



A Red Light Running (RLR) Photo Enforcement System was installed at the intersection of Des Plaines River Road at Lawrence Avenue on April 15, 2009 (southbound/eastbound), 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.*

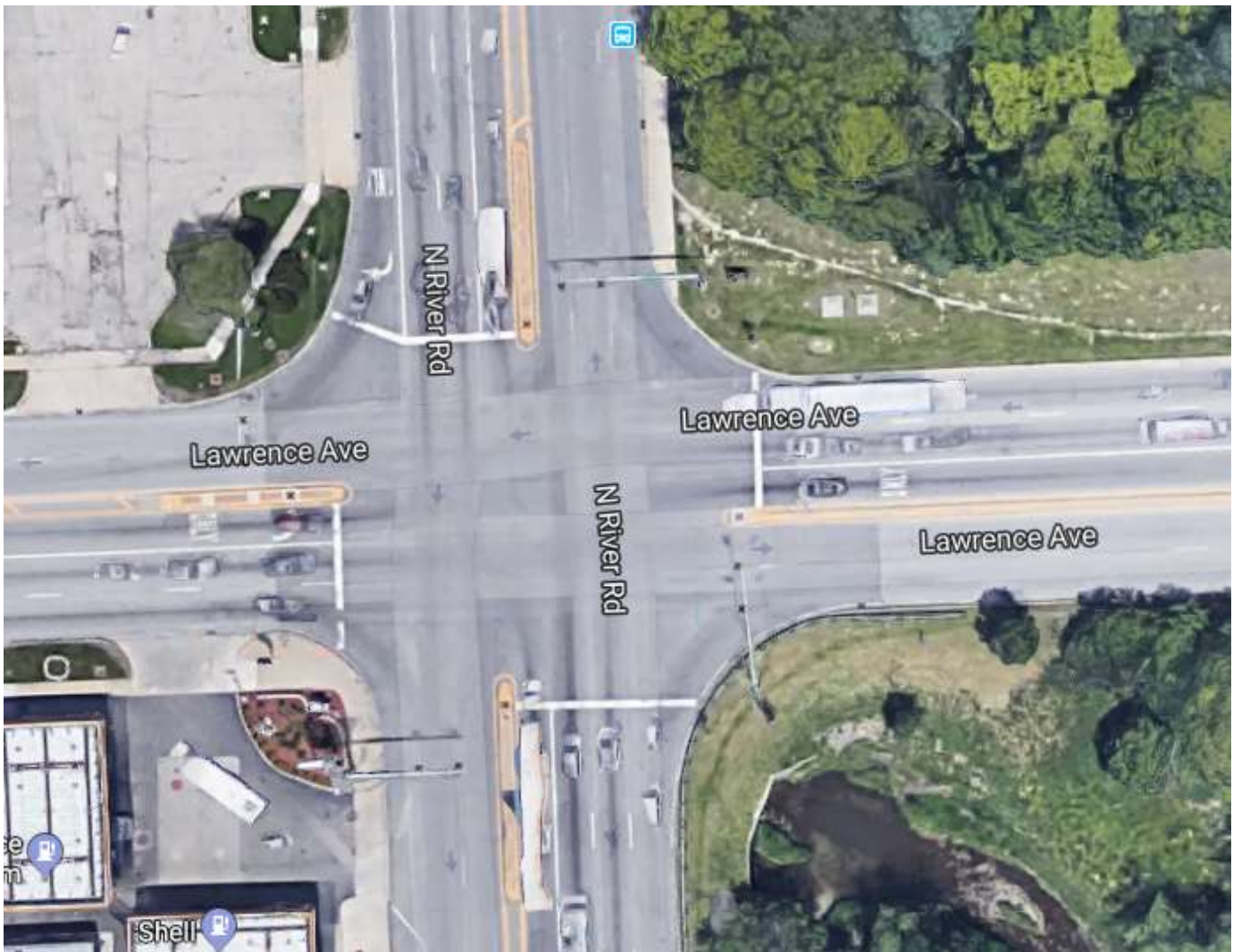
The following statistical analysis and evaluation was performed through 2018.

*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.*



## Des Plaines River Road at Lawrence Avenue Schiller Park, IL

- RLR Photo Enforcement System monitors violations occurring on the southbound and eastbound approaches of the intersection
- RLR Photo Enforcement System installed: April 15, 2009
- 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.





