

Pembroke Pines Police Department

Red Light Camera Report

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May 12, 2020

Key Points

A national study shows that cities that adopt a red light camera program experience 21% less fatal traffic crashes at intersections with red light cameras.

Pembroke Pines traffic crashes have reduced by at least 16% at intersections with red light cameras.

Most citations go to non-residents of Pembroke Pines, 68%.

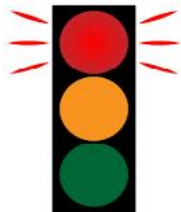
The percentage of Pembroke Pines Residents issued red light camera citations has gone down from 36% in Feb. 2019 to 32% by Feb. 2020.

For the one year period ending on Feb. 2020, only 2.81% of all the notices of violation were sent to vehicles registered to addresses in Century Village.

In 2019, 1 out of 200 vehicles was cited (0.05%). In 2020, approximately 1 out of 250 vehicles was issued a citation (0.04%).

The City of Pembroke Pines Red Light Camera Program currently generates revenue above operational costs.

Red light cameras can assist investigating crashes, solving crimes, and locating missing persons. They also provide live access that can be used to monitor traffic or conduct investigations.



"In 2018, 846 people were killed in crashes that involved red light running" (IIHS).

Introduction

This report is a summary of information related to the City of Pembroke Pines Police Department's Red Light Camera Program. The data contained herein includes information related to traffic crashes, citations issued, revenue obtained, and the financial impact associated with the program. This report has been created with information provided by Susan Shechter, Valerie Spotts, Faizal Mohammed, and Tracey Julien-Lewis.

Notices of Violation

Statistics generated by the Redflex system show an increase in the annual number of Notices of Violation (NOV) issued in the last two years, from 14,146 to 18,052. The time periods measured are 3/1/2018 to 2/28/2019, and 3/1/2019 to 2/29/2020. However, the cameras also show an increase in traffic volume at the intersections selected from 46.48 million vehicles in the beginning of 2019 to 48.98 million vehicles in the beginning of 2020. Thus, even though more citations were issued during the latter time period, a smaller percentage of vehicles were actually cited for running the red light.

Notices of Violation Issued (3/1/2018 - 2/28/19)						
Dir.	Intersection Name	NOV Issued	UTC Issued	% of UTC Issued	Traffic Volume	% of NOV's by Traffic Volume
NB	Pines Blvd. & 136th Ave	5,407	1,238	22.90%	2,542,304	0.21%
EB	Pines Blvd. & 136th Ave	1,783	444	24.90%	8,771,793	0.02%
EB	Pines Blvd. & 129th Ave	1,092	263	24.08%	8,976,542	0.01%
NB	Pines Blvd. & Flamingo Rd.	1,050	183	17.43%	5,688,737	0.02%
EB	Pines Blvd. & Flamingo Rd.	745	208	27.92%	6,176,357	0.01%
WB	Pines Blvd. & 72nd Ave	1,192	443	37.16%	6,871,691	0.02%
EB	Johnson St. & Colony Point Dr.	1,057	283	26.77%	1,779,277	0.06%
WB	Pembroke Rd. & SW 129th Ave.	1,820	670	36.81%	5,673,699	0.03%
Grand Total		14,146	3,732	27.25%	46,480,400	0.05%

Notices of Violation Issued (3/1/2019 - 2/29/20)						
Dir.	Intersection Name	NOV Issued	UTC Issued	% of UTC Issued	Traffic Volume	% of NOV's by Traffic Volume
NB	Pines Blvd. & 136th Ave	2,256	917	40.65%	2,504,371	0.09%
EB	Pines Blvd. & 136th Ave	1,600	548	34.25%	9,384,305	0.02%
EB	Pines Blvd. & 129th Ave	2,044	656	32.09%	9,672,525	0.02%
NB	Pines Blvd. & Flamingo Rd.	3,238	1,057	32.64%	5,656,209	0.06%
EB	Pines Blvd. & Flamingo Rd.	4,037	936	23.19%	7,264,057	0.06%
WB	Pines Blvd. & 72nd Ave	2,766	987	35.68%	6,945,133	0.04%
EB	Johnson St. & Colony Point Dr.	884	254	28.73%	1,825,475	0.05%
WB	Pembroke Rd. & SW 129th Ave.	1,227	522	42.54%	5,726,870	0.02%
Grand Total		18,052	5,877	33.72%	48,978,945	0.04%

