

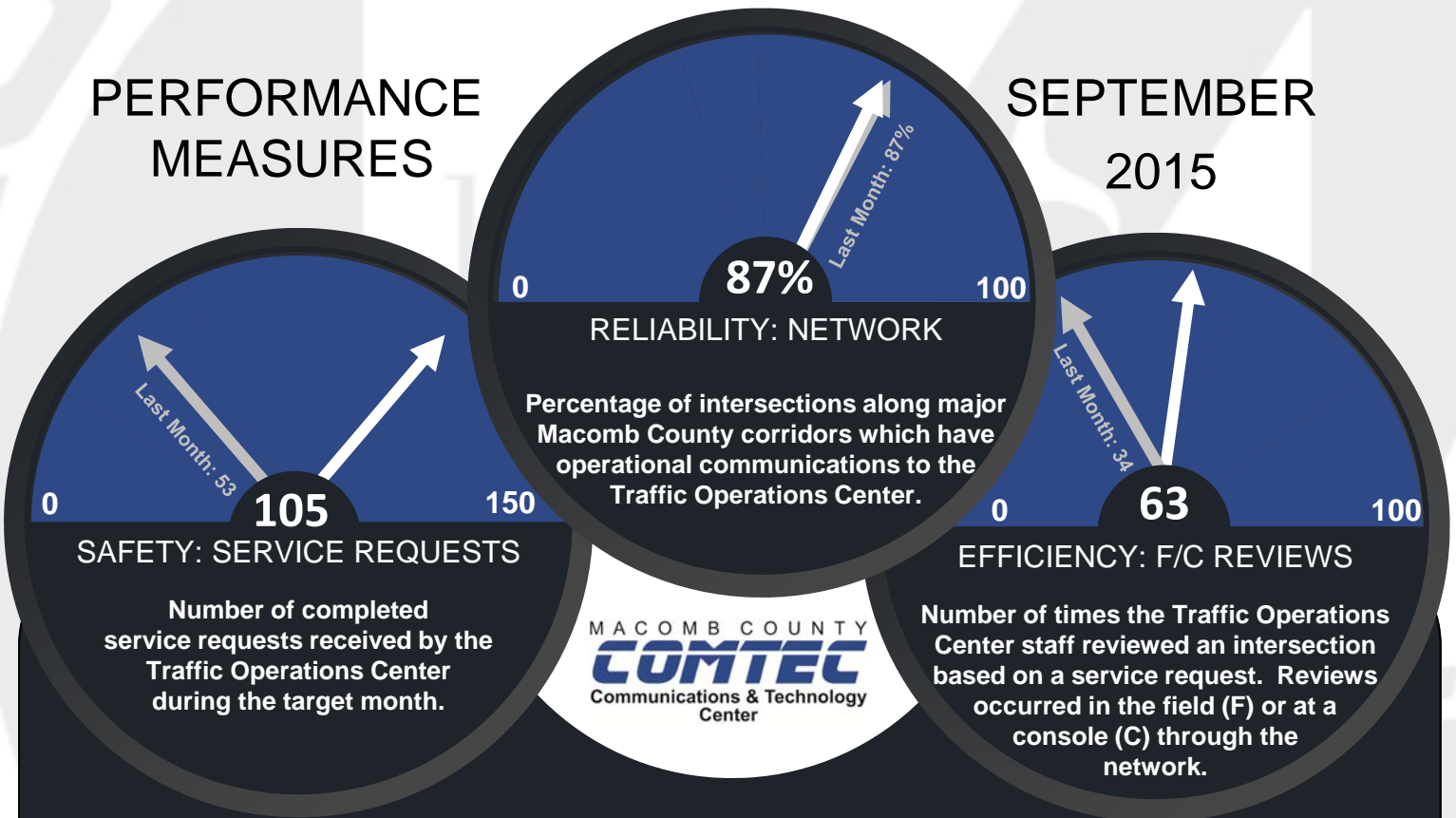
MACOMB COUNTY DEPARTMENT OF ROADS

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

SEPTEMBER 2015



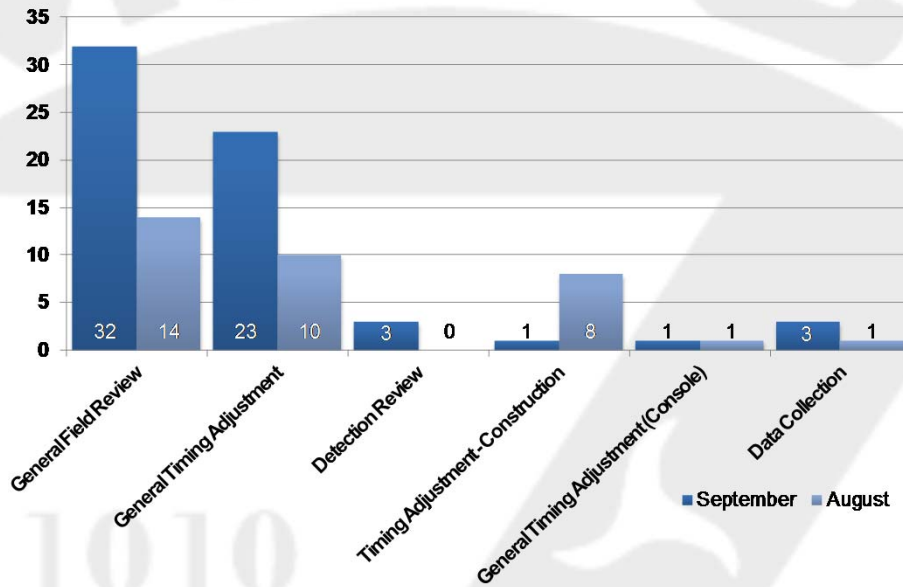
INFORMATIVE: TOC HIGHLIGHTS

Macomb County Department of Roads (MCDR) Traffic Operations Center (TOC) staff, with support from the MCDR Electrical personnel, completed the NexGenAM computerized maintenance management system field audit. The TOC team is now completing the final organizational steps to close out the task and implement the software into daily operations. Additionally, the operations engineers were able to attend informational classes regarding advanced traffic signal timing parameters. The Information Technology/Intelligent Transportations Systems (IT/ITS) team attended