**Des Plaines River Road at Lawrence Avenue, Northbound Approach**



**Des Plaines River Road at Lawrence Avenue, Southbound Approach**





**Des Plaines River Road at Lawrence Avenue, Eastbound Approach**



**Des Plaines River Road at Lawrence Avenue, Westbound Approach**



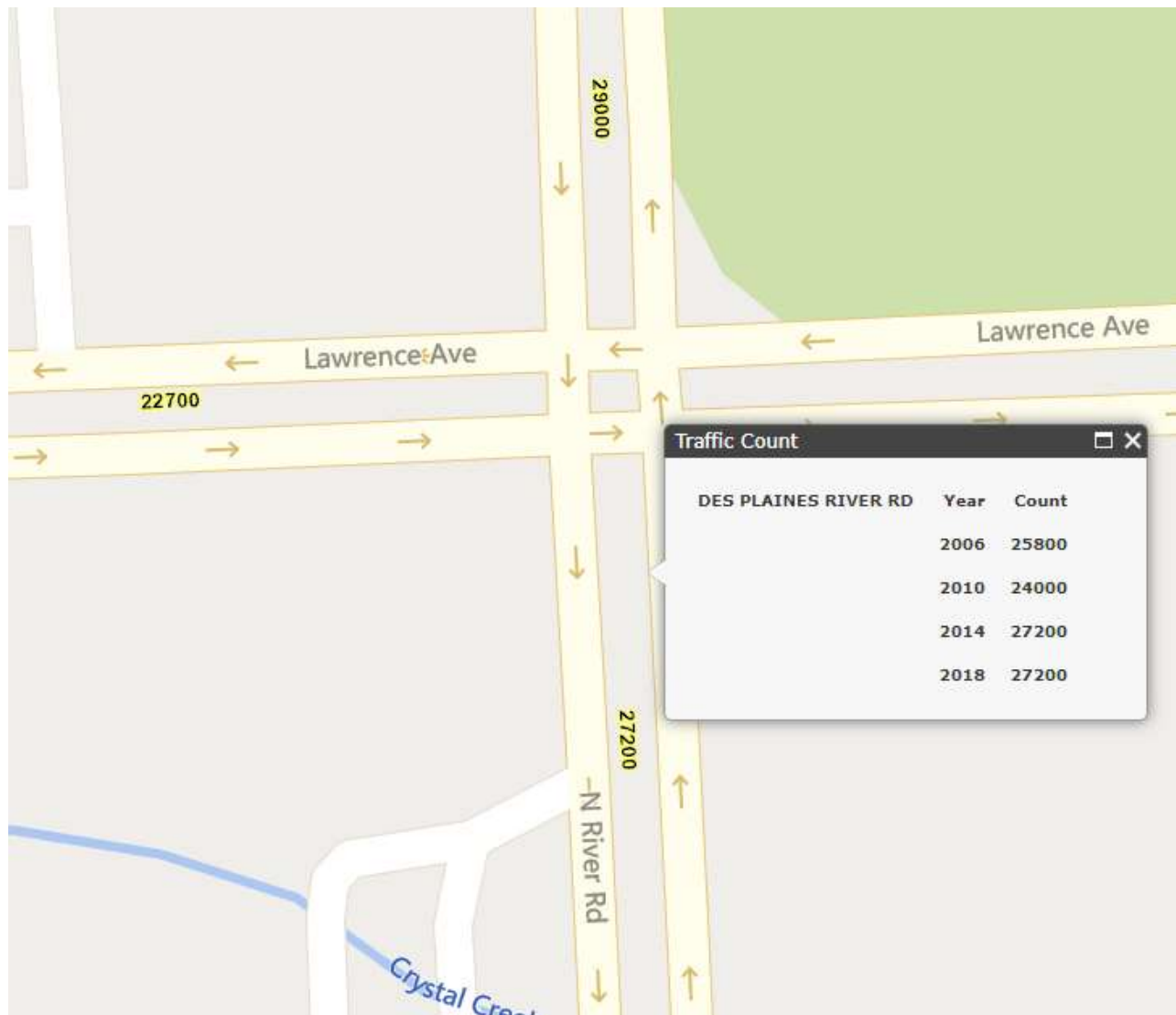


## Average Daily Traffic

Data was obtained from the Illinois Department of Transportation's website [www.gettingaroundillinois.com](http://www.gettingaroundillinois.com).

