



Stanford University



The Rialto Police Department's Body-Worn Video Camera Experiment

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University of Cambridge

April 29, 2014

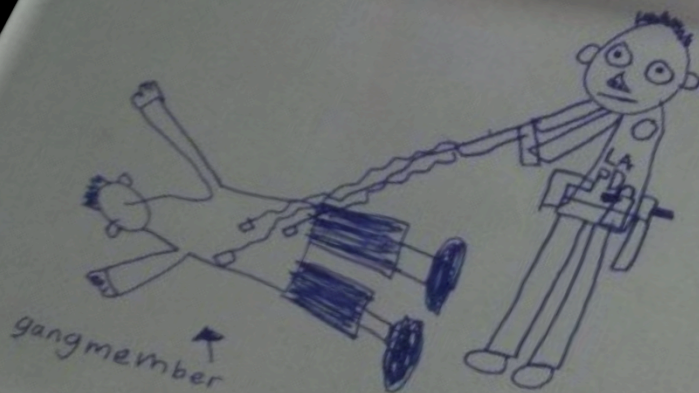


TASER
PROTECT LIFE

Why?

Thank you Police Department for
protecting our city and cleaning our
streets. When I get old enough I will
enroll in the explorer program and become
a police officer.

thanks,
Josh



(6th grade)

AlterNet by John Knefel

Bad Cop: 7 Cities Where Shocking Police Abuses Cost Taxpayers Millions

Bad police behavior runs roughshod over civil liberties, and costs cities millions of dollars in payouts to those who successfully sue.

March 4, 2013



Oakland 13.5
Million - 2010

Los Angeles 125
Million Past 10
Years

Denver 10
Million Past 8
Years

Milwaukee 14
Million Past 10
Years

Chicago 82.5
Million Past 10
Years

New York 185.6
Million - 2011

Cleveland 8
Million Past 10
Years



A photograph of a courtroom interior. The room features extensive wood paneling on the walls and a large wooden bench in the foreground. A black leather chair with gold-colored stitching is positioned to the left. An American flag stands in the center background. A black text box with white text is overlaid in the top right corner.

Civil Liability Trends and Issues

**1 out of 30 Officers in U.S. are being sued annually -
40-45% Include allegations of excessive force**

The Problem

The Problem:

- The public's **perception** of police use of force continues to be a concern.
 - Sometimes the media does not help us.
- “Too many” incidents in which officers resort to use of force.
 - Officers misinterpreting the contact or aggressive suspects?
- “High number” of citizens’ complaints against police officers.
 - Officers misbehaving or bogus complaints?

The Challenges

The Challenges

1. Reducing use of force and complaints without changing the frequency and nature of contact with the public.
2. Requires third-party systematic observation that would scientifically measure both the implementation and the outcome of the practice.
3. Cost Effectiveness?
4. Leadership – can we implement this type of research?

One Possible Solution: Cameras

Research Questions

- Will wearing body-worn video cameras reduce the **number of complaints** against officers compared to the control group?
- Will wearing body-worn video cameras reduce the **number (instances) of use-of-force** compared to the control group?

The Rialto Police Department RCT

Rialto (California)

- Rialto Police Department
- 28.5 square miles
- population of 100,000 residents
- Mid-sized police department in California
- 54 front-line, uniformed officers
- Total of 115 sworn police officers and 42 non-sworn personnel



The Research Design

- Random assignment of all front-line officer to shifts with or without cameras.
- Taser International “FLEX” cameras recording all police-public interactions, for 12 months.
- Went live 13 February 2012, after two weeks of Phase I.

Assignment of 988 Shifts in 12 months into 'Experiment Shifts' and 'Control Shifts'

	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>	<u>Sunday</u>
<u>DAY SHIFT</u>	<u>TEAM 2</u>	<u>TEAM 1</u>	<u>TEAM 1</u>	<u>TEAM 1</u>	<u>TEAM 3</u>	<u>TEAM 2</u>	<u>TEAM 2</u>
<u>NIGHT SHIFT</u>	<u>TEAM 5</u>	<u>TEAM 5</u>	<u>TEAM 5</u>	<u>TEAM 4</u>	<u>TEAM 4</u>	<u>TEAM 4</u>	<u>TEAM 3</u>
<u>COVER</u>		<u>TEAM 6</u>	<u>TEAM 6</u>	<u>TEAM 6</u>	<u>TEAM 6</u>	<u>TEAM 3</u>	

Example of RIALTO POLICE DEPARTMENT PATROL PATTERNS random assignment

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
DAY SHIFT	Exp't	Exp't	Control	Exp't	Exp't	Control	Exp't
NIGHT SHIFT	Exp't	Control	Control	Exp't	Control	Exp't	Exp't
COVER SHIFT		Exp't	Control	Control	Control	Control	

162 OFFICER SHIFTS PER WEEK RANDOMLY ASSIGNED TO TREATMENT AND CONTROL CONDITIONS, EVERY SUNDAY FOR THE FOLLOWING 7 DAYS, FOR 52 WEEKS (N=8424)

TEAMS	N OFFICER S PER TEAM	DAYS	TIME	OFFICER SHIFTS PER WEEK	OFFICERS SHIFTS IN 12 MONTHS (~52 weeks)
Team 1 (days)	10	Tues/Wed/Thurs	0600-1 830	3 days x 10 officers = 30	1,560
Team 2 (days)	9	Sat/Sun/Mon	0600-1 830	3 days x 9 officers = 27	1,404
Team 4 (nights)	10	Thurs/Fri/Sat	1800-0 630	3 days x 10 officers = 30	1,560
Team 5 (nights)	9	Mon/Tues/Wed	1800-0 630	3 days x 9 officers = 27	1,404
Team 6 (night cover)*	7	Tues/Wed/Thurs/Fri	1400-0 000	4 days x 7 officers = 21	1,092
Team 3 (day cover)	9	Fri Sat Sunday	0600-1 800 1400-0 230 1800-0 630	1 day x 9 officers = 9 1 day x 9 officers = 9 1 day x 9 officers = 9	468 468 468
TOTAL	54			162	8,424

2,038 OFFICER SHIFT HOURS PER WEEK RANDOMLY ASSIGNED TO TREATMENT AND CONTROL CONDITIONS, EVERY SUNDAY FOR THE FOLLOWING 7 DAYS, FOR 52 WEEKS

(N=105,976)

TEAMS	N OFFICERS PER TEAM	DAYS	TIME	OFFICER SHIFT HOURS PER WEEK	OFFICERS SHIFT HOURS IN 12 MONTHS (~52 weeks)
Team 1 (days)	10	Tues/Wed/ Thurs	0600-18 30	12.5 hours x 3 days x 10 officers = 375.0	19,500
Team 2 (days)	9	Sat/Sun/Mon	0600-18 30	12.5 hours x 3 days x 9 officers = 337.5	17,550
Team 4 (nights)	10	Thurs/Fri/Sat	1800-06 30	12.5 hours x 3 days x 10 officers = 375.0	19,500
Team 5 (nights)	9	Mon/Tues/ Wed	1800-06 30	12.5 hours x 3 days x 9 officers = 337.5	17,550
Team 6 (night cover)*	7	Tues/Wed/ Thurs/Fri	1400-00 00	10.0 hours x 4 days x 7 officers = 280.0	14,540
Team 3 (day cover)	9	Fri Sat Sunday	0600-18 00 1400-02 30 1800-06 30	12.0 hours x 1 day x 9 officers = 108.0 12.5 hours x 1 day x 9 officers = 112.5 12.5 hours x 1 day x 9 officers = 112.5	5616 5850 5850
TOTAL	54			2,038	105,976