the Secure World Detroit Exposition. The exposition hosted classes and informational sessions about physical and digital network security. The team members that attended the exposition brought back valuable information to continue to maintain a safe and secure digital work environment.



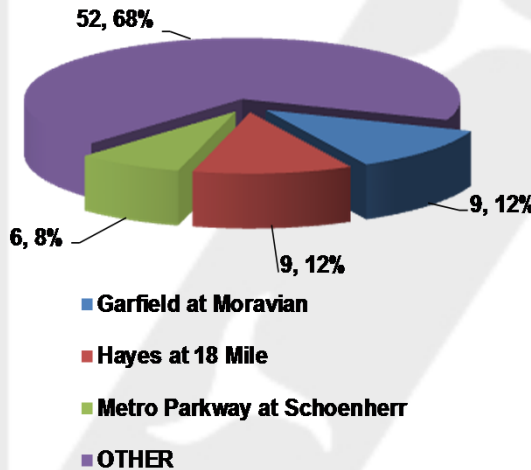
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Field/Console Reviews Completed



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.

Service Requests By Intersection



Motorists and public agencies contact the TOC to provide feedback on intersection functionality. This month, the intersections where TOC engineers focused attention to address the feedback were Garfield at Moravian, Hayes at 18 Mile, and Metro Parkway at Schoenherr.

