

# URBANA POLICE DEPARTMENT: 2017 TRAFFIC STOP UPDATE

URBANA POLICE DEPARTMENT | CRIME ANALYSIS

## PRESENTERS:

### **Melissa Haynes**

Crime Analyst, Urbana Police Department

### **Sylvia Morgan**

Chief, Urbana Police Department



## Completed Recommendations

- 1.1 ✓ Traffic stop category (motivation for stop)
- 1.2 ✓ Ongoing police implicit bias training
- 1.3 ✓ Traffic stop training
- 2.1 ✓ Hire crime analyst
- 2.2 ✓ Open data portal
- 2.3 ✓ City Council review traffic stop data bi-annually
- 2.4 ✓ Analysis of arrests from traffic stops
- 3.1 ✓ Examine disparity in outcomes from traffic stops
- 4.1 ✓ Cops Corner educational [video](#) (13:40 – 18:00)
- 4.2 ✓ Walk as One
- 4.4 ✓ Encourage participation in ride-alongs and Citizen Police Academy

[http://www.urbanaininois.us/sites/default/files/attachments/task-force-final-report-vol-i-main-report-ver151222\\_1.pdf](http://www.urbanaininois.us/sites/default/files/attachments/task-force-final-report-vol-i-main-report-ver151222_1.pdf)



## Other Progress

- Reduced Urbana City Code fines for possession of cannabis and paraphernalia
- Extended the length of time available to pay minimum fines in Section 1-18 of City Code, from 14 days to 60 days
- Random supervisory review of traffic stop videos
- Addition of “Beyond Scope” checkbox
- Community Outreach Specialist
- Collaboration with CU Fresh Start



# Traffic Stop Data | Overview

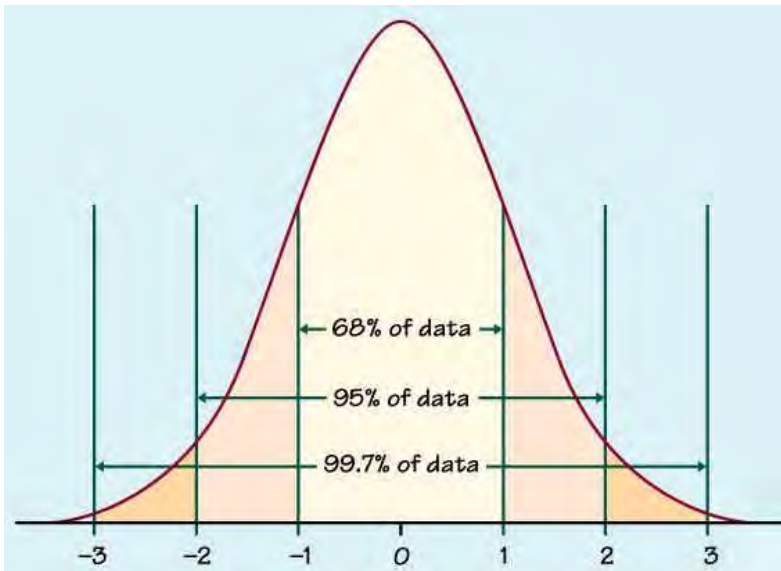
- **Overview of statistical methods**
- **Quarterly dashboard**
  - Number of stops
  - Reason and motivation
  - Disparity ratio
  - Outcomes
- **Maps**



