



A Red Light Running (RLR) Photo Enforcement System was installed at the intersection of Roosevelt Road (IL 38) and Winfield Road on February 1, 2011, after finding limited success with other attempted measures to promote safer driving and improve compliance with traffic laws. As a condition of use, both Illinois law and the Illinois Department of Transportation require periodic statistical analyses / evaluations be conducted.

Specifically, the Illinois Compiled Statutes, 625 ILCS 5/11-208.6 Automated Traffic Law Enforcement System states:

(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 Illinois Department of Transportation Safety Engineering Policy Memorandum, Safety 2-13, Automated Traffic Law Enforcement Systems: Red Light Running (RLR) Camera Enforcement Systems and Automated Railroad Grade Crossing (RGC) Enforcement Systems states:

Follow Up Evaluation

An Evaluation Report shall be prepared by the Permit Applicant one year after the installation and shall be prepared every three years thereafter. The Evaluation Report shall include the following:

- *Intersection location(s);*
- *Date of implementation;*
- *RLR Camera System manufacturer and contractor name;*
- *Crash data specific to RLR location(s) for the three (3) year period prior to and for the period post RLR Camera installation;*
- *An analysis of the crash data, including a summary of any increase in crash types;*
- *Signal timing and other settings before and after RLR Camera installation;*
- *Traffic volumes before and after RLR Camera System installation; and,*
- *Summary of adjudication experience and results.*

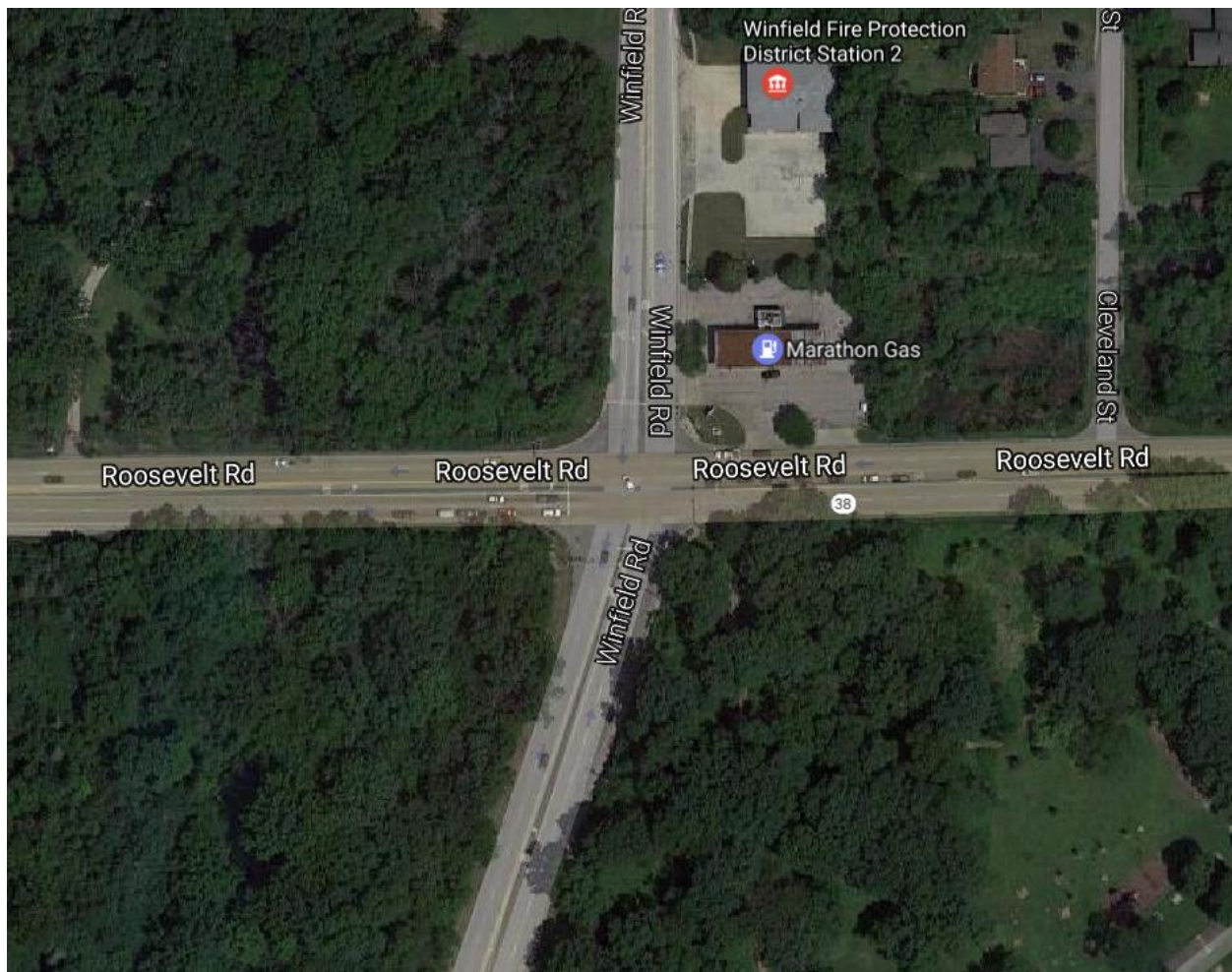
The following statistical analysis was performed through 2018.