Apparatus



The Cameras



Measurements

- Complaints against officers:

IA Pro = software used by 340 internal affairs and professional standards units around the world

- Use of Force Incidents:

Blue Team = web-enabled software which tracks and records all incidents, use-of-force, vehicle accidents and pursuits

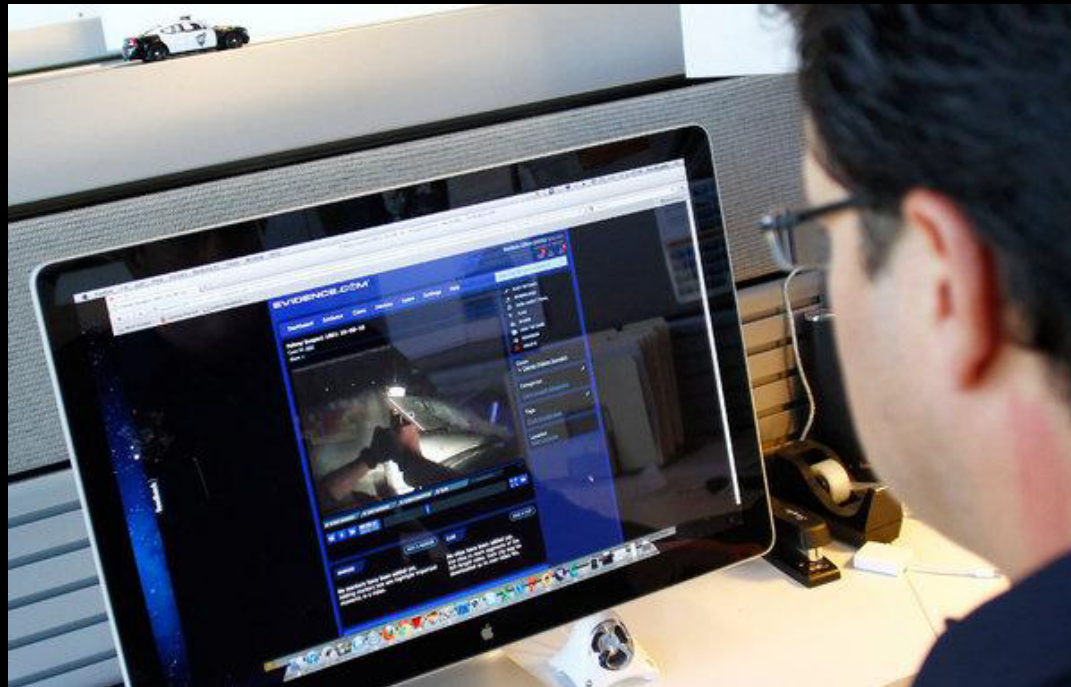
- Scheduling:

Tele-Staff = automated scheduling system for public safety includes a comprehensive workforce management platform that optimizes the scheduling, communications, and deployment of personnel.

Measurements

- Camera Data:

Evidence.com (TASER®) = web-based video management system that tracks all video cameras evidence. We had over 50,000 hours of data.



