



Archer Ave and Harlem Ave

<Eastbound and Southbound>



Summit, IL RLR Follow-Up Evaluation Report

(Amendatory Act of the 103rd General Assembly)

Reference No: 016-56016
January 2024

VILLAGE OF SUMMIT

DEPARTMENT OF POLICE

5810 S. Archer Road, Summit, IL 60501

EMERGENCY:
911

NON-EMERGENCY:
(708) 563-4830

FAX:
(708) 458-9256

MEL ORTIZ
Chief of Police

mortiz124@summitpd.net

January 29, 2024

Jonathan E. Karabowicz, P.E.
Acting Area Permit Engineer

Illinois Department of Transportation
Bureau of Traffic
201 West Center Court
Schaumburg, Illinois 60196-1096

RE: RLR 1 Year Follow-Up Evaluation Report
Archer Avenue and Harlem Avenue
Village of Summit
Ref #: 016-56016

Dear Mr. Karabowicz,

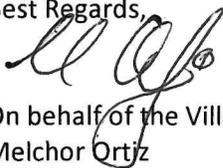
Please find enclosed copy of the 1 Year RLR follow-up evaluation report for the intersection of Archer Avenue and Harlem Avenue, Summit, Illinois.

The Village of Summit has been diligently submitting previously required all follow up reports. This report was prepared in compliance with the new law, the amendatory Act of the 103rd General Assembly.

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

If you have any questions in regards to this submittal or require additional information, please feel free to contact me at 708-563-8101 or email me at mortiz124@summitpd.net.

Best Regards,



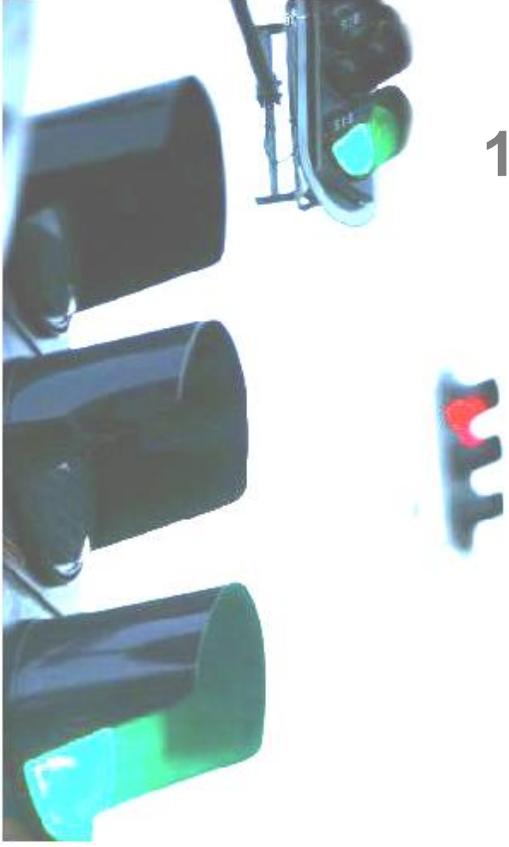
On behalf of the Village of Summit
Melchor Ortiz
Chief of Police

RLR FOLLOW-UP EVALUATION REPORT CHECKLIST

Reference Number:			Date:
Location:			Firm:
Yes	No	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Intersection location and RLR camera approaches identified
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Date of RLR camera implementation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RLR camera system manufacturer and contractor name
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crash data including 3 years prior to RLR camera installation with post period crash data
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Analysis of crash data
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signal timing changes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traffic volumes before and after RLR cameras
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Recommendations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Summary of adjudication experience and results

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1. RLR Camera Location, Live Date, System Manufacturer and Contractor

This report is prepared according to the amendatory Act of the 103rd General Assembly (k-8). Please note that 2023 data was not included in this report as 2023 crash data has not yet been released from the IDOT.

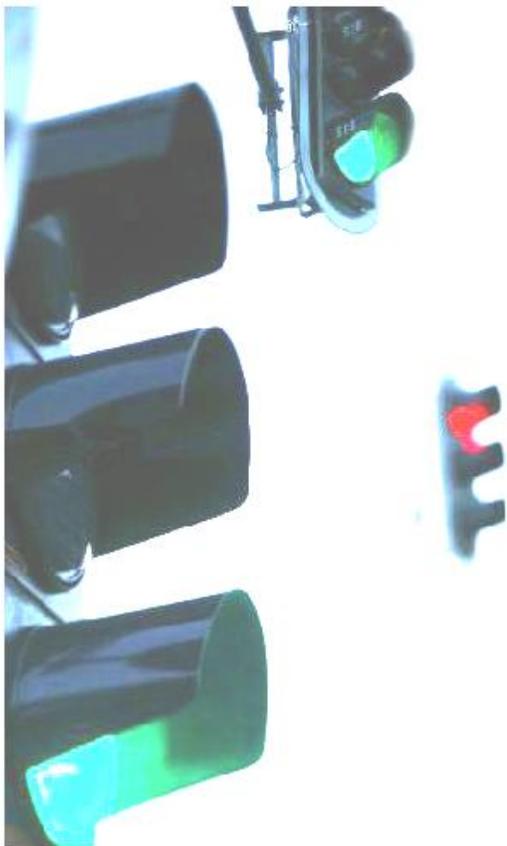
In 2012, the **Village of Summit** received approval from the Illinois Department of Transportation (IDOT) to install a Red Light Running (RLR) camera on the **Eastbound and Southbound** approaches at the intersection of **Archer Ave and Harlem Ave**.

- Date on which the cameras went live on the eastbound and southbound approach: **05/2013**
- Date on which the 1 Year Follow-Up Evaluation Report was submitted to the IDOT: **12/2015**
- Date on which the 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **06/2020**
- Date on which the 2nd 3 Year Follow-Up Evaluation Report was submitted to the IDOT: **05/2022**

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.

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

The table below shows a summary of motor vehicle crashes at the intersection of **Archer Ave and Harlem Ave** over a span of 14 years*.

	Angle	Head On/ Overturned	Turning	Rear End	Pedestrian/ Pedalcyclist	Sideswipe	Fixed Object	Parked Motor Vehicle	Total
2009	1	0	14	20	0	1	0	0	36
2010	4	0	11	16	0	0	0	0	31
2011	2	0	8	9	3	0	1	0	23
2012	1	1	8	15	0	1	0	0	26
2013	2	0	9	13	0	3	0	0	27
2014	0	1	14	9	0	0	0	0	24
2015	3	2	13	7	1	0	0	0	26
2016	3	0	7	14	0	3	1	0	28
2017	2	0	13	9	1	4	1	0	30
2018	2	0	10	9	1	0	0	1	23
2019	3	1	7	1	2	1	0	0	15
2020	1	1	9	7	0	2	0	0	20
2021	2	1	14	8	0	1	0	0	26
2022	1	0	7	4	1	1	0	0	14

