



# RED LIGHT CAMERA ENFORCEMENT PROGRAM



# RUNNING RED LIGHT PROBLEMS

- Throughout Florida Per Year
  - 100 Fatalities
  - 6300 Injuries
- In Gainesville - 2008
  - 672 Crashes at Signalized Intersections
  - 1 Fatality
  - 25 Transported
  - 165 Possible Injuries
- 150 -170 Signalized Intersections

# RED LIGHT ENFORCEMENT

TRADITIONAL →

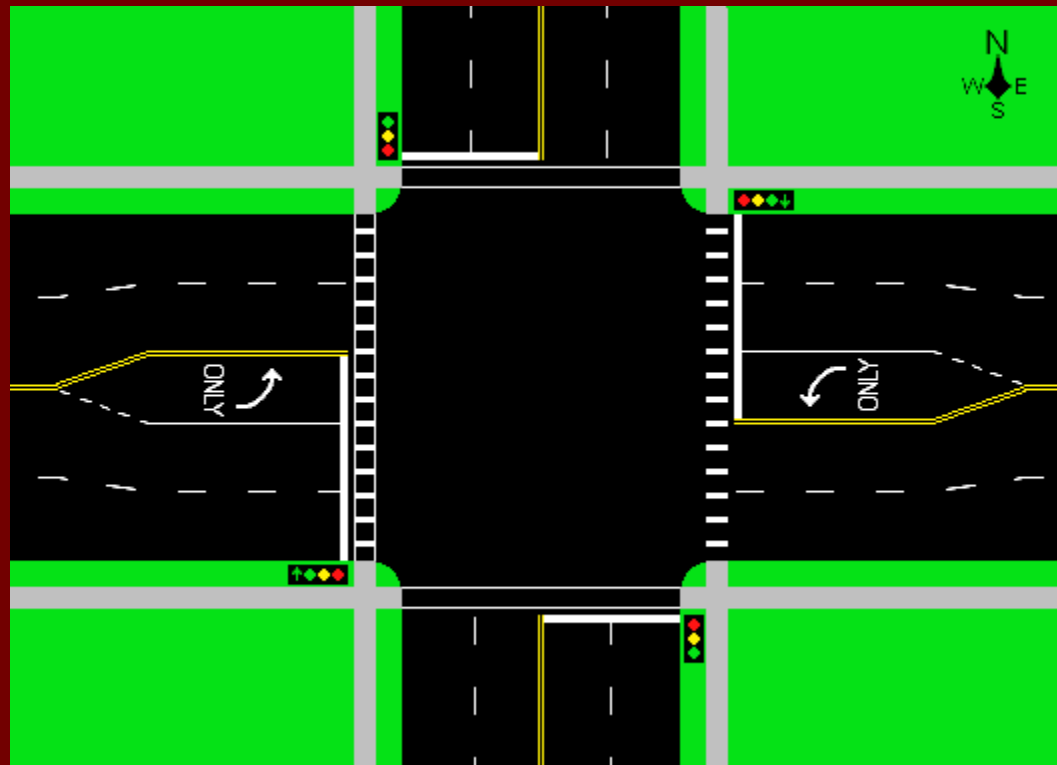


← WHITE LIGHTS



← PHOTO  
ENFORCEMENT  
SYSTEMS

# Intersection Terminology



# 2004 Southeast Transportation Center Report

- Archer and 34<sup>th</sup> St. (0.692 - 2.156 violations per cycle/13.5 - 47 violations per hour)
- University and 34<sup>th</sup> St. (0.400-0.718 violations per cycle/9.5 - 14.9 violations per hour)

Violations across the three peak periods.