Findings

Officer Complaints

February 13, 2011 to February 12, 2012 = 24

February 13, 2012 to February 12, 2013 = 3 **(-87.5%)**

2009 = 36 **(91.66%)**

2010 = 51 **(94.11%)**

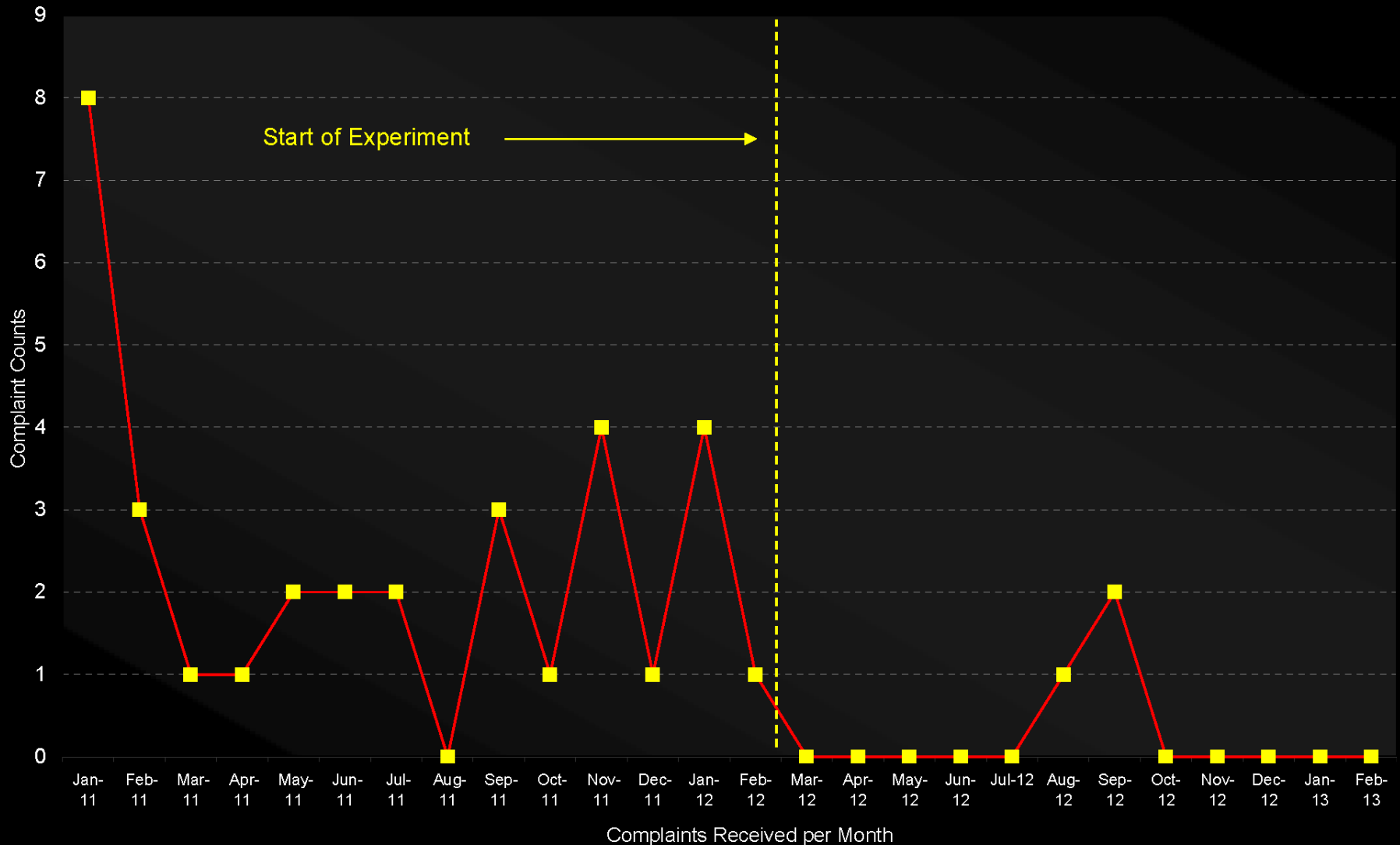
2011 = 28 **(89.28%)**

Control = 1

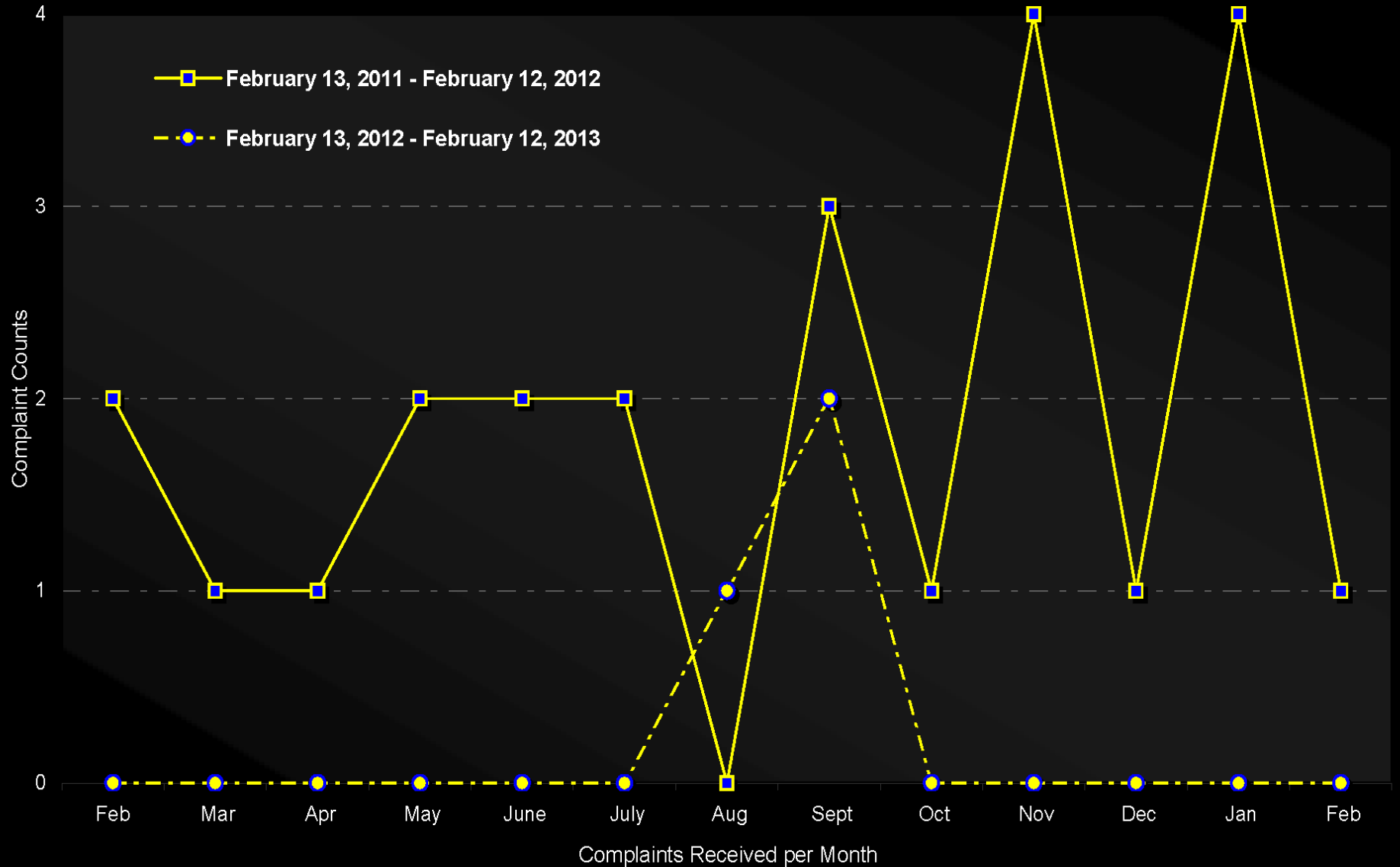
Experiment = 2

** Reduction was so large – not enough complaints for meaningful analysis*

Complaints Received Against Patrol Officers at the Rialto Police Department (January 1, 2011 - February 12, 2013)



