



Willowbrook Police Department

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Chief of Police

Robert Schaller

May 28th, 2020

Illinois Department of Transportation
Traffic Operations Bureau Chief
201 West Center Court
Schaumburg, IL 60196

INTRODUCTION:

Per the Illinois Compiled Statute, 625 ILCS 5/11.208.6 Automated Traffic Law Enforcement System:

(k-7) A municipality or county operating an automated traffic law enforcement system shall conduct a statistical analysis to assess the safety impact of each automated traffic law enforcement system at an intersection following installation of the system. The statistical analysis shall be based upon the best available crash, traffic, and other data, and shall cover a period of time before and after installation of the system sufficient to provide a statistically valid comparison of safety impact. The statistical analysis shall be consistent with professional judgment and acceptable industry practice. The statistical analysis also shall be consistent with the data required for valid comparisons of before and after conditions and shall be conducted within a reasonable period following the installation of the automated traffic law enforcement system. The statistical analysis required by this subsection (k-7) shall be made available to the public and shall be published on the website of the municipality or county. If the statistical analysis for the 36 month period following installation of the system indicates that there has been an increase in the rate of accidents at the approach to the intersection monitored by the system, the municipality or county shall undertake additional studies to determine the cause and severity of the accidents, and may take any action that it determines is necessary or appropriate to reduce the number or severity of the accidents at that intersection.

The Village of Willowbrook currently has an active Red Light Running (RLR) program implemented at three intersections located along Kingery Highway (Route 83). The program was partially implemented in September of 2009 with the installation of RLR cameras at the intersections of 63rd Street and 75th Street. The second phase of implementation concluded with the installation of the RLR camera at the third intersection of Midway Drive.

This is the Village of Willowbrook's third RLR camera evaluation and contains data from three years prior to implementation (2006-2008), as well as data post implementation (2009-2019).

SUMMARY:

Intersection locations with Red Light Running camera monitored approaches *

- Kingery Highway (Route 83) at the intersection of 63rd Street (northbound/southbound only, with left turn)
- Kingery Highway (Route 83) at the intersection of 75th Street (northbound/southbound only, with left turn)
- Midway Drive (northbound only, and left turn) at the intersection of Route 83.

**No eastbound or westbound red-light enforcement*

Implementation Timeline Information

- RLR cameras went live in September 2009 for 63rd Street and 75th Street
- RLR cameras went live in April 2010 for Midway Drive
- RLR camera for right turn on red removed June 2015 from Midway Drive
- RLR cameras at 63rd Street suspended during road construction between June 2015-September 2017

Manufacturer and Contractor

- Verra Mobility
1150 N. Alma School Road
Mesa, AZ 85201
- Meade Electric Contractor

Signal Timing

- There were no signal timing changes after RLR camera installation. All timing of signals controlled by I.D.O.T.

Traffic Volumes

- Average daily traffic volumes on Kingery Highway 49,000 – 56,000 vehicles per day. Data obtained from the Illinois Department of Transportation's website www.gettingaroundillinois.com .

DATA & ANALYSIS:

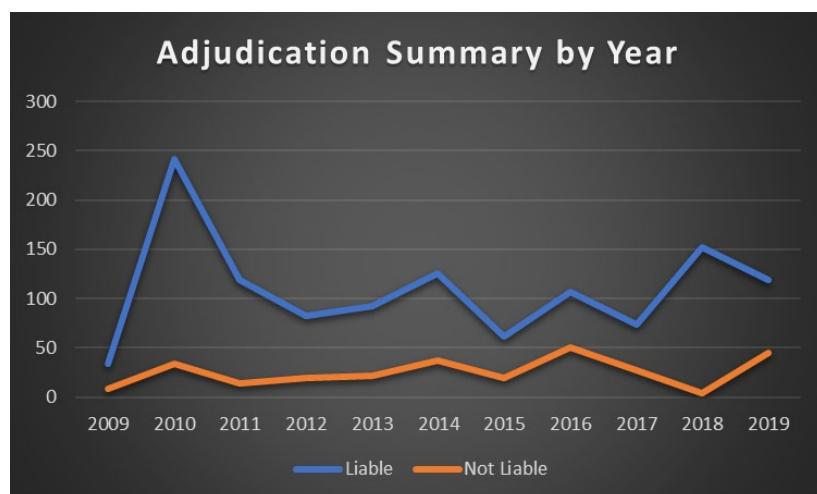
SUMMARY OF TURNING, ANGLE, & REAR END CRASHES BY INTERSECTION

63rd ST/ Kingery HWY					75th ST/ Kingery HWY					Midway DR/ Kingery HWY					
Rear end	Angle	Turning	Other	Total	Rear end	Angle	Turning	Other	Total	Rear end	Angle	Turning	Other	Total	
2006	23	-	12	3	38	16	-	17	3	36	9	3	7	-	19
2007	23	1	5	2	31	37	1	9	-	47	9	2	-	-	11
2008	22	1	4	1	28	19	-	6	1	26	5	1	3	2	11
2009	20	-	4	-	24	22	-	3	1	26	1	-	-	-	1
2010	16	1	6	1	24	16	-	5	4	25	12	-	-	-	12
2011	13	2	-	1	16	24	-	1	1	26	3	-	1	-	4
2012	15	-	-	3	18	15	-	2	1	18	14	-	1	-	15
2013	29	-	3	-	32	19	-	7	-	26	5	-	-	1	6
2014	18	-	2	1	21	19	-	1	3	23	3	-	2	2	7
2015	18	2	4	3	27	16	-	6	-	22	10	-	3	-	13
2016	5	1	2	1	9	16	1	8	1	26	3	2	2	-	7
2017	21	-	3	1	25	9	1	4	-	14	9	-	2	2	13
2018	19	-	8	3	30	19	3	12	1	35	10	1	2	1	14
2019	10	-	6	1	17	17	1	7	-	25	5	-	2	-	7