Executed Roadway Upgrades

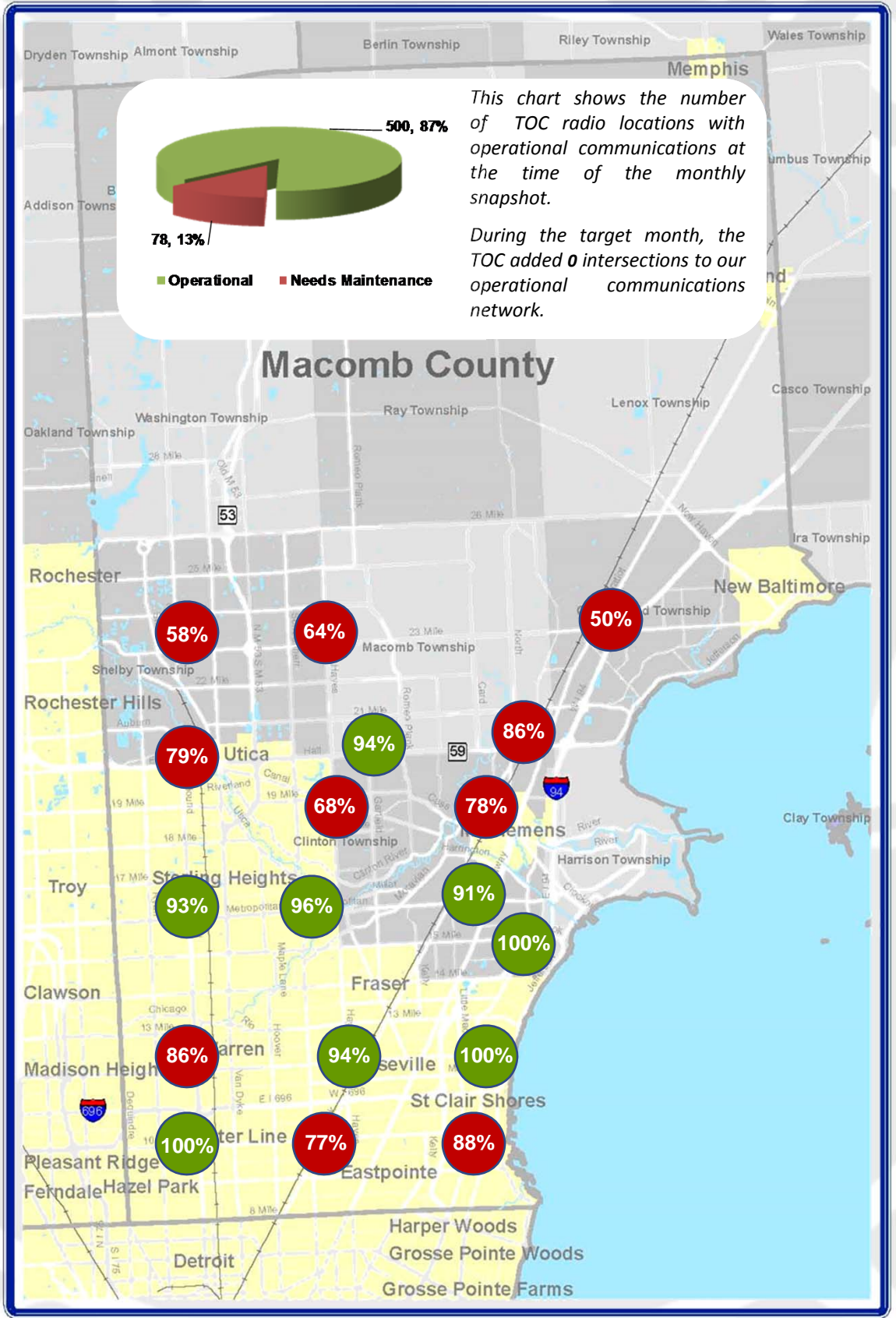
Date	Intersection Identification	Organization	Upgrade
09/14/2015	339: 14 Mile at Schoenherr	MCDR	Construction - phase omits