New Cameras

Possible locations for new cameras include heavily traveled intersections such as Pines Blvd. and University Dr., and Pines Blvd. and Hiatus Rd. A study conducted by Redflex showed that some of the intersections with the highest number of expected violations are southbound on University Dr. and Pembroke Rd., eastbound on Pines Blvd. and University Dr., northbound on Pines Blvd. and Hiatus Rd., and eastbound on Pines Blvd. and 72 Ave.

Possible Locations for New Cameras

Dir.	Intersection Name	NOVs per Mo.
SB	Univ. Dr. & Pembroke Rd.	223
EB	Pines Blvd. & University Dr.	195
NB	Pines Blvd. & Hiatus Rd.	120
EB	Pines Blvd. & 72nd Ave	102
SB	Pines Blvd. & Hiatus Rd.	65
WB	Pines Blvd. & Dykes Rd.	56
NB	Pines Blvd. & Dykes Rd.	46
WB	Pines Blvd. & University Dr.	37
SB	Pines Blvd. & University Dr.	28
WB	Pines Blvd. & 142 Ave.	19
EB	Pines Blvd. & 145 Ave.	19
NB	Pines Blvd. & University Dr.	19
SB	Pines Blvd. & Dykes Rd.	9
EB	Pines Blvd. & Dykes Rd.	0

Century Village

NOVs Issued to Century Village Residents (3/1/2018 - 2/28/19)

NOV Issued	Century Village	Percent.
14,146	1,467	10.37%

(3/1/2019 - 2/29/20)

NOV Issued	Century Village	Percent.
18,052	508	2.81%

The data shows that 10.37% of the NOVs issued between Mar. 2018 and Feb. 2019 were sent to a Century Village address. That number went down to 2.81% for the time period between Mar. 2019 and Feb. 2020.

Notices of Violation (Cont.)

During the time period ending in February 2019, 0.05% of the vehicles that traveled through the intersections were issued an NOV (14,146 out of 46.48 million). And, during the year ending in February 2020, only 0.04% of the vehicles that traveled through the intersections were issued an NOV (18,052 out of 48.98 million). This percentage indicates that roughly 1 out 250 vehicles that traveled by a red light camera between March 2019 and February 2020 was issued a NOV.

It should be noted that in July, 2019, the Red Light Camera program ceased to issue citations to drivers traveling north bound on SW 136 Ave. and making a right turn onto Pines Blvd., from the outside turning lane.

Impact on Pembroke Pines Residents

Regarding the impact of the red light cameras on Pembroke Pines residents, the data shows that the percentage of citations issued to Pembroke Pines residents has been consistently going down. At the beginning of 2018, the percentage was 36%, but that number then dropped to 32% by the beginning of 2020.

Notices of Violation Issued (3/1/2018 - 2/28/19)

Dir.	Intersection Name	NOV Issued	P. Pines Residents	Non - P. Pines Residents	% of NOV Issued to P. Pines Residents
NB	Pines Blvd. & 136th Ave	5,407	2,432	2,975	45%
EB	Pines Blvd. & 136th Ave	1,783	626	1,157	35%
EB	Pines Blvd. & 129th Ave	1,092	388	704	36%
NB	Pines Blvd. & Flamingo Rd.	1,050	218	832	21%
EB	Pines Blvd. & Flamingo Rd	745	237	508	32%
WB	Pines Blvd. & 72nd Ave	1,192	229	963	19%
EB	Johnson St. & Colony Point Dr.	1,057	491	566	46%
WB	Pembroke Rd. & SW 129th Ave.	1,820	454	1,366	25%
Grand Total		14,146	5,075	9,071	36%

Notices of Violation Issued (3/1/2019 - 2/29/20)