Complaints Received Against Patrol Officers at the Rialto Police Department



Officer Use-of-Force

February 13, 2011 to February 12, 2012 = 61

February 13, 2012 to February 12, 2013 = 25 **(-59.01%)**

2009 = 70 **(64.28%)**

2010 = 65 **(61.53%)**

2011 = 60 **(58.33%)**

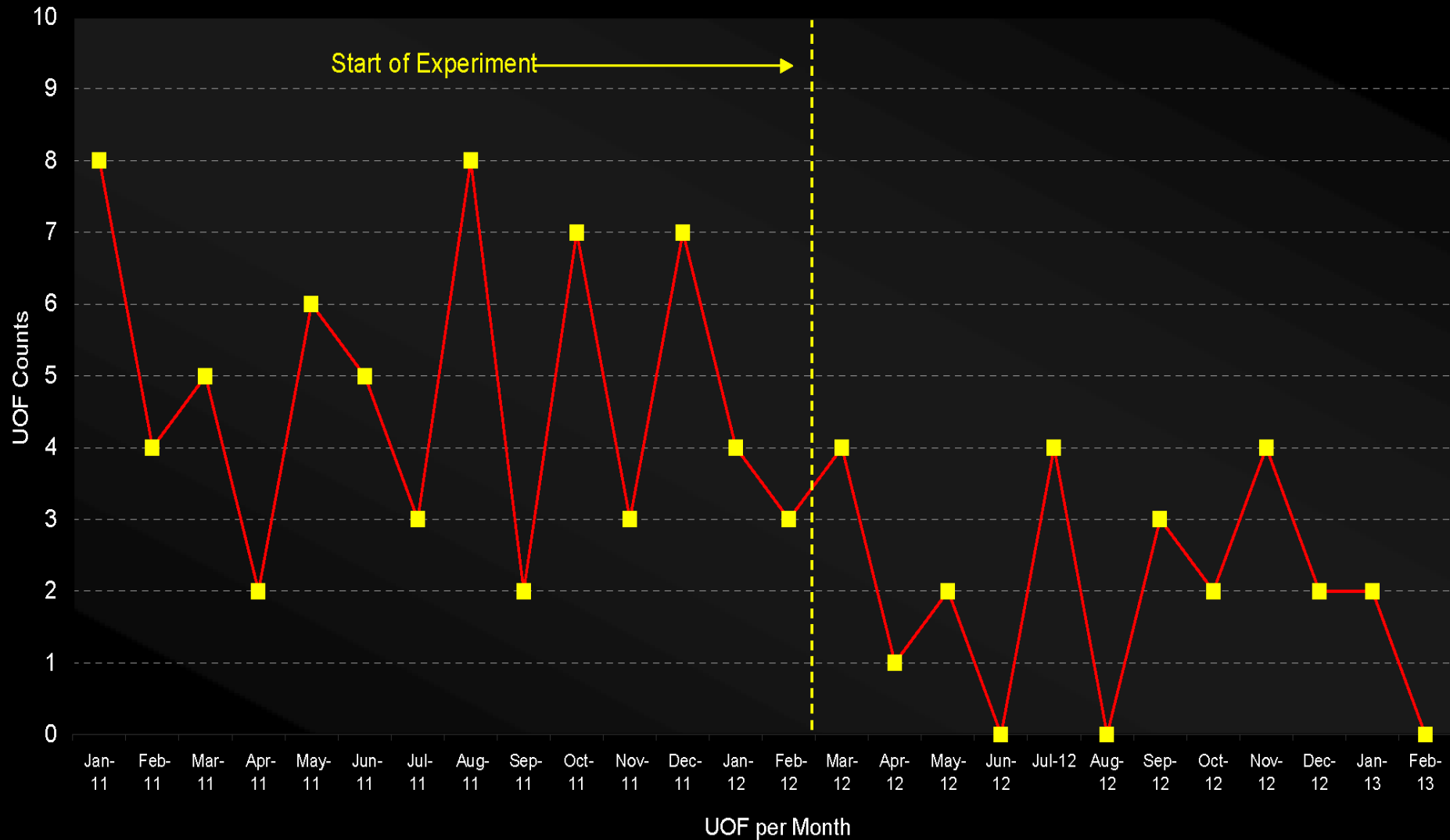
Control = 17

Experiment = 8

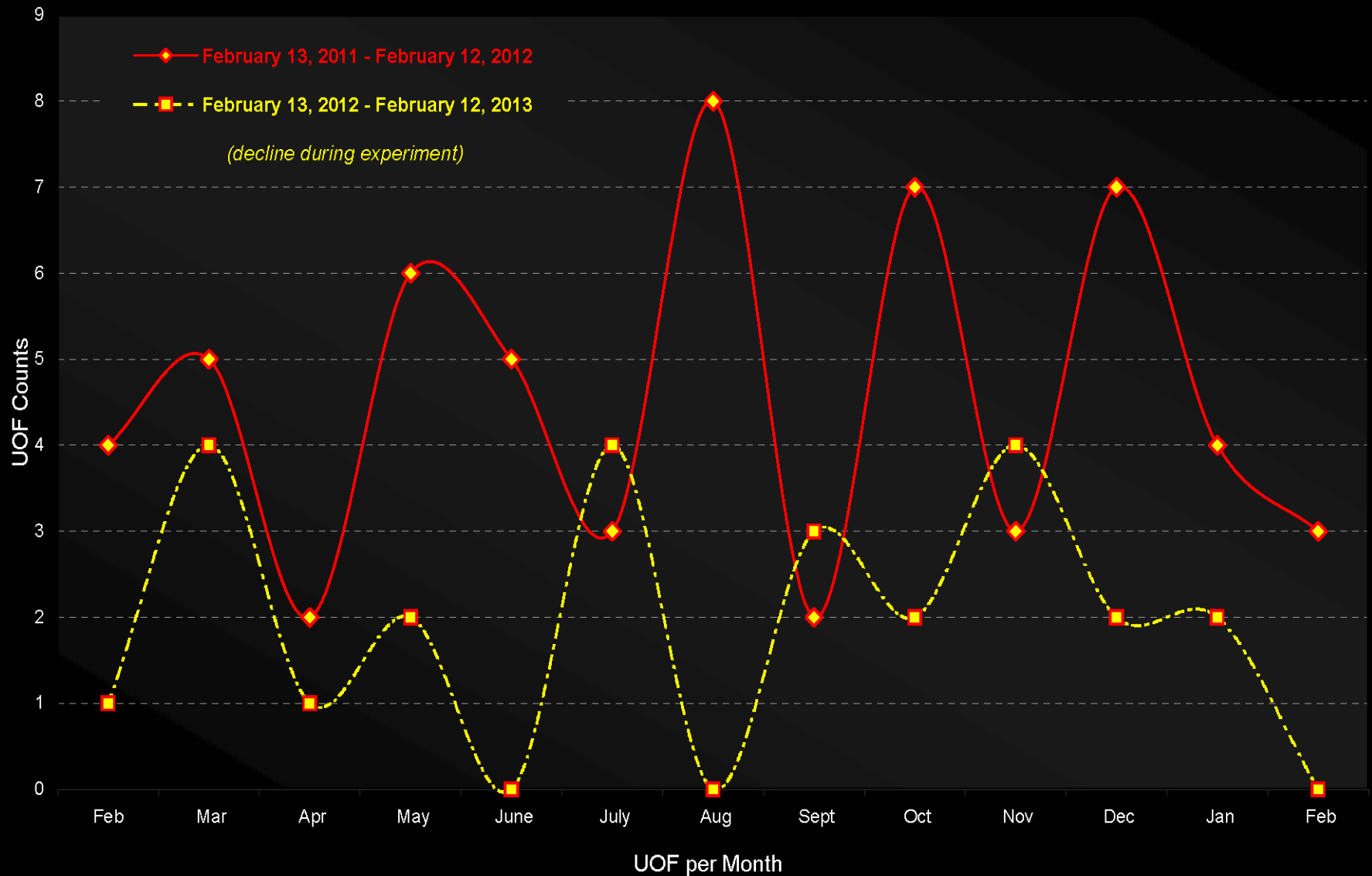
**This is important as it shows the reduction is the result of the cameras.*