UF Dept. of Civil and Coastal Engineering  
Final report 2004

# Hazardous Intersection Ranking

- NW 13<sup>th</sup> ST (US 441) & 53<sup>rd</sup> Ave (CR 232)
- Waldo Rd (SR 24) & NE 39<sup>th</sup> Ave (Sr 222)
- Waldo Rd (SR 24) & NE 8<sup>th</sup> Ave
- Main St (SR 329) & University Ave (SR 26)
- Waldo Rd (SR 24) & E University Ave (SR 26)
- NW 34<sup>th</sup> ST (SR 121) & NW 39<sup>th</sup> Ave (SR 222)
- NW 13<sup>th</sup> ST (US 441) & NW 39<sup>th</sup> Ave (SR 222)
- NW 13<sup>th</sup> St (US 441) & W. University Ave (SR 26)
- Newberry Rd (SR 26) & I-75 Southbound On-Ramp
- SW 34<sup>th</sup> St (SR 121) & Archer Rd (SR 24)

# What a Red Light Camera Looks Like



## Red Light Camera Components

- Camera/Video
- Strobe/LED Unit
- Red Light Detection System
- Computerized Control Unit



# Red Light Camera Basics

- No points and No insurance reporting
- Civil infraction (like toll or parking)
- No pictures of driver, only rear of vehicle
- Police verify and authorize violations
- Violator has access to court (can still “face accuser”)
- Self funding system (no new taxation required)
- Allows more effective use of existing police resources
- Deployed in 26 states in over 275 cities



# "A" Shot Data Elements

A-Shot

Date of Violation (M/D/Y)

Time just prior to the Violation

Length of previous yellow

Approx Speed

Signal Phase (R=Red)

Length of Red for A

Traffic Lane of Violator

DATE	TIME	AMBER	SPEED	PHASE	RTIME	LANE	FRAME
12/1/2006	3:33:06 PM	3.6	23	R	0.25	3	A
HO13-E/B WESTHEIMER @ W LOOP S SERVICE RD							

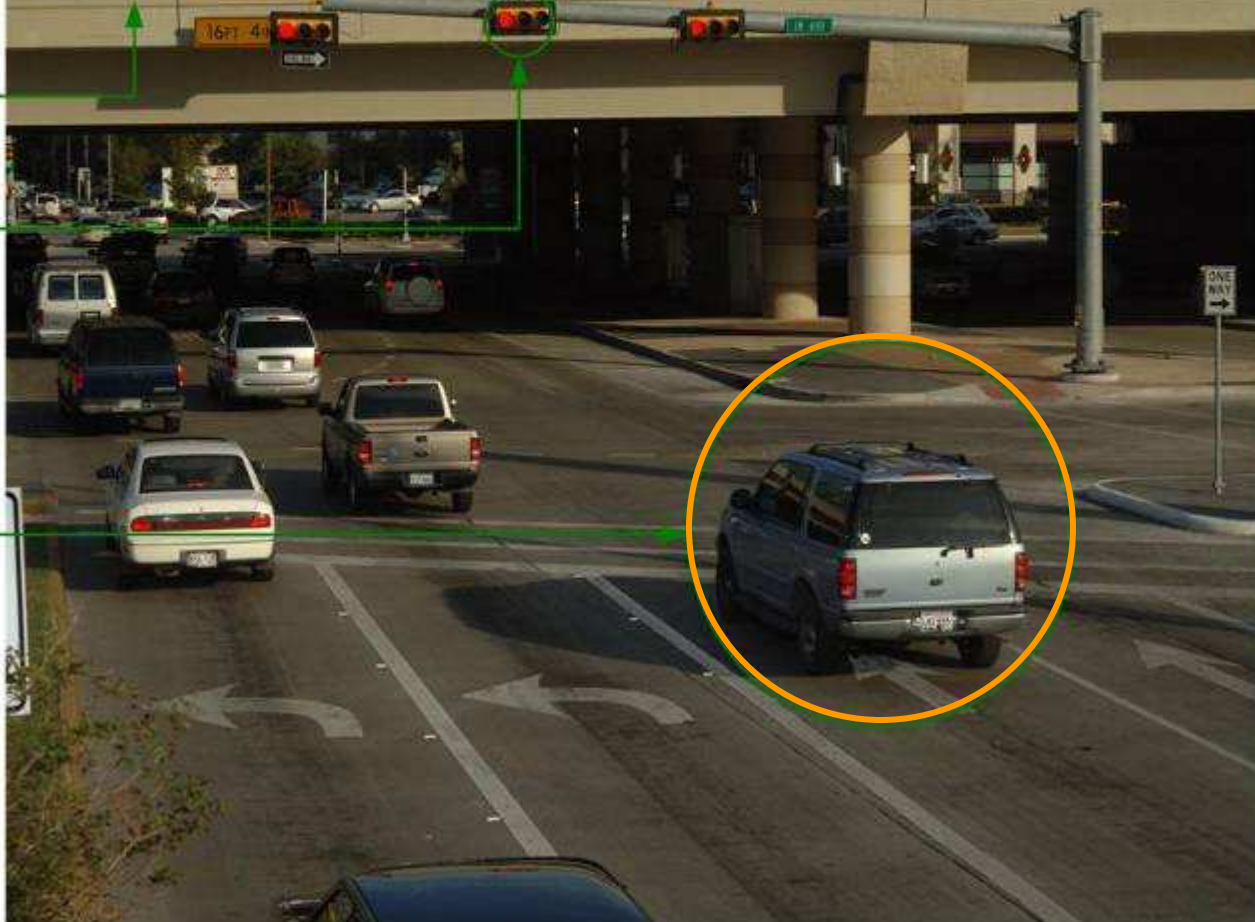
Frame A (prior to violation)

