

December 29, 2021

Honorable Ron DeSantis
Governor of Florida
PL5, The Capitol
400 South Monroe Street
Tallahassee, FL 32399

Honorable Wilton Simpson
Senate President
409 The Capitol
404 South Monroe Street
Tallahassee, FL 32399

Honorable Chris Sprowls
Speaker of the House
420 The Capitol
402 South Monroe Street
Tallahassee, FL 32399

Dear Governor, President and Speaker:

Pursuant to the provisions of [Section 316.0083](#), Florida Statutes, the Department of Highway Safety and Motor Vehicles respectfully submits the enclosed summary report on the use of traffic infraction detectors at red light intersections in Florida.

This report is a compilation of information the Department received from counties and municipalities through an on-line survey. The survey requested information on statistical data, enhancement to traffic safety, and procedural policies or guidelines jurisdictions follow in operating their red light camera programs during Fiscal Year 2020-2021 (July 1, 2020 to June 30, 2021).

The Department requested that survey responses be submitted by October 1, 2021. It should be noted that any actions that jurisdictions may have taken related to their program subsequent to that date would not be reflected in this report. In addition, for your reference, we are including the individual survey responses from each responding jurisdiction.

Should you need additional assistance or have further questions, please do not hesitate to contact me at (850) 617-3100.

Respectfully,


Terry L. Rhodes
Executive Director



Red Light Camera Summary Report

Leaders in Service • Agents of Progress • Champions for Safety

Fiscal Year 2020–2021

DECEMBER 21, 2021

Florida Department of Highway Safety and Motor Vehicles

Red Light Camera Report for Fiscal Year 2020-2021

Introduction

For the purposes of this report, the Florida Department of Highway Safety and Motor Vehicles will be referred to as the department.

The terms “Traffic Infraction Detector” and “Red Light Camera” are interchangeable, but this report will use red light camera, or RLC, for simplicity.

The counties and municipalities covered in this report will be referred to as jurisdictions.

Notices of Violation will be referred to as NOVs.

Uniform Traffic Citations will be referred to as UTCs.

[Section 316.0083\(4\)\(b\)](#), Florida Statutes, directs the department to provide a summary report on the use and operation of traffic infraction detectors, or red light cameras, in Florida. The report “must include a review of information submitted to the department by the counties and municipalities, and must describe the enhancement of the traffic safety and enforcement programs.”

[Section 316.0083](#), Florida Statutes, describes the process for violations of traffic infraction detectors. A traffic infraction enforcement officer issues a Notice of Violation, or NOV, to the violator within 30 days of the violation. The violator may pay the notice or contest the violation through an appeals process within 60 days. If the violator fails to pay or appeal the notice, a local jurisdiction issues a Uniform Traffic Citation, or UTC, to the violator, with a copy to the Clerk of Court for adjudication.

Part 1

Survey Methodology

The department created an online survey to gather information and data from jurisdictions responsible for the administration of red light cameras during Fiscal Year 2020-2021. The 29-question survey included topics such as procedures, NOVs, and program size, and covered activity that occurred from July 1, 2020 through June 30, 2021. As there is no statewide oversight of red light camera programs, the department relies on monies remitted to the Department of Revenue to identify which jurisdictions potentially operated red light cameras during the reporting period. Jurisdictions were also asked to complete a spreadsheet of their camera and intersection locations and dates of operation. With this self-reported information, the department independently collected crash data related to red light camera intersections throughout the state.

Surveys were distributed to all jurisdictions who responded to previous red light camera surveys, and to those who remitted red light camera monies to the Department of Revenue during the reporting period.

Summary of Survey Responses

In total, 47 jurisdictions appeared on the Department of Revenue report for remittance of red light camera penalties during Fiscal Year 2020-2021. Details can be found in the Supplemental Resources section of this report. Of the 47 jurisdictions, 4 indicated they are no longer operating RLC programs,

even though monies may have been remitted after the conclusion of their program. Violations are sometimes paid late, which is why some jurisdictions remitted monies after the conclusion of their program. The survey portion of this report focuses on 44 jurisdictions that indicated red light cameras were operational during the reporting period of July 1, 2020 through June 30, 2021. Reference Appendix F for a list of the 44 jurisdictions and their responses.

The following information is the Camera and Intersection Data as reported by local jurisdictions in the R L C survey:

- There were 497 red light cameras active as of July 1, 2020, compared to 510 as of July 1, 2019.
- There were 485 red light cameras active as of June 30, 2021, compared to 504 as of June 30, 2020.
 - 32 jurisdictions had no change in the number of red light cameras.
 - 5 jurisdictions had an increase in the number of red light cameras, which includes one new jurisdiction with 4 red light cameras.
 - 7 jurisdictions had a decrease in the number of red light cameras.
- There were 296 intersections with active RLCs as of July 1, 2020, compared to 312 as of July 1, 2019.
- There were 297 intersections with active RLCs as of June 30, 2021 compared to 310 as of June 30, 2020.
 - 34 jurisdictions had no change in the number of intersections with RLCs.
 - 4 jurisdictions had an increase in the number of intersections with RLCs, which includes one new jurisdiction with 4 intersections.
 - 6 jurisdictions had a decrease in the number of intersections with RLCs.

The following information is the Notice of Violation Data as reported by local jurisdictions in the R L C survey:

- A total of 955,297 NOVs were issued. Two jurisdictions indicated they did not have this information at the time they submitted their surveys.
 - 563,297 NOVs were paid;
 - 8,437 were contested and are pending;
 - 5,231 were contested and dismissed;
 - 4,578 were contested and upheld;
 - 212,229 were issued as UTCs;
 - 15,717 are pending issuance as UTCs; and
 - 145,808 are of unknown status, as availability of NOV status varies by jurisdiction, leaving some in an unknown status.

Table 1 below shows the number of NOVs issued for red light camera violations over the past nine fiscal years, which run from July 1st through June 30th. Also provided are the number of citations for running a red light issued in-person by law enforcement. The NOV data is self-reported by jurisdictions. The citation data is collected from the department database as of November 22, 2021.

Table 1: Notices of Violation and In-Person Citations by Fiscal Year		
Fiscal Year	Notices of Violation	In-Person Citations
2012-2013	1,094,106	66,196
2013-2014	940,814	59,672
2014-2015	963,039	57,546
2015-2016	1,227,927	50,755
2016-2017	1,173,232	48,129
2017-2018	1,159,392	50,249
2018-2019	1,054,234	51,939
2019-2020	1,127,450	42,879
2020-2021	955,297	41,150

Table 2 below shows the number of unpaid red light camera violations resulting in a U T C.

Table 2: RLC Violations Issued as UTCs	
Fiscal Year	UTCs
2012-2013	356,524
2013-2014	290,535
2014-2015	300,224
2015-2016	383,538
2016-2017	359,289
2017-2018	352,539
2018-2019	332,238
2019-2020	243,604
2020-2021	212,229

Citation data collected from department database as of November 22, 2021.

Personnel

Jurisdictions were requested to identify who reviews the camera images before issuing NOV's, who reviews contested NOV's and who ultimately issues UTC's. Personnel categories included law enforcement officer, non-sworn government employee, non-sworn contractor employee or vendor, and other.

Table 3: Jurisdiction Counts of Personnel Responsible for NOV and UTC Actions			
Personnel	Review Camera Images	Review Contested Notices of Violation	Issue Uniform Traffic Citations
Law Enforcement Officers	35	30	35
Non-Sworn Government Employees	21	20	17
Non-Sworn Contractor Employees/Vendors	5	1	1
Other Personnel	2	5	2

Note: Jurisdictions could select multiple options for each question so numbers may not sum to the total number of respondents. The data is as it was reported by the local jurisdictions in the RLC survey.

Right-Hand Turns

Pursuant to [section 316.0083](#), Florida Statutes:

An NOV and UTC may not be issued for failure to stop at a red light if the driver is making a right-hand turn in a careful and prudent manner at an intersection where right-hand turns are permissible.

An NOV and UTC may not be issued under this section if the driver of the vehicle came to a complete stop after crossing the stop line and before turning right if permissible at a red light, but failed to stop before crossing over the stop line or other point at which a stop is required.

The terms in this section of statute are left to the interpretation of each respective jurisdiction. Appendix G provides right turn definitions provided to the department. For Fiscal Year 2020-2021, 25 of 44, or 57 percent, of the responding jurisdictions issued NOV's for persons making right turns on red signals. Nineteen jurisdictions indicated that they do not track the number of violations issued for right turns on red.

Alternative Safety Measures

The department also requested what other actions jurisdictions had taken to improve safety measures at intersections during the reporting period. Seventy-two percent, or 31 of 43, of the jurisdictions indicated they had implemented at least one action. Sixty percent, or 26 of 43, indicated they had implemented more than one action. The results of this question are shown below in Table 4. Appendix F provides responses by jurisdiction.