## Measures of Dispersion

- Range
- Variance
- Standard Deviation

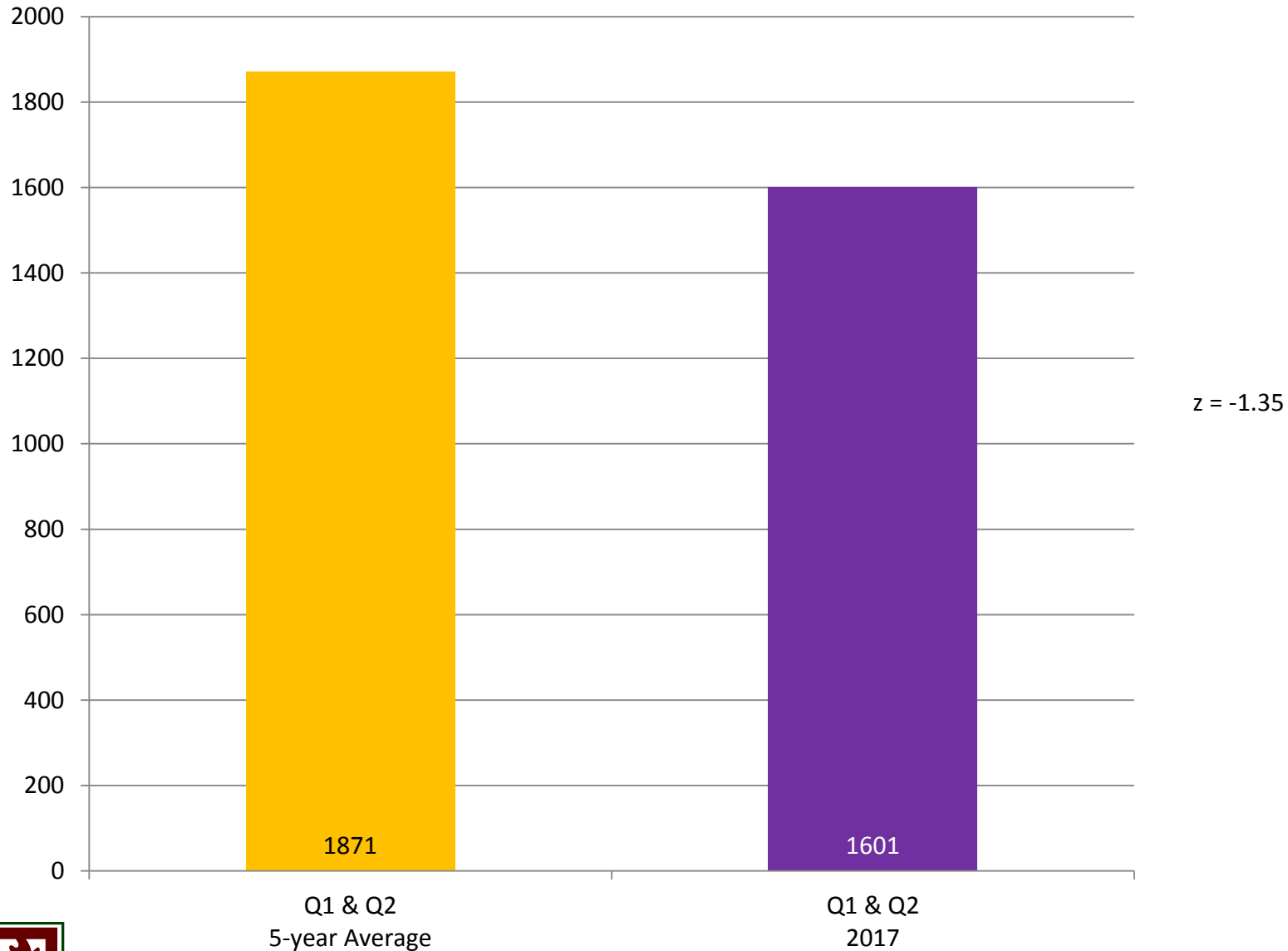
### z-score



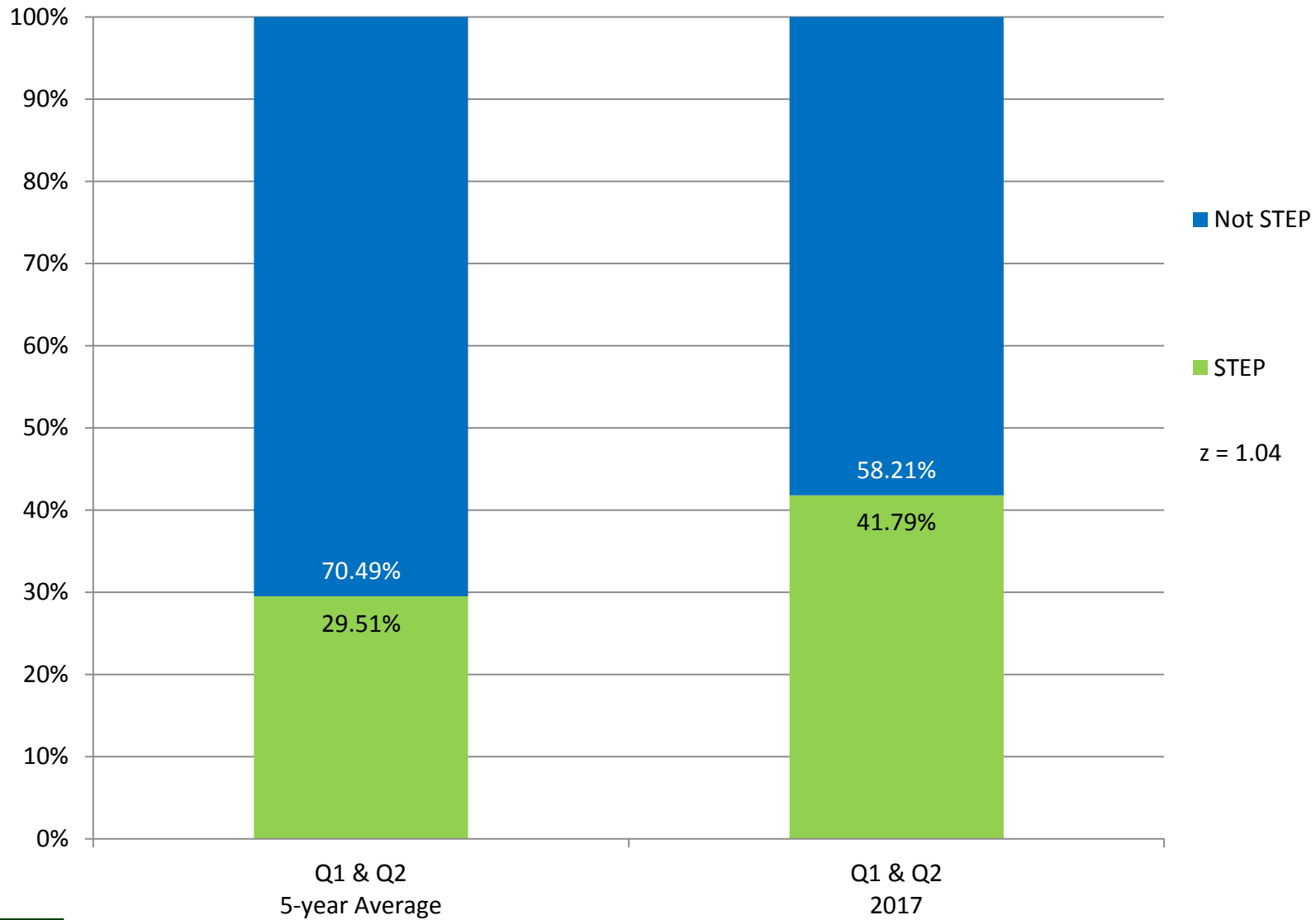
