2016 CITY OF CHICAGO AUTOMATED ENFORCEMENT PROGRAM

Water To

ANNUAL REPORT



OF TRANSPORTATION

2016 Annual Report | A Note from the Commissioner

On behalf of the Chicago Department of Transportation (CDOT), I am pleased to present our third annual status report on the City of Chicago's two automated enforcement programs: Red Light Camera Enforcement and Automated Speed Enforcement. CDOT remains committed to transparency in automated enforcement operations, as well as to educating the public about how our two automated enforcement programs work and the traffic safety benefits they provide to the residents of Chicago.

Since the launch of automated enforcement in 2003, Chicago has seen a 40 percent reduction in traffic crashes resulting in injuries or fatalities. The latest traffic safety data shows injury crashes are declining at a faster rate in automated speed enforcement zones than in the rest of the city. An analysis of citywide traffic crash data for 2014 found that in the 21 Child Safety Zones where an ASE camera was installed in 2013, injury crashes were down 18 percent between 2012 and 2014, compared to only a four percent reduction citywide.

Early in 2017, the Northwestern University Transportation Center released a study of Chicago's Red Light Camera program that found it has delivered "significant safety benefits," including a 19 percent reduction in side-angle and turning crashes (the type of crashes that cause the most serious injuries) and a 10 percent reduction in all injury-producing crashes. The Northwestern study was also the first to document a measurable "spillover effect," meaning crashes also decreased at intersections without cameras.

I am proud that Mayor Emanuel announced in 2016 that the City of Chicago is expanding its commitment to saving lives and preventing serious injuries by launching Vision Zero Chicago, joining an international movement to make streets safer for people walking, biking and driving. The goal of the Vision Zero initiative is to reduce the number of roadway crashes and eventually eliminate all traffic fatalities and serious injuries in Chicago by 2026. The Vision Zero Chicago Action Plan, to be released in 2017, will seek to inspire a culture of safety through education and outreach. It will lay out a data-driven, multi-agency approach that prioritizes improving roadway design and focuses education and enforcement on the most dangerous driving behaviors. I hope you and your friends and neighbors can learn more about Vision Zero and will join CDOT and our traffic safety partners in this life-saving effort.

Rebekah Scheinfeld Commissioner



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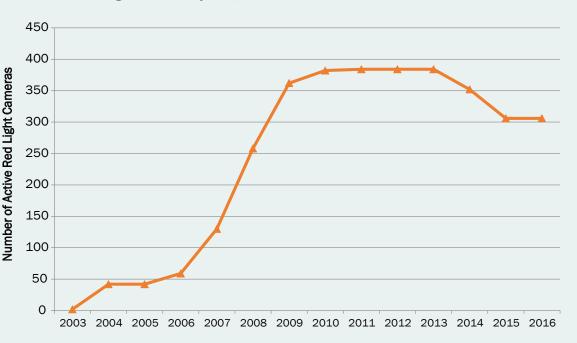
Background on Red Light Camera Enforcement

On July 9, 2003, the City of Chicago enacted an ordinance authorizing the use of automated red light enforcement at signalized intersections throughout the city. The Chicago Department of Transportation (CDOT) managed the program when it began in 2003 and continued until 2006, then the responsibility shifted to the Office of Emergency Management and Communications (OEMC). Those management responsibilities were then returned back to CDOT in January 2010.

In 2003, the City contracted with Redflex Traffic Systems, Inc., to install, test, operate, and maintain all hardware, software, and equipment communications to enable a citywide automated red light enforcement program in Chicago. The first automated red light enforcement cameras were installed and activated in November 2003 at intersections with known safety concerns. By 2011, the program had grown to 384 automated red light cameras operating at 190 city intersections.

In February 2013, the City issued a request for proposals to continue the automated red light enforcement program. In October 2013, the City awarded Xerox State and Local Solutions, Inc./ Conduent (Xerox) a five-year contract to continue the existing program. As required under the contract, Xerox replaced all of the red light camera hardware and software with modern, more reliable technology.

Since 2013, CDOT has annually conducted a review of safety at all red light camera locations. Certain intersections have been considered for the removal of automated enforcement when there are changes to driving behavior, as indicated by a low number of right-angle crashes. While all crashes are potentially hazardous, red light cameras are designed to reduce right-angle (or "t-bone")



Number of Red Light Cameras by Year, 2003-2016

crashes because of the extreme danger to those involved. Angle crashes are most likely to result in serious injury or fatalities.* In late 2013, CDOT decided to remove 32 cameras from 16 intersections based on review of crash data. Another review in 2015 led to 46 cameras being removed from 23 intersections. As of December 2016, the City has 306 cameras operating at 151 intersections.

According to Illinois Department of Transportation (IDOT) data from 2005 to 2014** at 151 intersections that currently have red light cameras, there are 125 fewer angle crashes resulting in an injury or fatality per year — a decrease of 54 percent. See Appendix A for more information on how red light cameras work.

** 2015 IDOT crash data was not available at the time this report was developed.

^{*} Safety Evaluation of Red-Light Cameras - Executive Summary. Federal Highway Administration. 2005.

Background on Speed Camera Enforcement

On February 6, 2012 the City of Chicago received authority from the State of Illinois to implement automated speed enforcement in Child Safety Zones within Chicago. CDOT identified 1,495 qualifying Child Safety Zones within the City limits. (See inset for more information.)