Des Plaines River Road at Lawrence Avenue (Northbound)

- 25,800 (2006)
- 24,000 (2010)
- 27,200 (2014)
- 27,200 (2018)



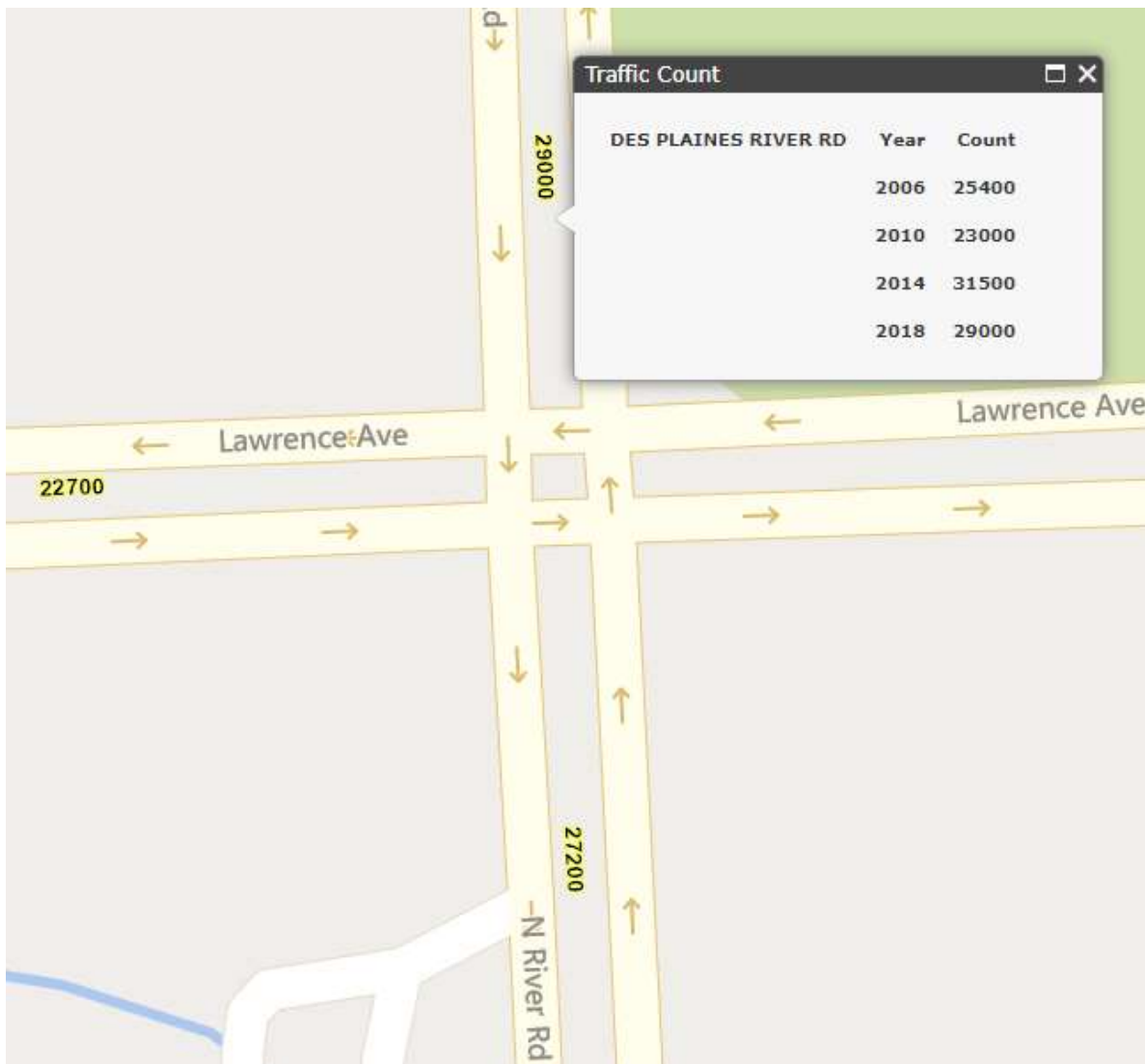


## Average Daily Traffic (continued)

Data was obtained from the Illinois Department of Transportation's website [www.gettingaroundillinois.com](http://www.gettingaroundillinois.com).