Dir.	Intersection Name	NOV Issued	P. Pines Residents	Non - P. Pines Residents	% of NOV Issued to P. Pines Residents
NB	Pines Blvd. & 136th Ave	2,256	904	1,352	40%
EB	Pines Blvd. & 136th Ave	1,600	581	1,019	36%
EB	Pines Blvd. & 129th Ave	2,044	764	1,280	37%
NB	Pines Blvd. & Flamingo Rd.	3,238	826	2,412	26%
EB	Pines Blvd. & Flamingo Rd.	4,037	1,503	2,534	37%
WB	Pines Blvd. & 72nd Ave	2,766	556	2,210	20%
EB	Johnson St. & Colony Point Dr.	884	410	474	46%
WB	Pembroke Rd. & SW 129th Ave.	1,227	314	913	26%
Grand Total		18,052	5,858	12,194	32%

Repeat Offenders

(3/1/2018 - 2/28/19)		
Repeat Offenders	P. Pines Residents	% of Repeat Offenders that are P. Pines Residents
1,509	814	54%

(3/1/2019 - 2/29/20)		
Repeat Offenders	P. Pines Residents	% of Repeat Offenders that are P. Pines Residents
1,775	7,354	41%

There was a 13% drop on the percentage of Pembroke Pines residents that are repeat offenders. During the time period of Mar. 2018 – Feb. 2019, 54% of the NOV's were issued to Pembroke Pines residents. This percentage dropped to 41% during the Mar. 2019 – Feb. 2020 time period.

RLC Fee Structure

- Department of Revenue
General Revenue Fund.....\$70
- Department of Health
Emergency Medical Services
Trust Fund\$10
- Brain and Spinal Cord Injury
Trust Fund.....\$3
- Retained by the municipality
enforcing the ordinance.\$75
- TOTAL\$158

Pines Blvd. & 72 Ave



Traffic Crashes

A review of traffic accidents, including all intersections that currently have at least one red light camera, indicates that the number of crashes at those intersections has decreased since the cameras were installed. During the year that the cameras were first installed (3/2017 – 2/2018) there were a total of 364 crashes reported at those intersections. However, during the past year (3/2019 – 2/2020), the number of crashes dropped to 306. This indicates a 16% reduction in crashes. It should be noted that traffic volume has increased during the past two years. Therefore, this reduction is likely higher.

Crashes by Intersection				
Intersection Name	03/01/2016 02/28/2017	03/01/2017 02/28/2018	03/01/2018 02/28/2019	03/01/2019 02/28/2020
Pines Blvd. & 136th Ave	60	61	67	55
Pines Blvd. & 129th Ave	47	50	47	44
Pines Blvd. & Flamingo Rd.	181	167	135	117
Pines Blvd. & 72nd Ave	55	66	59	63
Johnson St. & Colony Point Dr.	1	0	2	6
Pembroke Rd. & SW 129th Ave.	18	20	15	21
Grand Total	362	364	325	306

Serious/Deadly Crashes by Intersection				
Intersection Name	03/01/2016 02/28/2017	03/01/2017 02/28/2018	03/01/2018 02/28/2019	03/01/2019 02/28/2020
Pines Blvd. & 136th Ave	0	0	0	0
Pines Blvd. & 129th Ave	0	0	0	0
Pines Blvd. & Flamingo Rd.	1	0	0	0
Pines Blvd. & 72nd Ave	0	0	0	1
Johnson St. & Colony Point Dr.	0	0	0	0
Pembroke Rd. & SW 129th Ave.	0	1	0	0
Grand Total	1	1	0	1

Financial Information

Our current contract with Redflex Traffic Systems, Inc. is due to expire on July 24, 2020. The program is currently operating on a net surplus.

Fiscal Year	Revenues	Expenditures	Net Gain / (Loss)
FY2016-17 (Aug 25, 2017- Sep. 2017) (2)	\$375	\$126,485	(\$126,110)
FY2017-18 (Oct. 2017 - Sep 2018) (3)	\$558,411	\$687,432	(\$129,021)
FY2018-19 (Oct. 2018 - Sep. 2019)	\$928,764	\$784,041	\$144,723
FY2019-20 (YTD Oct 2019- March 31, 2020]	\$553,788	\$387,945	\$165,843

Financial Information (Cont.)