### Normal Curve

- Normalized standard deviation

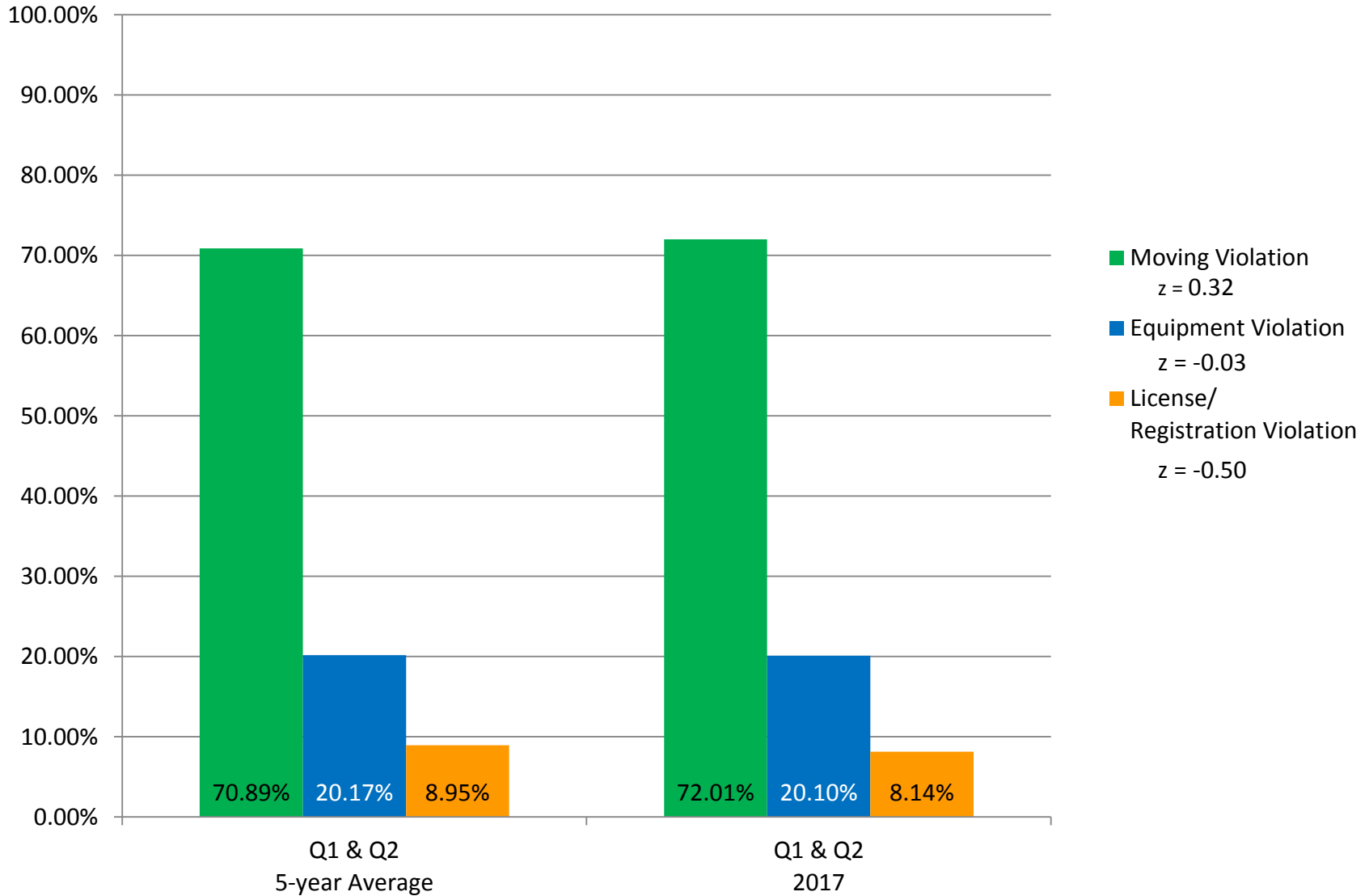
# Number of Traffic Stops



# STEP Traffic