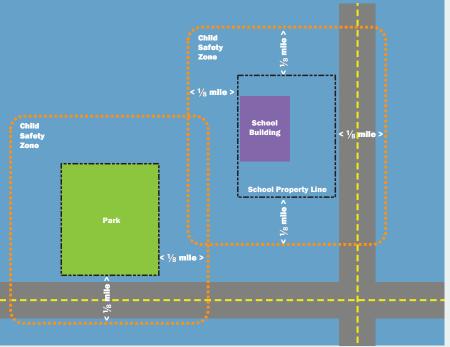
On March 14, 2012, the Chicago City Council enacted an ordinance authorizing CDOT to manage a program of speed cameras. The ordinance requires that no more than 20 percent of all eligible Child Safety Zones shall be equipped with an automated speed enforcement system. The ordinance also ensures that the program is spread across the city. The Commissioner of CDOT was directed to divide the city into six geographical regions; each region may have no fewer than 10 percent of the total number of camera-enforced Child Safety Zones in the city. To choose Child Safety Zone locations, the City uses a model that ranks safety zones based on total crashes, crashes involving a pedestrian or bicyclist, speed related crashes, serious/fatal crashes, crashes involving a person 18 or under, and census data. Taking into consideration the placement model rankings, locations for automated speed enforcement cameras are determined by speed studies, engineering factors, and geographic distribution for equity and efficiency.

The operation of the automated speed enforcement system and citation of violations is restricted to the following times and conditions according to the ordinance:

 If the Child Safety Zone is a school zone, then enforcement will only be on school days (including summer school), no earlier than 7:00 a.m. and no later than 7:00 p.m., Monday through Friday. For school zones that have a 20 miles-perhour (mph) school speed limit, the speeding violation for that speed limit is only enforced between 7:00 a.m. and 4:00 p.m., and if a child is present at the location. Otherwise, the regular posted speed limit (typically 30 mph in Chicago) is enforced.

What is a Child Safety Zone?

A Child Safety Zone is defined by state law as an area located within one-eighth of a mile from the nearest property line of any public or private elementary or secondary school or area owned by a park district and used for recreational purposes. The area also extends to the nearest intersection.



- If the Child Safety Zone is a park zone, then enforcement will only be during the time the facility, area, or land is open to the public or other patrons.
- See Appendix B for more information on how speed cameras work.

In June 2013, the City awarded a contract to American Traffic Solutions, Inc. (ATS) to install, test, operate, and maintain all hardware, software, and equipment communications to enable a citywide automated speed enforcement program as authorized by city ordinance and state law. The first automated speed enforcement camera in the City of Chicago began enforcing on August 26, 2013. There were 150 automated speed enforcement cameras operating in 63 Child Safety Zones as of December 31, 2016.

Data indicates that speed violations have decreased in the Child Safety Zones with speed enforcement cameras. On average, the number of violations per passing vehicle decreased by 56 percent from the first month of a camera's operation to the twelfth month.*

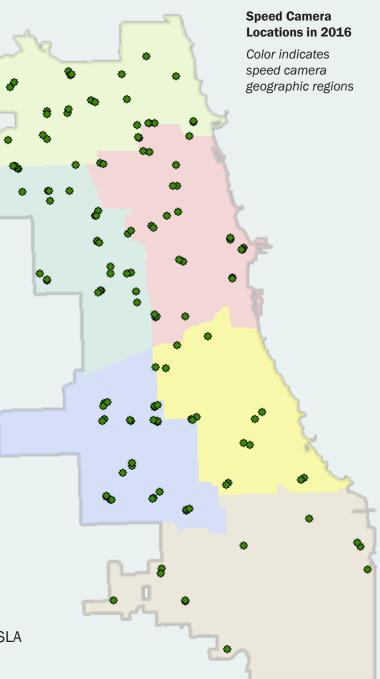
Additionally in 2016, 88 percent of drivers that were issued a ticket for speeding in a school zone and 73 percent of drivers that were issued a ticket for speeding in a park zone have not received a second ticket.

Automated Enforcement Vendor Service Level Agreements

The City's two automated enforcement vendors, ATS and Xerox, are required to meet specific performance criteria described as service level agreements (SLA's) in their contracts. The performance criteria set measurable standards that must be met by each vendor, including:

- A maximum allowable amount of time that cameras may not be functioning for maintenance or technical reasons.
- A total camera system uptime of 95 percent.
- Specific quality standards for captured images and video.
- A maximum allowable percentage of errors in identification of valid violations.
- Response timelines for maintenance and emergencies.

CDOT regularly monitors vendor performance, enforcing monetary penalties when performance falls below the set requirements. Performance issues that resulted in SLA penalties in 2016 included:



Red Light Camera SLA's – All of the SLA penalties assessed were for individual camera event quality issues being forwarded to the City for review. The penalties assessed to the City's vendor Xerox, State and Local Solutions, Inc./Conduent were \$2,069.48.

Speed Camera SLA's – The automated speed enforcement vendor American Traffic Solutions, Inc. was assessed \$3,858.14 in service level penalties in 2016, mostly for video footage requests not being fulfilled and possible violation event quality issues.