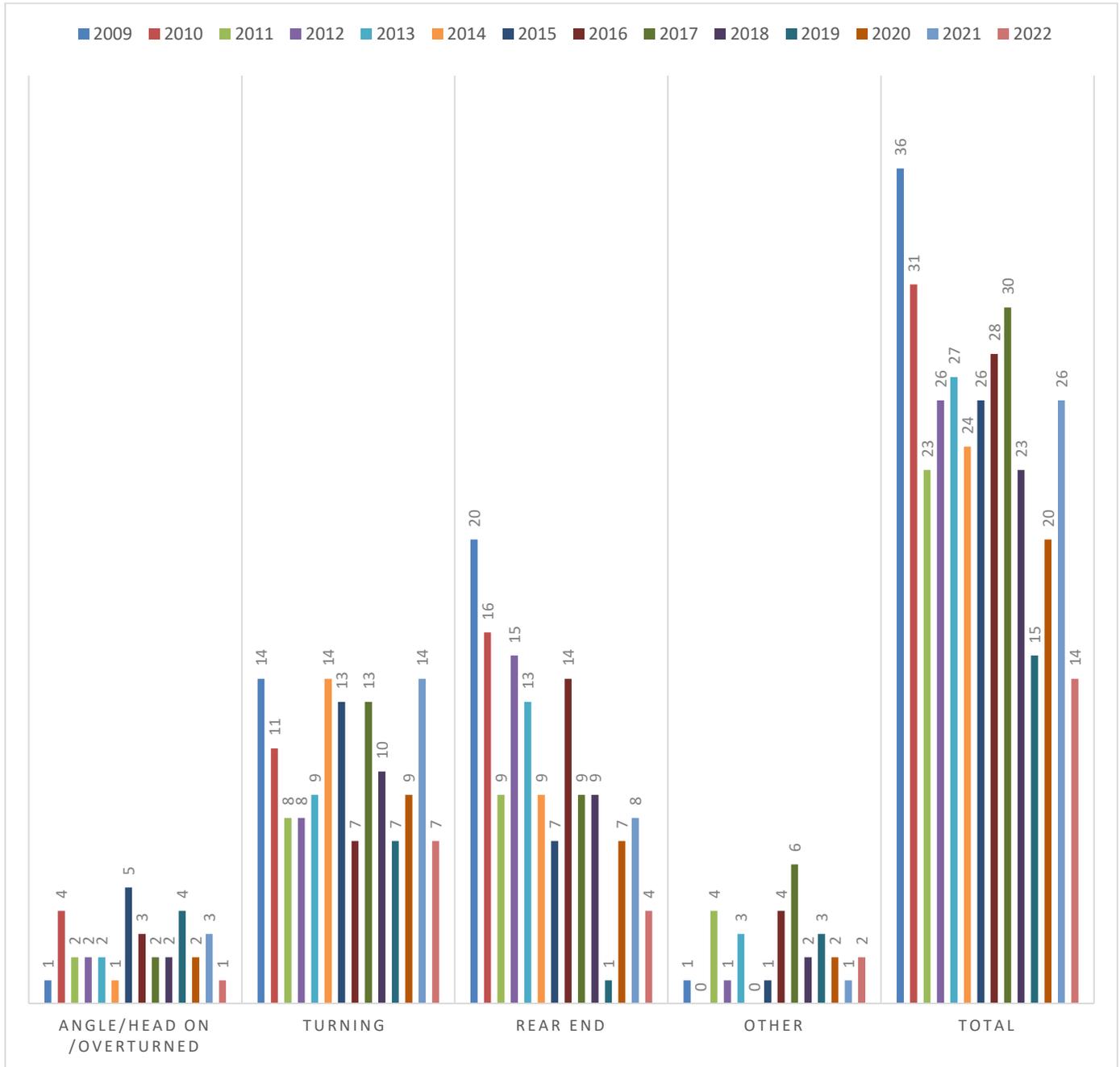
The data from 2009-2012 shows the period prior to the installation of the RLR cameras.

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

The data from 2014-2022 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 2009-2022.



	Year \ Type	Angle/ Head On/ Overturned	Turning	Rear End	Other*	Total	Yearly Average
Before Installation	2009	1	14	20	1	36	29
	2010	4	11	16	0	31	
	2011	2	8	9	4	23	
	2012	2	8	15	1	26	
	2013	2	9	13	3	27	
After Installation	2014	1	14	9	0	24	22.89
	2015	5	13	7	1	26	
	2016	3	7	14	4	28	
	2017	2	13	9	6	30	
	2018	2	10	9	2	23	
	2019	4	7	1	3	15	
	2020	2	9	7	2	20	
	2021	3	14	8	1	26	
	2022	1	7	4	2	14	

* Other crashes include: Pedestrian/Pedalcyclist, Sideswipe, Fixed Object and Parked Motor Vehicle.

From 2009-2012, prior to RLR camera installation, there were 116 total crashes; this averages out to 29 crashes a year.

From 2014-2022, post RLR camera installation, there were 206 total crashes; this averages out to 22.89 crashes per year – a 21.07% reduction of overall crashes in direct comparison with the time period aforementioned.

The following pages contain crash data summary pages from 2009-2022. 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: IL043 | From MileStation 19.92 to 19.92 | 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
36	0	0	2	6	28	0	11	0	2	9

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	14	38.9%	Monday	3	8.3%	Midnight	1	2.8%	Bus up to 15 pass	1	1.3%
11-Rear end	20	55.6%	Tuesday	5	13.9%	02 AM	2	5.6%	Motorcycle (over 150cc)	1	1.3%
12-Sideswipe same direction	1	2.8%	Wednesday	3	8.3%	03 AM	1	2.8%	Other	1	1.3%
15-Angle	1	2.8%	Thursday	7	19.4%	04 AM	1	2.8%	Passenger	48	62.3%
TOTAL:	36		Friday	5	13.9%	06 AM	2	5.6%	Pickup	7	9.1%
			Saturday	10	27.8%	08 AM	3	8.3%	Sport utility vehicle (SUV)	13	16.9%
			Sunday	3	8.3%	10 AM	3	8.3%	Truck - single unit	1	1.3%
			TOTAL:	36		11 AM	1	2.8%	Unknown/NA	1	1.3%
						Noon	1	2.8%	Van/mini van	4	5.2%
						2 PM	2	5.6%	TOTAL:	77	
						3 PM	1	2.8%			
						4 PM	3	8.3%			
						5 PM	1	2.8%			
						6 PM	5	13.9%			
						7 PM	4	11.1%			
						8 PM	2	5.6%			
						9 PM	1	2.8%			
						10 PM	1	2.8%			
						11 PM	1	2.8%			
						TOTAL:	36				

Collision Diagram

1/1/2010 to 12/31/2010

Crash Route: IL043 | From MileStation 19.92 to 19.92 | 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
31	0	2	3	4	22	0	14	2	4	8