**All 8 experiment use of force incidents were captured on video.*

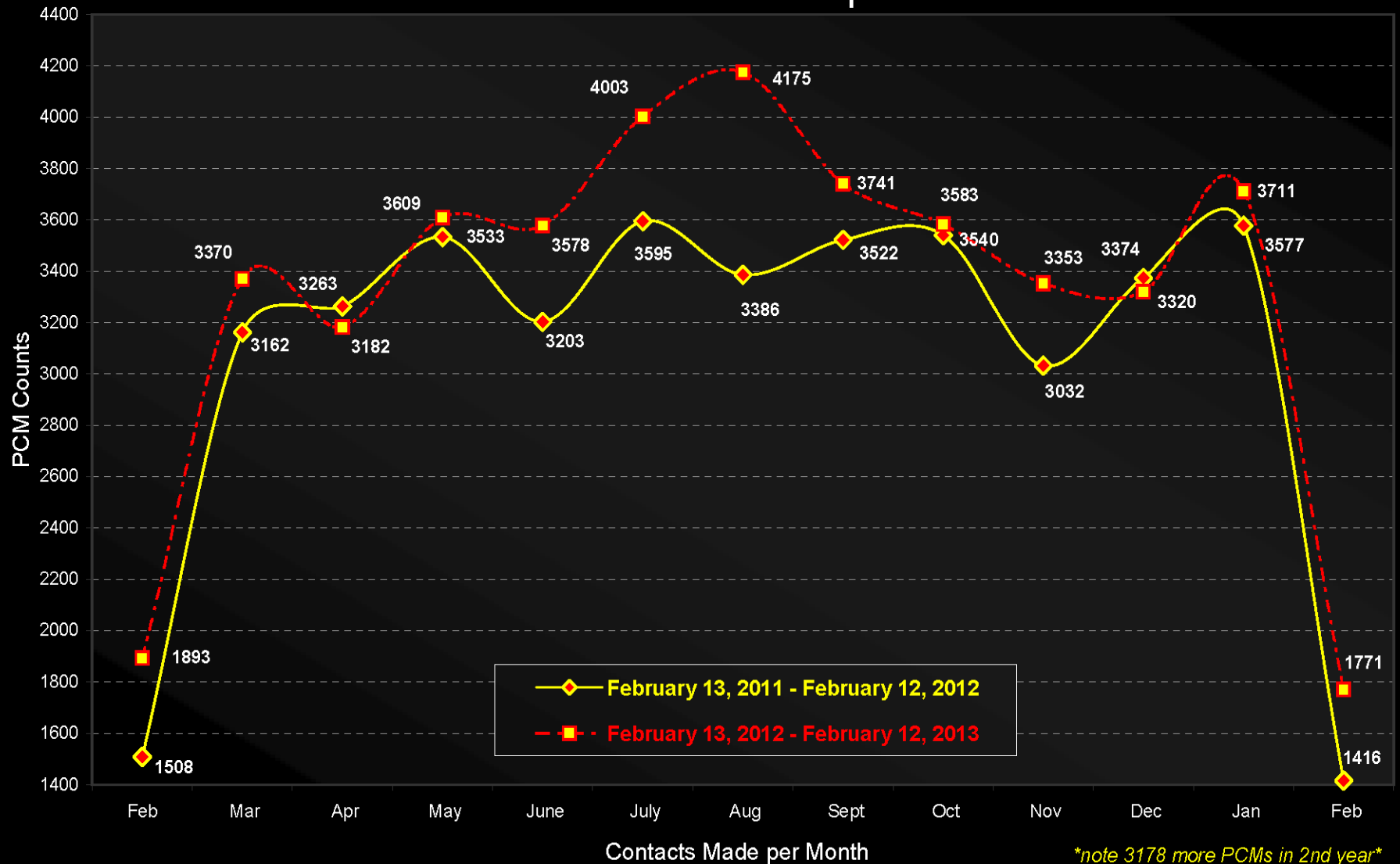
Use of Force (UOF) by Patrol Officers at the Rialto Police Department (January 1, 2011 - February 12, 2013)



Use of Force (UOF) by Patrol Officers at the Rialto Police Department



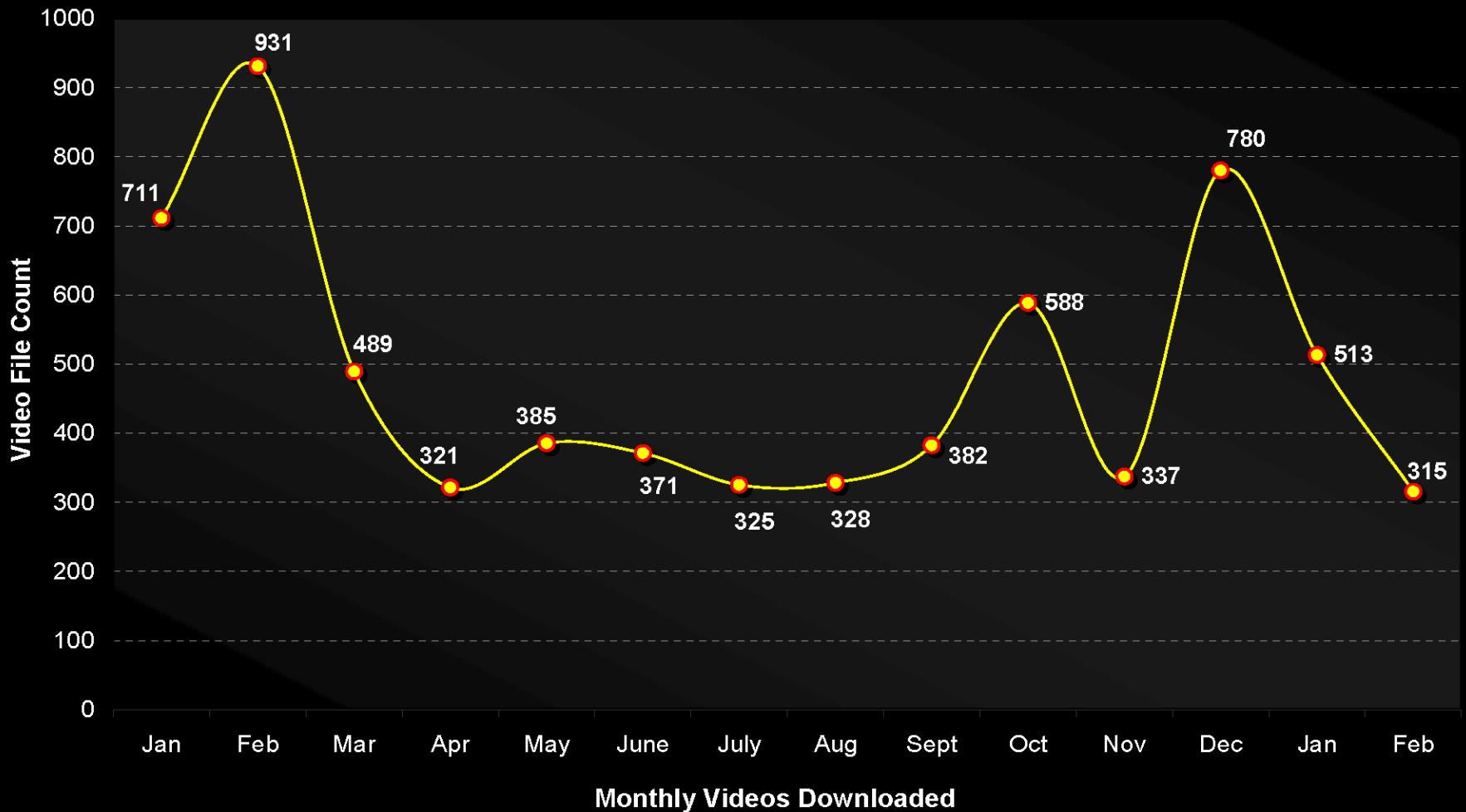
Public Contacts Made (PCM) by Patrol Officers at the Rialto Police Department



