



Roosevelt Rd and Mannheim Rd <Westbound and Northbound>



Westchester, IL RLR 3 Year Follow-Up Evaluation Report

Reference No: 016-59804

May 2022

Daniel Babich
Chief of Police



Westchester Police Department
10300 Roosevelt Rd
Westchester, IL 60154
Administration (708) 345-0060
Emergency (708)345-2131 OR 911

May 24, 2022

Thomas G. Gallenbach, P.E.
Area Permit Engineer
Illinois Department of Transportation
Bureau of Traffic
201 West Center Court
Schaumburg, Illinois 60196-1096

Re: RLR 3 Year Follow-Up Evaluation Report
Roosevelt Road and Mannheim Road (WB and NB)
Village of Westchester
Ref #. 016-59804

Dear Mr. Gallenbach:

Please find enclosed a copy of the 3 year RLR Follow-Up Evaluation Report for the intersection of Roosevelt Road and Mannheim Road in Westchester Illinois.

In this submittal, included are: RLR Camera Location, Implementation Date, System Manufacture and Contractors, RLR Crash Data and Analysis, Traffic Volume History, Summary of Adjudication, and Summary selection.

If you have any questions with regard to this submittal or require any additional information, please feel free to contact us at (708) 345-0060, Rstieber@westchesterpolice.com

Best Regards,

The image is a handwritten signature in black ink. The signature is written in a cursive style and reads "Daniel Babich".

On behalf of the Village of Westchester
Daniel Babich
Chief of Police

3 Year Evaluation Checklist

RLR FOLLOW-UP EVALUATION REPORT CHECKLIST

Reference Number:			Date:
Location:			Firm:
Yes	No	N/A	
☐	☐	☐	Intersection location and RLR camera approaches identified
☐	☐	☐	Date of RLR camera implementation
☐	☐	☐	RLR camera system manufacturer and contractor name
☐	☐	☐	Crash data including 3 years prior to RLR camera installation with post period crash data
☐	☐	☐	Analysis of crash data
☐	☐	☐	Signal timing changes
☐	☐	☐	Traffic volumes before and after RLR cameras
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1. RLR Camera Location, Live Date, System Manufacturer and Contractor

In 2013, the **Village of Westchester** received approval from the Illinois Department of Transportation (IDOT) to install the current Red Light Running (RLR) cameras on the **Westbound and Northbound** approaches at the intersection of **Roosevelt Rd and Mannheim Rd**.

- Date on which the cameras went live on the Westbound and Northbound approaches: **11/2013**
- Year in which the 1 Year Follow-Up Evaluation Report was submitted to the IDOT: **2015**
- Year in which the 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **2020**

No changes were made to the traffic signal timing or any other settings pertaining to operation of traffic signals at this intersection following the camera installation.

Below are the RLR camera system manufacturer and contractor information.

RLR Camera System Manufacturer SafeSpeed, LLC 150 North Wacker Drive Floor 8 Chicago, IL 60606 Phone: (877) 237-2331 Fax: (877) 237-2302 Email: info@safespeedllc.com Web: safespeedllc.com Key Contact: Ryan Kim Phone: (312) 924-7248 Email: rkim@safespeedllc.com	Electrical Contractor Meade Electric Company 625 Willowbrook Center Parkway Willowbrook, IL 60527 Phone: (708) 588-2500 Fax: (708) 588-2501 Email: info@meadeelectric.com Web: meadeelectric.com Key Contact: Mr. Michael Knutson Phone: (708) 588-2500 Email: mkk@meade100.com
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2. RLR Crash Data and Analysis

The table below shows a summary of motor vehicle crashes at the intersection of **Roosevelt Rd and Mannheim Rd** over a span of 12 years*.

	Angle	Turning	Rear End	Pedestrian	Sideswipe	Fixed/Other Object	Total
2009	1	8	14	0	2	1	26
2010	0	2	10	0	0	0	12
2011	0	1	7	0	0	0	8
2012	0	2	13	0	0	0	15
2013	0	3	13	1	0	1	18
2014	0	1	12	2	0	0	15
2015	0	3	8	0	1	0	12
2016	3	1	7	0	2	0	13
2017	0	4	6	0	0	0	10
2018	0	2	7	0	0	0	9
2019	0	2	8	0	2	0	12
2020	0	3	5	0	2	0	10