Calendar year 2019 was not included, as the Illinois Department of Transportation (IDOT) has not yet completed collecting all data. The statistical analysis will be updated annually, as IDOT collected data becomes available for release.



Roosevelt Rd. & Winfield Rd. Winfield, IL

- RLR Photo Enforcement System monitors violations occurring on the eastbound approach of the intersection
- RLR Photo Enforcement System installed: February 1, 2011
- Traffic signal timing strictly adheres to the guidelines for timing of clearances established by the Illinois Department of Transportation (IDOT), in accordance with the MUTCD standards. Neither the Vendor nor the Village has access to or influence over the establishment of signal timings. Both entities understand that tampering with these timings would be a safety violation with significant consequences.





Roosevelt Rd. & Winfield Rd. - Northbound Approach



Roosevelt Rd. & Winfield Rd. - Southbound Approach





Roosevelt Rd. & Winfield Rd. - Eastbound Approach



Roosevelt Rd. & Winfield Rd. - Westbound Approach



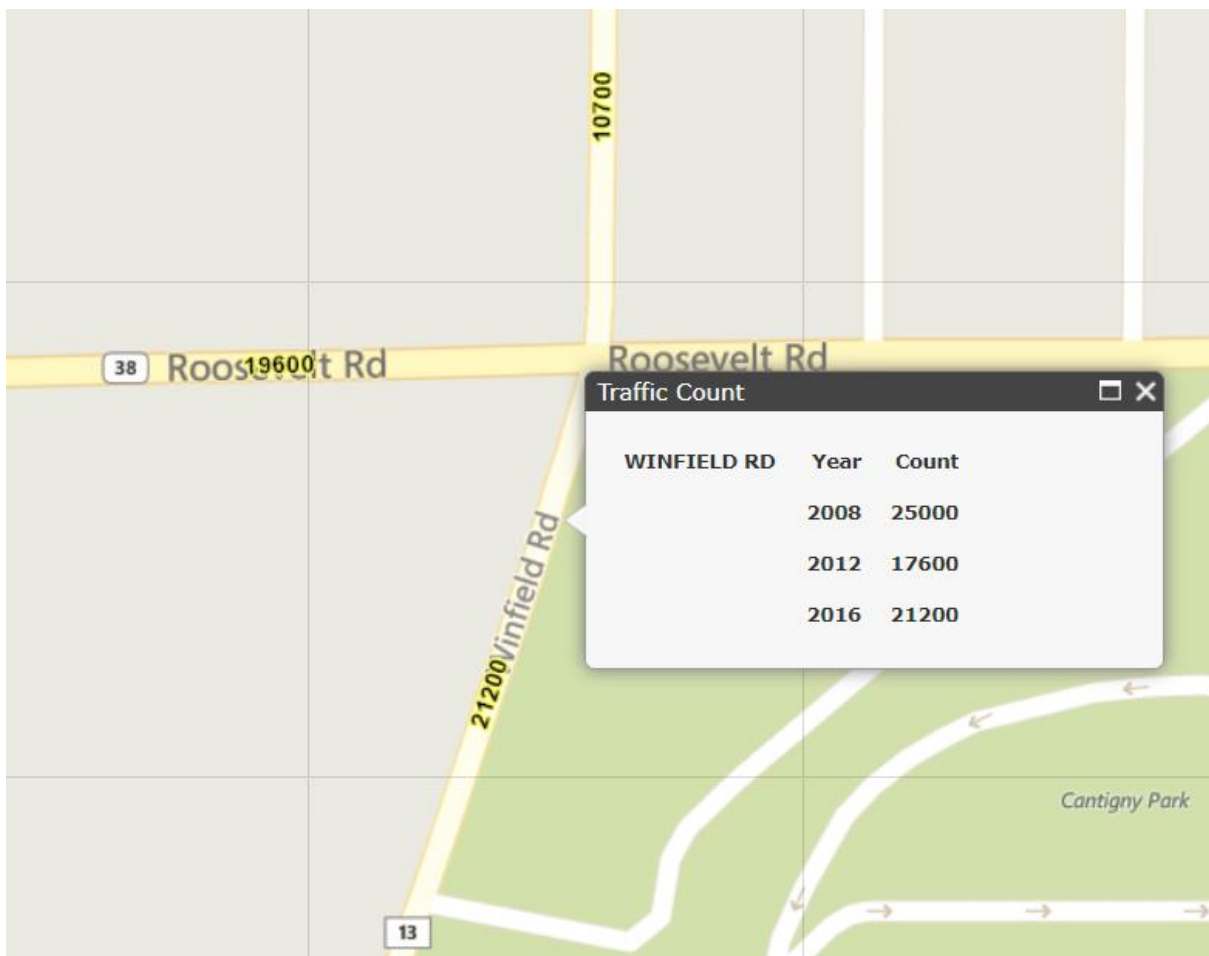


Average Daily Traffic

Data was obtained from the Illinois Department of Transportation's website www.gettingaroundillinois.com.

Roosevelt Rd. & Winfield Rd. (Northbound)

- 25,000 (2008)
- 17,600 (2012)
- 21,200 (2016)