Table 4: Alternative Safety Measures		
Safety Measure	At intersections with RLC's	At intersections without RLC's
Education and Outreach	15	12
Engineering, Roadway/Geometric	12	12
Engineering, Signalization/Operation	12	10
Increased other type of signage	11	6
Increased RLC-related signage	15	1
Lighting	14	11
Restriping	19	12

Other Survey Results Data as reported by local jurisdictions in RLC survey

Less than a third of the jurisdictions, 12 out of 44, reported that court cases have impacted their red light camera program. Seven jurisdictions indicated they have conducted an independent red light camera analysis. Forty-one jurisdictions responded they are continuing their program in Fiscal Year 2021-2022. Thirty-four jurisdictions responded they report crashes electronically, one reports via paper, and eight submit both.

Table 5 below shows red light camera vendors used by jurisdictions.

Table 5: Jurisdiction Counts of Red Light Camera Vendors	
Vendor	Number of Jurisdictions
American Traffic Solutions or Verra Mobility	29
Red Flex	4
Sensys Gatso Group	4
Novoa Global	3
Red Speed USA	2
Conduent	2

Table 6 below shows factors used to determine the success or failure of red light camera locations as reported by jurisdictions.

Table 6: Factors that Determine Success or Failure of Red Light Camera Locations		
Factor	# of Jurisdictions	% of Total
Change in Number of Crashes	40	91%
Change in Pedestrian Safety	34	77%
Change in Revenue	4	9%
Other (see Appendix F)	6	14%

Table 7 below shows other uses of red light camera footage reported by jurisdictions.

Table 7: Jurisdiction Use of RLC Footage		
Use	# of Jurisdictions	% of Total
Crash Investigation	42	95%
Criminal Investigation	40	91%
Missing Person	9	20%
Other (see Appendix F)	2	5%

Jurisdictions were asked to rank the importance of various factors when selecting locations to install red light cameras. The results are shown in Table 8.

Table 8: Importance of Factors When Selecting Intersections for R L C's				
Factor	Very Important	Somewhat Important	Not Important	Not Applicable
Citizen Complaints	24	18	0	2
Law Enforcement Officer Observations	28	13	0	3
Pedestrian Safety	40	3	0	1

Traffic Citation Data	25	13	2	4
Traffic Crash Data	42	2	0	0
Traffic Volume	32	8	2	2

Part 2

Crash Analysis

As with previous fiscal year reports, jurisdictions self-reported the dates of operation and locations of intersections with red light cameras. Intersections were selected to be included in the crash analysis based on their dates of operation. Taking input from jurisdictions who operate red light camera programs, the department refined its methodology to **only include crashes** that occurred on or after July 1, 2012. Therefore, intersections were only included if the activation date was between January 1st, 2013 and December 31st, 2020, allowing at least six months before and after the date the camera was activated. In total, 162 intersections were included in the crash analysis from 31 jurisdictions.

Note: While the methodology remains consistent with prior reports, we worked closely with our partners to verify the locations of red light camera intersections and dates of camera operation. This additional step further validated the analysis.

Crashes occurring within 250 feet of the center of the intersection were analyzed before and after the installation of cameras at each intersection. Table 9 shows the breakdown of crashes analyzed based on their distance from the center of the intersection.

Table 9: Number of Crashes by Feet from Intersection			
Feet from Intersection	Number of Crashes	Percent of Total	Running Total
0 Feet	8,480	33.52%	33.52%
1 to 50 Feet	8,960	35.42%	68.94%
51 to 100 Feet	3,999	15.81%	84.74%
101 to 150 Feet	1,212	4.79%	89.53%
151 to 200 Feet	1,902	7.52%	97.05%
201 to 250 Feet	746	2.95%	100.00%
Grand Total	25,299	100.00%	

Data provided by Signal Four Analytics using intersection location information and operation dates reported by local jurisdictions.

Measures were taken to exclude crashes that occurred anywhere other than the roadway, such as parking lots. The before and after periods used for analysis were unique to each intersection based on the dates of operation, with an equal number of days within each window. Crashes were broken down by manner of collision, injury severity, inclusion of a non-motorist, and whether the crash report indicated a driver ran a red light. See Appendix D for the definition of a non-motorist.

Table 10 shows the breakdown of crashes that occurred before and after the activation of red light cameras at intersections included in the analysis. As with last year, the department excludes crashes that occurred outside of the roadway. Reference Appendix A for a more detailed breakdown of crashes

by reporting jurisdiction. Appendix B is specific to crashes where the officer indicated a driver ran a red light, and Appendix C is specific to crashes involving non-motorists.

Table 10: Total Number of Crashes Before and After R L C's Were Installed		
Type of Crash	Before RLC Installed	After RLC Installed
Total Crashes	12,158	13,067
Angle Crashes	2,429	2,680
Rear-End Crashes	6,237	6,596
Crashes Involving Non-Motorists	294	278
Property Damage Only Crashes	8,958	9,872
Injury Crashes	3,167	3,153
Fatal Crashes	30	26

Data provided by Signal Four Analytics using intersection location information and operation dates reported by local jurisdictions.

The department maintains partnerships with local jurisdictions to improve the completeness and accuracy of crash report data. The crash analysis should be put into context of the overall complexity of the issue at hand, as many factors may contribute to the change in number of crashes outlined in this report.

One such factor is the increase in Vehicle Miles Traveled, or VMT. The probability of a crash occurring increases as people drive more, and VMT in Florida increased 9.08 percent from calendar years 2012 to 2020. For more information, see the links under Supplemental Resources below.

Another factor is the fluctuation in crash reports with accurate location information, latitude and longitude. In order to analyze crashes that occurred at certain intersections, it is necessary to know both the location of the intersection and the location of the crashes. Intersection locations, latitude and longitude, were submitted along with the survey; however, latitude and longitude are not included in every crash report.

Part 3

Recommendations

The following recommendations would allow for more accurate reporting of information that cannot currently be tracked through existing systems.

1. Require jurisdictions to track camera information including location with GPS coordinates and dates of operation.
2. To ensure the ability to reconcile N O V's issued with monies remitted and U T C counts, require jurisdictions that end their red light camera operations to maintain all data regarding the program for a minimum of two years.
3. Require jurisdictions to track the issuance of N O V's, including the status of those violations paid, contested, and issued as U T C.
4. Require jurisdictions to track the issuance of N O V's for right-hand turns.
5. Create a standard for administering violations for right-hand turns on red signals. Define "careful

and prudent manner” to allow for a uniform procedure statewide.

6. Require jurisdictions to report alternative safety countermeasures taken prior to and after the installation of red light cameras.
7. To determine the enhancement of traffic safety, the department recommends a more thorough analysis be conducted by an independent organization using appropriate local and state agency resources.

The department will continue to collaborate with local jurisdictions operating red light camera programs to improve the data collection and reporting methodology associated with evaluation of the active programs across the state.

Supplemental Resources

- Department of Revenue’s [Tax Collections and Distributions](#)
- Department of Transportation’s [Traffic Infraction Detector Placement and Installation Specifications](#)
- Department of Transportation’s [Florida Highway Mileage Reports, Vehicle Miles Traveled](#)

Appendix A: Crashes Before and After Red Light Implementation by Jurisdiction

Jurisdiction	# Intersections	Crashes Before	Crashes After	Ran Red Light Before	Ran Red Light After	Rear End Before	Rear End After	Angle Before	Angle After
Aventura	1	66	154	3	2	15	51	11	27
Boynton Beach	4	137	357	8	16	62	175	27	70
Coral Gables	3	392	256	10	11	186	116	122	77
Crestview	2	96	83	3	3	54	55	16	16
Davie	1	15	5	0	1	4	3	2	1
Edgewood	2	109	88	5	1	56	41	17	19
Florida City	1	277	585	18	19	77	200	77	153
Gulf Breeze	1	1	9	0	0	0	4	1	1
Kissimmee	2	385	390	8	10	177	209	52	75
Lakeland	6	103	138	6	6	58	83	25	34
Maitland	2	134	106	6	2	70	61	17	15
Manatee County BOCC	5	484	571	14	11	251	310	103	120
Medley	6	130	82	7	3	37	31	25	15
Miami Gardens	8	635	459	16	16	242	165	159	98
Miami Springs	3	214	223	6	4	43	48	24	15
Midway	2	40	33	1	1	9	13	11	6
Milton (Santa Rosa County)	2	67	40	0	1	27	22	11	10
North Miami Beach	3	181	270	3	0	86	116	36	35
Ocoee	4	269	268	5	3	148	148	58	49
Orange County BOCC	28	2,716	2,930	73	85	1,513	1,562	554	625
Orange Park	4	82	49	6	2	28	15	8	7
Orlando	15	2,050	2,050	118	97	1,038	980	481	481
Osceola County BOCC	9	591	751	19	19	346	435	101	138
Pembroke Pines	6	711	659	23	24	448	420	105	90
Pinecrest	8	480	367	9	6	321	233	61	39
Sarasota	10	818	900	13	30	489	465	126	214
South Miami	4	362	532	4	8	174	283	49	82
Sunrise	8	255	369	8	9	126	196	69	81
Sweetwater	3	135	130	9	12	27	47	43	35
Tampa	7	144	166	14	8	87	89	23	45
West Miami	2	79	47	1	1	38	20	15	7
GRAND TOTAL	162	12,158	13,067	416	411	6,237	6,596	2,429	2,680