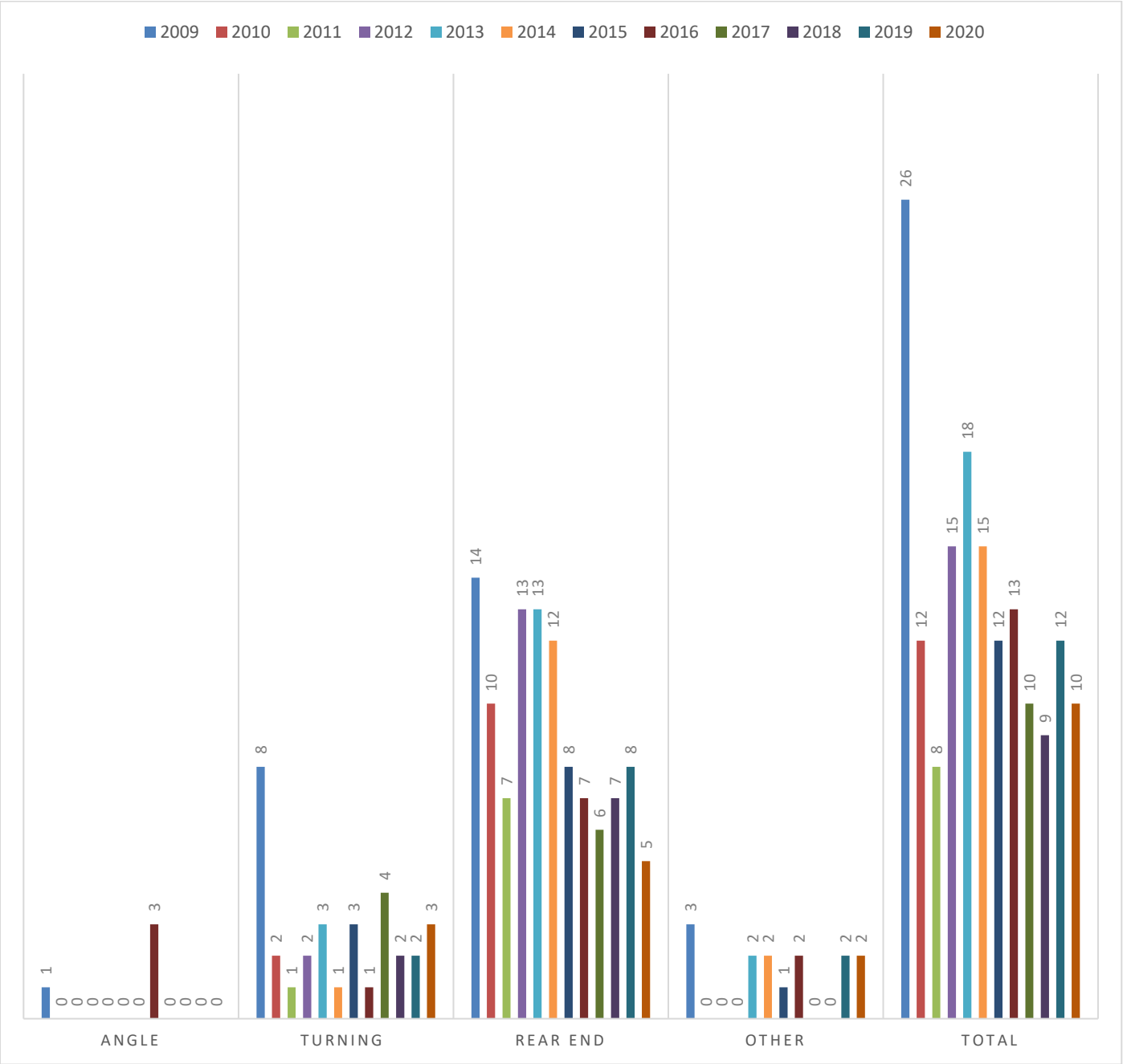
The data from 2009-2012 shows the period prior to the installation of the RLR cameras.

The data from 2013 shows the year in which the cameras were installed.

The data from 2014-2020 shows the period following the installation.

* 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 Chart below shows the trend of each crash type from 2009-2020.



	Year \ Type	Angle	Turning	Rear End	Other*	Total	Yearly Average
Before Installation	2009	1	8	14	3	26	15.25
	2010	0	2	10	0	12	
	2011	0	1	7	0	8	
	2012	0	2	13	0	15	
	2013	0	3	13	2	18	
After Installation	2014	0	1	12	2	15	11.57
	2015	0	3	8	1	12	
	2016	3	1	7	2	13	
	2017	0	4	6	0	10	
	2018	0	2	7	0	9	
	2019	0	2	8	2	12	
	2020	0	3	5	2	10	

* Other crashes include: Pedestrian, Sideswipe and Fixed/Other Object.

From 2009-2012, prior to RLR camera installation, there were 61 total crashes; this averages out to 15.25 crashes a year.

From 2014-2020, post RLR camera installation, there were 81 total crashes; this averages out to 11.57 crashes per year - a 24.12% reduction of overall crashes in direct comparison with the time period aforementioned.

The following pages contain crash data summary pages from 2009-2020. The complete crash data can be obtained by contacting the IDOT via DOT.DTS.DataRequests@illinois.gov.



Collision Diagram

1/1/2009 to 12/31/2009

Crash Route: US012 | From MileStation 55.99 to 55.99 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>26</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>3</u>	<u>19</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>4</u>	<u>6</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	8	30.8%	Monday	2	7.7%	06 AM	1	3.8%	Bus over 15 pass.	1	1.9%
11-Rear end	14	53.8%	Tuesday	10	38.5%	07 AM	1	3.8%	Bus up to 15 pass	2	3.8%
12-Sideswipe same direction	2	7.7%	Wednesday	2	7.7%	08 AM	4	15.4%	Passenger	30	57.7%
15-Angle	1	3.8%	Thursday	1	3.8%	09 AM	4	15.4%	Pickup	1	1.9%
6-Fixed object	1	3.8%	Friday	9	34.6%	10 AM	1	3.8%	Sport utility vehicle (SUV)	6	11.5%
TOTAL:	26		Saturday	1	3.8%	11 AM	3	11.5%	Tractor w/ semi-trailer	1	1.9%
			Sunday	1	3.8%	1 PM	1	3.8%	Tractor w/o semi-trailer	1	1.9%
					2 PM	3	11.5%	Truck – single unit	1	1.9%	
					3 PM	1	3.8%	Unknown/NA	1	1.9%	
					4 PM	3	11.5%	Van/mini van	8	15.4%	
					5 PM	2	7.7%	TOTAL:	52		
					6 PM	1	3.8%				
					11 PM	1	3.8%				
					TOTAL:	26					