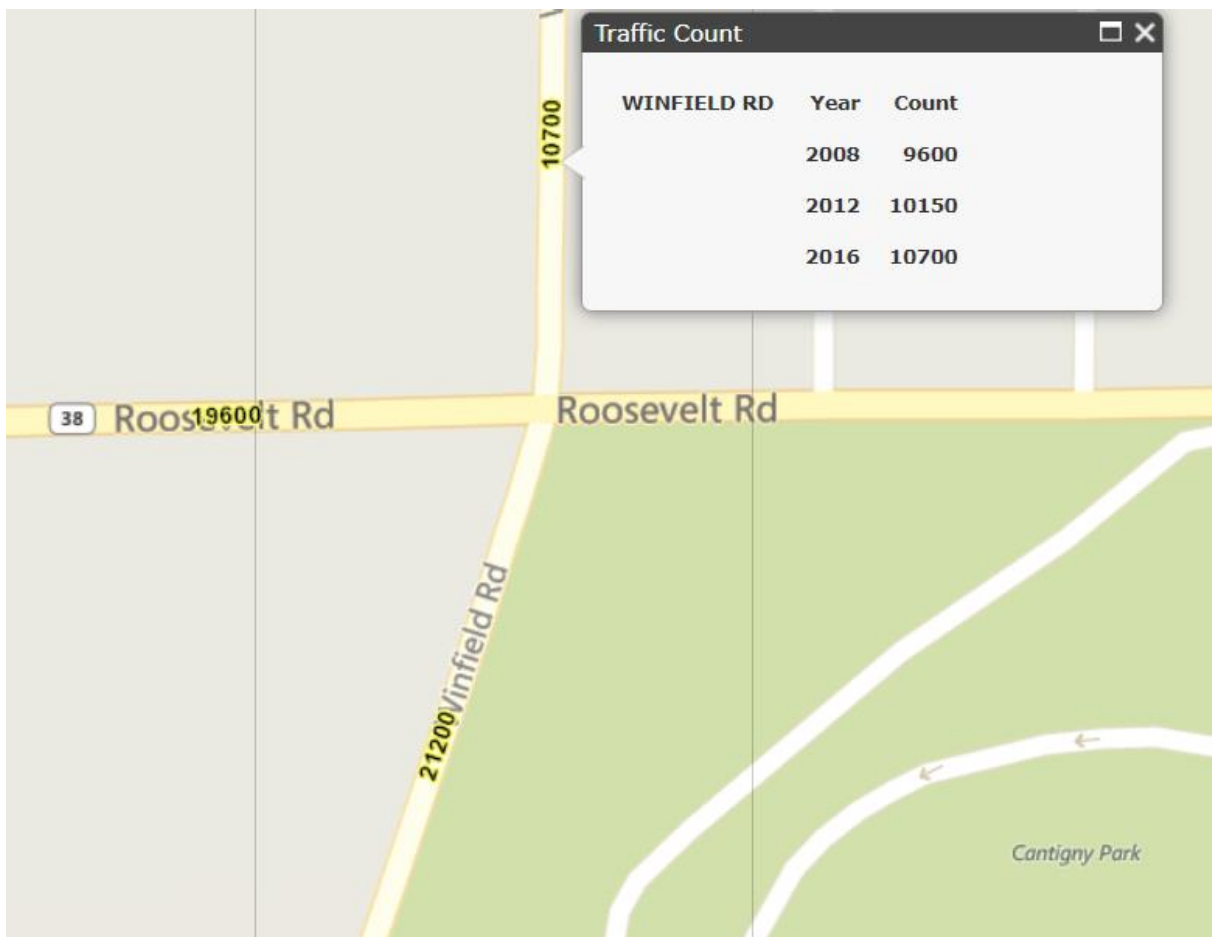


Average Daily Traffic Cont'd

Data was obtained from the Illinois Department of Transportation's website www.gettingaroundillinois.com.

Roosevelt Rd. & Winfield Rd. (Southbound)

- 9,600 (2008)
- 10,150 (2012)
- 10,700 (2016)