Stops

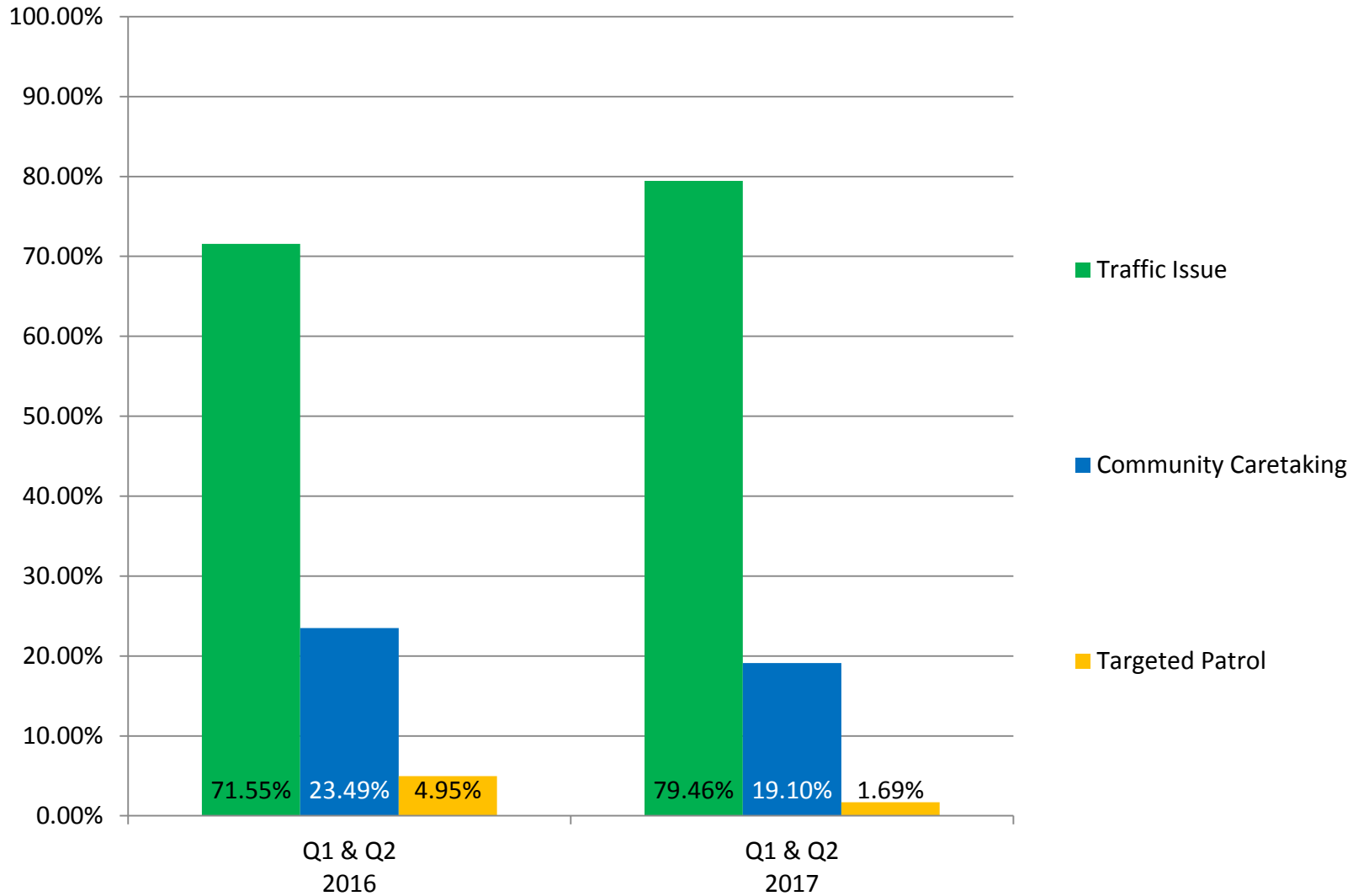


# Reason for Stop





# Motivation for Stop



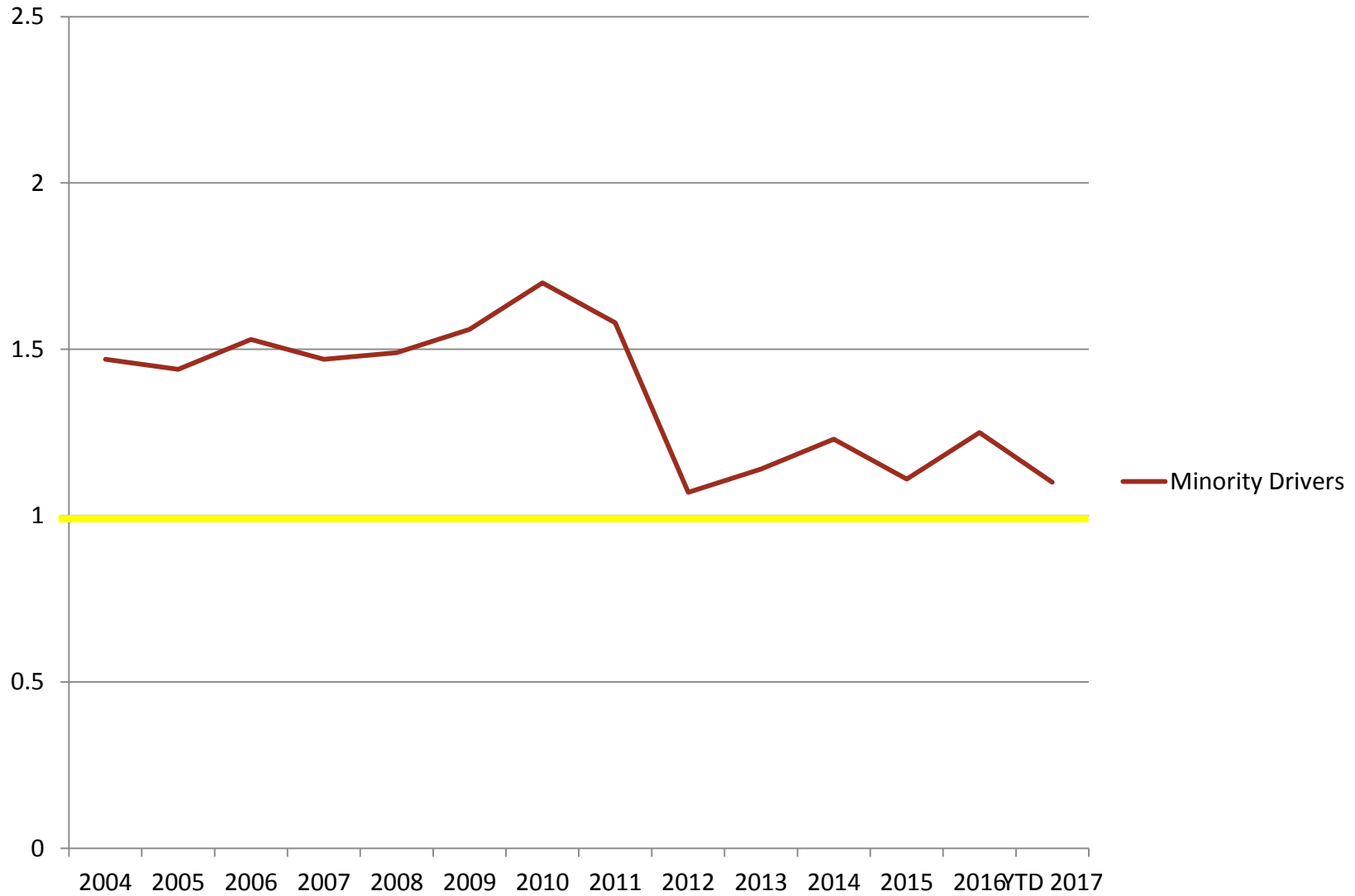