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	19	73.1%	Darkness/Lighted road	2	7.7%	Dry	19	73.1%	East	15	28.8%
Other	1	3.8%	Daylight	23	88.5%	Snow or slush	2	7.7%	North	12	23.1%
Rain	3	11.5%	Dusk	1	3.8%	Wet	5	19.2%	Northeast	1	1.9%
Snow	3	11.5%	TOTAL:	26		TOTAL:	26		Northwest	2	3.8%
TOTAL:	26								South	13	25.0%



Collision Diagram

1/1/2010 to 12/31/2010

Crash Route: US012 | From MileStation 55.99 to 55.99 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>12</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>11</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>0</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	2	16.7%	Monday	2	16.7%	07 AM	1	8.3%	Passenger	15	62.5%
11-Rear end	10	83.3%	Wednesday	3	25.0%	08 AM	1	8.3%	Pickup	2	8.3%
TOTAL:	12		Thursday	2	16.7%	09 AM	2	16.7%	Sport utility vehicle (SUV)	2	8.3%
			Friday	2	16.7%	10 AM	1	8.3%	Truck – single unit	1	4.2%
			Sunday	3	25.0%	Noon	1	8.3%	Van/mini van	4	16.7%
			TOTAL:	12		2 PM	1	8.3%	TOTAL:	24	
						3 PM	1	8.3%			
						6 PM	3	25.0%			
						11 PM	1	8.3%			
						TOTAL:	12				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	8	66.7%	Darkness/Lighted road	2	16.7%	Dry	7	58.3%	East	9	37.5%
Rain	2	16.7%	Daylight	10	83.3%	Snow or slush	1	8.3%	North	1	4.2%
Snow	1	8.3%	TOTAL:	12		Unknown	1	8.3%	Northeast	2	8.3%
Unknown	1	8.3%				Wet	3	25.0%	South	8	33.3%
TOTAL:	12					TOTAL:	12		West	4	16.7%
									TOTAL:	24	



Collision Diagram

1/1/2011 to 12/31/2011

Crash Route: US012 | From MileStation 55.99 to 55.99 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
8	0	0	3	1	4	0	4	0	3	1

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	1	12.5%	Monday	1	12.5%	08 AM	1	12.5%	Passenger	15	83.3%
11-Rear end	7	87.5%	Tuesday	5	62.5%	09 AM	1	12.5%	Pickup	1	5.6%
TOTAL:	8		Wednesday	1	12.5%	1 PM	1	12.5%	Sport utility vehicle (SUV)	1	5.6%
			Saturday	1	12.5%	3 PM	1	12.5%	Van/mini van	1	5.6%
			TOTAL:	8		4 PM	2	25.0%	TOTAL:	18	
						6 PM	1	12.5%			
						10 PM	1	12.5%			
						TOTAL:	8				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	5	62.5%	Darkness/Lighted road	1	12.5%	Dry	5	62.5%	East	6	33.3%
Rain	2	25.0%	Daylight	7	87.5%	Snow or slush	1	12.5%	North	5	27.8%
Snow	1	12.5%	TOTAL:	8		Unknown	1	12.5%	South	7	38.9%
TOTAL:	8					Wet	1	12.5%	TOTAL:	18	
						TOTAL:	8				



Collision Diagram

1/1/2012 to 12/31/2012

Crash Route: US012 | From MileStation 55.99 to 55.99 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>15</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>9</u>	<u>0</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>3</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	13	86.7%	Monday	5	33.3%	07 AM	2	13.3%	Passenger	18	58.1%
Turning	2	13.3%	Tuesday	1	6.7%	08 AM	1	6.7%	SUV	9	29.0%
TOTAL:	15		Wednesday	4	26.7%	10 AM	1	6.7%	Tractor With Semi-Trailer	1	3.2%
			Thursday	1	6.7%	Noon	1	6.7%	Van/Mini-Van	3	9.7%
			Saturday	3	20.0%	1 PM	2	13.3%	TOTAL:	31	
			Sunday	1	6.7%	3 PM	2	13.3%			
			TOTAL:	15		4 PM	2	13.3%			
						5 PM	1	6.7%			
						7 PM	2	13.3%			
						10 PM	1	6.7%			
						TOTAL:	15				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	14	93.3%	Darkness	1	6.7%	Dry	13	86.7%	East	7	22.6%
Snow	1	6.7%	Darkness, Lighted Road	3	20.0%	Snow or Slush	1	6.7%	North	7	22.6%
TOTAL:	15		Daylight	11	73.3%	Wet	1	6.7%	South	9	29.0%
			TOTAL:	15		TOTAL:	15		West	8	25.8%
									TOTAL:	31	



Collision Diagram

1/1/2013 to 12/31/2013

Crash Route: US012 | From MileStation 55.99 to 55.99 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>18</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>4</u>	<u>13</u>	<u>0</u>	<u>6</u>	<u>0</u>	<u>2</u>	<u>4</u>