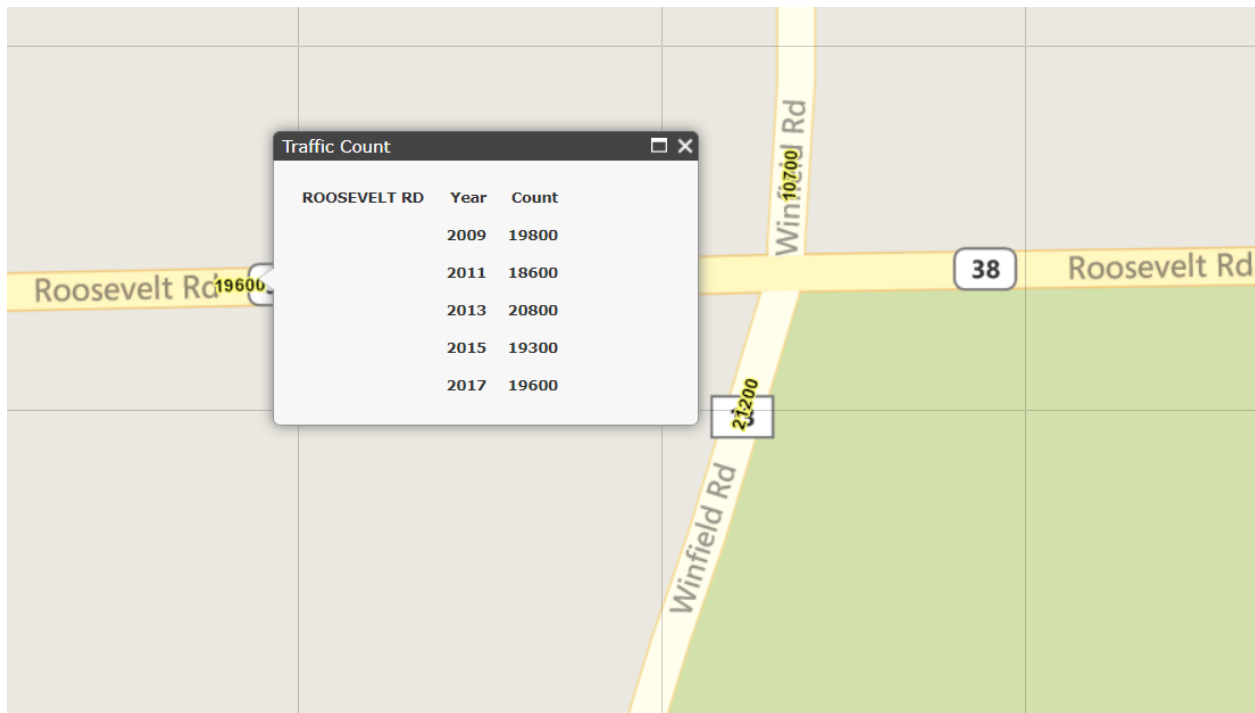


Average Daily Traffic Cont'd

Data was obtained from the Illinois Department of Transportation's website
www.gettingaroundillinois.com.

Roosevelt Rd. & Winfield Rd. (Eastbound)

- 19,800 (2009)
- 18,600 (2011)
- 20,800 (2013)
- 19,300 (2015)
- 19,600 (2017)