note 3178 more PCMs in 2nd year

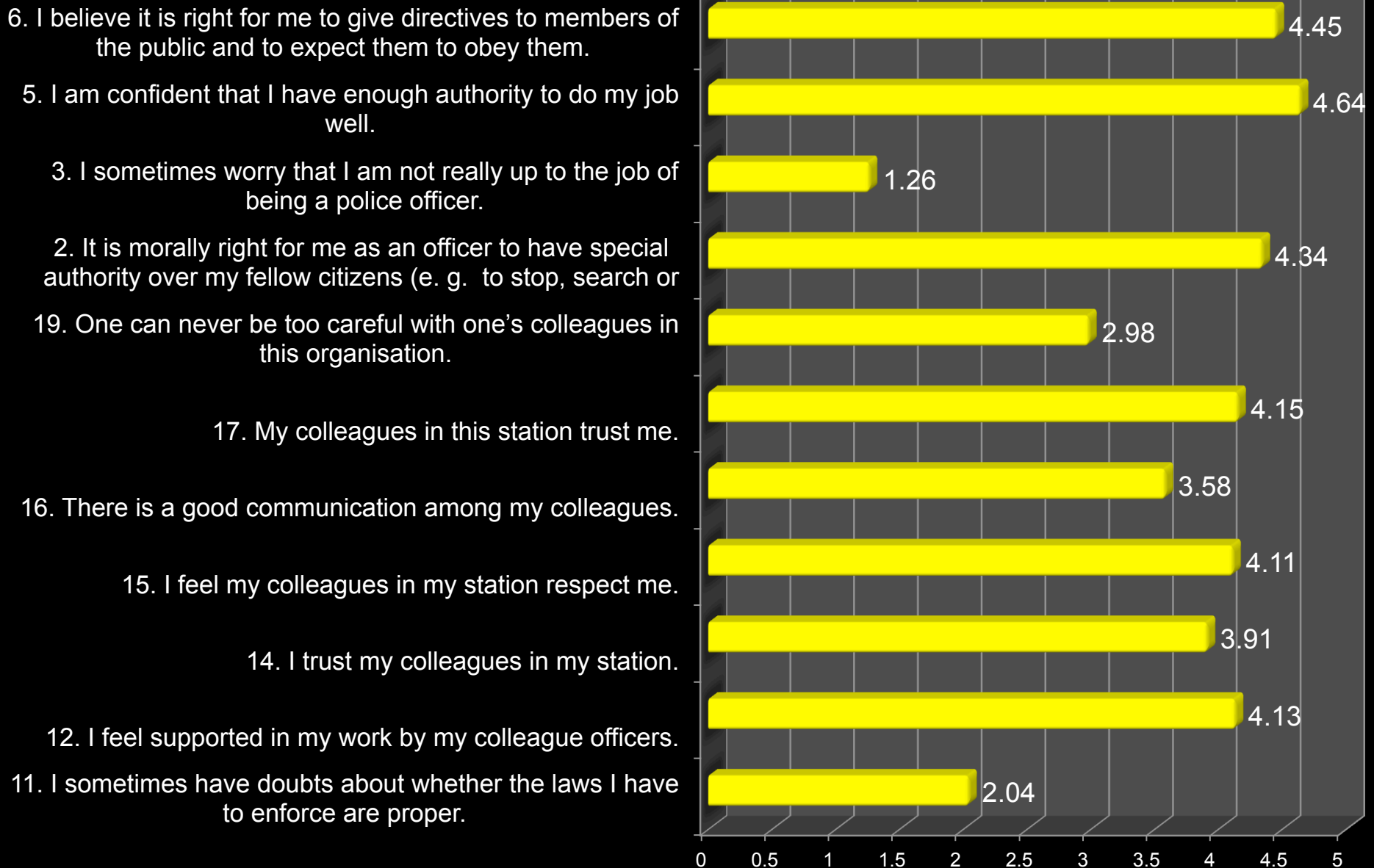
A Self-Learning Tool?

**Video File Downloads for the
Rialto Police Department
(Jan 1, 2012 - Feb 12, 2013)**



Effect of Cameras on Officers' Self Legitimacy

Officers' Self-Legitimacy Survey (1-5)



Summary of Findings

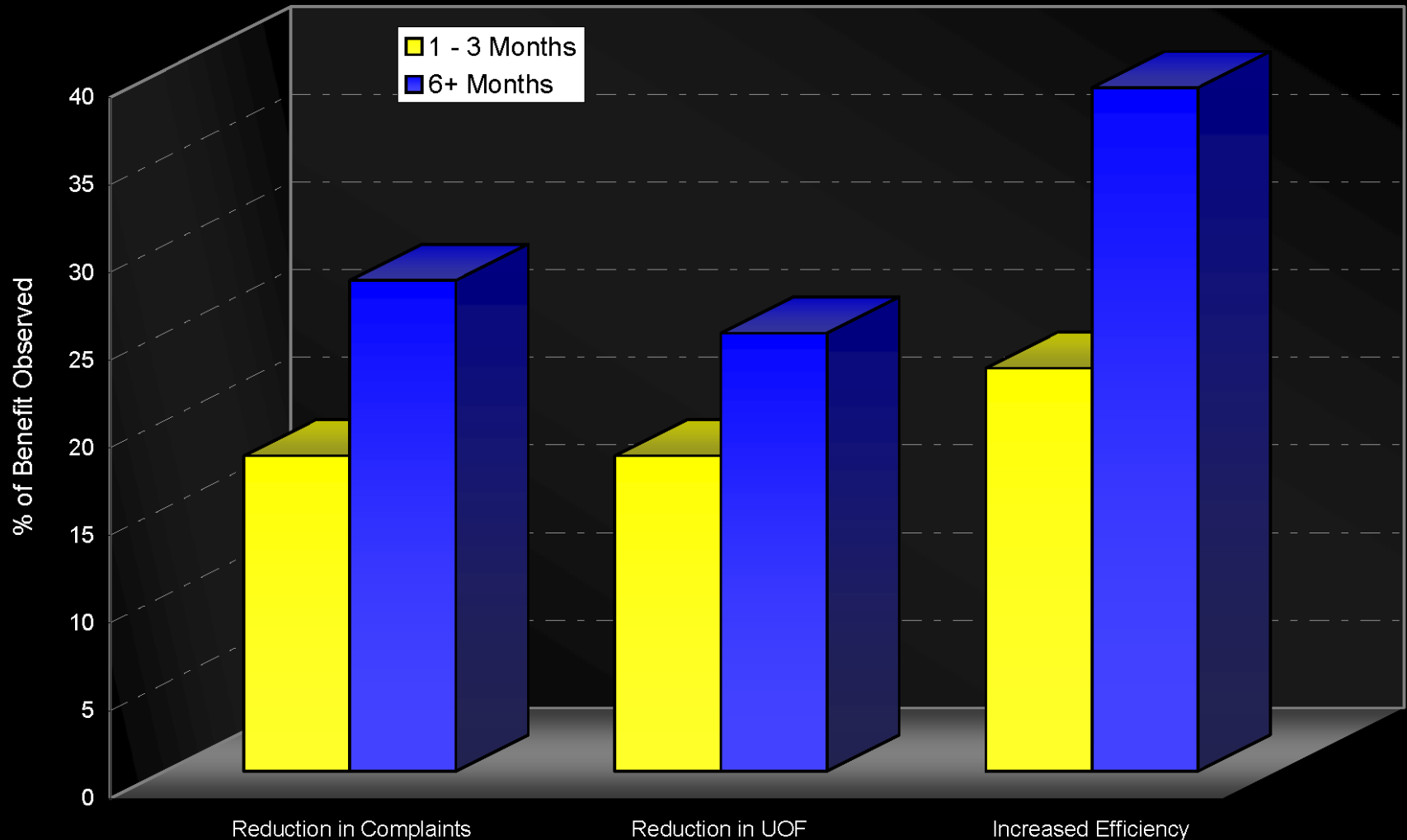
- 1. Reduction in use-of-force incidents from 61 to 25.**
- 2. Of the 25 use-of-force incidents , 17 were control and 8 Experiment.**
- 3. Of the 8 use-of-force incidents on the Experiment days, all 8 were recorded on video.**
- 4. Reduction in complaints from 24 to 3 or from 0.7 complaints per 1,000 contacts to 0.07 per 1,000 contacts .**
- 5. Contacts increased from the previous years - no backfiring effect .**
- 6. Survey of all officers before and during RCT shows no changes in officers' self-legitimacy**