<i>Type of Crash</i>	<i>Total</i>	<i>%</i>	<i>Day of Wk</i>	<i>Total</i>	<i>%</i>	<i>Hour of Day</i>	<i>Total</i>	<i>%</i>	<i>Vehicle Type</i>	<i>Total</i>	<i>%</i>
Other Object	1	5.6%	Monday	2	11.1%	01 AM	1	5.6%	Passenger	24	66.7%
Pedestrian	1	5.6%	Tuesday	3	16.7%	06 AM	1	5.6%	SUV	5	13.9%
Rear End	13	72.2%	Wednesday	5	27.8%	08 AM	4	22.2%	Tractor With Semi-Trailer	1	2.8%
Turning	3	16.7%	Thursday	1	5.6%	09 AM	1	5.6%	Truck Single Unit	2	5.6%
TOTAL:	18		Friday	4	22.2%	11 AM	1	5.6%	Van/Mini-Van	4	11.1%
			Saturday	2	11.1%	Noon	1	5.6%	TOTAL:	36	
			Sunday	1	5.6%	1 PM	2	11.1%			
			TOTAL:	18		2 PM	2	11.1%			
						3 PM	2	11.1%			
						6 PM	1	5.6%			
						9 PM	1	5.6%			
						10 PM	1	5.6%			
						TOTAL:	18				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	16	88.9%	Darkness/ Lighted Road	4	22.2%	Dry	14	77.8%	East	14	38.9%
Rain	1	5.6%	Daylight	14	77.8%	Wet	4	22.2%	North	7	19.4%
Snow	1	5.6%	TOTAL:	18		TOTAL:	18		South	13	36.1%
TOTAL:	18								Southwest	1	2.8%
									West	1	2.8%
									TOTAL:	36	



Collision Diagram

1/1/2014 to 12/31/2014

Crash Route: US012 | From MileStation 55.99 to 55.99 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>15</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>9</u>	<u>0</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>7</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Pedestrian	2	13.3%	Monday	1	6.7%	06 AM	1	6.7%	Passenger	18	64.3%
Rear End	12	80.0%	Tuesday	4	26.7%	07 AM	4	26.7%	Pickup	1	3.6%
Turning	1	6.7%	Wednesday	1	6.7%	08 AM	1	6.7%	SUV	6	21.4%
TOTAL:	15		Thursday	3	20.0%	09 AM	2	13.3%	Unknown	1	3.6%
			Friday	2	13.3%	Noon	1	6.7%	Van/Mini-Van	2	7.1%
			Saturday	1	6.7%	1 PM	1	6.7%	TOTAL:	28	
			Sunday	3	20.0%	2 PM	1	6.7%			
			TOTAL:	15		5 PM	1	6.7%			
						6 PM	2	13.3%			
						9 PM	1	6.7%			
						TOTAL:	15				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	10	66.7%	Darkness/ Lighted Road	3	20.0%	Dry	8	53.3%	East	12	42.9%
Cloudy/Overcast	2	13.3%	Dawn	2	13.3%	Snow or Slush	3	20.0%	North	7	25.0%
Snow	3	20.0%	Daylight	10	66.7%	Unknown	2	13.3%	South	9	32.1%
TOTAL:	15		TOTAL:	15		Wet	2	13.3%	TOTAL:	28	
						TOTAL:	15				



Coordinate Collision Diagram Report

1/1/2015 to 12/31/2015

For XCoordinate 2918779.19291442 : YCoordinate 1900973.46781318 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>12</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>10</u>	<u>0</u>	<u>2</u>	<u>1</u>	<u>0</u>	<u>1</u>

Type of Crash	Total	%	Dayof Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	8	66.7%	Tuesday	6	50.0%	06 AM	2	16.7%	Motorcycle (Over 150cc)	1	3.8%
Sideswipe Same Direction	1	8.3%	Thursday	3	25.0%	08 AM	1	8.3%	Passenger	13	50.0%
Turning	3	25.0%	Friday	1	8.3%	11 AM	1	8.3%	Pickup	4	15.4%
TOTAL:	12		Saturday	2	16.7%	Noon	1	8.3%	SUV	7	26.9%
			TOTAL:	12		2 PM	2	16.7%	Van/Mini-Van	1	3.8%
						3 PM	1	8.3%	TOTAL:	26	
						4 PM	1	8.3%			
						8 PM	1	8.3%			
						9 PM	1	8.3%			
						11 PM	1	8.3%			
						TOTAL:	12				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	11	91.7%	Darkness	1	8.3%	Dry	12	100.0%	East	6	23.1%
Cloudy/Overcast	1	8.3%	Darkness, Lighted Road	2	16.7%	TOTAL:	12		South	13	50.0%
TOTAL:	12		Dawn	1	8.3%				Southwest	1	3.8%
			Daylight	8	66.7%				West	6	23.1%
			TOTAL:	12					TOTAL:	26	



Coordinate Collision Diagram Report

1/1/2016 to 12/31/2016

For XCoordinate 2918779.19291442 : YCoordinate 1900973.46781318 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>13</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>1</u>	<u>10</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>3</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	23.1%	Monday	1	7.7%	07 AM	1	7.7%	Bus Over 15 Passengers	1	3.6%
Rear End	7	53.8%	Tuesday	3	23.1%	10 AM	2	15.4%	Passenger	18	64.3%
Sideswipe Same Direction	2	15.4%	Wednesday	2	15.4%	1 PM	2	15.4%	Pickup	1	3.6%
Turning	1	7.7%	Friday	3	23.1%	3 PM	2	15.4%	SUV	6	21.4%
TOTAL:	13		Saturday	2	15.4%	4 PM	1	7.7%	Tractor With Semi-Trailer	1	3.6%
			Sunday	2	15.4%	5 PM	1	7.7%	Van/Mini-Van	1	3.6%
			TOTAL:	13		7 PM	2	15.4%	TOTAL:	28	
						8 PM	1	7.7%			
						11 PM	1	7.7%			
						TOTAL:	13				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	10	76.9%	Darkness, Lighted Road	4	30.8%	Dry	8	61.5%	East	7	25.0%
Rain	3	23.1%	Daylight	9	69.2%	Wet	5	38.5%	North	7	25.0%
TOTAL:	13		TOTAL:	13		TOTAL:	13		Northwest	1	3.6%
									South	9	32.1%
									West	4	14.3%
									TOTAL:	28	