2016 Automated Enforcement Program -- Year in Review

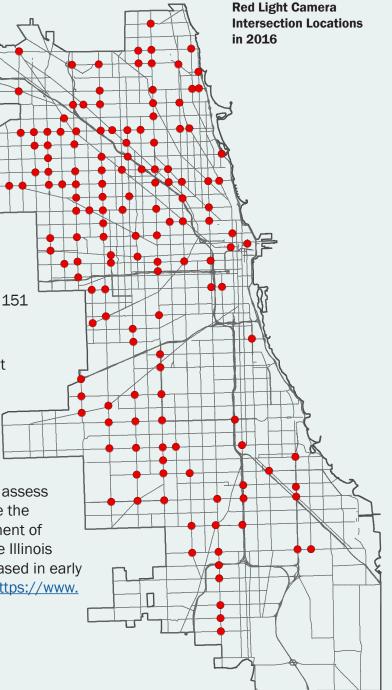
Red Light Camera Program

As of December of 2016, CDOT had 306 automated red light cameras operating at 151 intersections across Chicago.

In recent years the City has implemented a set of reforms to the program, including replacing the vendor and technology in early 2014, implementing new management reforms for better contract and system oversight, and reducing the number of cameras operating by more than 20 percent from 384 cameras to 306 cameras operating today.

In 2015 the Chicago City Council granted authority to the Commissioner of Transportation to engage in an academic study for the red light camera program.

The extensive study was conducted by Northwestern University throughout 2016 to assess the traffic safety impact of Red Light Camera enforcement in Chicago and to ensure the City is making the best utilization of the system, and to support continual improvement of the program. The academic team looked at crash and violation data provided by the Illinois Department of Transportation and the City of Chicago. This study was officially released in early 2017 and is available to the public and can be accessed on the CDOT website at: https://www.cityofchicago.org/city/en/depts/cdot/provdrs/automated-enforcement.html



Speed Camera Enforcement Program

As of December of 2016, CDOT had 150 automated speed enforcement cameras deployed within 63 Child Safety Zones.

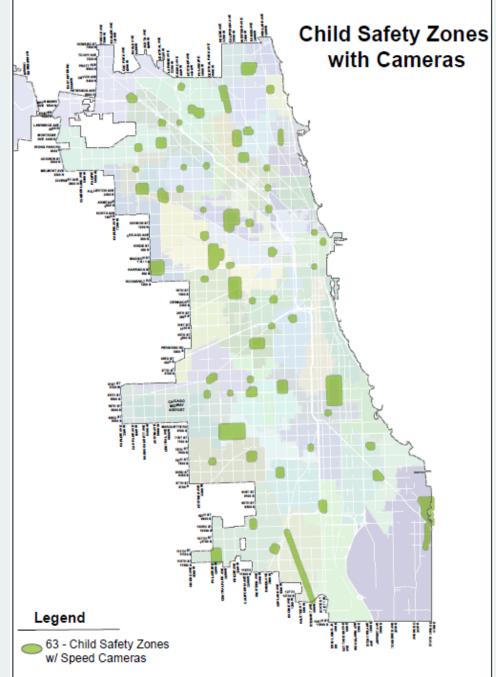
No automated speed cameras were added, removed, or relocated in 2016.

CDOT coordinates its efforts with the Chicago Department of Finance, who issues violations and collect the fines on behalf of the City. CDOT is in constant communication with entities including the Chicago Park District, Chicago Public Schools, and private schools to ensure that the automated speed enforcement cameras are operating only during school and park hours and as stipulated in the State law and City ordinance.

In addition to weekly calibrations of the speed enforcement cameras, CDOT, with its vendor, continue to maintain signage and stenciling that are installed in Child Safety Zones. Each safety zone with automated speed enforcement cameras on average has 23 warning signs indicating a camera is in operation. The City meets and exceeds the signage requirements in the state law and in the Manual on Uniform Traffic Control Devices (MUTCD) followed by transportation departments throughout the country.

All automated enforcement violations can be contested by mail or in person with the Department of Administrative Hearings if a motorist believes a violation was issued in error. Options and steps for contesting tickets are printed on each violation.



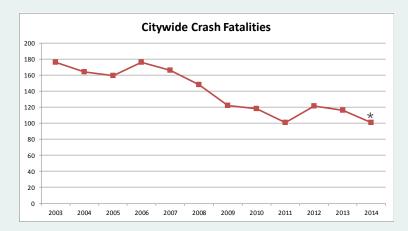


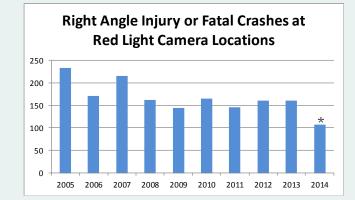
Safety Benefits of Automated Enforcement

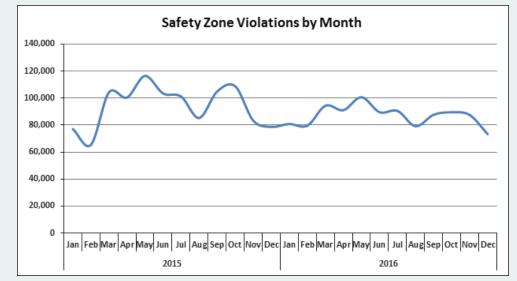
Speed cameras and red light cameras are improving the safety of Chicago's streets. Traffic safety data shows that the number of crashes involving injuries was down significantly in Child Safety Zones that are covered by the City's Automated Speed Enforcement (ASE) program.

Citywide traffic crash data for 2014* compiled by the Illinois Department of Transportation (IDOT) indicates that crashes with injuries are down 4 percent citywide when compared to 2012. However, an analysis of crash data for the 21 Child Safety Zones where an ASE camera was installed in 2013 shows that injury crashes have dropped a dramatic 18 percent. Additionally, while the total number of crashes citywide is up 6 percent, in Child Safety Zones with cameras, the total number of crashes was down 2 percent.