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	11	35.5%	Monday	1	3.2%	Midnight	1	3.2%	Bus over 15 pass.	1	1.5%
11-Rear end	16	51.6%	Tuesday	4	12.9%	01 AM	1	3.2%	Passenger	42	63.6%
15-Angle	4	12.9%	Wednesday	5	16.1%	02 AM	2	6.5%	Pickup	7	10.6%
TOTAL:	31		Thursday	10	32.3%	04 AM	2	6.5%	Sport utility vehicle (SUV)	11	16.7%
			Friday	3	9.7%	05 AM	2	6.5%	Tractor w/o semi-trailer	1	1.5%
			Saturday	2	6.5%	08 AM	3	9.7%	Truck – single unit	1	1.5%
			Sunday	6	19.4%	10 AM	3	9.7%	Van/mini van	3	4.5%
			TOTAL:	31		11 AM	4	12.9%	TOTAL:	66	
						1 PM	2	6.5%			
						2 PM	3	9.7%			
						3 PM	1	3.2%			
						5 PM	1	3.2%			
						7 PM	1	3.2%			
						8 PM	2	6.5%			
						9 PM	2	6.5%			
						10 PM	1	3.2%			
						TOTAL:	31				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	28	90.3%	Darkness/Lighted road	14	45.2%	Dry	27	87.1%	East	20	30.3%
Other	1	3.2%	Daylight	17	54.8%	Snow or slush	2	6.5%	North	19	28.8%

Collision Diagram

1/1/2011 to 12/31/2011

Crash Route: IL043 | From MileStation 19.92 to 19.92 | 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
23	0	2	7	0	14	0	14	2	10	2

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
10-Turning	8	34.8%	Tuesday	5	21.7%	01 AM	1	4.3%	Motor driven cycle	1	2.2%
11-Rear end	9	39.1%	Wednesday	2	8.7%	02 AM	1	4.3%	Motorcycle (over 150cc)	1	2.2%
15-Angle	2	8.7%	Thursday	5	21.7%	05 AM	3	13.0%	Passenger	23	51.1%
1-Pedestrian	2	8.7%	Friday	3	13.0%	06 AM	1	4.3%	Pickup	3	6.7%
2-Pedalcyclist	1	4.3%	Saturday	3	13.0%	11 AM	3	13.0%	Sport utility vehicle (SUV)	6	13.3%
6-Fixed object	1	4.3%	Sunday	5	21.7%	1 PM	2	8.7%	Tractor w/ semi-trailer	2	4.4%
TOTAL:	23		TOTAL:	23		5 PM	3	13.0%	Tractor w/o semi-trailer	2	4.4%
						6 PM	2	8.7%	Truck – single unit	3	6.7%
						8 PM	1	4.3%	Van/mini van	4	8.9%
						9 PM	3	13.0%	TOTAL:	45	
						10 PM	1	4.3%			
						11 PM	2	8.7%			
						TOTAL:	23				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	17	73.9%	Darkness	3	13.0%	Dry	16	69.6%	East	10	22.2%
Other	1	4.3%	Darkness/Lighted road	11	47.8%	Unknown	1	4.3%	North	17	37.8%
Rain	5	21.7%	Daylight	9	39.1%	Wet	6	26.1%	Northeast	1	2.2%
TOTAL:	23		TOTAL:	23		TOTAL:	23		Northwest	2	4.4%
									South	3	6.7%
									Southeast	2	4.4%

Collision Diagram

1/1/2012 to 12/31/2012

Crash Route: IL043 | From MileStation 19.92 to 19.92 | 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
26	0	1	3	2	20	0	11	1	5	5

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	3.8%	Monday	6	23.1%	Midnight	1	3.8%	Motorcycle (Over 150cc)	1	1.9%
Overturned	1	3.8%	Tuesday	1	3.8%	01 AM	1	3.8%	Passenger	31	57.4%
Rear End	15	57.7%	Wednesday	3	11.5%	02 AM	1	3.8%	Pickup	3	5.6%
Sideswipe Same Direction	1	3.8%	Thursday	3	11.5%	03 AM	2	7.7%	SUV	12	22.2%
Turning	8	30.8%	Friday	4	15.4%	04 AM	1	3.8%	Tractor With Semi-Trailer	3	5.6%
TOTAL:	26		Saturday	5	19.2%	05 AM	1	3.8%	Van/Mini-Van	4	7.4%
			Sunday	4	15.4%	06 AM	4	15.4%	TOTAL:	54	
			TOTAL:	26		07 AM	2	7.7%			
						08 AM	1	3.8%			
						09 AM	2	7.7%			
						11 AM	2	7.7%			
						Noon	1	3.8%			
						1 PM	1	3.8%			
						3 PM	1	3.8%			
						6 PM	3	11.5%			
						7 PM	1	3.8%			
						11 PM	1	3.8%			
						TOTAL:	26				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	22	84.6%	Darkness	4	15.4%	Dry	20	76.9%	East	11	20.4%

Collision Diagram

1/1/2013 to 12/31/2013

Crash Route: IL043 | From MileStation 19.92 to 19.92 | 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
27	0	0	1	4	22	0	8	0	1	7

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	7.4%	Monday	2	7.4%	01 AM	1	3.7%	Motorcycle (Over 150cc)	1	1.6%
Rear End	13	48.1%	Tuesday	4	14.8%	02 AM	1	3.7%	Passenger	40	62.5%
Sideswipe Same Direction	3	11.1%	Wednesday	8	29.6%	03 AM	2	7.4%	Pickup	3	4.7%
Turning	9	33.3%	Thursday	5	18.5%	06 AM	2	7.4%	SUV	10	15.6%
TOTAL:	27		Friday	4	14.8%	08 AM	1	3.7%	Tractor With Semi-Trailer	2	3.1%
			Saturday	3	11.1%	09 AM	3	11.1%	Truck Single Unit	1	1.6%
			Sunday	1	3.7%	10 AM	1	3.7%	Van/Mini-Van	7	10.9%
			TOTAL:	27		11 AM	1	3.7%	TOTAL:	64	
						Noon	1	3.7%			
						1 PM	1	3.7%			
						3 PM	2	7.4%			
						4 PM	2	7.4%			
						5 PM	3	11.1%			
						7 PM	3	11.1%			
						9 PM	1	3.7%			
						10 PM	1	3.7%			
						11 PM	1	3.7%			
						TOTAL:	27				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	20	74.1%	Darkness	1	3.7%	Dry	19	70.4%	East	17	26.6%

Collision Diagram

1/1/2014 to 12/31/2014

Crash Route: IL043 | From MileStation 19.92 to 19.92 | 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
24	0	0	4	3	17	0	17	0	9	8

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Head On	1	4.2%	Monday	3	12.5%	01 AM	1	4.2%	Motorcycle (Over 150cc)	1	2.1%
Rear End	9	37.5%	Tuesday	3	12.5%	06 AM	2	8.3%	Passenger	35	72.9%
Turning	14	58.3%	Wednesday	2	8.3%	07 AM	1	4.2%	Pickup	1	2.1%
TOTAL:	24		Thursday	5	20.8%	08 AM	1	4.2%	SUV	7	14.6%
			Friday	5	20.8%	09 AM	1	4.2%	Tractor With Semi-Trailer	1	2.1%
			Saturday	3	12.5%	11 AM	4	16.7%	Truck Single Unit	3	6.3%
			Sunday	3	12.5%	Noon	1	4.2%	TOTAL:	48	
			TOTAL:	24		2 PM	1	4.2%			
						3 PM	1	4.2%			
						5 PM	1	4.2%			
						6 PM	1	4.2%			
						7 PM	2	8.3%			
						8 PM	4	16.7%			
						9 PM	1	4.2%			
						10 PM	1	4.2%			
						11 PM	1	4.2%			
						TOTAL:	24				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	19	79.2%	Darkness	3	12.5%	Dry	16	66.7%	East	16	33.3%
Rain	3	12.5%	Darkness/ Lighted Road	9	37.5%	Snow or Slush	2	8.3%	North	8	16.7%