Coordinate Collision Diagram Report

1/1/2017 to 12/31/2017

For XCoordinate 2918779.19291442 : YCoordinate 1900973.46781318 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>10</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>2</u>	<u>5</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>4</u>	<u>6</u>

Type of Crash	Total	%	Dayof Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Rear End	6	60.0%	Tuesday	1	10.0%	03 AM	1	10.0%	Passenger	17	81.0%
Turning	4	40.0%	Wednesday	4	40.0%	04 AM	1	10.0%	Pickup	2	9.5%
TOTAL:	10		Friday	3	30.0%	2 PM	1	10.0%	SUV	2	9.5%
		Saturday	1	10.0%	4 PM	3	30.0%	TOTAL:	21		
		Sunday	1	10.0%	6 PM	1	10.0%				
		TOTAL:	10	10 PM	3	30.0%					
		TOTAL:	10								
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	6	60.0%	Darkness, Lighted Road	5	50.0%	Dry	7	70.0%	East	10	47.6%
Cloudy/Overcast	1	10.0%	Daylight	4	40.0%	Wet	3	30.0%	North	1	4.8%
Rain	3	30.0%	Dusk	1	10.0%	TOTAL:	10		Northwest	1	4.8%
TOTAL:	10		TOTAL:	10					South	6	28.6%
								West	3	14.3%	
								TOTAL:	21		



Coordinate Collision Diagram Report

1/1/2018 to 12/31/2018

For XCoordinate 2918747.797 : YCoordinate 1900970.589 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
9	0	0	0	2	7	0	2	0	0	2

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	7	77.8%	Monday	4	44.4%	09 AM	1	11.1%	Other	1	5.6%
Turning	2	22.2%	Wednesday	1	11.1%	3 PM	2	22.2%	Passenger	11	61.1%
TOTAL:	9		Friday	2	22.2%	4 PM	1	11.1%	SUV	4	22.2%
			Sunday	2	22.2%	5 PM	3	33.3%	Truck Single Unit	1	5.6%
			TOTAL:	9	6 PM	1	11.1%	Van/Mini-Van	1	5.6%	
					8 PM	1	11.1%	TOTAL:	18		
					TOTAL:	9					
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	77.8%	Darkness, Lighted Road	1	11.1%	Dry	8	88.9%	East	6	33.3%
Cloudy/Overcast	2	22.2%	Daylight	8	88.9%	Wet	1	11.1%	North	2	11.1%
TOTAL:	9		TOTAL:	9		TOTAL:	9		South	6	33.3%
									West	4	22.2%
									TOTAL:	18	



Coordinate Collision Diagram Report

1/1/2019 to 12/31/2019

For XCoordinate 2918747.797 : YCoordinate 1900970.589 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>12</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>10</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	8	66.7%	Monday	1	8.3%	09 AM	1	8.3%	Bus 9 to 15 seats	1	4.2%
Sideswipe Same Direction	2	16.7%	Tuesday	2	16.7%	10 AM	1	8.3%	Passenger	12	50.0%
Turning	2	16.7%	Thursday	2	16.7%	11 AM	1	8.3%	Pickup	1	4.2%
TOTAL:	12		Friday	2	16.7%	1 PM	2	16.7%	SUV	6	25.0%
			Saturday	4	33.3%	2 PM	1	8.3%	Truck Single Unit	1	4.2%
			Sunday	1	8.3%	3 PM	1	8.3%	Unknown	1	4.2%
			TOTAL:	12	6 PM	2	16.7%	Van/Mini-Van	2	8.3%	
				8 PM	1	8.3%	TOTAL:	24			
				9 PM	1	8.3%					
				10 PM	1	8.3%					
				TOTAL:	12						
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	8	66.7%	Darkness, Lighted Road	3	25.0%	Dry	9	75.0%	East	8	33.3%
Cloudy/Overcast	2	16.7%	Daylight	8	66.7%	Wet	3	25.0%	North	2	8.3%
Rain	2	16.7%	Dusk	1	8.3%	TOTAL:	12		South	12	50.0%
TOTAL:	12		TOTAL:	12					Southeast	1	4.2%
								West	1	4.2%	
								TOTAL:	24		



Coordinate Collision Diagram Report

1/1/2020 to 12/31/2020

For XCoordinate 2918747.797 : YCoordinate 1900970.589 | Foot Tolerance : 250 | County : Cook | Intersection Related: Intersections | *See Notes at End of Report.