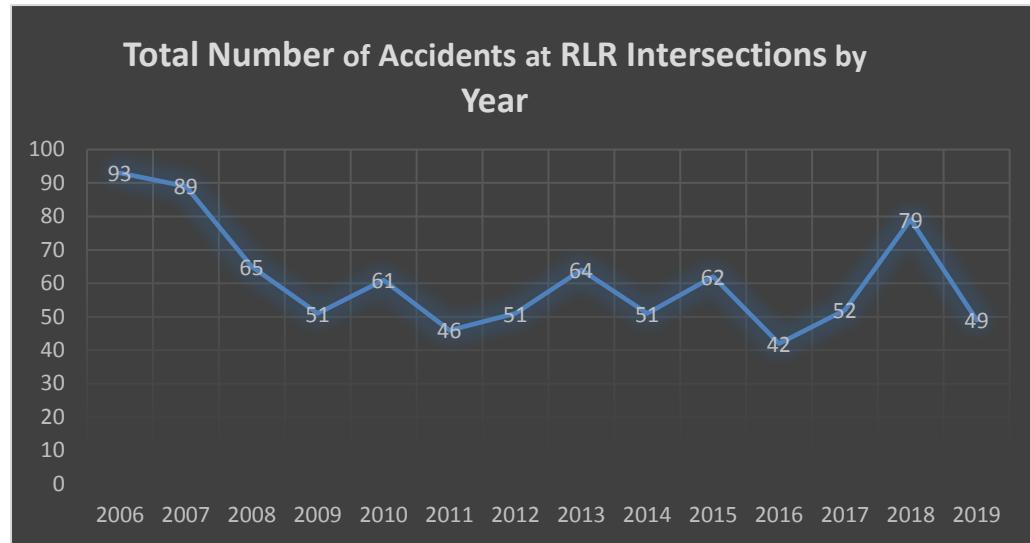
DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation. Any conclusions drawn from analysis of the aforementioned data are the sole responsibility of the data recipient(s). Additionally, for coding years 2015 to present, the Bureau of Data Collection uses the exact latitude/longitude supplied by the investigating law enforcement agency to locate crashes. Therefore, location data may vary in previous years since data prior to 2015 was physically located by bureau personnel. . The data includes ALL accidents at the intersections listed above regardless of direction. The Village of Willowbrook RLR program does not have monitored approaches for all directions of travel. Please see summary section for details on monitored approaches.

ADJUDICATION SUMMARY BY YEAR

Year	Liable	Not Liable
2009	34	8
2010	242	34
2011	119	14
2012	83	20
2013	92	22
2014	125	37
2015	61	19
2016	107	50
2017	74	27
2018	152	4
2019	119	45
Total	1208	280



CONCLUSION:



Pre-RLR Camera Implementation for year: 2006, 2007, & 2008.

63rd ST/Kingery HWY (RT 83)
Total Accidents: 97

75th ST/Kingery HWY (RT 83)
Total Accidents: 109

Midway DR/Kingery HWY (RT 83)
Total Accidents: 41

Post-RLR Camera Implementation for year: 2017, 2018, & 2019

63rd ST/Kingery HWY (RT 83)
Total Accidents: 72
26% reduction

75th ST/Kingery HWY (RT 83)
Total Accidents: 74
32% reduction

Midway DR/Kingery HWY (RT 83)
Total Accidents: 34
17% reduction

At all three RLR camera approach locations, overall accidents have decreased. Since RLR camera installation, there have been no traffic related fatalities at the camera monitored intersections. The cameras have continued to act as a deterrent for red light running motorists and serve as an educational awareness for motorists to continue to stay vigilant and aware of red light equipped intersections. The traffic volume on Kingery Highway (Route 83) that travels through the Village of Willowbrook is very steady and considerable. As accident data shows, the cameras are having a positive impact on accident reduction.

ADJUDICATION SUMMARY AND RESULTS:

Between 2017 and 2019 there were 26,511 RLR citations issued in the Village of Willowbrook which is an average of 736 citations per month. Of those citations issued, 471 were adjudicated during 33 separate hearing dates with an average of 14 per hearing. The results for the 471 adjudicated citations are as follows:

-4 plead liable
-122 found not liable
-345 found liable

Currently to date the Village of Willowbrook RLR program has a citation issuance rate of 87%. The issuance rates for 2017, 2018, and 2019 were 90%, 93%, and 92% respectively.

RECOMMENDATIONS:

Our recommendation to further reduce red light violations and severe crashes is to continue the camera operations along with a vigilant police presence. Our combined efforts and traffic enforcement will continue to deter unsafe driving habits while improving driver awareness.