Coordinate Collision Diagram Report

1/1/2015 to 12/31/2015

For XCoordinate 2941538.3563855 : YCoordinate 1875584.19510101 | 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>26</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>24</u>	<u>0</u>	<u>3</u>	<u>0</u>	<u>1</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	11.5%	Monday	3	11.5%	Midnight	1	3.8%	Passenger	34	64.2%
Head On	2	7.7%	Tuesday	4	15.4%	05 AM	4	15.4%	Pickup	1	1.9%
Pedestrian	1	3.8%	Wednesday	4	15.4%	09 AM	1	3.8%	SUV	11	20.8%
Rear End	7	26.9%	Thursday	4	15.4%	10 AM	2	7.7%	Tractor With Semi-Trailer	1	1.9%
Turning	13	50.0%	Friday	1	3.8%	Noon	3	11.5%	Unknown	1	1.9%
TOTAL:	26		Saturday	8	30.8%	1 PM	2	7.7%	Van/Mini-Van	5	9.4%
			Sunday	2	7.7%	2 PM	2	7.7%	TOTAL:	53	
			TOTAL:	26		3 PM	2	7.7%			
						4 PM	1	3.8%			
						5 PM	1	3.8%			
						6 PM	1	3.8%			
						7 PM	2	7.7%			
						8 PM	1	3.8%			
						9 PM	1	3.8%			
						10 PM	1	3.8%			
						11 PM	1	3.8%			
						TOTAL:	26				

Coordinate Collision Diagram Report

1/1/2016 to 12/31/2016

For XCoordinate 2941538.3563855 : YCoordinate 1875584.19510101 | 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>28</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>1</u>	<u>23</u>	<u>0</u>	<u>6</u>	<u>0</u>	<u>5</u>	<u>1</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	10.7%	Monday	1	3.6%	Midnight	2	7.1%	Passenger	33	57.9%
Fixed Object	1	3.6%	Tuesday	6	21.4%	03 AM	2	7.1%	Pickup	6	10.5%
Rear End	14	50.0%	Wednesday	7	25.0%	04 AM	1	3.6%	SUV	6	10.5%
Sideswipe Same Direction	3	10.7%	Thursday	3	10.7%	06 AM	1	3.6%	Tractor With Semi-Trailer	5	8.8%
Turning	7	25.0%	Friday	3	10.7%	07 AM	1	3.6%	Tractor Without Semi-Trailer	1	1.8%
TOTAL:	28		Saturday	3	10.7%	08 AM	2	7.1%	Truck Single Unit	1	1.8%
			Sunday	5	17.9%	10 AM	2	7.1%	Van/Mini-Van	5	8.8%
			TOTAL:	28		11 AM	1	3.6%	TOTAL:	57	
						Noon	3	10.7%			
						1 PM	2	7.1%			
						2 PM	3	10.7%			
						4 PM	3	10.7%			
						5 PM	1	3.6%			
						6 PM	2	7.1%			
						8 PM	2	7.1%			
						TOTAL:	28				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	22	78.6%	Darkness	2	7.1%	Dry	21	75.0%	East	10	17.5%

Coordinate Collision Diagram Report

1/1/2017 to 12/31/2017

For XCoordinate 2941538.3563855 : YCoordinate 1875584.19510101 | 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>30</u>	<u>0</u>	<u>0</u>	<u>6</u>	<u>2</u>	<u>22</u>	<u>0</u>	<u>13</u>	<u>0</u>	<u>9</u>	<u>4</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	6.7%	Monday	2	6.7%	01 AM	1	3.3%	Passenger	33	53.2%
Fixed Object	1	3.3%	Tuesday	6	20.0%	02 AM	1	3.3%	Pickup	7	11.3%
Pedestrian	1	3.3%	Wednesday	5	16.7%	06 AM	2	6.7%	SUV	9	14.5%
Rear End	9	30.0%	Thursday	4	13.3%	07 AM	2	6.7%	Tractor With Semi-Trailer	3	4.8%
Sideswipe Opposite Direction	1	3.3%	Friday	7	23.3%	08 AM	3	10.0%	Tractor Without Semi-Trailer	2	3.2%
Sideswipe Same Direction	3	10.0%	Saturday	5	16.7%	09 AM	2	6.7%	Truck Single Unit	1	1.6%
Turning	13	43.3%	Sunday	1	3.3%	Noon	1	3.3%	Unknown	1	1.6%
TOTAL:	30		TOTAL:	30		1 PM	4	13.3%	Van/Mini-Van	6	9.7%
						2 PM	2	6.7%	TOTAL:	62	
						3 PM	1	3.3%			
						4 PM	4	13.3%			
						5 PM	1	3.3%			
						6 PM	3	10.0%			
						7 PM	2	6.7%			
						11 PM	1	3.3%			
						TOTAL:	30				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	23	76.7%	Darkness	1	3.3%	Dry	24	80.0%	East	7	11.3%

Coordinate Collision Diagram Report

1/1/2018 to 12/31/2018

For XCoordinate 2941536.721 : YCoordinate 1875584.622 | 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>23</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>18</u>	<u>1</u>	<u>7</u>	<u>1</u>	<u>4</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	8.7%	Monday	6	26.1%	02 AM	1	4.3%	Passenger	24	50.0%
Front to Rear	9	39.1%	Tuesday	2	8.7%	04 AM	3	13.0%	Pickup	6	12.5%
Parked Motor Vehicle	1	4.3%	Wednesday	2	8.7%	05 AM	2	8.7%	SUV	11	22.9%
Pedestrian	1	4.3%	Thursday	5	21.7%	06 AM	3	13.0%	Tractor With Semi-Trailer	4	8.3%
Turning	10	43.5%	Friday	1	4.3%	Noon	2	8.7%	Unknown	2	4.2%
TOTAL:	23		Saturday	3	13.0%	1 PM	1	4.3%	Van/Mini-Van	1	2.1%
			Sunday	4	17.4%	3 PM	1	4.3%	TOTAL:	48	
			TOTAL:	23		4 PM	3	13.0%			
						6 PM	1	4.3%			
						7 PM	2	8.7%			
						8 PM	1	4.3%			
						10 PM	2	8.7%			
						11 PM	1	4.3%			
						TOTAL:	23				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	19	82.6%	Darkness	3	13.0%	Dry	18	78.3%	East	8	16.7%
Rain	2	8.7%	Darkness, Lighted Road	8	34.8%	Snow or Slush	2	8.7%	North	6	12.5%
Snow	1	4.3%	Daylight	11	47.8%	Unknown	1	4.3%	Northeast	2	4.2%