Appendix A: Crashes Before and After Red Light Implementation by Jurisdiction

Jurisdiction	# Intersections	Non-Injury Before	Non-Injury After	Injury Before	Injury After	Fatal Before	Fatal After
Aventura	1	49	136	17	18	0	0
Boynton Beach	4	98	305	37	51	2	1
Coral Gables	3	327	207	64	49	1	0
Crestview	2	77	70	19	13	0	0
Davie	1	14	5	1	0	0	0
Edgewood	2	84	62	25	26	0	0
Florida City	1	198	464	78	121	1	0
Gulf Breeze	1	1	7	0	2	0	0
Kissimmee	2	288	277	96	111	1	2
Lakeland	6	61	87	42	51	0	0
Maitland	2	92	79	42	27	0	0
Manatee County BOCC	5	306	383	176	186	2	2
Medley	6	115	68	15	13	0	1
Miami Gardens	8	531	398	101	59	3	2
Miami Springs	3	192	196	21	15	1	1
Midway	2	22	20	16	13	2	0
Milton (Santa Rosa County)	2	41	32	26	8	0	0
North Miami Beach	3	132	220	48	48	1	2
Ocoee	4	188	200	81	67	0	1
Orange County BOCC	28	2,037	2,238	676	689	3	3
Orange Park	4	59	36	23	13	0	0
Orlando	15	1,389	1,446	655	604	6	0
Osceola County BOCC	9	396	513	195	235	0	3
Pembroke Pines	6	554	498	154	161	3	0
Pinecrest	8	396	308	81	54	0	0
Sarasota	10	616	672	200	226	2	2
South Miami	4	303	448	58	81	1	3
Sunrise	8	143	264	112	104	0	1
Sweetwater	3	121	103	14	27	0	0
Tampa	7	59	88	85	76	0	2
West Miami	2	69	42	9	5	1	0
GRAND TOTAL	162	8,958	9,872	3,167	3,153	30	26

Appendix B: Crashes Involving Running Red Lights

Jurisdiction	# Intersections	Crashes Before	Crashes After	Non-Motorist Before	Non-Motorist After	Rear End Before	Rear End After	Angle Before	Angle After
Aventura	1	3	2	0	0	0	0	2	1
Boynton Beach	4	8	16	0	0	1	2	4	13
Coral Gables	3	10	11	0	0	0	0	9	11
Crestview	2	3	3	0	0	0	0	2	2
Davie	1	0	1	0	0	0	1	0	0
Edgewood	2	5	1	0	0	2	0	1	1
Florida City	1	18	19	0	0	4	1	12	11
Gulf Breeze	1	0	0	0	0	0	0	0	0
Kissimmee	2	8	10	0	0	0	0	6	9
Lakeland	6	6	6	0	0	0	0	6	6
Maitland	2	6	2	0	0	0	0	5	1
Manatee County BOCC	5	14	11	1	0	2	0	9	10
Medley	5	7	3	0	0	0	1	6	0
Miami Gardens	8	16	16	0	0	1	2	10	12
Miami Springs	3	6	4	0	0	0	0	4	2
Midway	1	1	1	0	0	0	0	0	0
Milton (Santa Rosa County)	1	0	1	0	0	0	0	0	1
North Miami Beach	3	3	0	0	0	0	0	3	0
Ocoee	4	5	3	0	0	0	1	4	2
Orange County BOCC	28	73	85	1	1	1	4	55	63
Orange Park	2	6	2	0	0	0	0	5	1
Orlando	15	118	97	1	2	2	1	85	74
Osceola County BOCC	9	19	19	0	0	0	0	13	17
Pembroke Pines	4	23	24	0	0	1	1	13	18
Pinecrest	6	9	6	0	0	0	0	7	5
Sarasota	10	13	30	0	1	0	1	7	22
South Miami	4	4	8	1	2	1	1	2	3
Sunrise	8	8	9	0	1	0	0	8	8
Sweetwater	3	9	12	0	0	1	0	4	9
Tampa	7	14	8	1	1	1	1	9	6
West Miami	2	1	1	0	0	0	0	1	0
GRAND TOTAL	153	416	411	5	8	17	17	292	308

Appendix B: Crashes Involving Running Red Lights

Jurisdiction	# Intersections	Non-Injury Before	Non-Injury After	Injury Before	Injury After	Fatal Before	Fatal After
Aventura	1	1	2	2	0	0	0
Boynton Beach	4	4	9	3	7	1	0
Coral Gables	3	1	3	9	8	0	0
Crestview	2	2	0	1	3	0	0
Davie	1	0	1	0	0	0	0
Edgewood	2	1	1	4	0	0	0
Florida City	1	12	15	6	4	0	0
Gulf Breeze	1	0	0	0	0	0	0
Kissimmee	2	2	5	6	4	0	1
Lakeland	6	3	2	3	4	0	0
Maitland	2	4	1	2	1	0	0
Manatee County BOCC	5	4	1	10	9	0	1
Medley	5	4	1	3	2	0	0
Miami Gardens	8	7	8	9	8	0	0
Miami Springs	3	5	2	1	2	0	0
Midway	1	0	1	1	0	0	0
Milton (Santa Rosa County)	1	0	0	0	1	0	0
North Miami Beach	3	0	0	3	0	0	0
Ocoee	4	1	2	4	1	0	0
Orange County BOCC	28	39	36	34	49	0	0
Orange Park	2	1	1	5	1	0	0
Orlando	15	51	46	66	51	1	0
Osceola County BOCC	9	10	5	9	14	0	0
Pembroke Pines	4	10	9	13	15	0	0
Pinecrest	6	5	3	4	3	0	0
Sarasota	10	4	12	9	18	0	0
South Miami	4	0	4	4	3	0	1
Sunrise	8	4	3	4	6	0	0
Sweetwater	3	7	7	2	5	0	0
Tampa	7	4	1	10	6	0	1
West Miami	2	1	1	0	0	0	0
GRAND TOTAL	153	187	182	227	225	2	4

Appendix C: Crashes Involving Non-Motorists

Jurisdiction	# Intersections	Non-Motorist Before	Non-Motorist After
Aventura	1	3	3
Boynton Beach	4	7	7
Coral Gables	3	6	4
Crestview	2	4	0
Davie	1	0	0
Edgewood	1	1	1
Florida City	1	10	21
Gulf Breeze	1	0	1
Kissimmee	2	12	8
Lakeland	6	6	4
Maitland	2	3	3
Manatee County BOCC	5	21	13
Medley	1	1	0
Miami Gardens	7	7	10
Miami Springs	3	3	1
Midway	1	1	0
Milton (Santa Rosa County)	1	2	0
North Miami Beach	3	4	5
Ocoee	4	4	2
Orange County BOCC	27	69	70
Orange Park	3	2	2
Orlando	15	49	44
Osceola County BOCC	9	8	13
Pembroke Pines	4	8	8
Pinecrest	7	6	3
Sarasota	10	20	16
South Miami	4	12	12
Sunrise	8	12	14
Sweetwater	2	4	6
Tampa	7	6	6
West Miami	1	3	1
GRAND TOTAL	146	294	278

Appendix D: Glossary of Terms

Angle Crash	A crash in which two vehicles impact at an angle. For example, the front of one vehicle impacts the side of another vehicle.
Rear-End Crash	A crash in which the front of one vehicle impacts the back of another vehicle.
Non-Injury Crash	A crash in which no persons involved were injured.
Injury Crash	A crash in which any person involved complained of, or showed, any visible signs of injury.
Fatal Crash	A crash in which any person involved dies within a 30-day period after the crash occurred.
Non-Motorist	Any person other than an occupant of a motor vehicle in transport. This includes pedestrians, occupants of other motor vehicles not in transport, and occupants of transport vehicles other than motor vehicles.

Appendix E

Red Light Camera Survey Questions for Fiscal Year 2020-2021

Welcome to the Florida Department of Highway Safety and Motor Vehicles Red Light Camera Survey

Thank you for taking the time to complete the following survey to the best of your knowledge.

Please provide your answers by October 1, 2021.

Remember to submit the supplemental 'Red Light Camera and Intersection Information Table' to: RLC@flhsmv.gov by October 1, 2021.

If you need assistance, or would like a copy of your jurisdiction's response to your previous year's survey, please contact Larry Gowen at (850) 617-2117 or by email at RLC@flhsmv.gov.

Category: Responder Information

Question 1. Please provide the name of the respective jurisdiction (city or county) you represent.

Question 2. What department oversees the red light camera program in your respective jurisdiction?

Question 3. Provide the contact information of the person completing this survey, including name, agency, email address, and phone number.

Question 4. Has your respective jurisdiction **operated red light cameras** within the reporting period of **July 1, 2020 through June 30, 2021**? Yes or No

Category: Program Information

Question 5. What red light camera vendor, or vendors, does your respective jurisdiction use? American Traffic Solutions (also called ATS), Redflex, Xerox, or Other. If Other, please specify, and limit your answer to 300 characters.

Question 6. As of **July 1, 2020**, how many **red light cameras** were operational in your respective jurisdiction? Your answer must be a number.