Further Considerations

- Increase in case filings due to video evidence
- Increase in convictions due to video evidence
- Impact on domestic violence cases
- Cost savings on complaint investigations
- Cost savings on use-of-force investigations
- Cost savings on use-of-force lawsuits
- Reductions in frivolous complaints
- Putting COPS back on the street

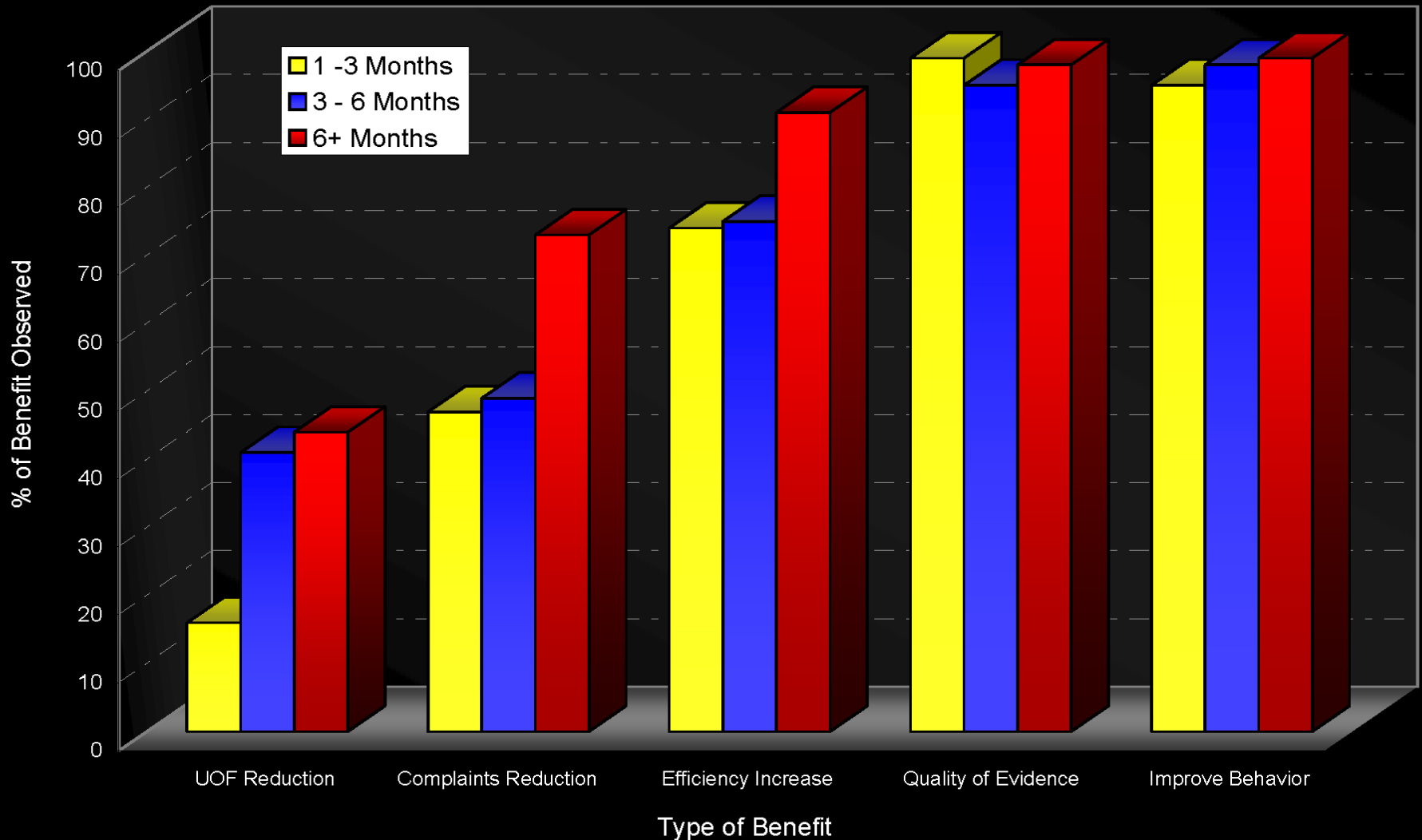
Taser AXON Survey 2013

Average Benefits of On-Officer Video



Taser AXON Survey 2013

% of Agencies Confirming Benefits of On-Officer Video



Issues that Most Often Result in Justice Department Investigations

Critical Issues in Policing Series: PERF July 2013

Civil Rights Investigations of Local Police: Lessons Learned

Key Issues:

Police use-of-force

Early Intervention Systems

Management and Supervision of Officers

Bias in Policing – Stops, Search, Seizure

All of these have a direct nexus to each other

SHIRA A. SCHEINDLIN, U.S.D.J.

“When a small police department in Rialto, California introduced body-worn cameras, “[t]he results from the first 12 months [were] striking. Even with only half of the 54 uniformed patrol officers wearing cameras at any given time, the department over all had an 88 percent decline in the number of complaints filed against officers, compared with the 12 months before the study.” While the logistical difficulties of using body-worn cameras will be greater in a larger police force, the potential for avoiding constitutional violations will be greater as well.”