TOTAL CRASHES	FATAL CRASHES	A INJURY CRASHES	B INJURY CRASHES	C INJURY CRASHES	PROPERTY DAMAGE CRASHES	TOTAL KILLED	TOTAL INJURED	A INJURIES	B INJURIES	C INJURIES
<u>10</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Front to Rear	5	50.0%	Monday	2	20.0%	11 AM	1	10.0%	Other	2	10.0%
Sideswipe Same Direction	2	20.0%	Tuesday	3	30.0%	Noon	1	10.0%	Passenger	9	45.0%
Turning	3	30.0%	Wednesday	1	10.0%	2 PM	1	10.0%	Pickup	1	5.0%
TOTAL:	10		Friday	2	20.0%	3 PM	4	40.0%	SUV	5	25.0%
			Saturday	2	20.0%	4 PM	2	20.0%	Truck Single Unit	1	5.0%
			TOTAL:	10		5 PM	1	10.0%	Unknown	2	10.0%
						TOTAL:	10		TOTAL:	20	
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	7	70.0%	Darkness, Lighted Road	1	10.0%	Dry	7	70.0%	East	2	10.0%
Cloudy/Overcast	1	10.0%	Daylight	8	80.0%	Unknown	2	20.0%	North	3	15.0%
Unknown	2	20.0%	Unknown	1	10.0%	Wet	1	10.0%	Northwest	2	10.0%
TOTAL:	10		TOTAL:	10		TOTAL:	10		South	11	55.0%
									West	2	10.0%
									TOTAL:	20	



3. Traffic Volume

The table below shows a summary of the Average Daily Traffic Count (ADTC) at the intersection of **Roosevelt Rd and Mannheim Rd** over a span of 12 years.

The history of available ADTC on each approach was obtained from the IDOT website per the RLR Guideline document published by the IDOT and recorded in **bold** below.

(<http://www.gettingaroundillinois.com/gai.htm?mt=aadt>)

The data from 2009-2012 shows the period prior to the installation of the RLR cameras.

The data from 2013 shows the year in which the cameras were installed.

The data from 2014-2020 shows the period following the installation.

	Direction Year	Eastbound	Westbound	Northbound	Southbound	Combined	Combined Avg
Before Installation	2009	24,300	24,300	26,000	34,000	108,600	113,400
	2010	24,300	24,300	26,000	34,000	108,600	
	2011	24,900	24,900	26,400	42,000	118,200	
	2012	24,900	24,900	26,400	42,000	118,200	
	2013	28,400	29,700	28,600	38,800	125,500	
After Installation	2014	28,400	27,100	28,600	38,800	122,900	118,329
	2015	28,700	27,100	28,600	38,700	123,100	
	2016	28,700	27,100	28,600	38,700	123,100	
	2017	22,500	27,100	25,800	38,100	113,500	
	2018	22,500	27,100	25,800	38,100	113,500	
	2019	24,700	28,000	29,600	33,800	116,100	
	2020	24,700	28,000	29,600	33,800	116,100	

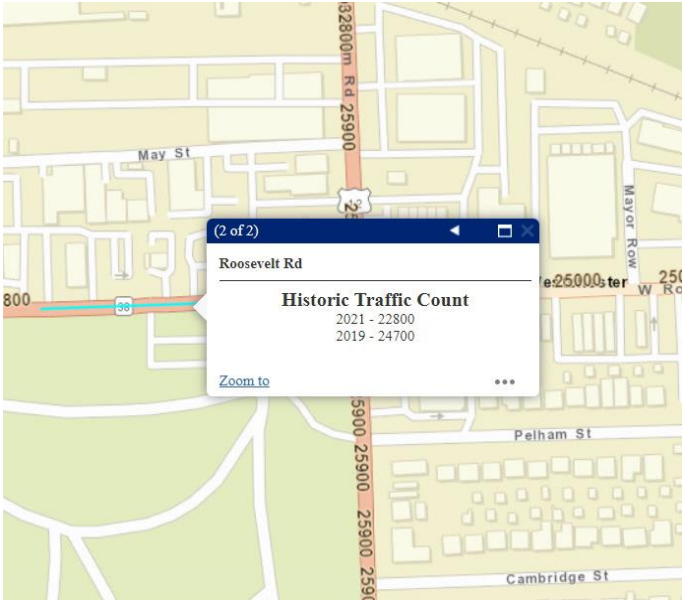
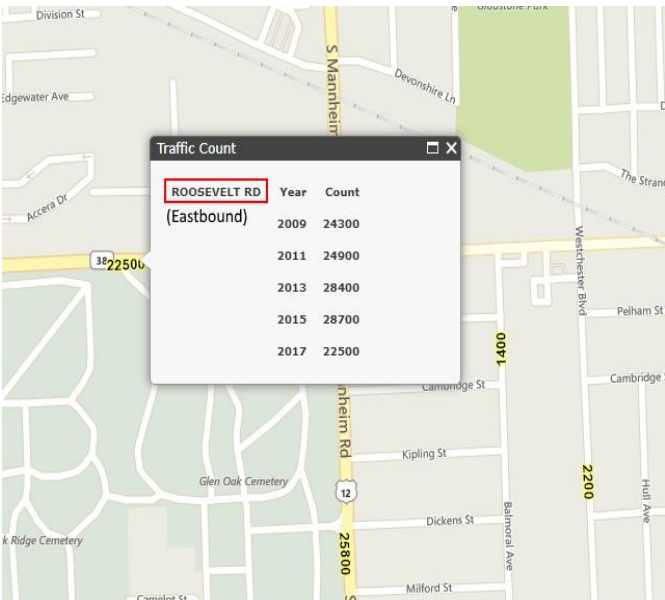
From 2009-2012, prior to RLR camera installation, the combined average of ADTC was 113,400.