**% of Drivers Stopped, By Race**

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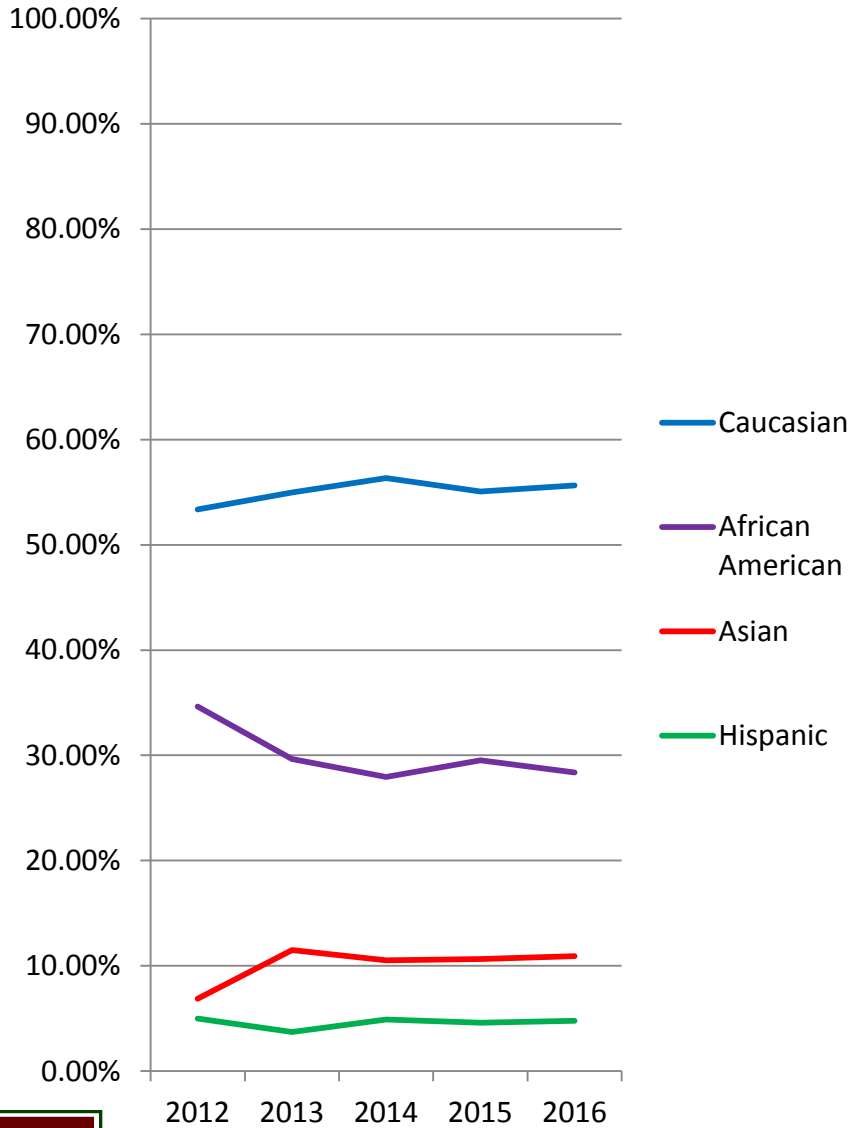
**% of Drivers on Street, By Race**