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

Regional Communications Summary

ITS MAINTENANCE

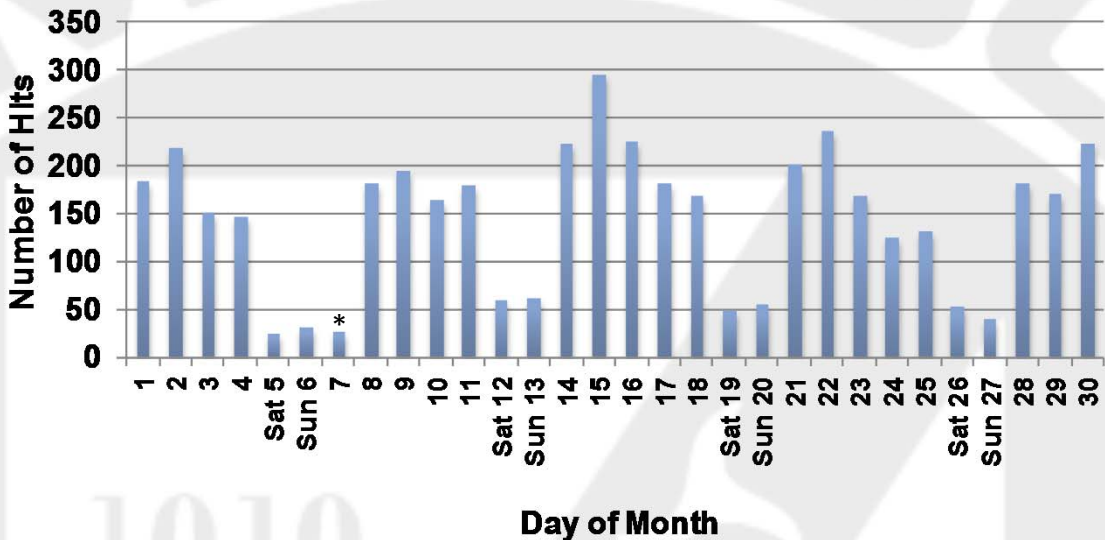
SEPTEMBER 2015



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



* Less than normal on a weekday Monday due to the Labor Day holiday.

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	100%	100%	0%
10 Mile	100%	90%	10%
I-696 Service Drive	100%	100%	0%
12 Mile	100%	100%	0%
14 Mile	100%	100%	0%
15 Mile	100%	100%	0%
Metro Parkway	92%	92%	0%
Hall (M-59)	96%	100%	-4%
Dequindre **	31%	100%	-69%
Ryan	100%	92%	8%
Mound	100%	98%	2%
Hoover	100%	100%	0%
Schoenherr	100%	100%	0%
Hayes	100%	95%	5%
Gratiot (M-3)	97%	99%	-2%
Harper	100%	100%	0%

** There was a major outage (09-30-15) on Dequindre that affected communication with Pole 4.

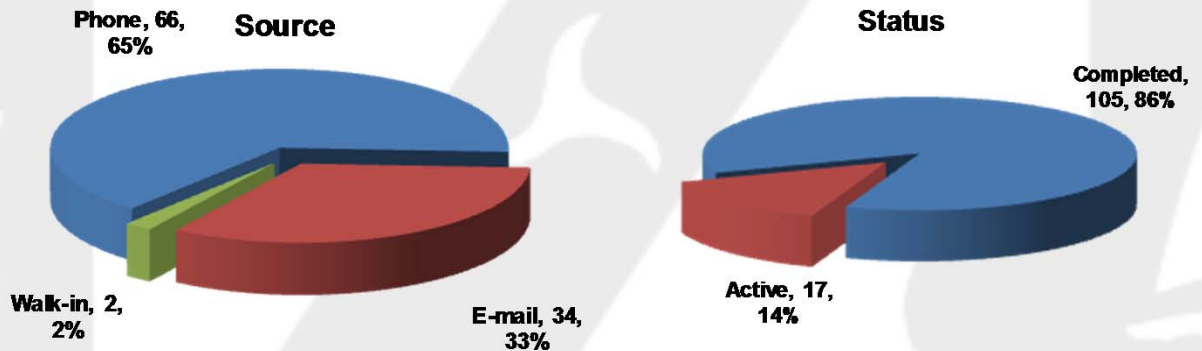
The table above represents a one-time monthly snapshot of communications along major corridors in Macomb County. Corridors which are considered to have operational communications (90% and above) are shown in green, while corridors found not to have operational communications (<90%) at the time of the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