In early 2017, Northwestern University released its study of the red light camera program. The report cited that the cameras led to a 19 percent reduction in side-angle and turning crashes and a 10 percent reduction in all injury-producing crashes. Significantly, the researchers concluded there is a "spillover effect" from the cameras resulting in improved safety at intersections without cameras.







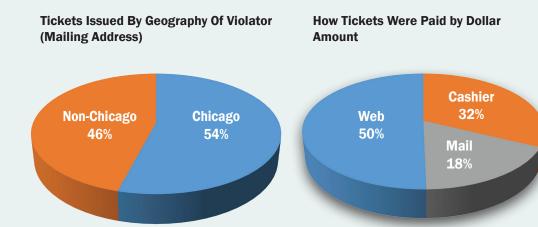
Red Light Cameras – 2016 Statistics

2016 System Data	
Active Cameras (as of 12/31/2016)	306
# Events Captured ¹	1,722,109
# Violations Determined ²	636,434
# Tickets Issued ³	594,953
# DOAH Hearing Requested	35,563
# Tickets Overturned	3,130
# Tickets Per Day	1,626
# Tickets per Week	11,441
# Tickets per Month	49,579
# Tickets per Camera	1,944
# Tickets per Camera per Day	5.3
Dollar Value of Tickets Issued	\$59,395,000

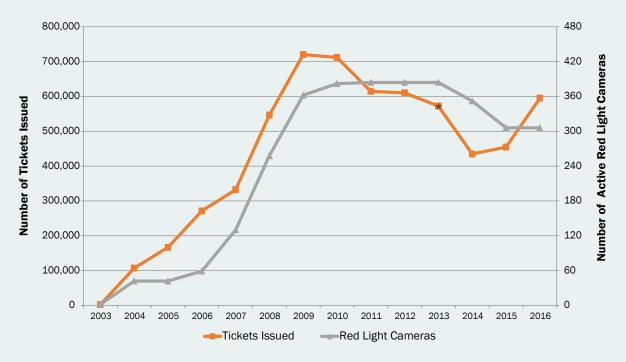
*Data as of 01/31/2017. Data includes any ticket issued in error.

¹Number of Events Captured is the number of times the camera radar detects a potential violation and captures two pictures and a 12-second video of the potential violator.

²Number of Violations Determined is the number of captured events that have been validated as an actual violation after multiple human reviews.
³Number of Tickets Issued is the actual number of tickets that are sent out in the mail. Tickets cannot be issued for violations in which the license plate number cannot be matched to an address. Provided by the Chicago Department of Finance as of 01/31/2017.



Red Light Camera Tickets Issued By Year



Speed Cameras – 2016 Statistics

2016 System Data	
Active Cameras (as of 12/31/2016)	150
# Events Captured ¹	3,586,924
# Violations Determined (including warnings) ²	1,133,697
# of Violations Issued as 30-Day Warning ³	0
# Tickets Issued ⁴	1,044,180
# Zero Fine Tickets Issued	443,110
# DOAH Hearing Requested	26,975
# Tickets Overturned	1,501
# Tickets per Day⁵	2,853
# Tickets per Week	20,080
# Tickets per Month	87,015
# Tickets per Camera⁵	6,961
# Tickets with Fines per Camera per Day ⁵	11.0
Park Zone-Zero Fine Violation	368,504
Park Zone-10mph Ticket	112,388
Park Zone-11+mph Ticket	387,213
School Zone-Zero Fine Violation	74,606
School Zone-10mph Ticket -20mph Child Present	8,881
School Zone-11+ mph Ticket -20mph Child Present	41,053
School Zone-10mph Ticket -30/35mph	12,517
School Zone-11+ mph Ticket -30/35mph	39,018
Dollar Value of Tickets Issued	\$51,396,485

*Data as of 01/31/2017. Data includes any ticket issued in error.

¹Number of Events Captured is the number of times the camera radar detects a potential violation and captures two pictures and a 12-second video of the potential violator.

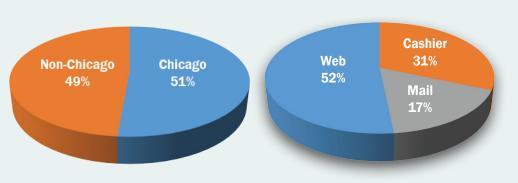
²Number of Violations Determined is the number of captured events that have been validated as an actual violation after multiple human reviews.

³These warnings are sent in the mail, however, unlike the zero-fine warnings (which occur after the 30-day warning period) violations issued as 30-day warnings are not considered a subset of tickets issued. See Appendix B for more information.

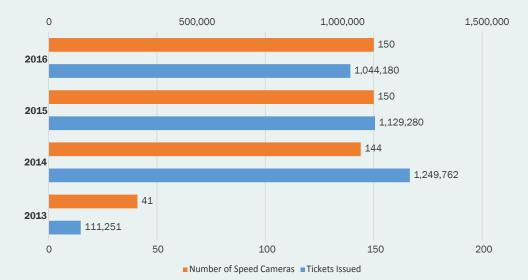
⁴Number of Tickets Issued is the actual number of tickets that are sent out in the mail, including zero-fine violations. Tickets cannot be issued for violations in which the license plate number cannot be matched to an address. Provided by the Chicago Department of Finance as of 01/31/2017.