Coordinate Collision Diagram Report

1/1/2019 to 12/31/2019

For XCoordinate 2941536.721 : YCoordinate 1875584.622 | 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>15</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>10</u>	<u>1</u>	<u>5</u>	<u>1</u>	<u>3</u>	<u>1</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	3	20.0%	Monday	2	13.3%	02 AM	1	6.7%	Other	1	3.1%
Front to Front	1	6.7%	Tuesday	1	6.7%	03 AM	2	13.3%	Passenger	23	71.9%
Front to Rear	1	6.7%	Wednesday	1	6.7%	05 AM	1	6.7%	Pickup	2	6.3%
Pedestrian	2	13.3%	Thursday	1	6.7%	10 AM	2	13.3%	SUV	4	12.5%
Sideswipe Same Direction	1	6.7%	Friday	3	20.0%	Noon	1	6.7%	Tractor With Semi-Trailer	2	6.3%
Turning	7	46.7%	Saturday	5	33.3%	3 PM	2	13.3%	TOTAL:	32	
TOTAL:	15		Sunday	2	13.3%	6 PM	1	6.7%			
			TOTAL:	15		7 PM	1	6.7%			
						8 PM	1	6.7%			
						9 PM	1	6.7%			
						10 PM	1	6.7%			
						11 PM	1	6.7%			
						TOTAL:	15				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	12	80.0%	Darkness	3	20.0%	Dry	10	66.7%	East	8	25.0%
Rain	2	13.3%	Darkness, Lighted Road	6	40.0%	Snow or Slush	1	6.7%	North	5	15.6%
Snow	1	6.7%	Daylight	6	40.0%	Wet	4	26.7%	South	11	34.4%
TOTAL:	15		TOTAL:	15		TOTAL:	15		Southeast	1	3.1%

Coordinate Collision Diagram Report

1/1/2020 to 12/31/2020

For XCoordinate 2941536.721 : YCoordinate 1875584.622 | 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>20</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>2</u>	<u>15</u>	<u>0</u>	<u>7</u>	<u>0</u>	<u>4</u>	<u>3</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	5.0%	Monday	5	25.0%	04 AM	1	5.0%	Motorcycle	1	2.5%
Front to Rear	7	35.0%	Tuesday	2	10.0%	05 AM	1	5.0%	Passenger	32	80.0%
Overtaken	1	5.0%	Wednesday	2	10.0%	06 AM	3	15.0%	Single Unit Truck with Trailer	2	5.0%
Sideswipe Same Direction	2	10.0%	Thursday	7	35.0%	08 AM	1	5.0%	SUV	1	2.5%
Turning	9	45.0%	Friday	2	10.0%	10 AM	1	5.0%	Tractor With Semi-Trailer	1	2.5%
TOTAL:	20		Saturday	2	10.0%	Noon	1	5.0%	Tractor Without Semi-Trailer	1	2.5%
			TOTAL:	20		3 PM	4	20.0%	Unknown	1	2.5%
						5 PM	2	10.0%	Van/Mini-Van	1	2.5%
						6 PM	2	10.0%	TOTAL:	40	
						7 PM	2	10.0%			
						8 PM	1	5.0%			
						9 PM	1	5.0%			
						TOTAL:	20				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	15	75.0%	Darkness, Lighted Road	5	25.0%	Dry	13	65.0%	East	11	27.5%
Cloudy/Overcast	2	10.0%	Dawn	3	15.0%	Snow or Slush	1	5.0%	North	10	25.0%
Rain	3	15.0%	Daylight	10	50.0%	Wet	6	30.0%	Northeast	2	5.0%
TOTAL:	20					TOTAL:	20		Northwest	1	2.5%

Coordinate Collision Diagram Report

1/1/2021 to 12/31/2021

For XCoordinate 2941539.617 : YCoordinate 1875586.277 | 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>26</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>22</u>	<u>1</u>	<u>6</u>	<u>1</u>	<u>3</u>	<u>2</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	2	7.7%	Monday	3	11.5%	Midnight	2	7.7%	Bus 9 to 15 seats	1	1.9%
Front to Front	1	3.8%	Tuesday	4	15.4%	01 AM	2	7.7%	Motorcycle	1	1.9%
Front to Rear	8	30.8%	Wednesday	3	11.5%	03 AM	2	7.7%	Passenger	36	67.9%
Sideswipe Same Direction	1	3.8%	Thursday	4	15.4%	04 AM	1	3.8%	Pickup	8	15.1%
Turning	14	53.8%	Friday	5	19.2%	06 AM	2	7.7%	SUV	2	3.8%
TOTAL:	26		Saturday	2	7.7%	07 AM	2	7.7%	Tractor With Semi-Trailer	2	3.8%
			Sunday	5	19.2%	10 AM	4	15.4%	Unknown	2	3.8%
			TOTAL:	26		Noon	1	3.8%	Van/Mini-Van	1	1.9%
						2 PM	2	7.7%	TOTAL:	53	
						4 PM	3	11.5%			
						6 PM	2	7.7%			
						9 PM	1	3.8%			
						10 PM	2	7.7%			
						TOTAL:	26				
Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	22	84.6%	Darkness	1	3.8%	Dry	24	92.3%	East	1	1.9%
Cloudy/Overcast	1	3.8%	Darkness, Lighted Road	7	26.9%	Wet	2	7.7%	North	13	24.5%
			Dawn	1	3.8%	TOTAL:	26		Northwest	2	3.8%

Coordinate Collision Diagram Report

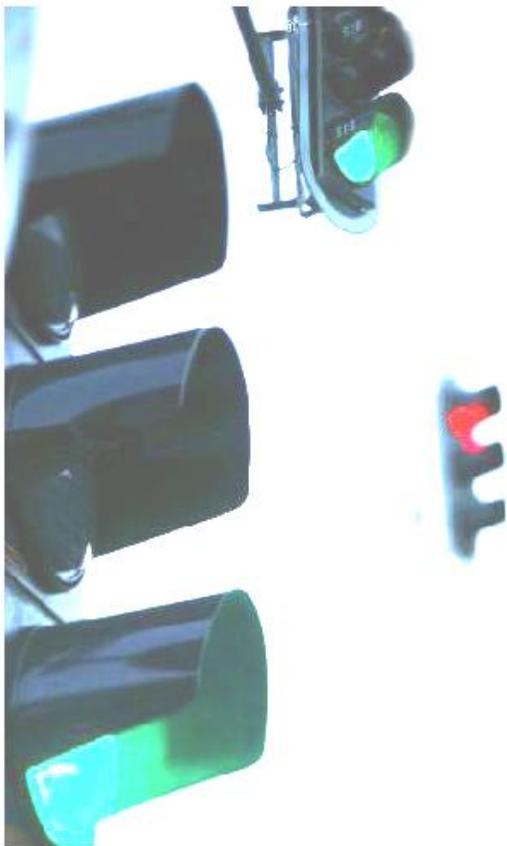
1/1/2022 to 12/31/2022

For XCoordinate 2941539.637 : YCoordinate 1875583.764 | 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>14</u>	<u>0</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>10</u>	<u>0</u>	<u>5</u>	<u>1</u>	<u>3</u>	<u>1</u>