Fund: 1 General Fund Division: 3001 Police Project: 3001 Red Light Camera Program					
Description	2019 Actual	2020 Adopted Budget	2020 Actual as of 3/31/2020	2020 Working Budget	2021 Proposed Budget
Revenue					
354100 Red Zone Infraction	\$924,214.00	\$907,000.00	\$550,313.00	\$907,000.00	\$889,000.00
354200 Hearing Fees	\$4,550.00	\$9,000.00	\$3,475.00	\$9,000.00	\$9,000.00
Total Revenue	\$928,764.00	\$916,000.00	\$553,788.00	\$916,000.00	\$898,000.00
Personnel Costs					
12425 Police Officer	\$80,026.00	\$79,644.00	\$38,290.00	\$38,290.00	\$0.00
12479 RLC Program Coordinator	\$45,992.00	\$46,941.00	\$22,680.00	\$46,941.00	\$48,779.00
12985 Police Service Aide I	\$39,524.00	\$39,437.00	\$19,521.00	\$59,682.00	\$80,397.00
12997 Sick leave - annual	\$3,676.00	\$3,676.00	\$0.00	\$0.00	\$0.00
15000 Incentive pay	\$1,560.00	\$1,560.00	\$780.00	\$780.00	\$0.00
15100 Holiday pay	\$3,829.00	\$6,500.00	\$4,212.00	\$6,500.00	\$2,500.00
15101 Uniform cleaning allowance	\$1,920.00	\$1,920.00	\$960.00	\$1,200.00	\$480.00
15104 Assignment pay	\$2,629.00	\$2,390.00	\$1,277.00	\$1,277.00	\$0.00
21000 Social Security- matching	\$13,088.00	\$13,932.00	\$6,399.00	\$11,836.00	\$10,110.00
22010 Defined contribution - General	\$7,696.00	\$7,775.00	\$3,798.00	\$9,597.00	\$11,628.00
22100 Retirement contributions P & F	\$75,772.00	\$74,233.00	\$37,116.00	\$37,116.00	\$0.00
23000 Health Insurance	\$34,279.00	\$54,360.00	\$27,180.00	\$54,360.00	\$54,360.00
23100 Life Insurance	\$498.00	\$739.00	\$370.00	\$642.00	\$598.00
24000 Workers compensation	\$1,880.00	\$6,634.00	\$3,318.00	\$5,407.00	\$4,830.00
26300 General retiree health contrib	\$33,816.00	\$29,292.00	\$14,646.00	\$36,615.00	\$43,938.00
26305 Police retiree health contrib	\$19,866.00	\$14,877.00	\$7,440.00	\$7,440.00	\$0.00
Total Personnel Costs	\$366,051.00	\$383,910.00	\$187,987.00	\$317,683.00	\$257,620.00
Operating Costs					
31305 Prof services-Outside Legal-Red Light	\$55,889.00	\$127,700.00	\$18,908.00	\$127,700.00	\$129,700.00
34980 Contractual services - Redflex	\$362,100.00	\$362,100.00	\$181,050.00	\$362,100.00	\$362,100.00
Total Operating Costs	\$417,989.00	\$489,800.00	\$199,958.00	\$489,800.00	\$491,800.00
Total Costs	\$784,040.00	\$873,710.00	\$387,945.00	\$807,483.00	\$749,420.00
Net Surplus/(Deficit)	\$144,724.00	\$42,290.00	\$165,843.00	\$108,517.00	\$148,580.00

In 2019, the cost of personnel associated with the Red Light Program was \$366,051.00, this included a Police Service Aide, a Coordinator, and a Police Officer. The Traffic Sergeant currently assigned to the west side of the City oversees the RLC Unit at no additional cost to the program. This year, the Police Officer position has been replaced with a Police Service Aide, which will drive the cost of personnel down for 2020.

Operating costs for 2019 were \$417,989.00. This means that during 2019, the total cost to the City to operate the program was \$784,040.00. However, the revenue generated was \$928,764.00, which produced a Net Surplus of \$144,724.00.

Hu, W., & Cicchino, J. B. (2017, June). Effects of Turning On and Off Red Light Cameras on Fatal Crashes in Large U.S. Cities. Retrieved April 21, 2020, from <https://www.iihs.org/topics/bibliography/ref/2121>