Question 7. As of **June 30, 2021**, how many **red light cameras** were operational in your respective jurisdiction? Your answer must be a number.

Question 8. As of **July 1, 2020**, at how many **intersections** were red light cameras operational in your respective jurisdiction? Your answer must be a number.

Question 9. As of **June 30, 2021**, at how many **intersections** were red light cameras operational in your respective jurisdiction? Your answer must be a number.

Category: Red Light Camera Violations

Question 10. Please provide the following information regarding **Notices of Violation** issued for red light camera violations in your respective jurisdiction during the reporting period of **July 1, 2020 - June 30, 2021**. Your answers must be numbers. **Please enter, or copy and paste, 9999999 if you do not know.**

Total number of Notices of Violation, also called N O V's

Number of N O V's Paid

Number of N O V's Contested and Pending

Number of N O V's Contested and Dismissed

Number of N O V's Contested and Upheld

Number of N O V's Issued as Uniform Traffic Citations, also called U T C's

Number of N O V's Pending Issuance as U T C's

Question 11. How many **registration holds** did your respective jurisdiction request as a result of red light camera violations during the reporting period of **July 1, 2020 - June 30, 2021**? Your answer must be a number. **Please enter, or copy and paste, 9999999 if you do not know.**

Question 12. How does your respective jurisdiction **submit traffic crash data** to the Florida Department of Highway Safety and Motor Vehicles? All Electronically, All Paper, or Both.

Question 13. In order to identify the **number of repeat offenders**, please provide the number of **unique vehicle owners issued Notices of Violation for multiple red-light camera violations** in your respective jurisdiction. This includes individuals issued multiple Notices of Violation over time, not necessarily within the current reporting period. Your answer must be a number. **Please enter, or copy and paste, 9999999 if you do not know.**

Question 14. Have **court cases impacted** your respective jurisdiction's **red light camera program**? Yes or No. Please explain. Please limit your answer to 300 characters.

Category: Program Information

Question 15. **Other than traffic crashes**, please **rank** the following **factors by importance when selecting** which **intersections to install red light cameras** in your respective jurisdiction. Factors: Traffic Citation Data, Citizen Complaints, Law Enforcement Officer Observations, Traffic Volume, Pedestrian Safety, Traffic Crash Data, or Other. If Other, please specify, and limit your answer to 300 characters. Please rank each factor as: Very Important, Somewhat Important, Not Important, or Not Applicable.

Question 16. Were **any existing red light cameras** relocated within your respective jurisdiction during the reporting period of **July 1, 2020 - June 30, 2021**? Yes or No. If yes, please provide the number and reason. Please limit your answer to 300 characters.

Appendix E

Red Light Camera Survey Questions for Fiscal Year 2020-2021

Question 17. What **factors** are used to **determine the success or failure of each camera location** within your respective jurisdiction? Select all that apply: Change in number of crashes, Change in pedestrian safety, Change in revenue, or Other. If Other, please specify, and limit your answer to 300 characters.

Category: Procedures

Question 18. Who **reviews** the camera **images before Notices of Violation are issued** within your respective jurisdiction? Select all that apply: Law Enforcement Officer, Non-sworn government employee, Non-sworn contractor employee or vendor, or Other. If Other, please specify, and limit your answer to 300 characters.

Question 19. Who **reviews contested Notices of Violation** within your respective jurisdiction? Select all that apply: Law Enforcement Officer, Non-sworn government employee, Non-sworn contractor employee or vendor, or Other. If Other, please specify, and limit your answer to 300 characters.

Question 20. Who **issues Uniform Traffic Citations** if **Notices of Violation are unpaid** within your respective jurisdiction? Select all that apply: Law Enforcement Officer, Non-sworn government employee, Non-sworn contractor employee or vendor, or Other. If Other, please specify, and limit your answer to 300 characters.

Category: Right-Hand Turns

Question 21. Does your respective jurisdiction **issue Notices of Violation** (through red light camera detection) for persons making a **right turn on red signal**? Yes or No.

Question 22. How many **Notices of Violation were issued within your respective jurisdiction for right turn on red** during the reporting period of **July 1, 2020 - June 30, 2021**? Answer must be a number. **Please enter, or copy and paste, 9999999 if you do not know.**

Question 23. Section 316.0083(1)(a), Florida Statutes, provides that, "A notice of violation and a traffic citation may not be issued for failure to stop at a red light, if the driver is making a right-hand turn in a **careful and prudent manner**, at an intersection where right-hand turns are permissible." **Please provide the definition used by your respective jurisdiction when determining if a violation should be issued.** There is no character limit on this answer.

Category: Additional Information

Question 24. What **action, or actions**, has your respective jurisdiction **taken to improve safety measures** as a result of your red light camera program?

At intersections **with** red light cameras: Re-striping, Engineering, Roadway or Geometric Engineering, Signalization or Operations, Lighting, Increased red light camera-specific signage, Increased other type of signage, Education and outreach, or Other. If Other, please specify, and limit your answer to 300 characters.

At intersections **without** red light cameras: Re-striping, Engineering, Roadway or Geometric Engineering, Signalization or Operations, Lighting, Increased red light camera-specific signage, Increased other type of signage, Education and outreach, or Other. If Other, please specify, and limit your answer to 300 characters.

Question 25. Has **red light camera footage** been **used to investigate other crimes** within your respective jurisdiction? Yes or No.

Question 26. If **red light camera footage** has been **used to investigate other crimes** within your respective jurisdiction, please **select all that apply**: Crash investigation, Criminal investigation, Missing person, Not Applicable, or Other. If Other, please specify, and limit your answer to 300 characters.

Question 27. Is your respective jurisdiction **continuing the red light camera program** in Fiscal Year **July 1, 2021 - June 30, 2022**? Yes or No.

Question 28. Has your respective jurisdiction **conducted** an independent **red light camera analysis**? Yes or No.

Question 29. Please provide any **specifications or clarifications for any of your answers**. There is no character limit on this answer.

Thank you for completing the Red Light Camera Survey for Fiscal Year 2020-2021. Remember to **submit** the supplemental **'Red Light Camera and Intersection Information Table'** to: RLC@flhsmv.gov **by October 1, 2021**.

Appendix F: Jurisdiction Responses to Survey

Question 1: Name of Jurisdiction (City or County)	Question 2: What department oversees the red light camera program in your respective jurisdiction?	Question 3: Provide the contact information of the person completing the survey		Question 4: Has your jurisdiction operated red light cameras within the reporting period July 1, 2020 - June 30, 2021?
		Name	Agency	
Aventura	Community Development	Keven Klopp	City of Aventura Community Development Department	Yes
Bal Harbour Village	Police Department	Pamela Flanders-Alvin	Bal Harbour PD	Yes
Belle Isle	Police Department	Travis Grimm	Belle Isle Police Department	Yes
Boynton Beach	Boynton Beach Police Department (Traffic)	Sgt. Phillip L. Hawkins	Boynton Beach Police Department	Yes
Clearwater	Support Services Division	Major David Dalton	Clearwater Police Department	Yes
Coral Gables	Coral Gables Police Department	Omar Garcia	Coral Gables Police Department	Yes
Crestview	Police Department	Jodie Felicia for Chief Stephen McCosker	Crestview Police Department	Yes
Davie	Police	Scott Israel	Davie Police Department	Yes
Doral	Doral Police Department	Ofc. Manuel Ubieta	Doral Police Dept.	Yes
Edgewood	Edgewood Police Dept	Stacey L Salemi	Edgewood Police Dept	Yes
Florida City	Florida City Police Department	Jose Tzintzun	Florida City Police Department	Yes
Green Cove Springs	Police Department	Ofc. Ronnie Gann	Green Cove Springs Police	Yes
Gulf Breeze	Police Department	Richard Hawthorne	Gulf Breeze Police Department	Yes
Haines City	Haines City Police Department	Kevin M. Hager	Haines City Police Department	Yes
Hillsborough County	Hillsborough County Sheriff's Office	William Blair	Hillsborough County Sheriff's Office	Yes
Key Biscayne	Traffic Division	Lieutenant Brian Kemmerer	Key Biscayne Police Department	Yes
Kissimmee	Kissimmee Police Department	Sergeant Stacey Legel	Kissimmee Police Department	Yes
Lakeland	Lakeland Police Department	Chad Mumbauer	Lakeland Police Department	Yes
Maitland	Police Department	Dawn D'Ambrosio	Maitland Police Department	Yes
Manatee County	Public Safety, Code Enforcement	Robin J Dyer	Manatee County Government	Yes
Medley	Police Department	Arturo Jinete	Medley Police Department	Yes
Miami Beach	Miami Beach Police Accident Investigation Unit	Sgt. David Price	Miami Beach Police Department	Yes
Miami Gardens	Traffic Unit	Officer Brian O'Malley	Miami Gardens Police Department	Yes
Miami Springs	Police Department	Jimmy Deal	Miami Springs Police Department	Yes
Midway	Midway Police Department	Captain Kristi Cobb	Midway Police Department	Yes
Milton/Santa Rosa County	Patrol	Katherine	McDaniels	Yes
New Port Richey	Police Department	Kim Bogart	New Port Richey Police Department	Yes
North Miami Beach	Administration	Ofc. Jerry Hamilton	North Miami Beach Police	Yes
Ocoee	Police Department	Sgt. William Wagner	Ocoee Police Department	Yes
Opa-locka	Opa-locka Police Department	Captain Alvin Rogers	Opa-locka Police Department	Yes
Orange County	Public Works/Traffic Engineering	Martina Desjardins	Public Works	Yes
Orange Park	Orange Park Police Department	Gary Goble	Orange Park Police Department	Yes
Orlando	Orlando Police Department, Transportation Department	Raymond Rodriguez	Orlando Police Department	Yes
Osceola County	Transportation & Transit	Neysha Espinal	Osceola County BOCC	Yes
Pinecrest	Police Department	J. C. Gonzalez	Pinecrest Police Department	Yes
Port Richey Inc	Police Department	Elena Divino	City of Port Richey Police Department	Yes
Sarasota	Sarasota Police Department	Sergeant Chris O'Donnell	Sarasota Police Department	Yes
South Miami	Police Department	John Barzola	South Miami Police Department	Yes
Sunrise	Sunrise Police Department Special Operations Section-Traffic Unit	Sergeant Jeremy Copas	Sunrise Police Department	Yes
Sweetwater	Support Services	Steven	Lopez	Yes
Tampa	Police Department	Alexander Thiel	Tampa Police Department	Yes
West Miami	Traffic Unit	Officer R. Francisco	West Miami Police Department	Yes
West Park	Political Affairs	Scott Israel	City of West Park	Yes
Winter Park	Winter Park Police Department	Travis J Lundquist	Winter Park Police Department	Yes