Location Code

Direction of Vehicle

Color of Traffic Signal

Motor Vehicle Committing Violation



# "B" Shot

**B-Shot**

Date of Violation (M/D/Y)	Time of the Violation	Length of previous yellow	Approx Speed	Signal Phase (R=Red)	Length of Red for B	Traffic Lane of Violator
12/1/2006	3:33:07 PM	3.6	23	R	1.35	3

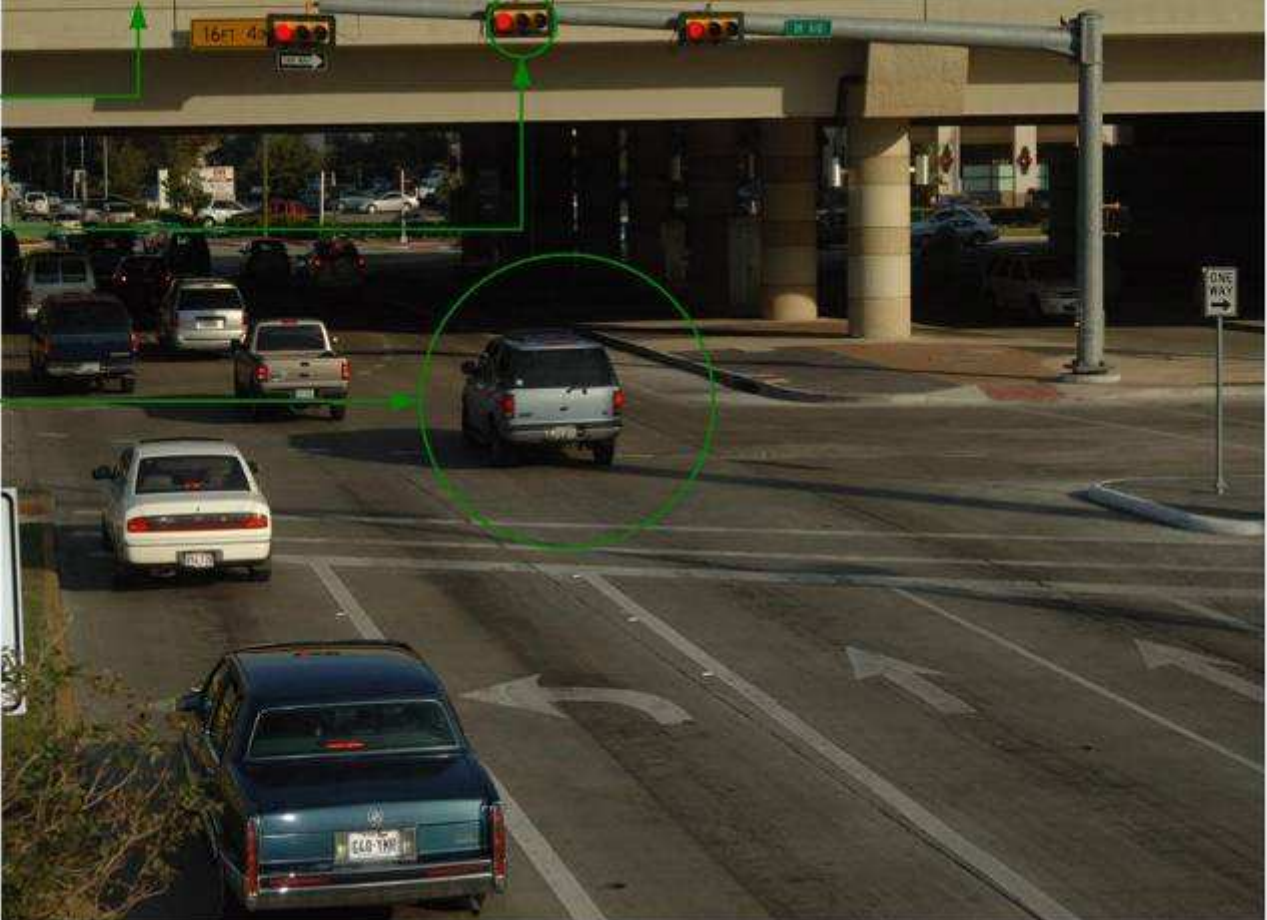
**Location Code** → HO13-E/B WESTHEIMER @ W LOOP S SERVICE RD