Des Plaines River Road at Lawrence Avenue (Southbound)

- 25,400 (2006)
- 23,000 (2010)
- 31,500 (2014)
- 29,000 (2018)



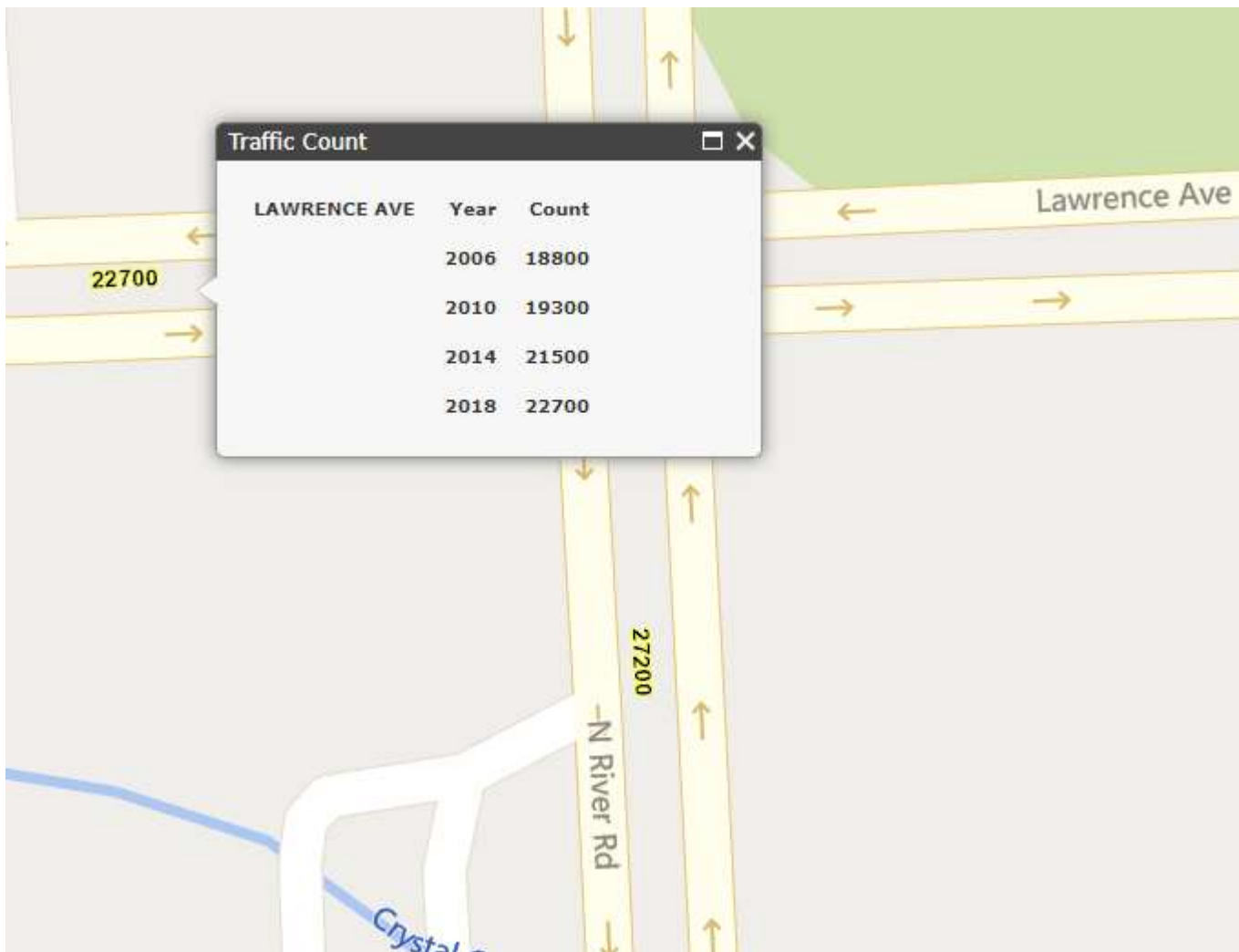


## Average Daily Traffic (continued)

Data was obtained from the Illinois Department of Transportation's website [www.gettingaroundillinois.com](http://www.gettingaroundillinois.com).