⁵These averages are calculated by dividing the combined totals from school and park cameras by 365 days; however school cameras do not operate 365 days a year.

Tickets Issued By Geography Of Violator (Mailing Address) How Tickets Were Paid by Dollar Amount



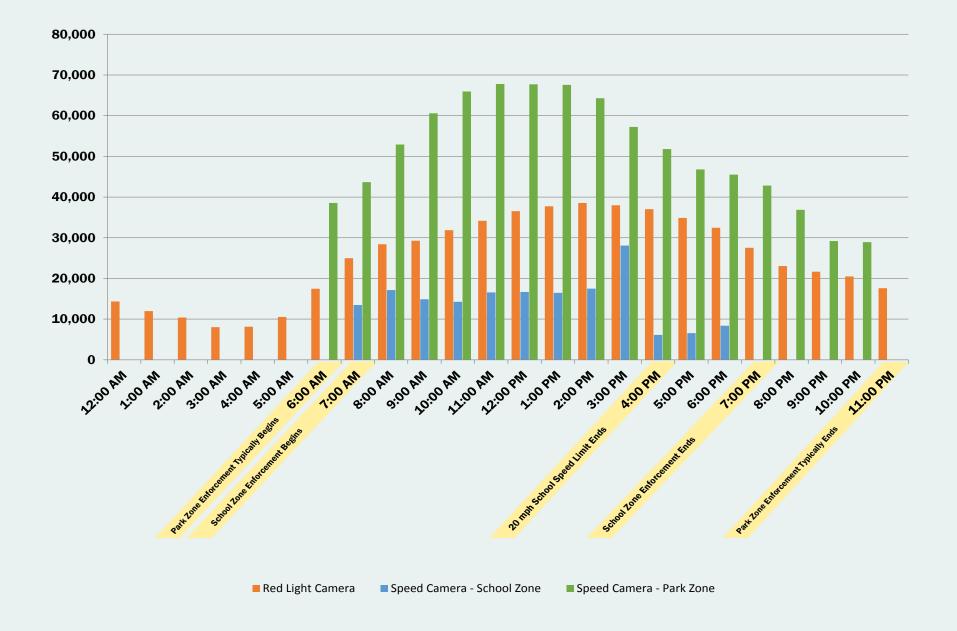
Speed Camera Tickets Issued By Year





Tickets Issued by Month and Day of the Week in 2016

Tickets Issued by Time of Day in 2016



Appendix A: How Red Light Cameras Work

Automated red light cameras allow the City to enforce safety at high priority intersections 24 hours a day, 365 days a year. Using a combination of 3D tracking radar, high-resolution digital cameras, and high-definition video cameras, the red light camera system tracks the status of the traffic light signal and the speed of vehicles approaching the intersection. The camera system operates as a monitoring system only and does not control any of the traffic signal functions.

First, each vehicle approaching the intersection is tracked by a radar-based detection system to determine the vehicle speed and position. Based on the signal timing, the computer will then determine the likelihood of the vehicle continuing into the intersection after the signal has changed to red. If a potential infraction is identified, the camera system will capture two digital pictures of the event and a 12-second video with all accompanying data, including the license plate. The first photo of the event will show the vehicle prior to entering the intersection. The second photo is timed to capture the vehicle proceeding through the intersection. Additional data collected includes time, date, vehicle speed, signal amber time, location, time into red, and direction of travel. According to the City's enforcement policy, the signal amber time must last a minimum of three seconds in order for a ticket to be issued. The camera systems are checked remotely by Xerox personnel daily for camera image quality, system uptime, and data analysis. In addition, a maintenance check is performed monthly at each camera location.

Not all events captured by the red light cameras are found to be violations. The camera systems forward the images and video of each captured event to a centralized database to be reviewed by Xerox personnel. If a Xerox reviewer identifies the event as a potential red light violation, the captured video and images are forwarded to the City Department of Finance vendor to make the official determination. If the violation is found valid, the Department of Finance will perform a license plate search to find the vehicle owner's address and mail the violator a ticket. Fines are currently set at \$100. More information about how red light camera violations are processed can be found on the CDOT website: www.cityofchicago.org/city/en/depts/cdot.html.

Appendix B: How Speed Cameras Work

Similar to the red light camera system, the automated speed enforcement camera system uses a combination of 3D tracking radar, high-resolution digital cameras, and high-definition video cameras. Each vehicle approaching the safety zone is tracked by a radar-based detection system to determine the vehicle speed. If the vehicle is traveling 10 mph or more over the posted speed limit, the camera system captures two digital pictures of the event and a 12-second high-resolution video. (See inset for information about zero-dollar warnings). The images are used to capture the vehicle license plate, and the video clip of the event is provided as evidence. Additional data collected includes the time, date, posted speed limit, vehicle speed, location, and direction of travel. The speed cameras are calibrated each week to ensure accuracy. American Traffic Solutions, Inc. (ATS) conducts daily remote checks to ensure accuracy of the speed camera system. Once a possible automated speed enforcement event is identified, according to State Law a preliminary review is conducted by CDOT's vendor, ATS. If an ATS reviewer identifies the event as a potential violation, the images, video, and data are forwarded to the Department of Finance for review. If the Department of Finance reviews the evidence and determines that a violation has occurred, the evidence is then forwarded to the Department of Finance vendor for an additional review of the evidence before any automated speed enforcement violation is considered valid. Once the violation is confirmed, the Department of Finance will perform a license plate search to find the vehicle owner's address and mail the violator a ticket or warning. Fines are currently set at \$35 for violations of 10 mph over the posted speed limit and \$100 for violations of 11 mph or greater over the posted speed limit. More information on how speed camera violations are processed can be found on the CDOT website at: www.cityofchicago.org/city/en/ depts/cdot.html.