**Direction of Vehicle** →

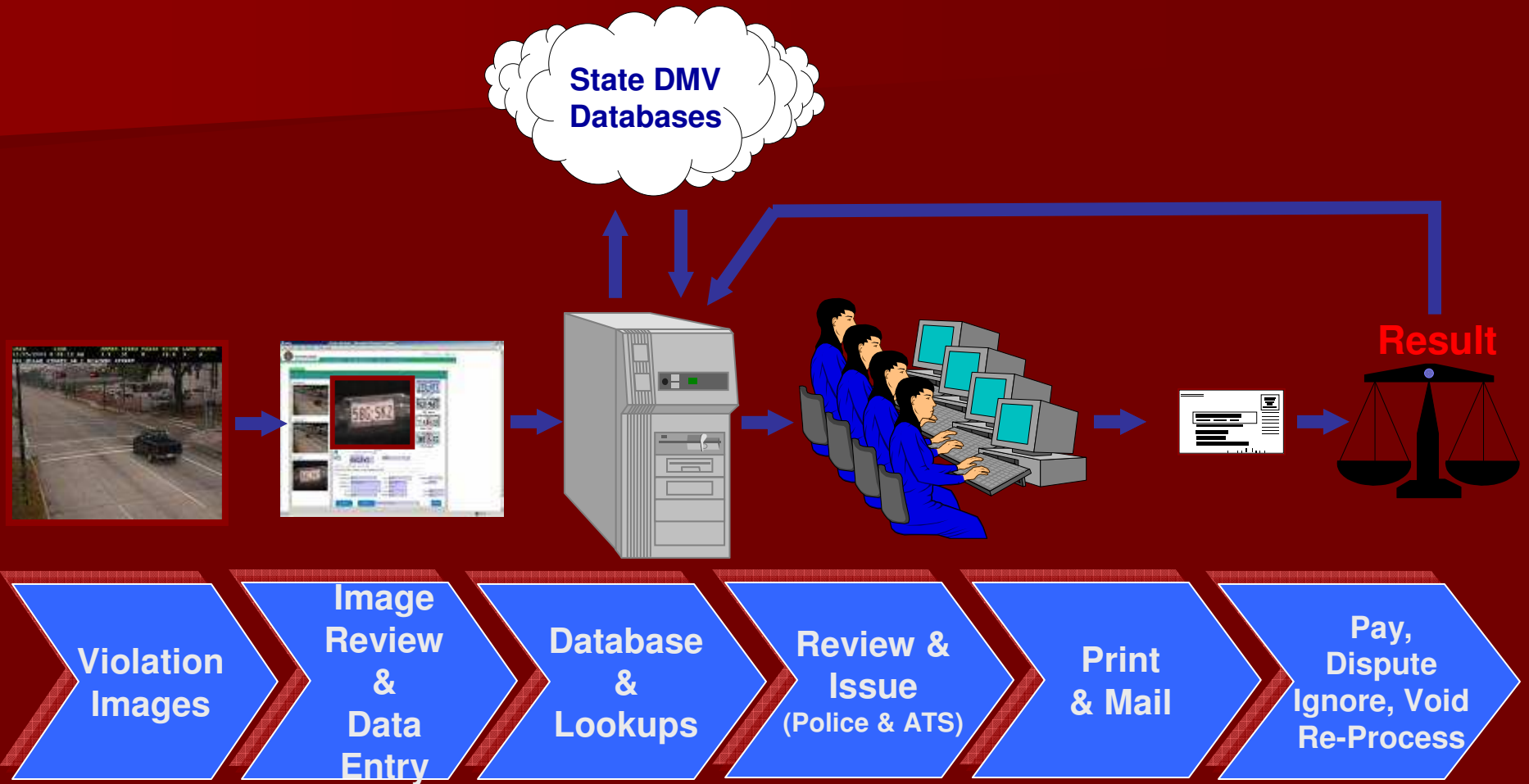
**Color of Traffic Signal** →

**Motor Vehicle Committing Violation** →

**Frame B (shows vehicle violating)** →



# Violation Process Flow



# Vendor Support

- Site Analysis and Design
- Installation and Maintenance of Camera and Detection Systems
- Violation Processing
- Payment Processing and Collections
- Customer Service via phone or website
- Training for law Enforcement and Court Personnel
- Public Relations Campaigns for Citizens





Police Review

Overview 1:



Overview 2:



License Plate:



1998 series



1994 series



1987 series



Handicapped



Violation Count: 331



Notes

State: WA

Plate Number: 229 TU

Plate Type: -- select plate type --

Vehicle Type: CIVILIAN

QUEUE HISTORY

Date/Time: 9/29/2006 8:08:31 PM