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 5: What red light camera vendor, or vendors, does your respective jurisdiction use?	Question 6: As of July 1, 2020, how many red light cameras were operational?	Question 7: As of June 30, 2021, how many red light cameras were operational?	Question 8: As of July 1, 2020, at how many intersections were red light cameras operational?	Question 9: As of June 30, 2021, at how many intersections were red light cameras operational?	Question 10. Please provide the following information regarding Notices of Violation issued for red light camera violations in your respective jurisdiction during the reporting period of July 1, 2020 - June 30, 2021.						
						Total #	# Paid	# Contested & Pending	# Contested & Dismissed	# Contested & Upheld	# Issued as UTC	# Pending Issuance as UTC
Aventura	American Traffic Solutions	13	14	6	6	34,994	20,603	110	80	194	12,399	0
Bal Harbour Village	American Traffic Solutions	5	5	5	5	14,439	8,472	11	12	37	5,279	0
Belle Isle	NovoaGlobal	0	4	0	4	2,881	2,138	0	0	2	445	67
Boynton Beach	American Traffic Solutions	15	15	7	7	32,197	21,837	25	62	245	9,382	0
Clearwater	Redflex	3	3	2	2	15,171	9,453	0	6	72	4,220	439
Coral Gables	Redspeed	5	8	3	5	5,893	3,328	30	2	9	616	168
Crestview	Novoa Global	4	4	2	2	2,832	2,223	1	1	1	586	0
Davie	American Traffic Solutions	5	5	4	4	8,127	4,537	26	6	39	3,114	0
Doral	American Traffic Solutions	8	8	3	3	15,506	9,973	1	15	83	3,542	0
Edgewood	GATSO	3	0	2	0	5,128	3,767	0	7	23	1,302	0
Florida City	American Traffic Solutions	7	3	4	2	11,017	5,506	29	0	3	4,114	0
Green Cove Springs	American Traffic Solutions	5	5	3	3	13,869	10,086	9	10	54	2,824	180
Gulf Breeze	NovoaGlobal	6	6	3	3	11,349	8,828	0	0	2	2,568	0
Haines City	American Traffic Solutions	11	11	6	6	23,436	16,357	124	24	98	6,321	0
Hillsborough County	American Traffic Solutions	10	10	6	6	43,951	29,530	6,289	29	161	7,709	6,928
Key Biscayne	American Traffic Solutions	4	4	3	3	1,047	764	3	0	0	217	0
Kissimmee	Redflex	19	19	10	10	32,188	20,560	37	16	21	10,131	282
Lakeland	American Traffic Solutions	18	18	11	11	22,354	15,373	45	4	769	5,722	0
Maitland	Sensys Gatso Group	4	4	3	3	3,412	2,356	1	0	11	605	0
Manatee County	Conduent	10	18	8	12	16,640	11,267	15	19	24	3,386	0
Medley	American Traffic Solutions	9	9	9	9	13,995	10,088	9	10	54	3,287	0
Miami Beach	Conduent	9	9	9	9	7,655	4,186	12	3	11	1,945	37
Miami Gardens	American Traffic Solutions	26	26	15	15	149,265	68,610	950	1,795	927	8,667	0
Miami Springs	American Traffic Solutions	3	5	3	4	15,203	8,787	10	8	63	5,611	0
Midway	Senys America	2	2	2	2	0	0	0	0	0	0	0
Milton (Santa Rosa County)	American Traffic Solutions	5	0	3	0	3,521	2,539	0	1	11	501	0
New Port Richey	Verra Mobility	5	5	4	4	13,436	9,548	14	10	109	2,702	0
North Miami Beach	American Traffic Solutions	5	5	5	5	49,466	11,351	0	1,792	0	10,008	0
Ocoee	American Traffic Solutions	14	14	7	7	18,294	12,135	36	4	72	5,827	0
Opa-locka	American Traffic Solutions	11	11	4	4	0	0	0	0	0	0	0
Orange County	American Traffic Solutions	56	54	35	34	61,933	39,052	13	15	179	17,276	0
Orange Park	American Traffic Solutions	8	8	3	3	11,870	8,165	5	3	48	2,915	0
Orlando	American Traffic Solutions	44	37	24	23	51,223	35,606	13	2	128	13,143	0
Osceola County	American Traffic Solutions	15	13	7	6	10,734	6,844	6	0	0	3,283	0
Pinecrest	Redflex	8	8	8	8	20,834	12,894	25	19	101	2,426	3,452
Port Richey Inc	American Traffic Solutions	5	5	2	2	13,977	6,185	0	11	79	3,145	0
Sarasota	Redspeed USA	20	20	10	10	21,987	15,937	170	7	95	2,614	2,152
South Miami	Redflex	4	4	4	4	8,075	5,745	8	13	64	2,379	470
Sunrise	American Traffic Solutions	18	18	10	10	28,875	16,578	34	73	189	5,582	0
Sweetwater	American Traffic Solutions	6	6	3	3	27,667	17,217	275	22	58	8,534	0
Tampa	American Traffic Solutions	50	43	22	22	68,110	42,738	55	132	412	22,174	0
West Miami	American Traffic Solutions	6	6	6	6	26,882	11,307	0	1,005	51	0	0
West Park	American Traffic Solutions	5	5	4	4	5,335	2,393	17	12	54	2,600	0
Winter Park	Sensys Gatso Group AB	8	8	6	6	10,529	8,434	29	1	25	3,128	1,542

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 11. How many registration holds did your respective jurisdiction request as a result of red light camera violations during the reporting period of July 1, 2020 - June 30, 2021?	Question 12. How does your respective jurisdiction submit traffic crash data to the Florida Department of Highway Safety and Motor Vehicles?	Question 13. In order to identify the number of repeat offenders, please provide the number of unique vehicle owners issued Notices of Violation for multiple red-light camera violations.	Question 14. Have court cases impacted your respective jurisdiction's red light camera program?	
				Response	Details
Aventura	0	All Electronically	3,440	Yes	Jimenez v Aventura upheld by Florida Supreme Court Aventura v. Stein – further affirmed validity of program
Bal Harbour Village	0	Both	12,997	Yes	
Belle Isle	0	All Electronically	127	No	We have had no issues.
Boynton Beach	87	All Electronically	25,858	No	
Clearwater	27	All Electronically	8,335	No	
Coral Gables	0	All Electronically	188	Yes	
Crestview	0	All Electronically	450	No	
Davie	0	All Electronically	289	No	
Doral	0	All Electronically	14,203	No	N/A
Edgewood	6	All Electronically	183	No	
Florida City	0	Both	8,077	Yes	Yes, they have helped bring in more revenue.
Green Cove Springs	0	All Paper	12,138	No	
Gulf Breeze	0	All Electronically	1,517	No	
Haines City	0	All Electronically	0	No	
Hillsborough County	0	All Electronically	38,050	No	
Key Biscayne	0	All Electronically	0	No	
Kissimmee	10	All Electronically	28,049	No	
Lakeland	223	All Electronically	18,094	No	
Maitland	0	All Electronically	149	Yes	Court decisions affect the policies and procedures of our program.
Manatee County	12	Both	12,819	No	
Medley	0	All Electronically	12,542	Yes	Due to the pandemic, court cases were suspended in 2020 and started up again in 2021.
Miami Beach	19	All Electronically	14,283	No	
Miami Gardens	0	All Electronically	94,884	Yes	We have experienced a higher level of hearings due to inaccurate reporting of information by the media, stating that the cameras were taken down and ruled by the courts to be illegal.
Miami Springs	11	All Electronically	13,677	No	
Midway	0	All Electronically	0	No	
Milton (Santa Rosa County)	13	All Paper	243	No	
New Port Richey	0	Both	11,589	No	
North Miami Beach	150	All Electronically	0	Yes	As law is generated it impacts how cities can argue the violations.
Ocoee	25	All Electronically	1,836	No	
Opa-locka	0	All Electronically	0	Yes	
Orange County	13	Both	5,037	Yes	
Orange Park	0	Both	751	No	
Orlando	41	All Electronically	4,592	No	N/A
Osceola County	0	Both	588	No	There has not been any court cases against the program.
Pinecrest	75	All Electronically	8,214	Yes	Both Administrative Hearings and Traffic Court cases were placed on stay due to the COVID-19 pandemic. UTC cases are still backlogged with the Clerk of Courts in Miami-Dade County.
Port Richey Inc	0	Both	804	No	
Sarasota	0	All Electronically	1,351	No	
South Miami	0	All Electronically	1,795	No	In May 5, 2017 Order Finding the CSM Red Light Camera program in compliance with the requirements of Jimenez was issued by Judge Steve Leifman under CS#A3MH03E
Sunrise	0	All Electronically	2,766	No	Court cases have not impacted our red light camera program during the requested time frame.
Sweetwater	0	All Electronically	23,846	Yes	on red light violations.
Tampa	79	All Electronically	8,625	No	
West Miami	18	All Electronically	0	No	
West Park	0	All Electronically	227	No	
Winter Park	55	All Electronically	9,866	No	