Type of Crash	Total	%	Day of Wk	Total	%	Hour of Day	Total	%	Vehicle Type	Total	%
Angle	1	7.1%	Monday	1	7.1%	03 AM	1	7.1%	Passenger	10	35.7%
Front to Rear	4	28.6%	Tuesday	1	7.1%	04 AM	1	7.1%	Pickup	3	10.7%
Pedestrian	1	7.1%	Wednesday	2	14.3%	08 AM	2	14.3%	Single Unit Truck with Trailer	1	3.6%
Sideswipe Same Direction	1	7.1%	Thursday	3	21.4%	Noon	1	7.1%	SUV	7	25.0%
Turning	7	50.0%	Friday	4	28.6%	1 PM	1	7.1%	Tractor Without Semi-Trailer	1	3.6%
TOTAL:	14		Sunday	3	21.4%	2 PM	2	14.3%	Truck Single Unit	1	3.6%
			TOTAL:	14		3 PM	3	21.4%	Van/Mini-Van	5	17.9%
						5 PM	1	7.1%	TOTAL:	28	
						7 PM	1	7.1%			
						8 PM	1	7.1%			
						TOTAL:	14				

Weather Cond	Total	%	Light Cond	Total	%	Road Surface	Total	%	DIRP	Total	%
Clear	12	85.7%	Darkness	1	7.1%	Dry	11	78.6%	East	8	28.6%
Snow	1	7.1%	Darkness, Lighted Road	4	28.6%	Snow or Slush	1	7.1%	North	9	32.1%
Unknown	1	7.1%	Daylight	8	57.1%	Unknown	1	7.1%	Northeast	1	3.6%
TOTAL:	14		Dusk	1	7.1%	Wet	1	7.1%	South	5	17.9%
			TOTAL:	14		TOTAL:	14		West	5	17.9%
									TOTAL:	28	



3. Traffic Volume

The table below shows a summary of the Average Daily Traffic Count (ADTC) at the intersection of **Archer Ave and Harlem Ave** over a span of 13 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 2010-2012 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 2014-2022 shows the period following the installation.

	Direction Year	Eastbound	Westbound	Northbound	Southbound	Combined	Combined Avg
Before Installation	2010	29,000	33,800	45,500	43,800	152,100	152,933
	2011	29,000	33,800	45,500	43,800	152,100	
	2012	29,000	33,800	45,800	46,000	154,600	
	2013	29,000	33,800	45,100	45,600	153,500	
After Installation	2014	26,500	29,500	45,100	45,600	146,700	145,111
	2015	26,500	29,500	40,000	44,700	140,700	
	2016	26,500	29,500	40,000	44,700	140,700	
	2017	26,500	29,500	46,800	38,900	141,700	
	2018	28,200	32,200	46,800	38,900	146,100	
	2019	28,200	32,200	44,200	42,700	147,300	
	2020	28,200	32,200	44,200	42,700	147,300	
	2021	28,200	32,200	44,200	42,700	147,300	
	2022	29,600	31,700	44,200	42,700	148,200	

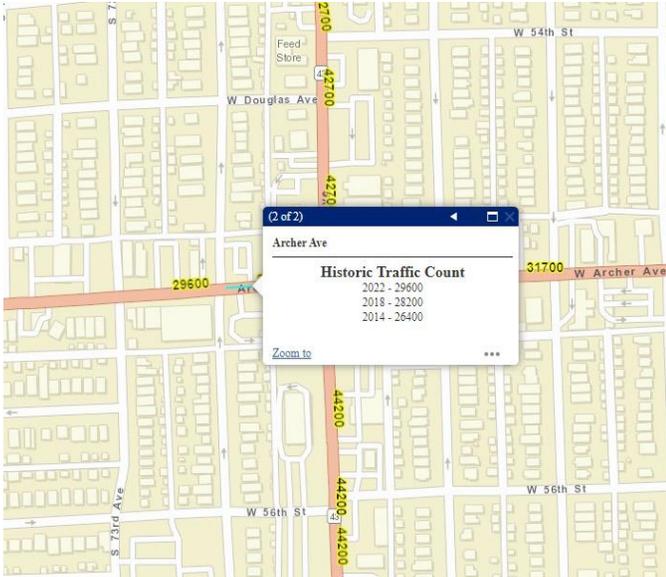
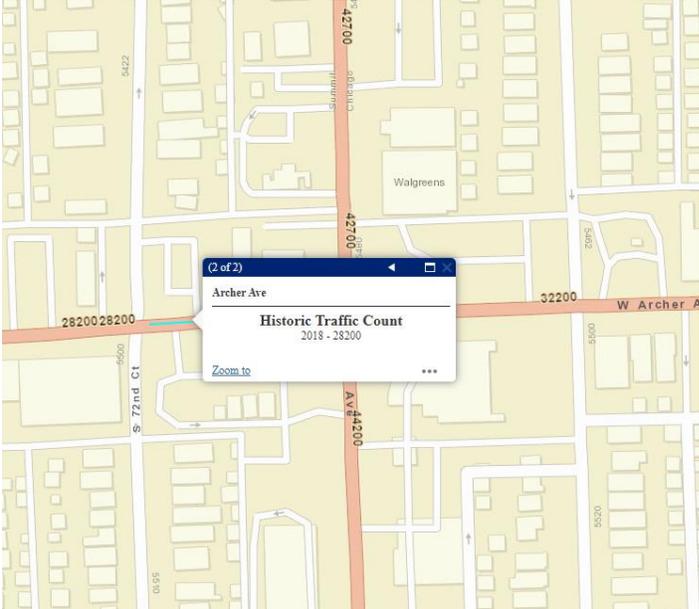
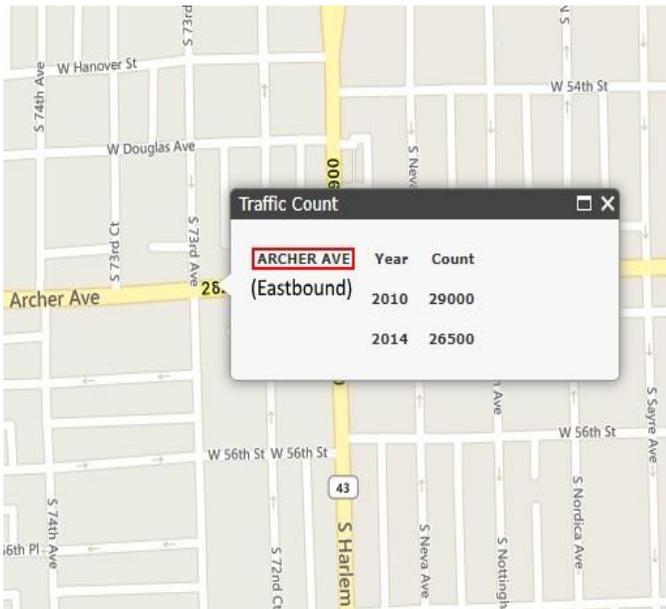
From 2010-2012, prior to RLR camera installation, the combined average of ADTC was 152,933.