Intersection: 45TH ST E/B @ ROOSEVELT WAY

Commercial

Last Name: SMITH First: JOHN Middle:

Address 1: 123 ANY STREET City: SEATTLE State: WA

Address 2:  Zip: 98199

Vin #: 4T1B028K5 Year: 1998 Style: 2D

Make: TOYO Model: BAY Color: GREEN

ACCEPT

REJECT


-- select reject reason --

VIDEO

# "A" Shot Review

# On-Line Violation Review Images & Video





**City of Seattle  
Photo Enforcement Program**  
P.O. Box 34987  
Seattle, WA 98124-4987

**NOTICE OF INFRACTION**

**NOTICE #** 0210600012345  
**PIN #** 1234

**Amount Due:** \$101.00  
**Due Date:** 09/28/2008

**JOHN SMITH**  
123 ANY STREET  
SEATTLE, WA 98199

<b>VIOLATION DATE</b> 09/01/2008	<b>VIOLATION TIME</b> 02:41 PM	<b>FINE AMOUNT</b> \$5.00
<b>VEHICLE PLATE #</b> 229TU	<b>STATE</b> WA	
<b>YEAR</b> 1997	<b>MAKE</b> TOYOTA	<b>MODEL</b> RAY
<b>STYLE</b> 4D	<b>COLOR</b> GREEN	