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 15. Other than traffic crashes, please rank the following factors by importance when selecting which intersections to install red light cameras in your respective jurisdiction.							Question 16. Were any existing red light cameras relocated within your respective jurisdiction during the reporting period?
	Traffic Citation Data	Citizen Complaints	Law Enforcement Officer Observations	Traffic Volume	Pedestrian Safety	Traffic Crash Data	Other (please specify)	
Aventura	N/A	Very Important	N/A	Very Important	Very Important	Very Important		No
Bal Harbour Village	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Belle Isle	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Boynton Beach	Somewhat Important	Somewhat Important	Very Important	Somewhat Important	Very Important	Very Important		No
Clearwater	Somewhat Important	Somewhat Important	Somewhat Important	Very Important	Very Important	Very Important		No
Coral Gables	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Crestview	Somewhat Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Davie	Somewhat Important	Somewhat Important	Somewhat Important	Very Important	Very Important	Very Important		No
Doral	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Edgewood	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Florida City	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Green Cove Springs	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Gulf Breeze	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Haines City	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Hillsborough County	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Key Biscayne	Somewhat Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Kissimmee	Very Important	Somewhat Important	Somewhat Important	Very Important	Very Important	Very Important		No
Lakeland	Somewhat Important	Somewhat Important	Somewhat Important	Not Important	Very Important	Somewhat Important		No
Maitland	Very Important	Somewhat Important	Somewhat Important	Very Important	Very Important	Very Important		No
Manatee County	N/A	Somewhat Important	Very Important	Somewhat Important	Very Important	Very Important		No
Medley	Somewhat Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Miami Beach	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Miami Gardens	Somewhat Important	Somewhat Important	Very Important	Very Important	Very Important	Very Important		No
Miami Springs	Very Important	Somewhat Important	Somewhat Important	Not Important	Very Important	Very Important		No
Midway	N/A	N/A	Very Important	Very Important	Very Important	Very Important		No
Milton (Santa Rosa County)	Not Important	Very Important	Somewhat Important	N/A	Very Important	Very Important		No
New Port Richey	Somewhat Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
North Miami Beach	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Ocoee	Somewhat Important	Somewhat Important	Somewhat Important	Somewhat Important	Somewhat Important	Very Important		No
Opa-locka	Very Important	Somewhat Important	Very Important	Very Important	Very Important	Very Important		No
Orange County	Somewhat Important	Somewhat Important	N/A	Somewhat Important	Very Important	Very Important		No
Orange Park	Very Important	Somewhat Important	Very Important	Very Important	Very Important	Very Important		No
Orlando	Very Important	Very Important	Somewhat Important	Somewhat Important	Very Important	Very Important	The City of Orlando places cameras in accordance to angle crash (T-Bone), reports generated by law enforcement personal at the scene of the crash. Each of these crash reports are read and analyzed to determine if the traffic signal was a factor in the angle crash. Crash data is the most useful tool towards supporting road safety camera programs. We have examined intersections with red light cameras, when compared to a similar intersection, (size, traffic volume, etc.) without a camera. The question of volume is only relevant when comparing crash year over year. The findings have shown that overall there are higher numbers of angle crashes at interactions that do not have red light cameras. Overall angle traffic crashes are up throughout the State of Florida. Any reduction in angle crashes is welcomed.	No
Osceola County	Not Important	Somewhat Important	Somewhat Important	Somewhat Important	Somewhat Important	Very Important		No
Pinecrest	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Port Richey Inc	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Sarasota	Very Important	Somewhat Important	Somewhat Important	Somewhat Important	Somewhat Important	Very Important		No
South Miami	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Sunrise	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
Sweetwater	Somewhat Important	Somewhat Important	Somewhat Important	Somewhat Important	Very Important	Somewhat Important		No
Tampa	N/A	N/A	N/A	N/A	N/A	Very Important		No
West Miami	Very Important	Very Important	Very Important	Very Important	Very Important	Very Important		No
West Park	Somewhat Important	Somewhat Important	Somewhat Important	Very Important	Very Important	Very Important		No
Winter Park	Very Important	Somewhat Important	Very Important	Very Important	Very Important	Very Important		No

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 17. What factors are used to determine the success or failure of each camera location within your respective jurisdiction?				Question 18. Who reviews the camera images before Notices of Violation are issued?			
	Change in Number of Crashes	Change in Pedestrian Safety	Change in Revenue	Other (please specify)	Law Enforcement Officer	Non-Sworn Government Employee	Non-Sworn Contractor Employee (Vendor)	Other (please specify)
Aventura	X				X			
Bal Harbour Village	X	X			X			
Belle Isle				First-year of the program, more data needs to be collected.		X		
Boynton Beach	X	X			X	X		
Clearwater	X	X			X	X		Retired LEO; Sworn, non-sworn when unavailable.
Coral Gables	X	X				X		
Crestview	X	X			X			
Davie			X			X		
Doral	X	X			X			
Edgewood	X	X				X	X	
Florida City	X	X	X		X			
Green Cove Springs	X	X			X			
Gulf Breeze	X	X			X	X		
Haines City	X	X			X			
Hillsborough County	X	X			X			
Key Biscayne	X	X			X			
Kissimmee	X	X			X			
Lakeland	X	X			X			
Maitland	X	X			X	X	X	
Manatee County				The total number of Notices of Violation issued, and whether they increase or decrease on a monthly basis. Each approach is evaluated independently each month.	X			
Medley	X		X	At this time it is difficult to determine since the pandemic has minimized traffic flow for 2020, and has started to pick up in 2021, as things get somewhat back to normal.	X	X		
Miami Beach	X	X			X	X		
Miami Gardens	X	X			X	X		
Miami Springs	X	X		Increase or decrease in the number of violations issued over a specific period of time.	X	X		
Midway	X	X	X		X			
Milton (Santa Rosa County)	X				X			
New Port Richey	X	X				X		
North Miami Beach	X	X			X	X		
Ocoee	X	X			X	X	X	
Opa-locka	X				X			
Orange County	X	X				X	X	
Orange Park	X	X			X			
Orlando	X	X		A reduction of angle crashes (T-Bone), and the reduction of violations committed are factors to consider. A reduction in angle crashes and violations indicates a change in driver behavior. One must also take into account the traffic volume, traffic volume are up throughout all of our intersections. Again, the question of volume is only relevant when comparing crash year over year. An increase in traffic volume, coupled with a reduction in violations and angle crashes is an ideal situation. Traffic volume continues to increase throughout the City of Orlando and Central Florida.		X		Orlando Police Department- utilizes State of Florida Certified Traffic Infraction Enforcement Officers with previous sworn Law Enforcement experience.
Osceola County	X	X			X			
Pinecrest	X	X			X			
Port Richey Inc	X	X				X		
Sarasota	X				X	X		
South Miami	X	X			X			
Sunrise	X	X			X	X		
Sweetwater	X	X			X			
Tampa	X				X			
West Miami	X	X			X			
West Park				Decrease in revenue equates to a decrease in violations which is indicative of a successful program.			X	
Winter Park	X	X			X	X		