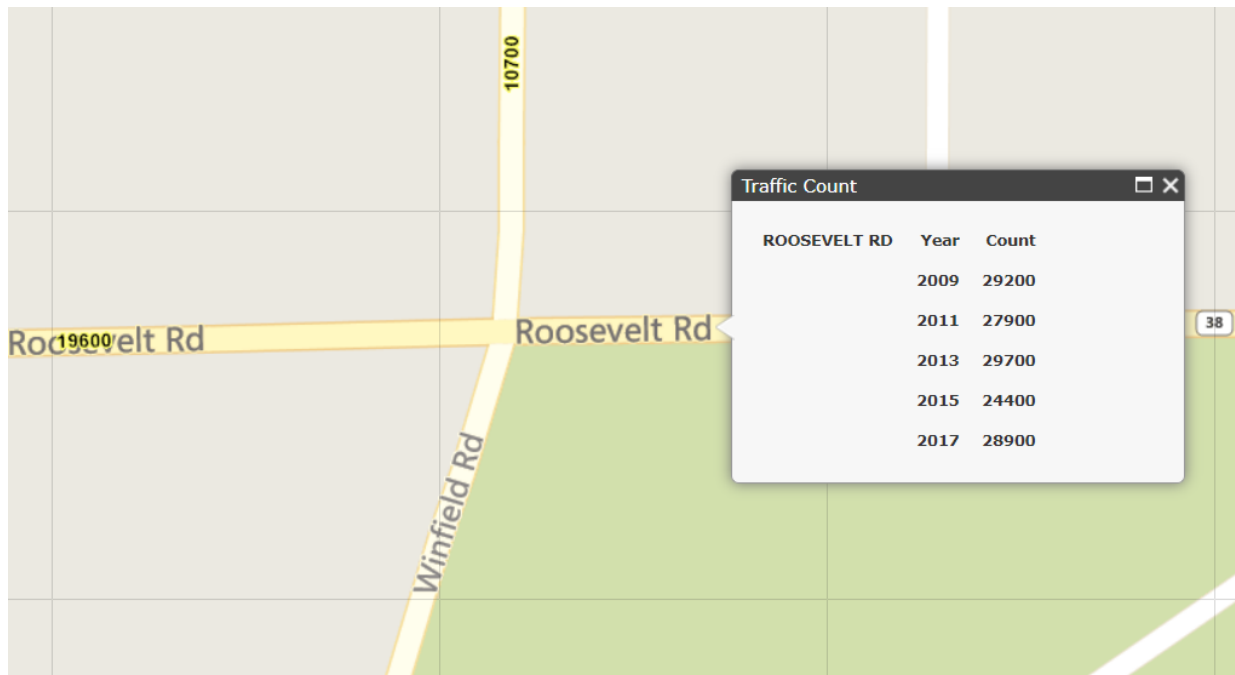


Average Daily Traffic Cont'd

Data was obtained from the Illinois Department of Transportation's website
www.gettingaroundillinois.com.

Roosevelt Rd. & Winfield Rd. (Westbound)

- 29,200 (2009)
- 27,900 (2011)
- 29,700 (2013)
- 24,400 (2015)
- 28,900 (2017)





Adjudication Experience

RLR camera violations are contested and adjudicated through an administrative hearing conducted each month. Adjudication data for the Village’s Automated Enforcement Program is shown below in Table 1.

VILLAGE OF WINFIELD ADJUDICATION FOR AUTOMATED PHOTO ENFORCEMENT PROGRAM		
YEAR /TOTALS	LIABLE	NOT LIABLE
2011	270	44
2012	297	43
2013	258	25
2014	344	27
2015	215	23
2016	185	17
2017	368	57
2018	343	51
2019	202	30
TOTAL:	2,482	317

Table 1

The high quality video footage and photographic evidence produced by the enforcement system is a contributing factor in a majority of the contested RLR violations being upheld by the Hearing Officer. The police officers assigned to review and approve/reject potential violations are vigilant in applying the same officer discretion and criteria they would if issuing an in-person citation, resulting in only highly prosecutable violations being mailed out.