**LOCATION**  
DENNY WAY EB @ FAIRVIEW AVE

**REGISTERED OWNER**  
GRACIELA DE FRAGA FRANGIPANE

**DEFENDANT**  
JOHN SMITH


**STREET ADDRESS**  
123 ANY STREET

**CITY**  
SEATTLE

**STATE**  
WA

**ZIP**  
98199

I certify under penalty of perjury under the laws of the State of Washington that, based upon my review of a video recording by an automated traffic camera, I have probable cause to believe, and do believe, that on date and time and at the location listed above, the above-described vehicle was in violation of Seattle Municipal Code 11.89.140 (Red Light Violation). The video recording portrays a fair and accurate representation of the location listed above and indicates the vehicle was facing a steady circular red signal when it failed to stop at clearly marked stop line or other stopping point described in the ordinance. The registered owner of the vehicle is named above.


<b>OFFICER</b>  JAMES MORGAN	<b>SERIAL #</b> 4100	<b>ISSUE DATE</b> 09/01/2008
---	-------------------------	---------------------------------

Detach here and return bottom portion with your payment or hearing request.

**You must respond by the DUE DATE by one of the following methods:**


1. PAY THE \$50 PENALTY (see back for payment options). OR
2. REQUEST A MITIGATION HEARING TO EXPLAIN THE CIRCUMSTANCES (see back for explanation of hearing). OR
3. REQUEST A HEARING TO CONTEST THE INFRACTION (see back for explanation of hearing). OR
4. SUBMIT A DECLARATION OF NON-RESPONSIBILITY (see back).

This notice represents a determination that a red light infraction has been committed. This determination will be final unless you respond by method 2, 3 or 4, listed above.

<b>NAME:</b> JOHN SMITH	<b>DUE DATE:</b> 09/28/2008
<b>NOTICE #:</b> 0210600012345	<b>VERSION:</b> 1
<b>ISSUED:</b> 09/07/2008	
<b>PLATE:</b> 229TU	<b>STATE:</b> WA
<b>TYPE:</b>	

This response must be mailed no later than midnight of the Due Date.