Post Experiment Data

Officer Complaints

Baseline Year -

February 13, 2011 to February 12, 2012 = 24

Experiment Year -

February 13, 2012 to February 12, 2013 = 3

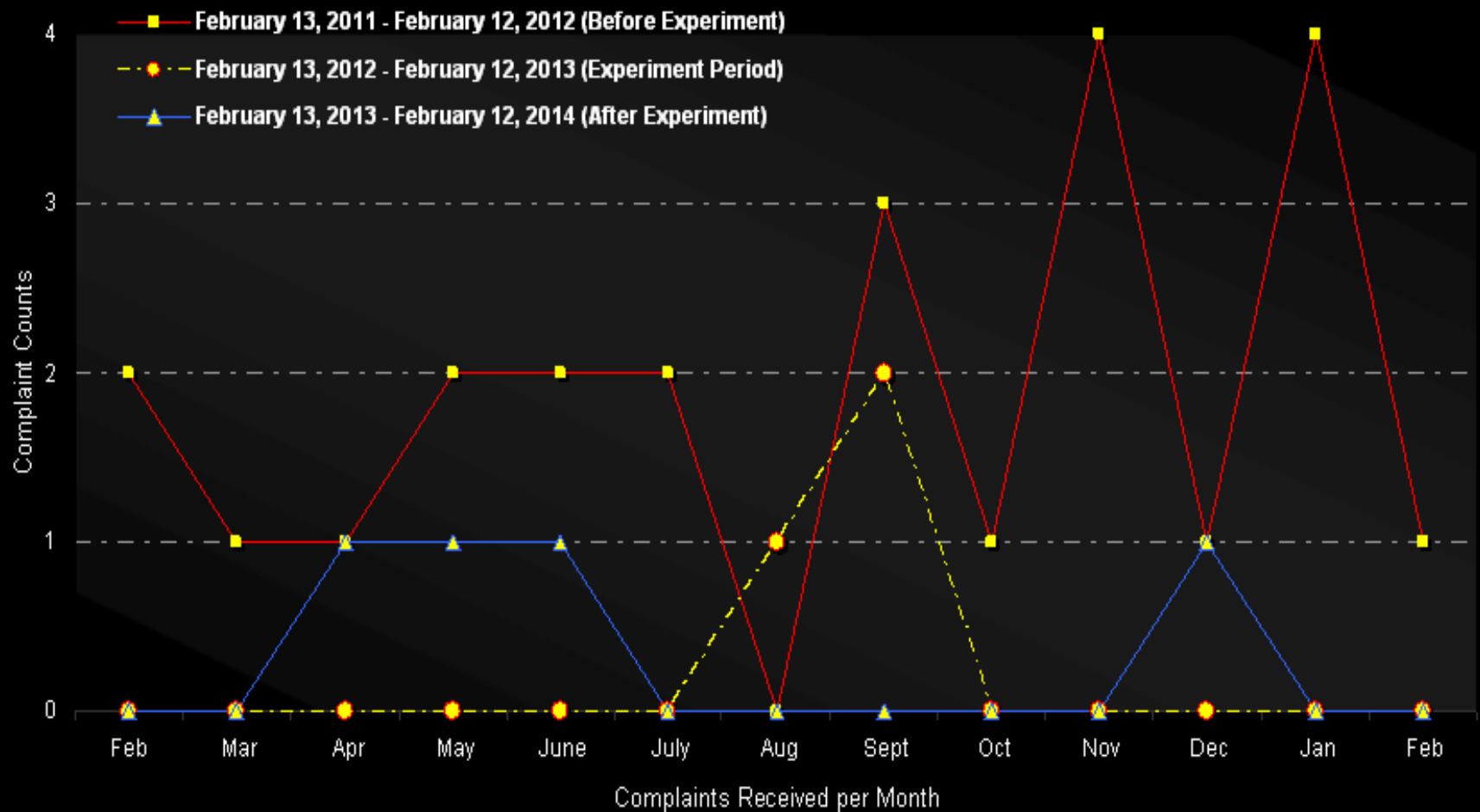
Post Experiment Year -

February 13, 2013 to February 12, 2014 = 4

+46.296% increase in personnel wearing the cameras

-83.3 % decrease compared to the baseline year

Complaints Received Against Patrol Officers at the Rialto Police Department



Officer Use-of-Force

Baseline Year -

February 13, 2011 to February 12, 2012 = 61

Experiment Year -

February 13, 2012 to February 12, 2013 = 25

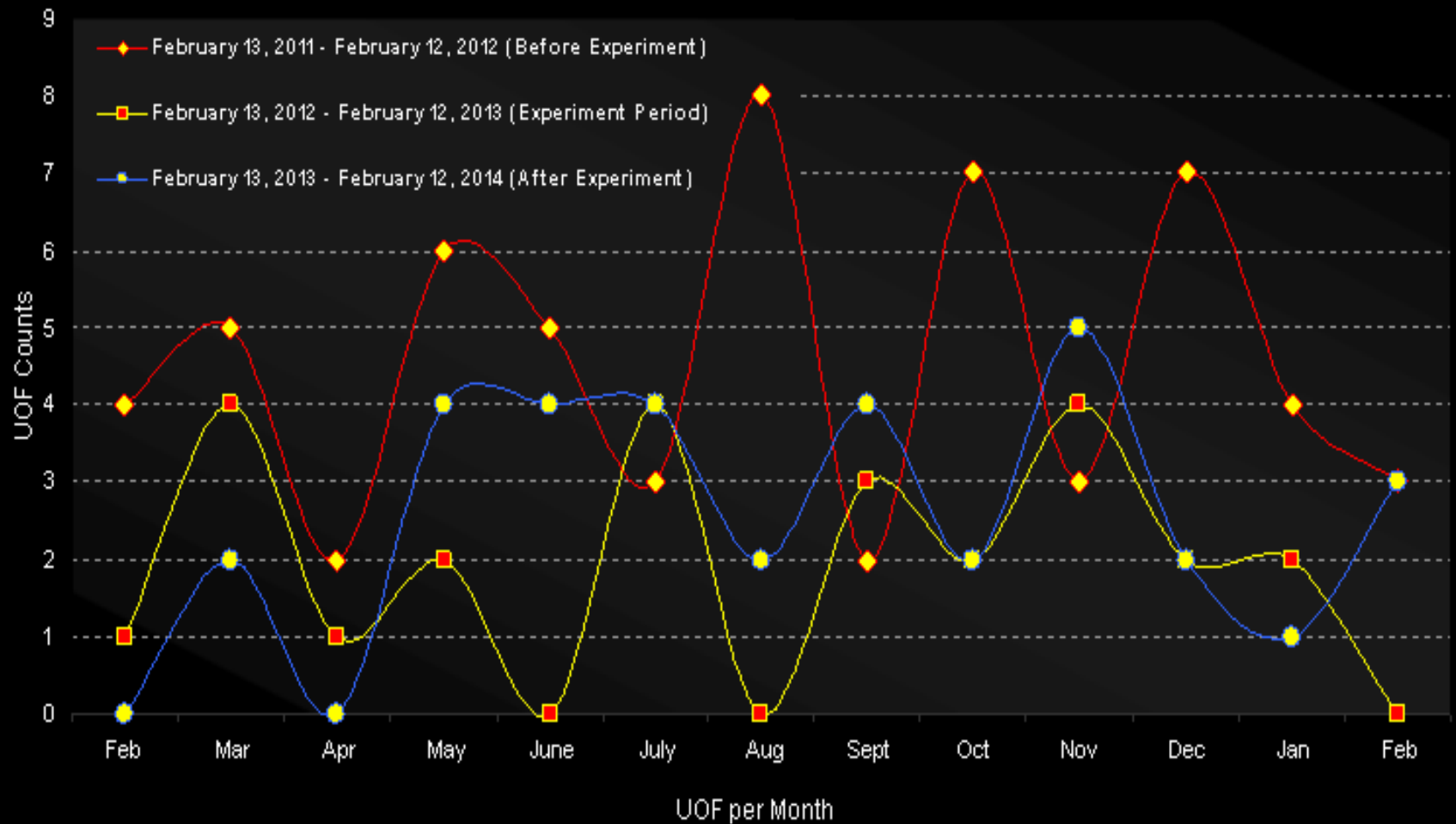
Post Experiment Year -

February 13, 2013 to February 12, 2014 = 33


+46.296% increase in personnel wearing the cameras

-45.9 % decrease compared to the baseline year

Use of Force (UOF) by Patrol Officers at the Rialto Police Department



Court Time Reductions

- 
- Reductions in court time FY2012 (-20.731%)
 - Reductions in court time FY2013 (-32.926%)



October 9, 2013 - By Jay Stanley

***Police Body-Mounted Cameras: With Right
Policies in Place, a Win For All***

“Cameras have the potential to be a win-win, helping protect the public against police misconduct, and at the same time helping protect police against false accusations of abuse.”



For more information please contact:
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