From 2014-2022, post RLR camera installation, the combined average of ADTC was 145,111 - a slight decrease of 5.11%.

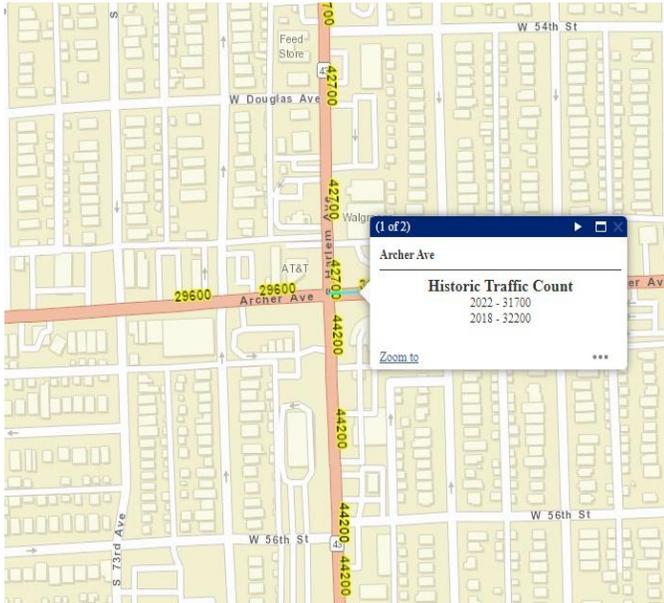
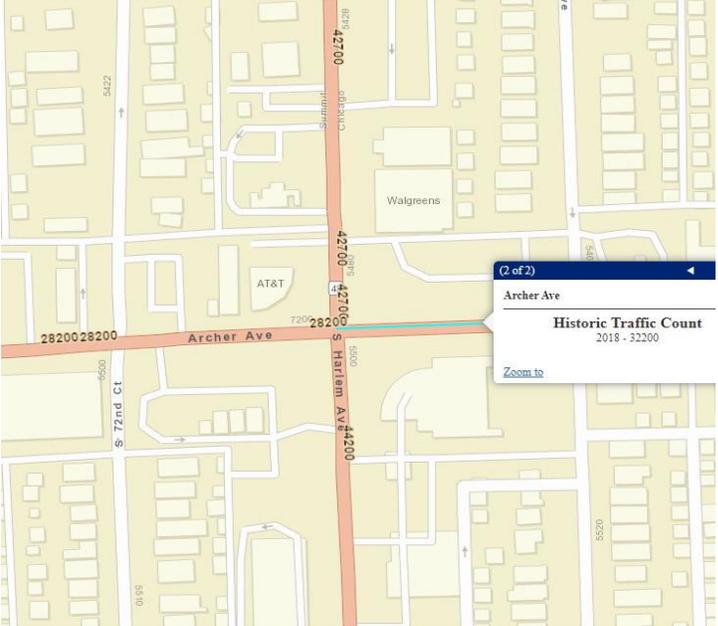
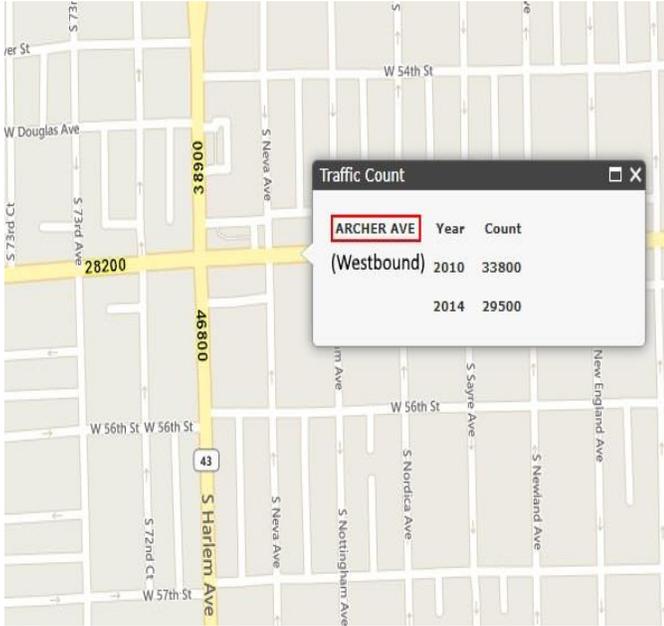
The following page shows the complete ADTC data from 2010-2022 obtained from the IDOT's website.

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

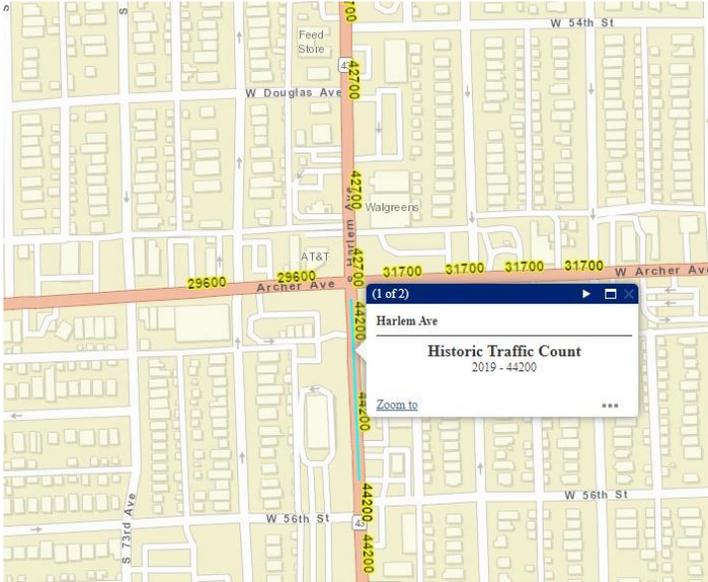
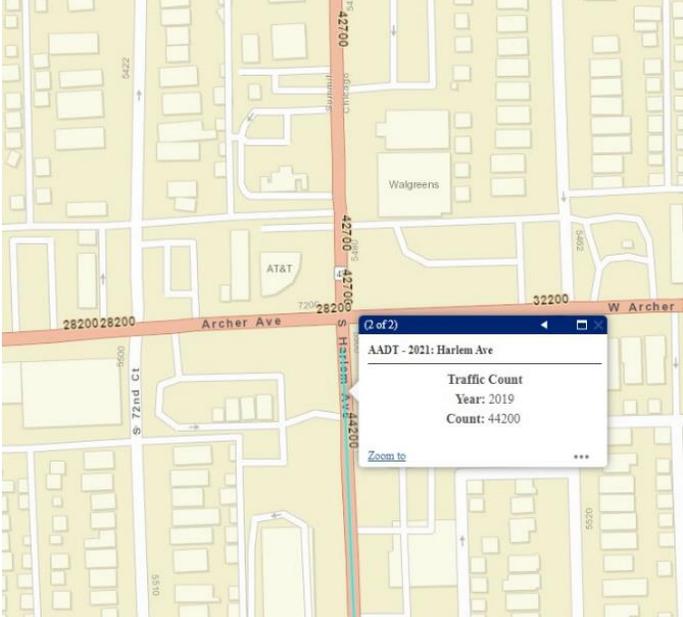
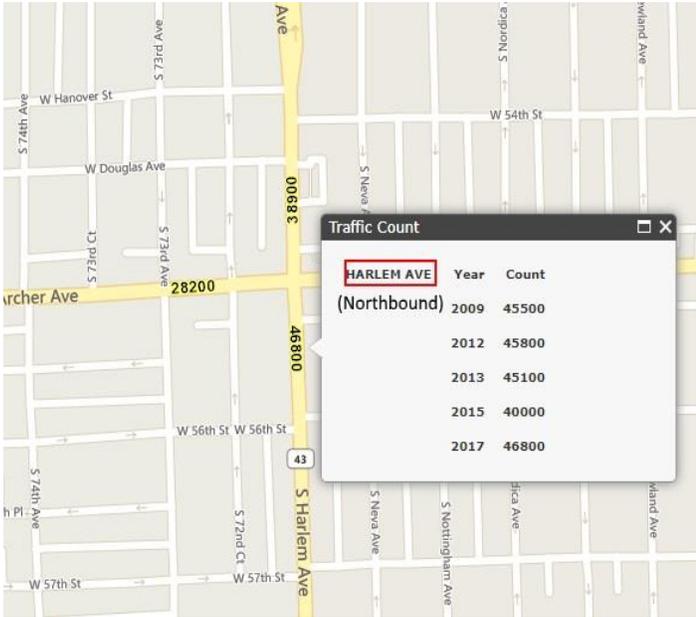
Eastbound ADTC