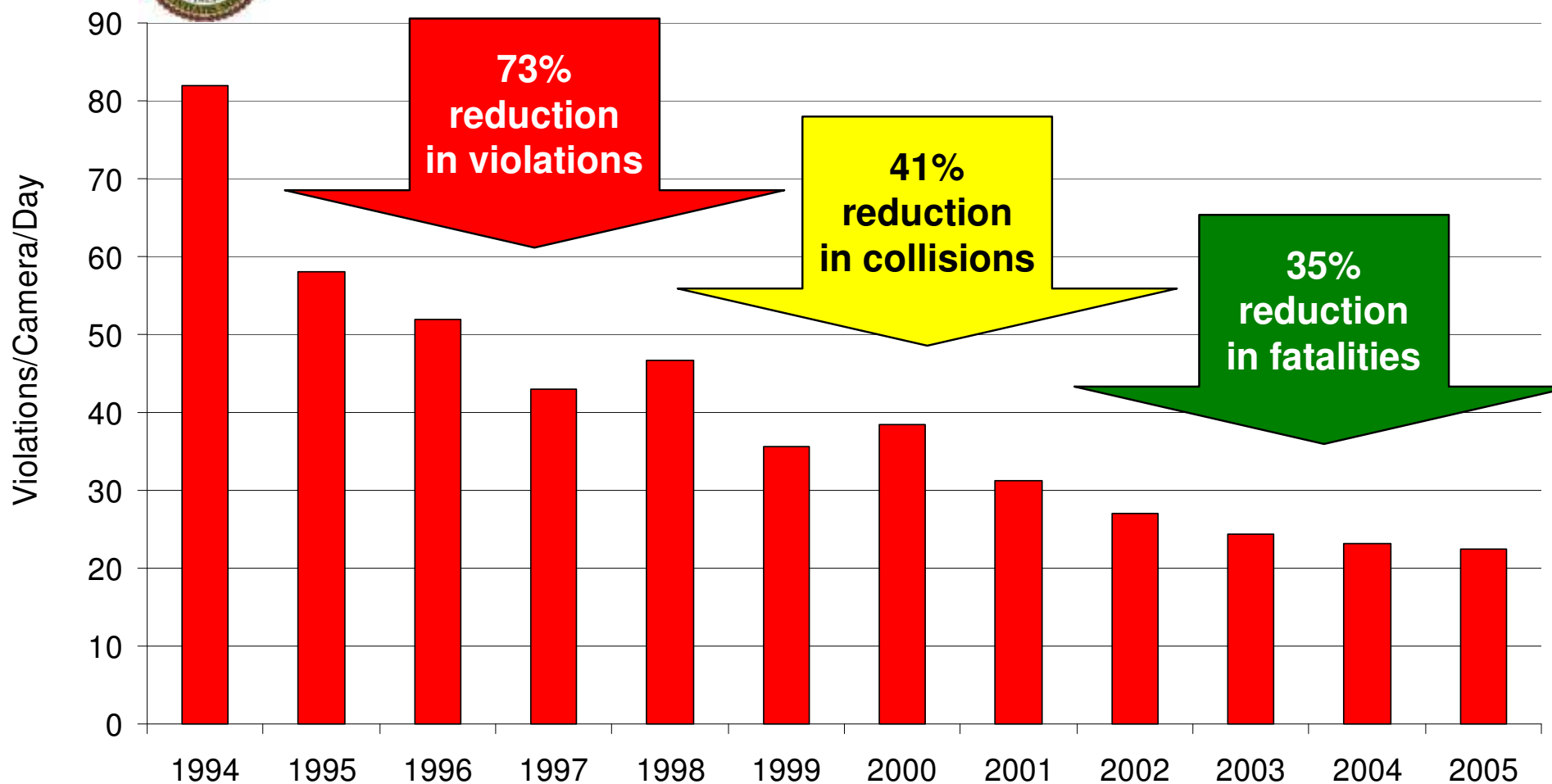
**Seattle Municipal Court  
Court Payments  
P.O. Box 34109  
Seattle, WA 98124-1109**  


# Orlando Test Program

- December 2005-August 2006
- One intersection/ one direction
- Public Support
- Violations (potential crashes) reduced by 43%
- All crashes decreased by 50%
- "Halo effect" with reductions of crashes at other signals in the immediate area



## New York City Red Light Camera Program Historical Violations Per Camera Per Day 1994 to 2005



# Florida Cities

**Apopka:** One camera since June. \$125.00 fine is issued to violators. 548 violators billed.

**Gulf Breeze:** One intersection with two cameras. \$100.00 fine. From May 357 violators. 2006 had 300 violators.

**Satellite Beach:** Ordinance is in first reading stage. No cameras in place. \$100.00 fine for a violation.

**Aventura, Collier County, Jacksonville, Homestead, Hillsborough County, Orlando, Lakeland, Miami Gardens :**  
Drafted city ordinance.

# Questions



# City Ordinance 0-08-71

## “The Gainesville Traffic Safety Enhancement Act”

- No points and cannot be used for insurance rates
- Civil infraction (like parking)
- Police verify and authorize violations
- Violator has access to court (can still “face accuser”)
- \$125 Fine for first and second violation
- \$175 Third and subsequent violations in a three year period

# HB 439

## “Mark Wandall Traffic Safety Act”

- No points and cannot be used for insurance rates
- Civil infraction (like toll or parking)
- Police verify and authorize violations
- Violator has access to court (can still “face accuser”)
- Municipality must adopt an ordinance
- \$150 Fine (1/5 various entities listed in FSS 318.21, 1/5 Department of Health, 3/5 municipality)