Frequent Crash Locations

Jurisdiction	Intersection Identification	Crashes
Chesterfield Township	Gratiot (M-3) at 21 Mile	9
Fraser	Groesbeck (M-97) at 14 Mile	8
Warren	Groesbeck (M-97) at 11 Mile (EB I-696 Service Drive)	7
Clinton Township	Groesbeck (M-97) at 15 Mile	7
Clinton Township	Hayes at 19 Mile	7
Chesterfield Township	23 Mile at Gratiot (M-3)	7
Clinton Township	Groesbeck (M-97) at Carlier	7
Clinton Township	Hall (M-59) at Romeo Plank	7
Sterling Heights	Van Dyke (M-53) at Metropolitan Parkway	7
Macomb Township	23 Mile at Romeo Plank	6
Shelby Township	23 Mile at Van Dyke (M-53)	6
Sterling Heights	Mound at Metropolitan Parkway	6
Sterling Heights	Schoenherr at Utica	6

Utilizing crash data from Michigan State Police, the top ten intersections by number of crashes.
 Note: the crash data is from August 2015 due to delayed availability of data.

Customer Service Communications



Source of service requests taken by Traffic Operations Center staff during the target report month.

Status of all service requests closed by Traffic Operations Center staff through the end of the month.

Major Construction and Maintenance

Project Parameters	Start Date	Approximate Completion Date	Location(s)
Construction	03/26/2015	To be determined	32 Mile between Powell and Romeo Plank
Construction	10/29/2014 updated 06/05/2015	To be determined	24 Mile between Schoenherr and Hayes
Construction	06/18/2015	To be determined	24 Mile between Van Dyke (M-53) and Jewell
Construction	06/18/2015	To be determined	WB 24 Mile from Brookfield to Shelby
Construction	07/06/2015	11/01/2015	EB Metro from I-94 to Jefferson
Construction	07/20/2015	05/15/2016	Metro Parkway between Groesbeck (M-97) and Gratiot (M-3)
Construction	07/27/2015	09/04/2015	Irwin over Coon Creek Bridge
Construction	07/30/2015	To be determined	31 Mile east of Mt. Vernon across the Stoney Creek (Bridge)
Construction	07/30/2015	To be determined	27 Mile east of Hayes across the Stoney Creek (Bridge)
Construction	08/06/2015	11/01/2015	14 Mile from Hayes to Utica
Construction	08/24/2015	09/28/2015	21 Mile over Crittenden Drain Culvert Extension
Construction	08/24/2015	11/06/2015	Archer Drive (Bridge) over channel to lake St. Clair
Construction	09/14/2015	11/01/2015	22 Mile Culvert over Clinton-Kalamazoo Canal
Construction	09/14/2015	09/30/2015	14 Mile and Schoenherr
Construction	05/18/2015 updated 09/18/2015	09/01/2015	Luchtman between 25 Mile and 26 Mile
Construction	09/19/2015	11/01/2015	Shelby Road bridge/Culvert just north of 22 Mile
Construction	09/21/2015	10/30/2015	Omo Road between Armada Ridge and Armada Center