From 2014-2020, post RLR camera installation, the combined average of ADTC was 118,329 - a slight increase of 4.35%.

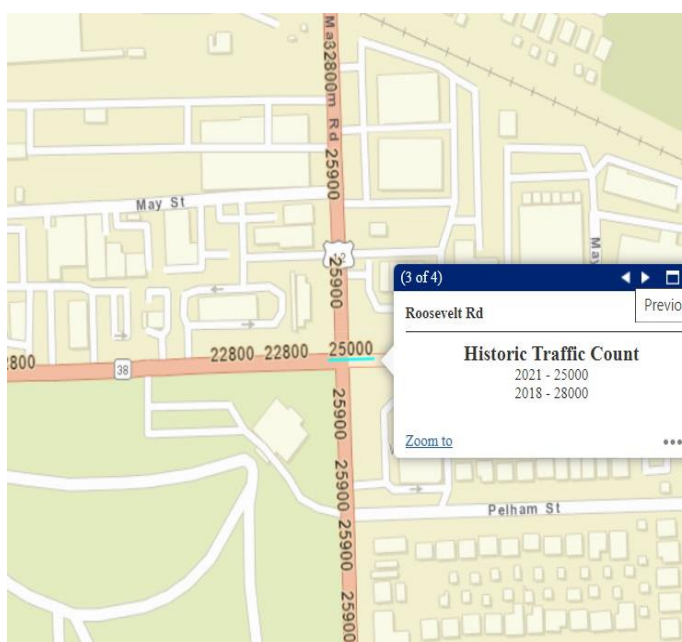
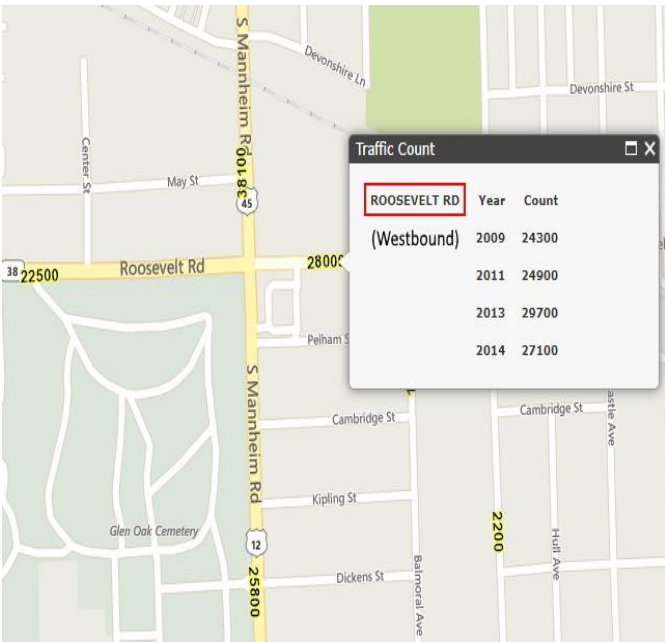
The following pages show the complete ADTC data from 2009-2020 obtained from the IDOT's website.

The traffic numbers below were obtained from the IDOT website during the preparation of past reports and now per the RLR Guideline document published by the IDOT. Only ADTC values were available, peak numbers were not provided.

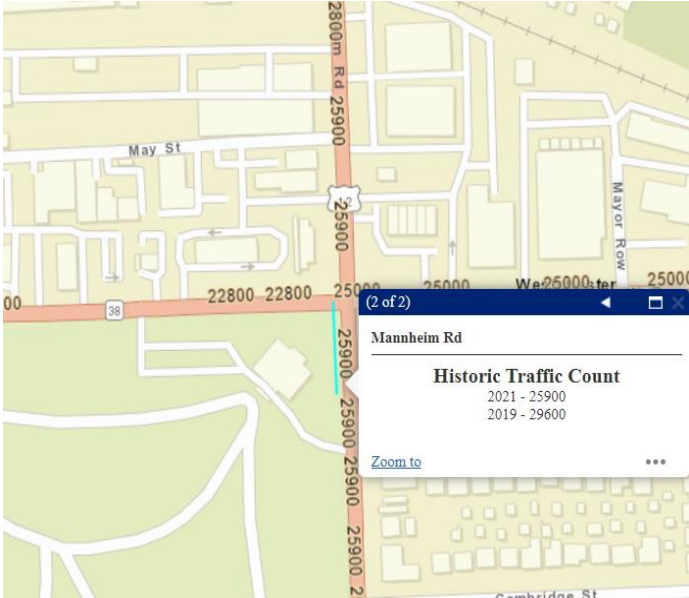
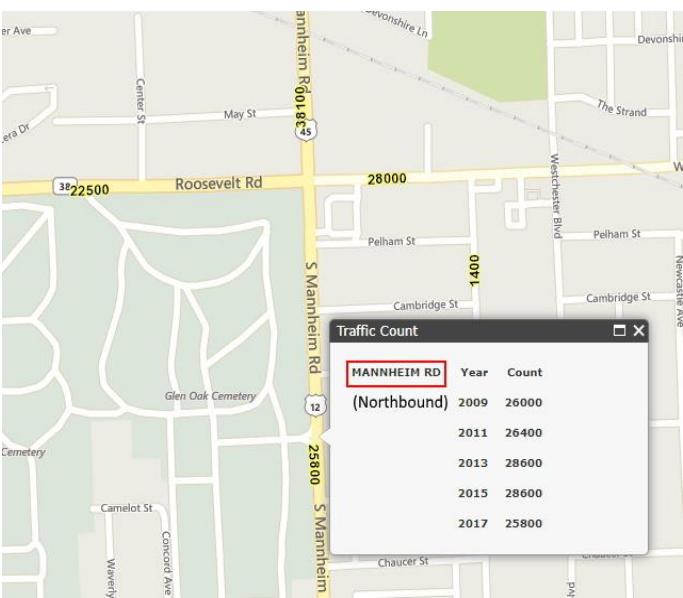
Eastbound ADTC