Crash History and Analysis

- Table 2 includes crash data obtained from the Illinois Department of Transportation, detailing angle, turning, rear-end, and other type crashes occurring at the intersection pre/post RLR Photo Enforcement System installation.

ALL INTERSECTION APPROACHES

	Crashes								
	Rear-End (% of Total)		Angle (% of Total)		Turning (% of Total)		Other (% of Total)		Total
2008	18	58.1%	3	09.7%	10	32.2%	0	00.0%	31
2009	5	27.8%	0	00.0%	11	61.1%	2	11.1%	18
2010	8	50.0%	0	00.0%	8	50.0%	0	00.0%	16
Total	31	47.7%	3	04.6%	29	44.6%	2	03.1%	65
2008-2010 Average	10.3		1.0		9.7		0.7		21.7

RLR Camera Installation 02/01/11									
2011	4	23.5%	2	11.8%	11	64.7%	0	00.0%	17
2012	8	38.1%	1	04.8%	12	57.1%	0	00.0%	21
2013	10	38.5%	3	11.5%	11	42.3%	2	07.7%	26
2014	10	45.5%	0	00.0%	11	50.0%	1	04.5%	22
2015	5	31.3%	2	12.5%	7	43.7%	2	12.5%	16
2016	6	30.0%	0	00.0%	11	55.0%	3	15.0%	20
2017	2	28.6%	1	14.3%	4	57.1%	0	00.0%	7
2018	12	33.3%	2	07.4%	9	33.3%	4	14.8%	27
Total	53	38.1%	9	06.5%	65	46.8%	12	08.6%	139
2012-2018 Average	7.6		1.3		9.3		1.7		19.9