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 19. Who reviews contested Notices of Violation? (select all that apply)				Question 20. Who issues Uniform Traffic Citations if Notices of Violation are unpaid? (select all that apply)			
	Law Enforcement Officer	Non-Sworn Government Employee	Non-Sworn Contractor Employee (Vendor)	Other (please specify)	Law Enforcement Officer	Non-Sworn Government Employee	Non-Sworn Contractor Employee (Vendor)	Other (please specify)
Aventura	X				X			
Bal Harbour Village	X				X			
Belle Isle		X				X		
Boynton Beach	X	X			X	X		
Clearwater	X	X		Retired LEO; Sworn, non-sworn when unavailable.	X	X		Retired LEO; Sworn, non-sworn when unavailable.
Coral Gables		X				X		
Crestview	X				X			
Davie		X				X		
Doral	X				X			
Edgewood		X				X		
Florida City	X				X			
Green Cove Springs	X				X			
Gulf Breeze	X				X			
Haines City	X				X			
Hillsborough County	X				X			
Key Biscayne	X				X			
Kissimmee	X				X			
Lakeland			X		X			
Maitland	X	X		Legal Advisor	X	X		
Manatee County	X				X			
Medley	X	X			X	X		
Miami Beach	X	X			X			
Miami Gardens	X				X			
Miami Springs	X				X			
Midway		X			X			
Milton (Santa Rosa County)		X			X			
New Port Richey		X				X		
North Miami Beach	X	X			X	X		
Ocoee	X	X			X	X		
Opa-locka	X				X			
Orange County		X				X		
Orange Park	X				X			
Orlando		X		Orlando Police Department- utilizes State of Florida Certified Traffic Infraction Enforcement Officers with previous sworn Law Enforcement experience.		X		Orlando Police Department- utilizes State of Florida Certified Traffic Infraction Enforcement Officers with previous sworn Law Enforcement experience.
Osceola County	X				X			
Pinecrest	X				X			
Port Richey Inc		X				X		
Sarasota	X				X	X		
South Miami				Contested notices of violation are reviewed by a Magistrate during the hearing	X			
Sunrise	X	X			X	X		
Sweetwater	X				X			
Tampa				Hearing Magistrate	X			
West Miami	X				X			
West Park		X					X	
Winter Park	X	X			X	X		

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 21. Does your respective jurisdiction issue Notices of Violation (through red light camera detection) for persons making a right turn on red signal?	Question 22. How many Notices of Violation were issued within your respective jurisdiction for right turn on red during the reporting period of July 1, 2020 - June 30, 2021?	Question 24. What action, or actions, has your respective jurisdiction taken to improve safety measures as a result of your red light camera program?		
			Education /Outreach for intersections with RLC	Education /Outreach for intersections without RLC	Education /Outreach N/A
Aventura	Yes	18,691			X
Bal Harbour Village	Yes				X
Belle Isle	Yes				X
Boynton Beach	No		X		
Clearwater	No		X	X	
Coral Gables	Yes				X
Crestview	No				X
Davie	No		X		
Doral	No				X
Edgewood	No				X
Florida City	Yes	2,086			X
Green Cove Springs	Yes	72			X
Gulf Breeze	No				X
Haines City	No				X
Hillsborough County	No				X
Key Biscayne	Yes	12	X	X	X
Kissimmee	Yes	6,126		X	
Lakeland	Yes	5,061		X	
Maitland	Yes				X
Manatee County	Yes				X
Medley	Yes		X	X	
Miami Beach	Yes		X		
Miami Gardens	Yes	111,045	X	X	
Miami Springs	Yes	5,084	X	X	
Midway	Yes				X
Milton (Santa Rosa County)	No				X
New Port Richey	Yes	33			X
North Miami Beach	No	None			X
Ocoee	Yes	10,823	X	X	
Opa-locka	Yes				X
Orange County	Yes	272			X
Orange Park	No				X
Orlando	No		X	X	
Osceola County	No				X
Pinecrest	No				X
Port Richey Inc	No				X
Sarasota	No				X
South Miami	No		X	X	
Sunrise	Yes	11,095	X	X	
Sweetwater	Yes	23,440	X		
Tampa	Yes	2,944	X	X	
West Miami	Yes	0			X
West Park	No		X		
Winter Park	Yes				X

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 24. What action, or actions, has your respective jurisdiction taken to improve safety measures as a result of your red light camera program?					
	Re-striping at intersections with red light cameras	Re-striping at intersections without red light cameras	Re-striping - N/A	Lighting at intersections with red light cameras	Lighting at intersections without red light cameras	Lighting - N/A
Aventura	X	X		X	X	
Bal Harbour Village			X			X
Belle Isle			X			X
Boynton Beach			X			X
Clearwater	X	X		X	X	
Coral Gables			X			X
Crestview			X			X
Davie			X			X
Doral	X			X		
Edgewood	X	X		X	X	
Florida City			X			X
Green Cove Springs	X					X
Gulf Breeze			X			X
Haines City			X			X
Hillsborough County			X			X
Key Biscayne	X					X
Kissimmee	X				X	
Lakeland		X			X	
Maitland			X			X
Manatee County	X					X
Medley	X					X
Miami Beach	X			X		
Miami Gardens	X	X		X	X	
Miami Springs	X	X		X	X	
Midway			X			X
Milton (Santa Rosa County)			X			X
New Port Richey			X			X
North Miami Beach			X			X
Ocoee			X			X
Opa-locka	X	X				X
Orange County	X			X		
Orange Park	X	X		X	X	
Orlando	X	X		X	X	
Osceola County			X			X
Pinecrest			X			X
Port Richey Inc			X			X
Sarasota			X			X
South Miami			X			X
Sunrise	X	X		X	X	
Sweetwater			X			X
Tampa	X	X		X	X	
West Miami	X			X		
West Park			X	X		
Winter Park		X				X

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 24. What action, or actions, has your respective jurisdiction taken to improve safety measures as a result of your red light camera program?					
	Engineering, Roadway/Geometric at intersections with red light cameras	Engineering, Roadway/Geometric at intersections without red light cameras	Engineering, Roadway/Geometric N/A	Engineering, Signalization/Operations at intersections with red light cameras	Engineering, Signalization/Operations at intersections without red light cameras	Engineering, Signalization/Operations N/A
Aventura	X	X		X		
Bal Harbour Village			X			X
Belle Isle			X			X
Boynton Beach			X			X
Clearwater	X	X				X
Coral Gables			X			X
Crestview			X			X
Davie			X			X
Doral			X			X
Edgewood	X	X		X	X	
Florida City			X			X
Green Cove Springs			X			X
Gulf Breeze			X	X		
Haines City			X			X
Hillsborough County			X			X
Key Biscayne			X			X
Kissimmee		X			X	
Lakeland		X			X	
Maitland			X			X
Manatee County			X			X
Medley	X					X
Miami Beach	X			X		
Miami Gardens	X	X		X	X	
Miami Springs	X	X		X	X	
Midway			X			X
Milton (Santa Rosa County)			X			X
New Port Richey			X			X
North Miami Beach			X			X
Ocoee			X			X
Opa-locka	X	X				X
Orange County	X			X		
Orange Park			X	X	X	
Orlando	X	X		X	X	
Osceola County			X			X
Pinecrest			X			X
Port Richey Inc			X			X
Sarasota			X			X
South Miami			X			X
Sunrise		X		X	X	
Sweetwater			X			X
Tampa	X	X		X	X	
West Miami			X			X
West Park	X			X		
Winter Park		X			X	

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 24. What action, or actions, has your respective jurisdiction taken to improve safety measures as a result of your red light camera program?						Other (please specify)
	Increased red light camera-specific signage at intersections with red light cameras	Increased red light camera-specific signage at intersections without red light cameras	Increased red light camera-specific signage - N/A	Increased other type of signage at intersections with red light cameras	Increased other type of signage at intersections without red light cameras	Increased other type of signage - N/A	
Aventura	X			X			
Bal Harbour Village	X			X			
Belle Isle	X			X			
Boynton Beach	X					X	
Clearwater			X	X	X		
Coral Gables			X			X	
Crestview			X			X	
Davie			X			X	
Doral	X			X			
Edgewood			X			X	
Florida City			X			X	
Green Cove Springs			X			X	
Gulf Breeze			X			X	
Haines City			X			X	
Hillsborough County			X			X	
Key Biscayne	X			X	X		
Kissimmee	X			X	X		
Lakeland		X			X		
Maitland			X			X	
Manatee County			X			X	
Medley			X			X	
Miami Beach	X					X	
Miami Gardens	X					X	
Miami Springs			X			X	
Midway	X					X	
Milton (Santa Rosa County)			X			X	Our City Council had all redlight cameras removed/stopped 5/3/2021 We no longer have access to the data
New Port Richey			X			X	
North Miami Beach			X			X	
Ocoee			X			X	
Opa-locka			X			X	
Orange County	X			X			
Orange Park			X			X	
Orlando	X			X			
Osceola County			X			X	
Pinecrest			X			X	
Port Richey Inc			X			X	
Sarasota			X			X	
South Miami			X			X	
Sunrise			X			X	
Sweetwater	X			X			
Tampa	X			X	X		
West Miami	X					X	
West Park			X			X	
Winter Park			X		X		