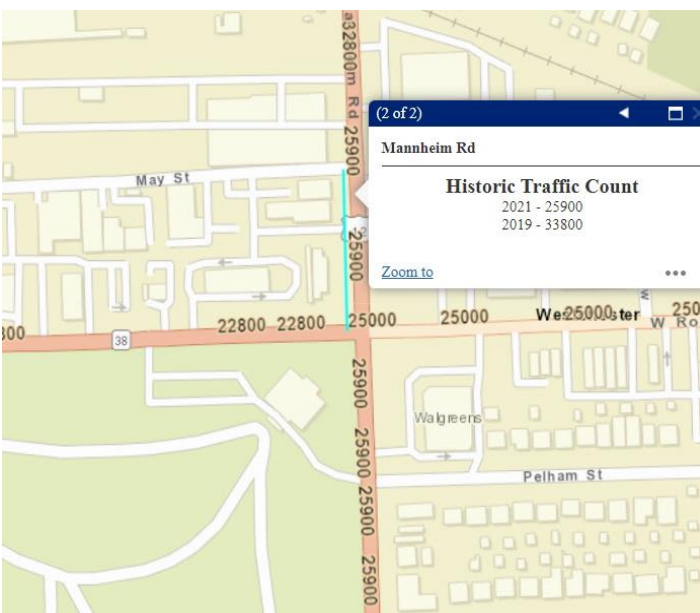
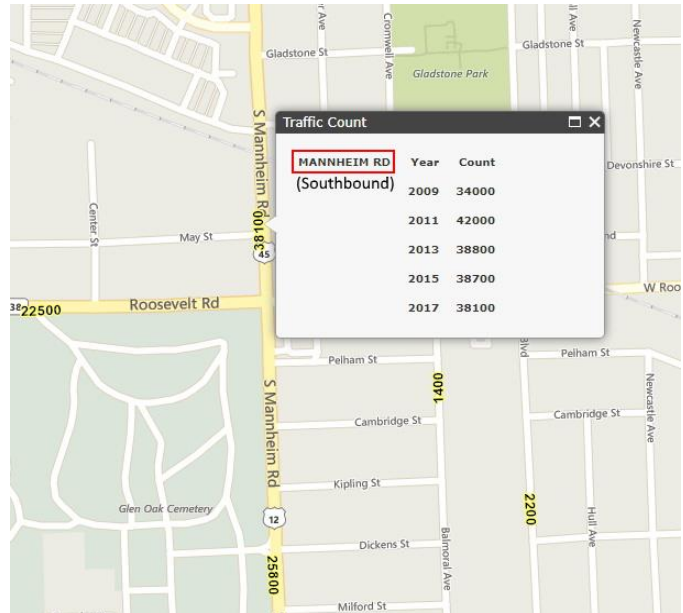
Westbound ADTC



Northbound ADTC



Southbound ADTC





4. Summary of Adjudication

The summary of tickets contested “in person” and “by mail” for the **Westbound** approach of **Roosevelt Rd and Mannheim Rd** from 2018 to 2020.

	2018	2019	2020
In Person	94	102	157
By Mail	88	101	126

The summary of tickets contested “in person” and “by mail” for the **Northbound** approach of **Roosevelt Rd and Mannheim Rd** from 2018 to 2020.

	2018	2019	2020
In Person	48	74	61
By Mail	61	59	62



5. Report Summary and Recommendation

The **Village of Westchester** uses state-of-the-art digital cameras to execute its RLR Enforcement Safety Program. The citation and adjudication process administered by the **Village of Westchester** is conducted in a courteous, professional and timely manner and is in compliance with the RLR regulations laid out by the Illinois Department of Transportation District 1 Bureau of Traffic Operations.

From 2009-2012, prior to RLR camera installation, the combined average of ADTC was 113,400. From 2014-2020, post RLR camera installation, the combined average of ADTC was 118,329 - a slight increase of 4.35%. (See tab 3)

From 2009-2012, prior to RLR camera installation, there were 61 total crashes; this averages out to 15.25 crashes a year. From 2014-2020, post RLR camera installation, there were 81 total crashes; this averages out to 11.57 crashes per year - a 24.12% reduction of overall crashes in direct comparison with the time period aforementioned. (See tab 2)

Following the installation of the RLR cameras, total crashes have gone down 24.12%, even with the increase of 4.35% in the combined average of ADTC.

After analyzing all of the available data, we believe that the RLR cameras currently in operation at the intersection of Roosevelt Rd and Mannheim Rd in the **Village of Westchester** are making a contribution toward improving traffic safety.

Because enhanced traffic safety is the principal aim of RLR camera enforcement programs, RLRC systems should remain at this intersection as an integral part of a traffic system process that incorporates public education, enforcement and engineering.