- Other indicates the following: Pedestrian, Pedal Cyclist, Fixed Object, Sideswipe, Head-On and Unknown

Table 2

DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation, based upon information derived from multiple sources. 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 prior years, since the data prior to 2015 was physically located by bureau personnel. Given the subjective nature of the reporting process, the modifications in the incident locating protocols and the changes to the crash reporting thresholds effective 2009, the Village of Winfield acknowledges the potential for discrepancies in the final conclusions drawn.



Crash History and Analysis (continued)

- Table 3 includes crash data obtained from the Illinois Department of Transportation, detailing angle, turning, rear-end, and other-type crashes occurring at the intersection on the eastbound approach only, pre/post RLR Photo Enforcement System installation.

**EASTBOUND APPROACH ONLY
 (PHOTO ENFORCED APPROACH)**

	Crashes								
	Rear-End (% of Total)		Angle (% of Total)		Turning (% of Total)		Other (% of Total)		Total
2008	7	53.8%	1	07.7%	5	38.5%	0	00.0%	13
2009	1	12.5%	0	00.0%	7	87.5%	0	00.0%	8
2010	2	28.6%	0	00.0%	5	71.4%	0	00.0%	7
Total	10	35.7%	1	03.6%	17	60.7%	0	00.0%	28
2008-2010 Average	3.3		0.3		5.7		0.0		9.3

RLR Camera Installation 02/01/11									
2011	1	11.1%	1	11.1%	7	77.7%	0	00.0%	9
2012	2	20.0%	0	00.0%	8	80.0%	0	00.0%	10
2013	1	12.5%	2	25.0%	5	62.5%	0	00.0%	8
2014	1	12.5%	0	00.0%	7	87.5%	0	00.0%	8
2015	3	42.8%	1	14.3%	2	28.6%	1	14.3%	7
2016	0	00.0%	0	00.0%	7	100.0%	0	00.0%	7
2017	1	20.0%	1	20.0%	3	60.0%	0	00.0%	5
2018	5	38.5%	0	00.0%	7	53.8%	1	07.7%	13
Total	13	22.4%	4	06.9%	39	67.2%	2	03.4%	58
2012-2018 Average	1.9		0.6		5.6		0.3		8.3

- Other indicates the following: Pedestrian, Pedal Cyclist, Fixed Object, Sideswipe, Head-On and Unknown

Table 3

DISCLAIMER: The motor vehicle crash data referenced herein was provided by the Illinois Department of Transportation, based upon information derived from multiple sources. 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 prior years, since the data prior to 2015 was physically located by bureau personnel. Given the subjective nature of the reporting process, the modifications in the incident locating protocols and the changes to the crash reporting thresholds effective 2009, the Village of Winfield acknowledges the potential for discrepancies in the final conclusions drawn.



Comparison of annual averages shows an 8.3% decrease in the total number of crashes at the intersection for all approaches and a 10.8% decrease on the eastbound (photo enforced) approach post-camera installation.

The US Department of Transportation Project Development and Design Manual states that turning, angle or head-on crashes have a number of probable crash causes, to include:

- Large volumes of left /right turns
- Large total intersection volume
- Excessive speed on approaches
- Inadequate traffic control devices
- Poor visibility of signals

While red light cameras cannot truly decrease the volume of cars entering the intersection, speed and proximity of vehicles entering an intersection or the amount of turning traffic volume, red light cameras and red light camera photo enforcement warning signs have the ability to reduce traffic crashes and improve compliance with traffic control devices.

Analysis of all available data indicates the Village's RLR Photo Enforcement Program has made a significant impact on traffic safety at this intersection and that continued enforcement will be beneficial in the years to come.