Zero-Dollar Warnings

When an automated speed enforcement camera is first installed and activated in a Child Safety Zone, the City of Chicago issues warning notices to motorists traveling seven mph over the posted speed limit for the first 30 days the camera is operational. No monetary violations are issued during this time frame. After the 30-day warning period, there is a two-week period of no enforcement, to ensure all warnings have been received in the mail. After that the City begins to issue tickets.

After ticketing begins, any motorists that do not already have a speed camera-issued ticket on their record will receive a zero-dollar fine for their first ticket. This provides motorists with another opportunity to be warned of the new camera location and the posted speed limit. Following the first zero dollar ticket, all subsequent tickets are set at \$35 or \$100 depending on the speed of the vehicle (as described above).

Appendix C

Red Light Camera Tickets Issued in 2016 by Intersection

	Tickets Issued	Aust
Intersection	2016	Beln
111th and Halsted	4,589	Broa
115th and Halsted	6,082	Calif
119th and Halsted	2,832	Calif
31st and Martin Luther King Drive	4,497	Calif
35th and Western	2,407	Can
4700 Western	3,367	Cent
55th and Kedzie	1,444	Cent
55th and Pulaski	1,518	Cent
55th and Western	4,388	Cent
63rd and State	5,792	Cent
71st and Ashland	2,444	Cent
75th and State	7,965	Cent
79th and Halsted	2,323	Cern
79th and Kedzie	1,753	Chic
87th and Vincennes	7,715	Cice
95th and Stoney Island	3,897	Cice
99th and Halsted	10,702	Cice
Addison and Harlem	2,152	Cice
Archer and Cicero	11,986	Cice
Ashland and 87th	3,121	Cice
Ashland and 95th	4,053	Cice
Ashland and Division	3,039	Cice
Ashland and Fullerton	7,137	Cice
Ashland and Irving Park	1,830	Cice
Ashland and Lawrence	3,438	Cice
Ashland and Madison	3,338	Clar
Austin and Addison	1,838	Clar

	Tickets Issued
Intersection	2016
Austin and Irving Park	1,996
Belmont and Kedzie	6,979
Broadway/Sheridan and Devon	3,493
California and Devon	1,657
California and Diversey	14,922
California and Peterson	1,262
Canal and Roosevelt	6,141
Central and Addison	1,889
Central and Belmont	1,003
Central and Chicago	2,318
Central and Diversey	663
Central and Fullerton	1,148
Central and Irving Park	1,618
Central and Lake	3,072
Cermak and Pulaski	3,448
Chicago and Clark	6,970
Cicero and 47th	3,971
Cicero and Addison	3,956
Cicero and Armitage	1,548
Cicero and Chicago	2,088
Cicero and Diversey	1,650
Cicero and Fullerton	2,736
Cicero and Harrison	2,689
Cicero and I55	28,121
Cicero and North	2,133
Cicero and Peterson	1,717
Cicero and Washington	5,271
Clark and Fullerton	1,255
Clark and Irving Park	2,342

	Tickets Issued
Intersection	2016
Columbus and Illinois	9,967
Cortland and Ashland	9,265
Cottage Grove and 71st	1,812
Damen and 63rd	2,629
Damen and Diversey	3,130
Damen and Fullerton	2,744
Diversey and Austin	1,164
Diversey and Western	966
Division and Damen	4,575
Elston and Addison	3,454
Elston and Irving Park	2,053
Elston and Lawrence	3,202
Foster and Broadway	1,717
Foster and Nagle	2,405
Fullerton and Narragansett	3,181
Grand and Oak Park	4,563
Halsted and 103rd	3,049
Halsted and 95th	1,326
Halsted and Division	6,274
Halsted and Fullerton	2,872
Halsted and Madison	3,248
Halsted and North	3,227
Hamlin and Lake	2,369
Hamlin and Madison	4,309
Harlem and Belmont	2,742
Hollywood and Sheridan	5,777
Homan/Kimball and North	3,585
Irving Park and California	4,466
Irving Park and Kedzie	2,732
Irving Park and Kilpatrick	3,069
Irving Park and Laramie	2,016

	Tickets Issued
Intersection	2016
Irving Park and Narragansett	1,926
Jeffery and 95th	1,566
Kedzie and 26th	1,539
Kedzie and 31st	2,281
Kedzie and 47th	1,882
Kedzie and 63rd	1,339
Kedzie and 71st	2,545
Kedzie and Armitage	3,453
Kimball and Diversey	1,739
Kostner and North	5,005
Lafayette and 87th	14,949
Lake Shore Dr and Belmont	21,182
Laramie and Fullerton	2,485
Laramie and Madison	5,821
Lasalle and Kinzie	2,406
Lawrence and Cicero	4,378
Lawrence and Western	1,940
Madison and Western	1,292
Milwaukee and Devon	3,033
Milwaukee and Montrose	2,163
Montrose and Western	3,257
Ogden and Kostner	4,819
Pershing and Western	3,513
Peterson and Western	3,804
Pulaski and 63rd	4,092
Pulaski and 79th	2,226
Pulaski and Archer	2,015
Pulaski and Armitage	1,614
Pulaski and Belmont	1,374
Pulaski and Chicago	1,719
Pulaski and Diversey	1,526

