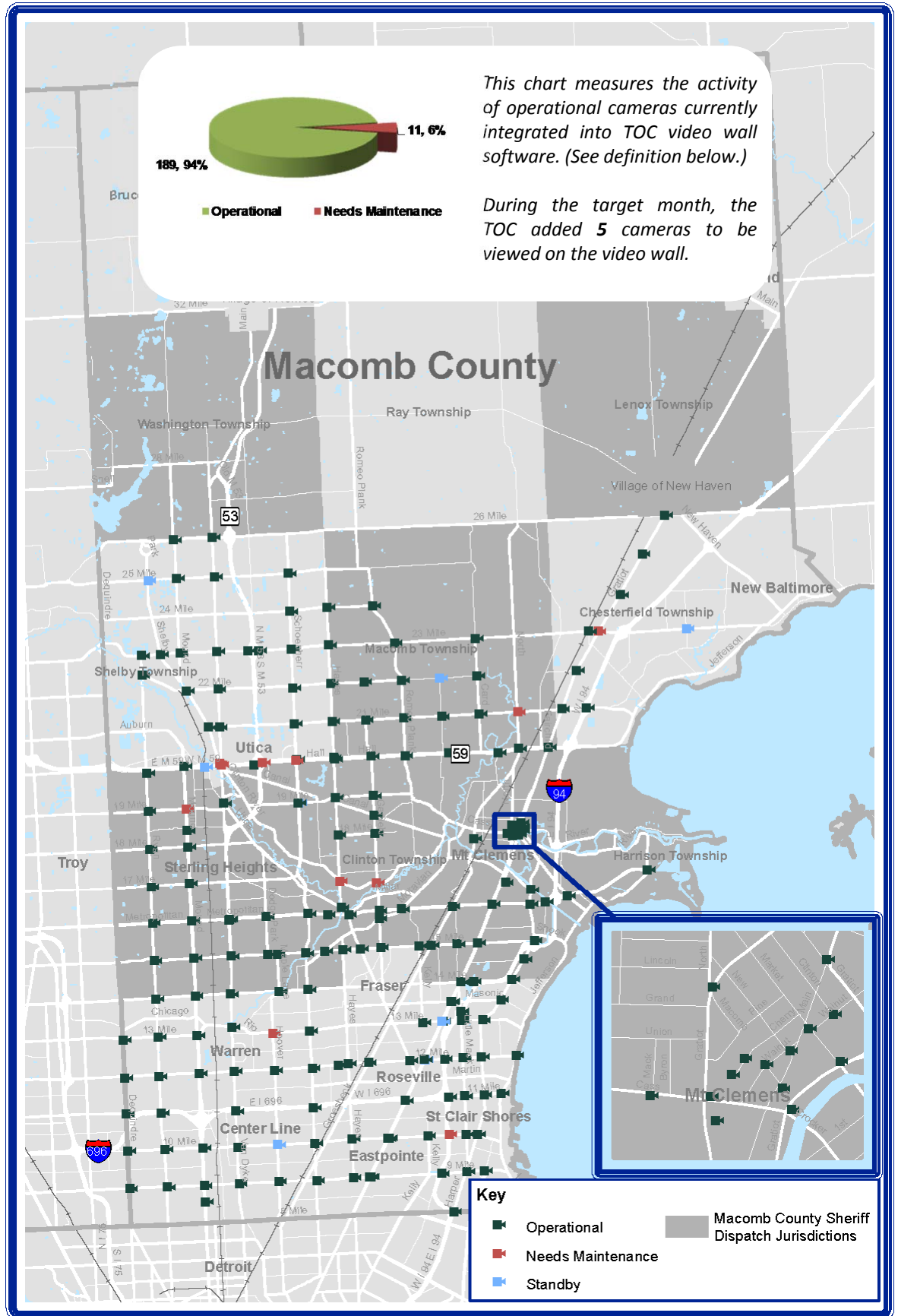
Out of the many projects that occur on Macomb County roads, these projects potentially have the most impact to motorists.



Current Camera Locations

CAMERA COVERAGE

JULY 2016



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