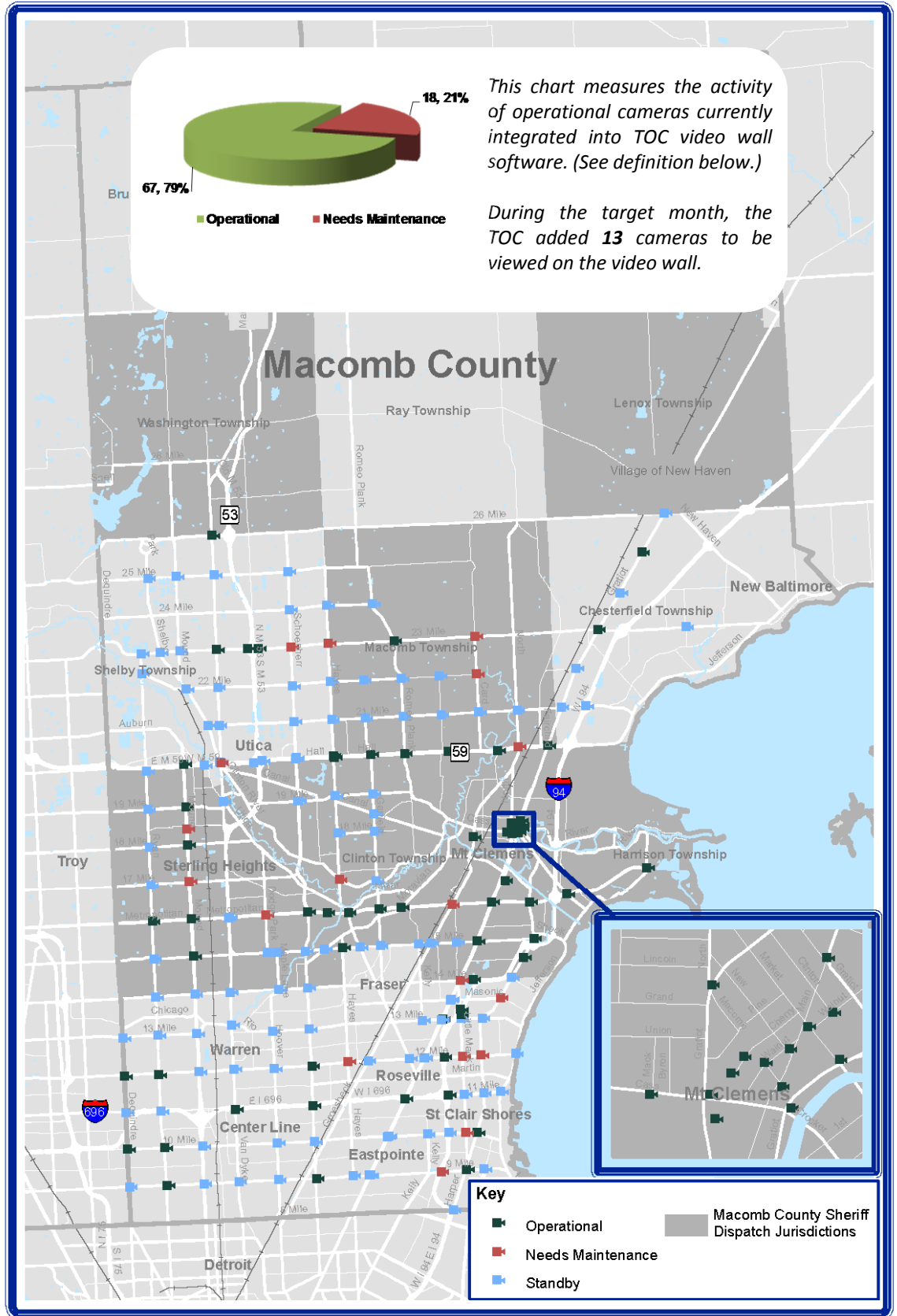
Out of the many projects that occur on Macomb County roads, these projects potentially have the most impact to motorists.



Current Camera Locations

CAMERA COVERAGE

SEPTEMBER 2015



Cameras currently deployed and under Macomb County Department of Roads jurisdiction.

Cameras considered operational were available 90% of the target month.

Cameras needing maintenance were available for less than 90% of the target month.

Cameras in "Standby" have not yet been integrated into TOC video wall software.