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 25. Has red light camera footage been used to investigate other crimes?	Question 26. If red light camera footage has been used to investigate other crimes within your respective jurisdiction, please select all that apply:					Question 27. Is your respective jurisdiction continuing the red light camera program in Fiscal Year July 1, 2021 - June 30, 2022?	Question 28. Has your respective jurisdiction conducted an independent red light camera analysis?
		Crash Investigation	Criminal Investigation	Missing Person	N/A	Other (please specify)		
Aventura	Yes	X	X				Yes	No
Bal Harbour Village	Yes	X	X				Yes	No
Belle Isle	Yes	X	X				Yes	No
Boynton Beach	Yes	X	X	X			Yes	No
Clearwater	Yes	X	X				Yes	No
Coral Gables	Yes	X	X				Yes	No
Crestview							Yes	No
Davie	Yes	X	X				Yes	No
Doral	Yes	X	X				Yes	No
Edgewood	Yes	X	X	X			No	No
Florida City	Yes	X	X	X			Yes	No
Green Cove Springs	Yes	X	X			Hit and run traffic crash	Yes	No
Gulf Breeze	Yes	X	X				Yes	No
Haines City	Yes	X	X				Yes	No
Hillsborough County	Yes	X					Yes	No
Key Biscayne	Yes	X	X				Yes	No
Kissimmee	Yes	X	X				Yes	Yes
Lakeland	Yes	X	X	X			Yes	No
Maitland	Yes	X	X	X			Yes	Yes
Manatee County	Yes	X	X				Yes	No
Medley	Yes	X					Yes	No
Miami Beach	Yes	X	X				Yes	No
Miami Gardens	Yes	X	X				Yes	Yes
Miami Springs	Yes	X	X				Yes	No
Midway	Yes	X	X				No	No
Milton (Santa Rosa County)	Yes	X	X			Assist other agencies in their investigations also	No	No
New Port Richey	Yes	X	X				Yes	No
North Miami Beach	Yes	X	X				Yes	Yes
Ocoee	Yes	X	X				Yes	No
Opa-locka	Yes	X	X				Yes	Yes
Orange County	Yes	X	X	X			Yes	Yes
Orange Park	Yes	X	X	X			Yes	No
Orlando	Yes	X	X				Yes	No
Osceola County	Yes	X	X				Yes	No
Pinecrest	Yes	X	X				Yes	No
Port Richey Inc	Yes	X	X				Yes	No
Sarasota	Yes	X	X	X			Yes	No
South Miami	Yes	X	X				Yes	No
Sunrise	Yes	X	X				Yes	Yes
Sweetwater	Yes	X	X	X			Yes	No
Tampa							Yes	No
West Miami	Yes	X					Yes	No
West Park	Yes	X	X				Yes	No
Winter Park	Yes	X	X				Yes	No

Appendix F: Jurisdiction Responses to Survey

Name of Jurisdiction (City or County)	Question 29. Please provide any specifications or clarifications for any of your answers. There is no character limit on this answer.
Aventura	none
Bal Harbour Village	
Belle Isle	None
Boynton Beach	
Clearwater	N/A
Coral Gables	N/A
Crestview	
Davie	
Doral	N/A
Edgewood	
Florida City	
Green Cove Springs	
Gulf Breeze	
Haines City	
Hillsborough County	
Key Biscayne	
Kissimmee	none
Lakeland	
Maitland	
Manatee County	N/A
Medley	Due to the pandemic, all of the data collected does not accurately calculate the normal traffic flow that we were used to. It has drastically started to pick up and the numbers next year should increase.
Miami Beach	
Miami Gardens	N/A
Miami Springs	
Midway	
Milton (Santa Rosa County)	City Council canceled program May 3, 2021. We no longer have red-light cameras.
New Port Richey	9999999
North Miami Beach	N/A
Ocoee	
Opa-locka	
Orange County	Re-location of cameras
Orange Park	
Orlando	In regards to Question 13: Repeat Offenders are tracked by DMV Tags; some of these tags are rental vehicles as well as commercial vehicles, i.e., truck, bus, and taxi operators/drivers. These vehicles are continuously being assigned to different drivers. Rental vehicles for example are in constant rental rotation, with various drivers using the same Florida tag. So, it may not be the same driver or operator exhibiting a repeated negative behavior. Question 15, Question 17, Question 24: Crash Data are very useful tools to support the implementation, continuance, and improvements of Red Light Camera devices. The collection and analyzing of traffic crash data aims at gaining a better understanding of traffic operational problems. In order to obtain an accurate and informed verdict on the effectiveness of Red Light Cameras, the City of Orlando considers the following three questions: Question 1, Does the crash have anything to do with the red traffic signal? In order to find the answer to this question, the officer's crash report narrative must be closely scrutinized. Only after the facts are obtained can we make an accurate determination of the crash type, i.e. rear-end collision while vehicle in front was stationary, sideswipe, exit from driveway, etc. Question 2, Is the crash in same directional approach, and in relation with the directional approach of the camera? Example: If there is a northbound camera, and the crash occurred on the westbound approach. Provided there is no camera in the westbound approach, that crash should not reflect on the northbound camera. Question 3, What is the year-to-year traffic volume count of that particular approach, intersection, and road way? Increased road-users equals increase in incidents, including crashes.
Osceola County	
Pinecrest	
Port Richey Inc	
Sarasota	
South Miami	
Sunrise	N/A
Sweetwater	
Tampa	
West Miami	N/A
West Park	n/a
Winter Park	

Appendix G: Right Turn on Red Definitions by Jurisdiction, as taken from responses to Question 23.

Aventura	careful and prudent or over 5 mph
Bal Harbour Village	Did the vehicle slow down before turning and were pedestrians yield to
Belle Isle	Vehicle does not come to a complete stop given time to observe traffic in a careful and prudent manner.
Coral Gables	Speed, Traffic, Pedestrians
Florida City	We use BRQ and our descretion to determine what is a careful and prudent turn.
Green Cove Springs	Safe and prudent manner
Key Biscayne	We use the same definition as Florida State Statute 316.0083(1)(a)
Kissimmee	Only when right turn on red are prohibited.
Lakeland	Florida State Statute # 316.0083
Maitland	This article shall be interpreted and applied so that it is consistent with state law, specifically, the Mark Wandall Traffic Safety Act, Section 316.0083, Florida Statutes.(b)Any amendment to an applicable state law shall automatically apply to the enforcement and application of this article, whether or not this article or any provision hereof has been amended to specifically address such amendment to state law. Without limitation, any future amendment regarding the amount of civil penalty or apportionment of the proceeds thereof shall be deemed applied to the enforcement of this article, even prior to a specific amendment to this article to make the article expressly consistent with such change in state law with respect to the amount of the penalty or the apportionment of the proceeds thereof.
Manatee County	The camera footage is viewed by a sworn law enforcement deputy employed by the Manatee County Sheriffs Office. If the Deputy reviewing the footage feels they would ticket the violation if they were in person at the light, then they would make the determination to ticket the violation.
Medley	If the speed is over 18mph or higher, if it violates right of way, or interferes with a pedestrian.
Miami Beach	Careful and Prudent means the driver is aware of his environment and is driving in a responsible manner, i.e. speed, pedestrians, the right-of-way of approaching vehicles, etc.
Miami Gardens	For the purposes of administering this section, the department, county, or a municipality may authorize a traffic infraction enforcement officer under 316.640 to issue a traffic citation for a violation of s.316.074(1) or s.316.075(1)(c)(1). A notice of violation and a traffic citation may not be issued for failure to stop at a red light if the driver is making a right-hand turn in a careful and prudent manner at an intersection where right hand turns are permissible. A notice of violation and a traffic citation may not be issued under this section if the driver of a vehicle came to a complete stop after crossing the stop line and before turning right if permissible at a red light, but failed to stop before crossing over the stop line or other point at which a stop is required.
Miami Springs	The vehicle should be traveling LESS than 15 mph. Drivers must yield to the right of way to other vehicles and to pedestrians attempting to cross the street in the crosswalk.
Midway	Must come to a complete stop before making turn
New Port Richey	Reviewer considers the totality of the circumstances to include, but not limited to: 1) Speed 2) Traffic Volume 3) Weather Conditions 4) Road Conditions 5) Pedestrian Presence
North Miami Beach	Florida Statute is followed

Appendix G: Right Turn on Red Definitions by Jurisdiction, as taken from responses to Question 23.

Ocoee	any violator traveling over 12 mph when crossing the speed detector who fails to come to a full and complete stop at or before the apex of the curve of an intersection is deemed not careful and prudent. Florida State Statute for stopping at a red light also applies.
Opa-locka	A notice of violation and a traffic citation may not be issued for failure to stop at a red light if the driver is making a right-hand turn in an careless or unsafe manner at an intersection where right-hand turns are permissible
Orange County	Only enforce right on red at locations that have a "no turn on red" sign when lit if vehicle does not stop within their turn. This is only illuminated during school operating hours.
Sunrise	A right turn on red conducted at a speed greater than 15 MPH or a vehicle who fails to yield the right of way to pedestrians or other vehicles in the intersection.
Sweetwater	the rest of statute not listed above.
Tampa	Making a right turn greater than 20MPH
West Miami	UNK
West Park	n/a
Winter Park	You can make a right hand turn in a "careful and prudent manner" after coming to a complete stop pursuant to the directives of Florida Statutes