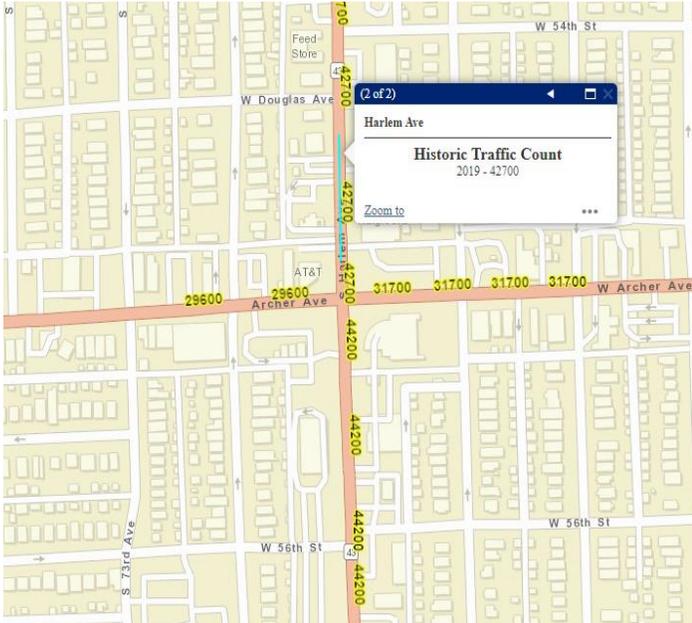
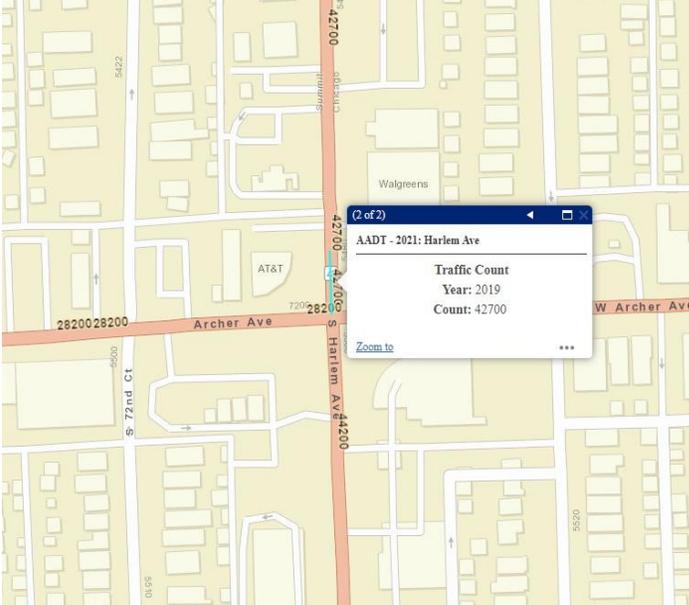
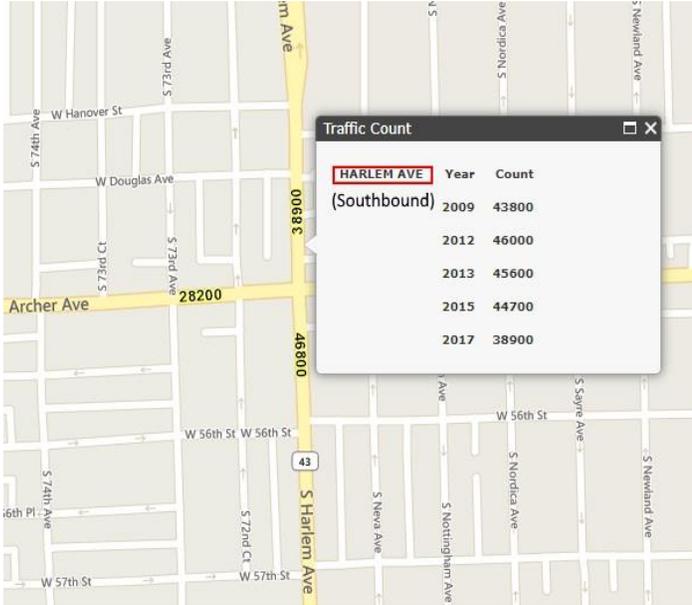
Westbound ADTC



Northbound ADTC



Southbound ADTC





4. Summary of Adjudication



The summary of tickets contested “in person” and “by mail” for the **Eastbound** approach of **Archer Ave and Harlem Ave** from 2021 to 2022.

	2021	2022
In Person	29	0
By Mail	14	0

The summary of tickets contested “in person” and “by mail” for the **Southbound** approach of **Archer Ave and Harlem Ave** from 2021 to 2022.

	2021	2022
In Person	13	0
By Mail	14	0



5. Report Summary and Recommendation

The **Village of Summit** uses state-of-the-art digital cameras to execute its RLR Enforcement Safety Program. The citation and adjudication process administered by the **Village of Summit** 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 2010-2012, prior to RLR camera installation, the combined average of ADTC was 152,933. From 2014-2022, post RLR camera installation, the combined average of ADTC was 145,111 - a slight decrease of 5.11%. (See tab 3)

From 2009-2012, prior to RLR camera installation, there were 116 total crashes; this averages out to 29 crashes a year. From 2014-2022, post RLR camera installation, there were 206 total crashes; this averages out to 22.89 crashes per year – a 21.07% 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 21.07%, with the slight reduction of 5.11% 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 Archer Ave and Harlem Ave in the **Village of Summit** 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.