Des Plaines River Road at Lawrence Avenue (Eastbound)

- 18,800 (2006)
- 19,300 (2010)
- 21,500 (2014)
- 22,700 (2018)



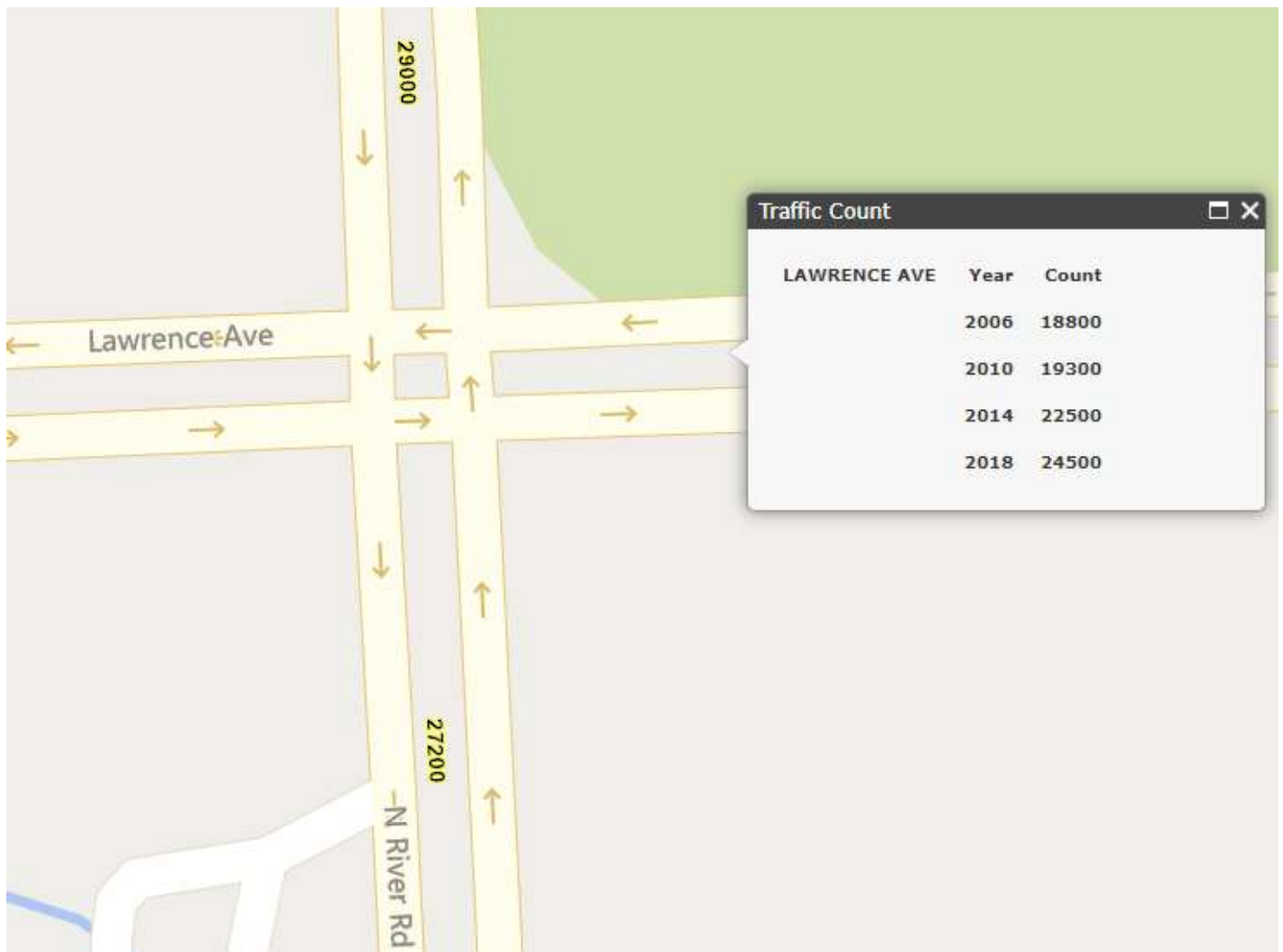


## Average Daily Traffic (continued)

Data was obtained from the Illinois Department of Transportation's website [www.gettingaroundillinois.com](http://www.gettingaroundillinois.com).

Des Plaines River Road at Lawrence Avenue (Westbound)

- 18,800 (2006)
- 19,300 (2010)
- 22,500 (2014)
- 24,500 (2018)







## 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. Data compiled is not intersection specific, rather totals for the program as a whole.

<b>VILLAGE OF SCHILLER PARK ADJUDICATION FOR AUTOMATED PHOTO ENFORCEMENT PROGRAM</b>		
<b>YEAR /TOTALS</b>	<b>LIABLE</b>	<b>NOT LIABLE</b>
2008	111	17
2009	411	112
2010	329	124
2011	233	114
2012	116	67
2013	146	89
2014	181	44
2015	286	66
2016	332	78
2017	319	67
2018	218	57
2019	342	53
2020**	227	26
<b>YEAR TO DATE TOTAL:</b>	<b>3251</b>	<b>914</b>

\*Adjudication totals include contested violations for entire program (all RLR cameras).