	Tickets Issued		Tickets Issued
Intersection	2016	Intersection	2016
Pulaski and Division	1,506	Stony Island/Cornell and 67th	10,310
Pulaski and Foster	3,085	Touhy and Osceola	1,487
Pulaski and Fullerton	1,851	Van Buren and Western	15,971
Pulaski and Irving Park	4,010	Wentworth and Garfield	13,602
Pulaski and Lawrence	1,030	Western and 63rd	914
Pulaski and North	1,394	Western and 71st	2,059
Pulaski and Peterson	2,230	Western and 79th	1,980
Ridge and Clark	4,585	Western and Addison	2,470
Roosevelt and Halsted	8,236	Western and Cermak	2,421
Roosevelt and Kostner	3,543	Western and Chicago	1,795
Roosevelt and Pulaski	3,430	Western and Devon	1,250
Sacramento and Chicago	4,072	Western and Foster	2,546
Sacramento and Lake	5,207	Western and Fullerton	3,915
Sheridan and Foster	1,319	Western and Marquette	3,353
State and 79th	13,517	Western and North	2,935
Stoney Island and 76th	10,922	Western and Touhy	1,070
Stoney Island and 79th	2,464	Total	594,593

Speed Camera Tickets Issued in 2016 by Location

School Zone Locations

		Tickets Issued
Address	Zone	2016
11153 S Vincennes	Morgan Park HS	1,525
11144 S Vincennes	Morgan Park HS	3,312
3521 N Western	Lane Tech School	619
3534 N Western	Lane Tech School	1,576
2549 W Addison	Lane Tech School	8,563
4929 S Pulaski	Curie HS	3,853
5030 S Pulaski	Curie HS	8,687
4925 S Archer	Curie HS	3,835
629 S State	Jones College Prep HS	2,368
630 S State	Jones College Prep HS	2,589
5509 W Fullerton	Charles Prosser School	2,706
5446 W Fullerton	Charles Prosser School	2,358
5440 W Grand	Charles Prosser School	2,144
4843 W Fullerton	St Genevieve School	4,971
3843 W 111th	Chicago Ag School	3,588
5433 S Pulaski	John Hancock HS	1,519
5428 S Pulaski	John Hancock HS	1,492
4045 W 55th	John Hancock HS	169
4040 W 55th	John Hancock HS	1,069
7518 S Vincennes	Harvard Elementary	4,195
7739 S Western	St Rita HS	4,862
7738 S Western	St Rita HS	3,013
2603 W 79th	St Rita HS	522
2550 W 79th	St Rita HS	1,310
7833 S Pulaski	Bogan HS	2,470
7826 S Pulaski	Bogan HS	481
3851 W 79th	Bogan HS	819
3832 W 79th	Bogan HS	1,473

		Tickets Issued
Address	Zone	2016
3230 N Milwaukee Ave	Lorca School	2,097
3809 W Belmont Ave	Lorca School	985
3810 W Belmont Ave	Lorca School	203
2445 W 51st St	Christopher School	149
2440 W 51st St	Christopher School	337
5025 S Western Ave	Christopher School	9,507
3115 N Narragansett Ave	Icci School	326
6443 W Belmont Ave	Icci School	250
6514 W Belmont Ave	Icci School	362
4041 W Chicago Ave	Orr High School	4,373
4040 W Chicago Ave	Orr High School	5,437
732 N Pulaski Rd	Orr High School	3,321
2335 W Cermak Rd	Pickard School	306
2326 W Cermak Rd	Pickard School	96
1635 N Ashland Ave	Burr School	2,748
1638 N Ashland Ave	Burr School	1,290
6125 N Cicero Ave	Sauganash School	2,577
4707 W Peterson Ave	Sauganash School	7,610
4674 W Peterson Ave	Sauganash School	2,893
1229 N Western Ave	Roberto Clemente School	5,062
1226 N Western Ave	Roberto Clemente School	1,874
2329 W Division St	Roberto Clemente School	1,088
18 W Superior St	Frances Xavier School	37
3116 N Narragansett Ave	Icci School	743
19 W Chicago Ave	Frances Xavier School	295
2115 S Western Ave	Pickard School	2,112
2108 S Western Ave	Pickard School	957
346 W 76th St	Harvard Elementary	823
341 W 76th St	Harvard Elementary	417
14 W Chicago Ave	Frances Xavier School	229
1440 W Cermak Rd	Benito Juarez High School	6,509
2109 E 87th St	Chicago Vocational HS	4,494

		Tickets Issued
Address	Zone	2016
215 E 63rd St	Dulles Elementary School	7,067
6330 S Martin Luther King Dr	Dulles Elementary School	3,394
5739 N Northwest Hwy	Taft High School	2,642
6510 W Bryn Mawr Ave	Taft High School	4,699
4042 W Roosevelt Rd	Frazier Magnet School	5,204
1117 S Pulaski Rd	Frazier Magnet School	2,324
1110 S Pulaski Rd	Frazier Magnet School	2,367
5532 S Kedzie Ave	St Gall Elementary	578
3217 W 55th St	St Gall Elementary	136
3212 W 55th St	St Gall Elementary	152
3111 N Ashland Ave	Burley Elementary School	226
3130 N Ashland Ave	Burley Elementary School	1,691
Total		176,075