\*\*2020 totals through November 2020.

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								Total
	Rear-End (% of Total)		Angle (% of Total)		Turning (% of Total)		Other (% of Total)		
2006	3	33.3%	0	0.0%	3	33.3%	3	33.3%	9
2007	12	52.2%	1	4.3%	3	13.0%	7	30.4%	23
2008	9	41.0%	2	9.1%	10	45.4%	1	4.5%	22
Total:	24	44.4%	3	5.5%	16	29.6%	11	20.4%	54
2006-2008 Avg:	8.0		1.0		5.3		3.7		18.0

RLR Camera Installation: April 15, 2009									
2009	3	23.1%	1	7.7%	6	46.1%	3	23.1%	13
2010	6	54.5%	1	9.1%	2	18.2%	2	18.2%	11
2011	6	46.1%	1	7.7%	6	46.1%	0	0.0%	13
2012	9	37.5%	2	8.3%	12	50.0%	1	4.2%	24
2013	11	73.3%	0	0.0%	3	20.0%	1	6.7%	15
2014	7	36.8%	1	5.3%	8	42.1%	3	15.8%	19
2015	8	33.3%	0	0.0%	10	41.7%	6	25.0%	24
2016	11	47.8%	0	0.0%	12	52.2%	0	0.0%	23
2017	5	29.4%	1	5.9%	10	58.8%	1	5.9%	17
2018	5	29.4%	0	0.0%	10	58.8%	2	11.8%	17
Total:	68	41.7%	6	3.7%	73	44.8%	16	9.8%	163
2010-2018 Avg:	7.5		0.7		8.1		1.8		18.1

- 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 Schiller Park 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 southbound and eastbound approaches only, pre/post RLR Photo Enforcement System installation.

**SOUTHBOUND/EASTBOUND APPROACHES ONLY  
 (PHOTO ENFORCED APPROACHES)**

	Crashes								
	Rear-End (% of Total)		Angle (% of Total)		Turning (% of Total)		Other (% of Total)		Total
2006	2	40.0%	0	0.0%	2	40.0%	1	20.0%	5
2007	6	40.0%	1	6.7%	3	20.0%	5	33.3%	15
2008	5	29.4%	2	11.8%	10	58.8%	0	0.0%	17
Total:	13	35.1%	3	8.1%	15	40.5%	6	16.2%	37
2006-2008 Avg:	4.3		1.0		5.0		2.0		12.3

RLR Camera Installation: April 15, 2009									
2009	2	16.7%	1	8.3%	6	50.0%	3	25.0%	12
2010	3	50.0%	1	16.7%	1	16.7%	1	16.7%	6
2011	2	28.6%	1	14.3%	4	57.1%	0	0.0%	7
2012	5	27.8%	2	11.1%	10	55.5%	1	5.5%	18
2013	7	63.6%	0	0.0%	3	27.3%	1	9.1%	11
2014	4	28.6%	1	7.1%	7	50.0%	2	14.3%	14
2015	5	26.3%	0	0.0%	9	47.4%	5	26.3%	19
2016	6	33.3%	0	0.0%	12	66.7%	0	0.0%	18
2017	3	23.1%	1	7.7%	9	69.2%	0	0.0%	13
2018	4	26.6%	0	0.0%	10	66.7%	1	6.7%	15
Total:	39	32.2%	6	4.9%	65	53.7%	11	9.1%	121
2010-2018 Avg:	4.3		0.7		7.2		1.2		13.4

- 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 Schiller Park acknowledges the potential for discrepancies in the final conclusions drawn.



Comparison of annual averages shows the total number of crashes increasing by 0.5% at the intersection for all approaches and by 8.9% on the southbound/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

A red-light camera does not have the capability of directly influencing the volume of cars traveling through an intersection, vehicle speed, or the proximity of cars following one another. That is entirely at the discretion of the driver. Red-light cameras can however improve driver compliance with traffic control devices simply by their presence, along with warning signs indicating cameras are in use. They do in fact have the capability to “change driver behavior”.

Analysis of all available data indicates the Village of Schiller Park’s RLR Photo Enforcement Program has done just that – changed driver behavior – and has made a significant positive impact on traffic safety. The recent increase in turning crashes on the camera approaches could be attributed to the increased traffic volume in 2018. The Village feels strongly that continued use of automated enforcement, along with monitoring traffic crash data is necessary to ensure the highest level of traffic safety is achieved.