Park Zone Locations

		Tickets Issued
Address	Zone	2016
4124 W Foster	Gompers Park	43,426
5120 N Pulaski	Gompers Park	11,586
2080 W Pershing	McKinley Park	3,310
3843 S Western	McKinley Park	23,662
3655 W Jackson	Garfield Park	6,871
3646 W Madison	Garfield Park	17,874
1111 N Humboldt	Humboldt Park	19,193
3100 W Augusta	Humboldt Park	5,877
5330 S Cottage Grove	Washington Park	17,110
6909 S Kedzie	Marquette Park	21,363
3450 W 71st	Marquette Park	4,828
6818 S Kedzie	Marquette Park	14,824
2917 W Roosevelt	Douglas Park	13,061
2912 W Roosevelt	Douglas Park	8,883

		Tickets Issued
Address	Zone	2016
2900 W Ogden	Douglas Park	42,365
3137 W Peterson	Legion Park	19,011
3034 W Foster	Legion Park	4,379
536 E Morgan Dr	Washington Park	20,377
57 E 95th	Abbott Park	2,722
62 E 95th	Abbott Park	4,338
6247 W Fullerton	Riis Park	4,715
6250 W Fullerton	Riis Park	4,367
445 W 127th	Major Taylor Bike (Park)	52,672
4123 N Central Ave	Portage Park	4,834
5454 W Irving Park	Portage Park	9,492
6523 N Western	Warren Park	13,693
4433 N Western	Welles Park	7,499
4432 N Lincoln	Welles Park	527
515 S Central Ave	Columbus Park	2,413
5816 W Jackson	Columbus Park	24,315
5529 S Western	Gage Park	3,277
5520 S Western	Gage Park	6,742
2513 W 55th	Gage Park	6,146
141 N Ashland	Union Park	1,059
140 N Ashland	Union Park	2,819
115 N Ogden	Union Park	13,927
2721 W Montrose	Horner Park	568
2705 W Irving Park	Horner Park	35,994
2712 W Irving Park	Horner Park	9,044
6226 W Irving Park Rd	Merrimac Park	15,708
4620 W Belmont Ave	Parsons Park	1,597
2448 N Clybourn Ave	Schaefer Park	5,308
2443 N Ashland	Schaefer Park	14,485
2432 N Ashland	Schaefer Park	2,391
5885 N Ridge Ave	Senn Park	8,258

		Tickets Issued
Address	Zone	2016
4436 N Western	Welles Park	5,625
1142 W Irving Park	Challenger Park	26,786
4429 N Broadway	Challenger Park	772
4446 N Broadway	Challenger Park	506
7422 S Jeffery	Rosenblum Park	4,995
5471 W Higgins	Jefferson Park	10,185
5432 W Lawrence	Jefferson Park	1,940
2928 S Halsted	McGuane Park	2,868
5420 S Racine Ave	Sherman Park	2,923
1334 W Garfield Blvd	Sherman Park	14,574
10318 S Indianapolis	Park 499	23,204
1315 W Garfield Blvd	Sherman Park	12,990
3047 W Jackson Blvd	Horan Park	3,832
324 S Kedzie Ave	Horan Park	3,314
449 N Columbus Dr	Ogden Plaza Park	3,102
450 N Columbus Dr	Ogden Plaza Park	8,507
319 E Illinois St	Ogden Plaza Park	723
506 S Central Ave	Columbus Park	1,931

		Tickets Issued
Address	Zone	2016
1901 E 75th St	Rosenblum Park	6,667
3535 E 95th St	Calumet Park	1,015
3542 E 95th St	Calumet Park	2,266
9618 S Ewing Ave	Calumet Park	9,310
3200 S Archer Ave	Mulberry Park	22,650
4831 W Lawrence Ave	Ashmore Park	23,702
4909 N Cicero Ave	Ashmore Park	74,561
2416 W 103rd St	Beverly Park	1,412
1754 N Pulaski Rd	Keystone Park	2,746
4053 W North Ave	Keystone Park	5,854
4042 W North Ave	Keystone Park	4,858
2417 W 103rd St	Beverly Park	679
8345 S Ashland Ave	Foster Park	11,480
8318 S Ashland Ave	Foster Park	13,049
1507 W 83rd St	Foster Park	2,169
Total		868,105
Grand Total (School and Park)		1,044,180

Appendix D: Additional Resources

CDOT Website

http://www.cityofchicago.org/city/en/depts/cdot/provdrs/automated-enforcement.html

The City of Chicago Open Data Portal Automated Speed Enforcement

https://data.cityofchicago.org/Transportation/Speed-Camera-Violations/hhkd-xvj4/data

The City of Chicago Open Data Portal Automated Red light Enforcement

https://data.cityofchicago.org/Transportation/Red-Light-Camera-Violations/spqx-js37/data

The Insurance Institute for Highway Safety

http://www.iihs.org/iihs/topics/t/red-light-running/ http://www.iihs.org/iihs/sr/statusreport/article/48/1/2

The National Highway Safety Administration

http://www.nhtsa.gov/search?q=automated+enforcement&x=0&y=0

The Federal Highway Administration

http://safety.fhwa.dot.gov/intersection/other_topics/fhwasa10005/brief_7.cfm

Northwestern University Transportation Center - Chicago Red Light Camera Report

http://www.transportation.northwestern.edu/research/report-redlightcameras.html