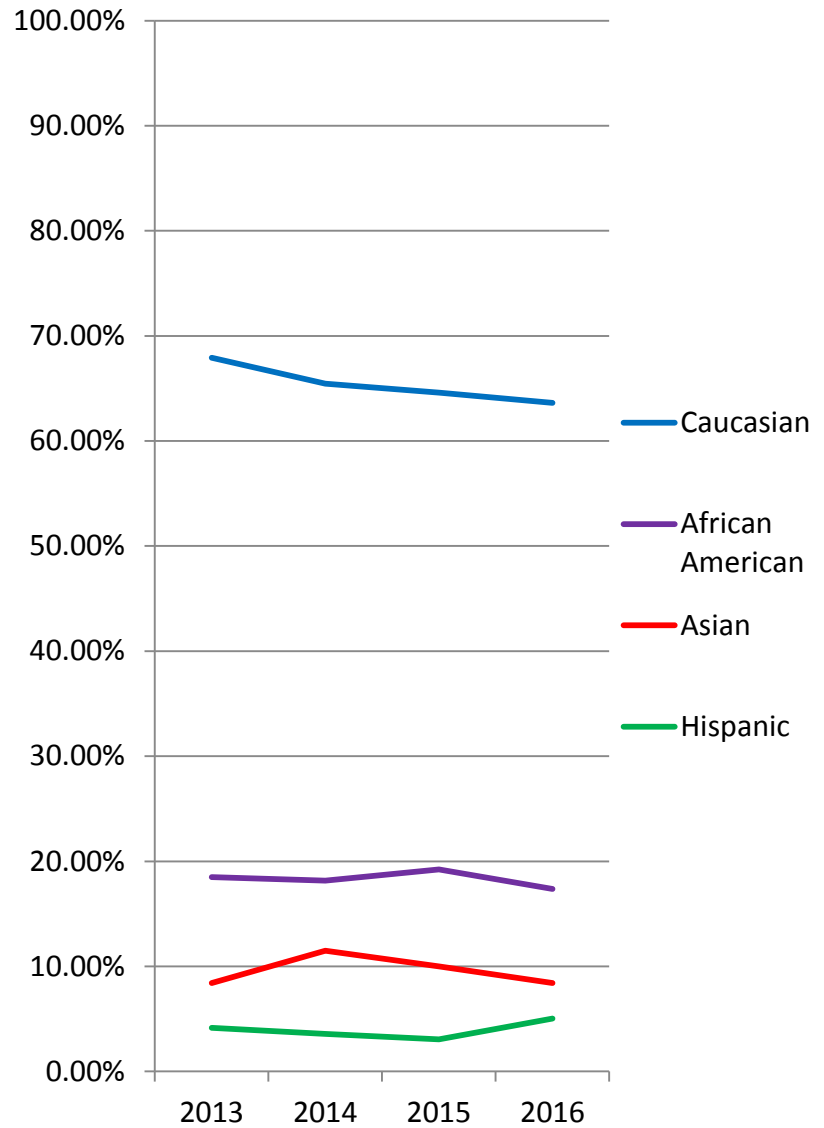
# Disparity Ratios, as Reported by IDOT



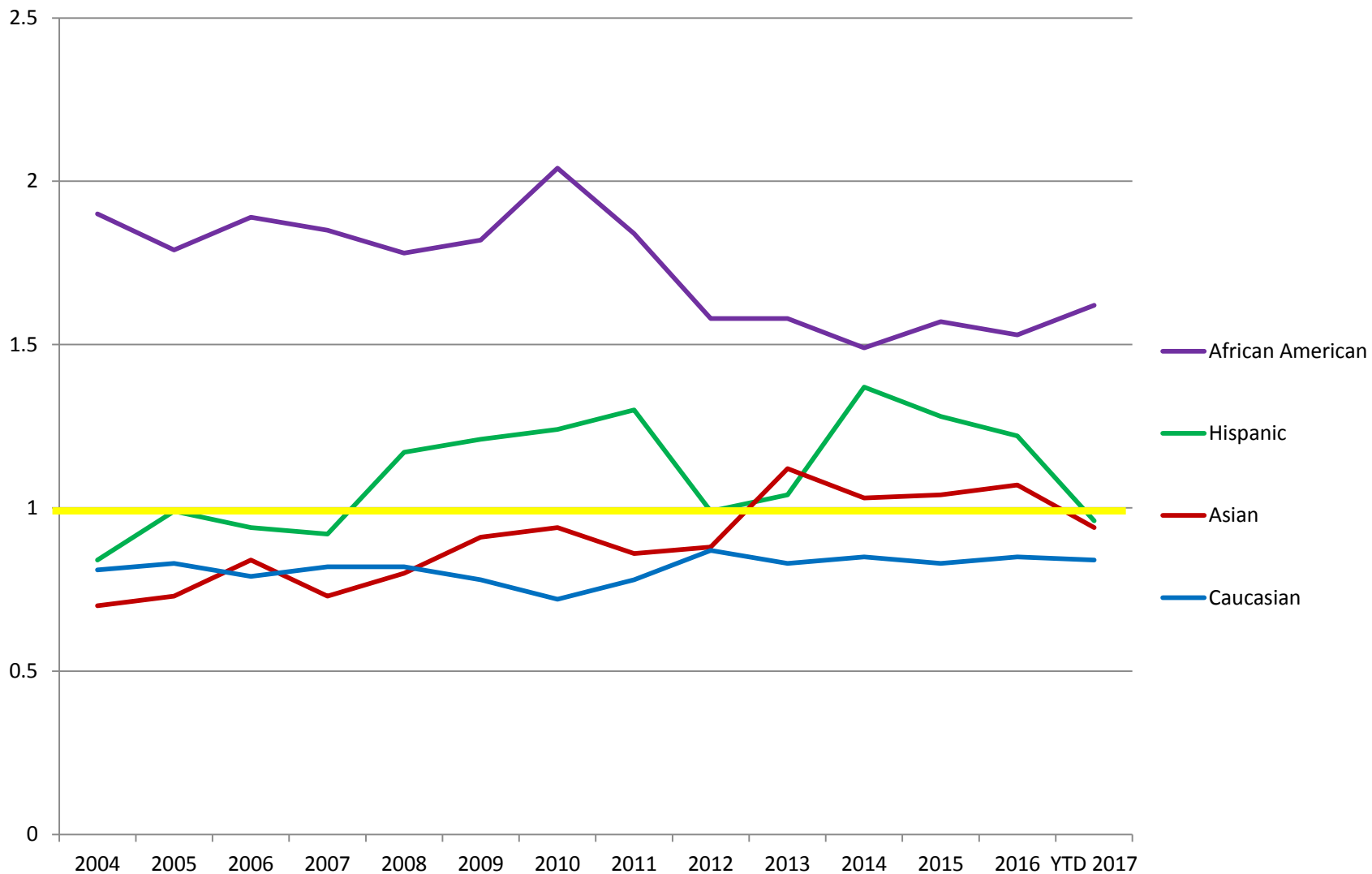
### Traffic Stops by Race



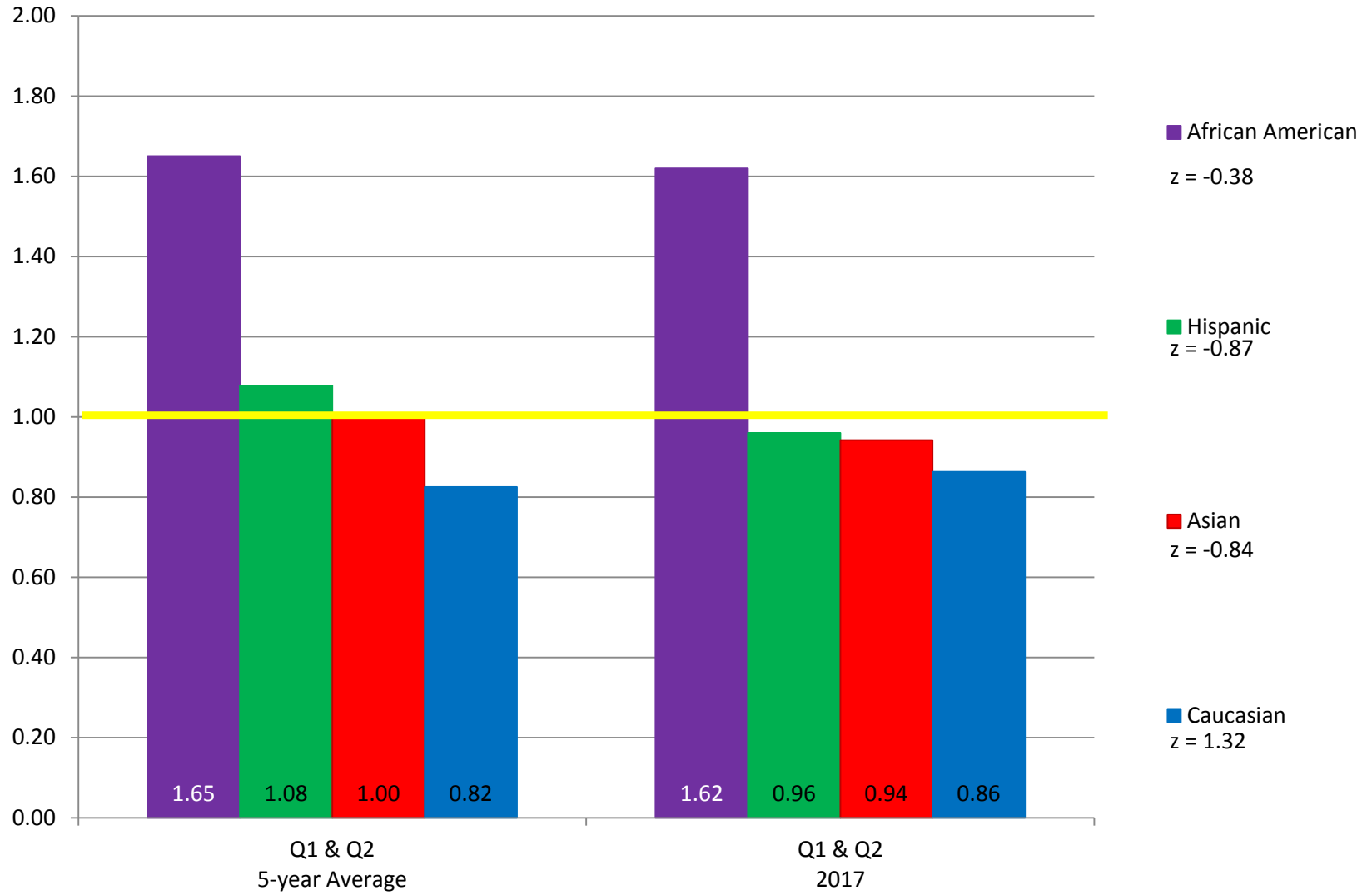
### Accidents by Race



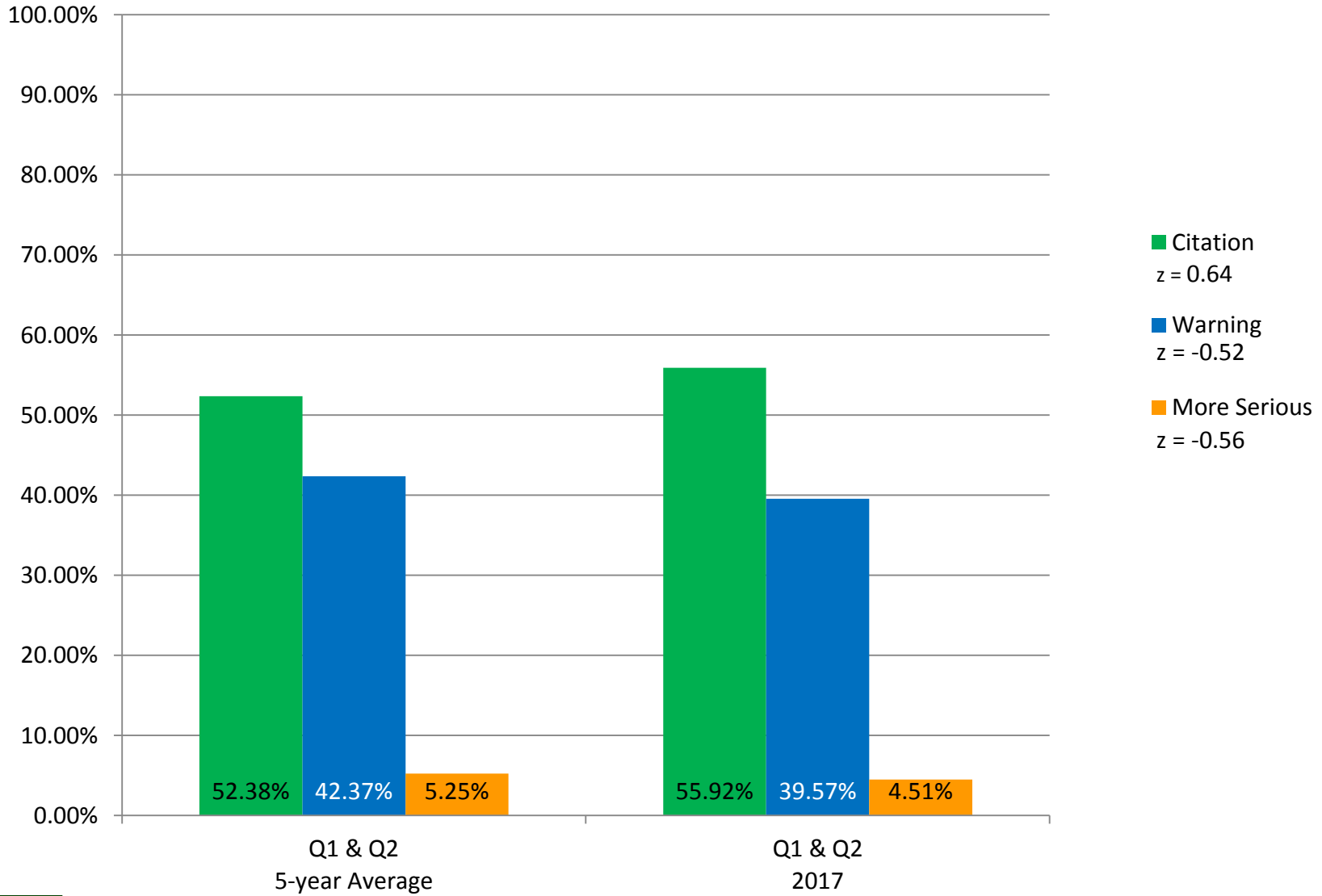
# Disparity Ratios



# Disparity Ratio



# Outcomes of Stops



# Disparity Ratio of Outcomes

	Citation	Warning	More Serious	All Stops
<b>Asian</b>	9.29% (83)	10.76% (68)	2.78% (2)	9.58% (153)
<b>African American</b>	29.68% (265)	27.22% (172)	55.56% (40)	29.87% (477)
<b>Hispanic</b>	4.37% (39)	2.85% (18)	2.78% (2)	3.69% (59)
<b>Caucasian</b>	56.55% (505)	58.86% (372)	38.89% (28)	56.67% (905)

	Citation			Warning Only			More Serious		
	2012-2016	2017	z-score	2012-2016	2017	z-score	2012-2016	2017	z-score
<b>Asian</b>	1.02	0.97	-0.63	1.09	1.12	0.46			
<b>African American</b>	0.92	0.99	6.53	0.99	0.91	-2.66	1.90	1.86	-0.53
<b>Hispanic</b>	1.11	1.18	0.54	0.71	0.77	0.99			
<b>Caucasian</b>	1.03	1.00	-4.59	1.02	1.04	0.79	0.56	0.69	1.34



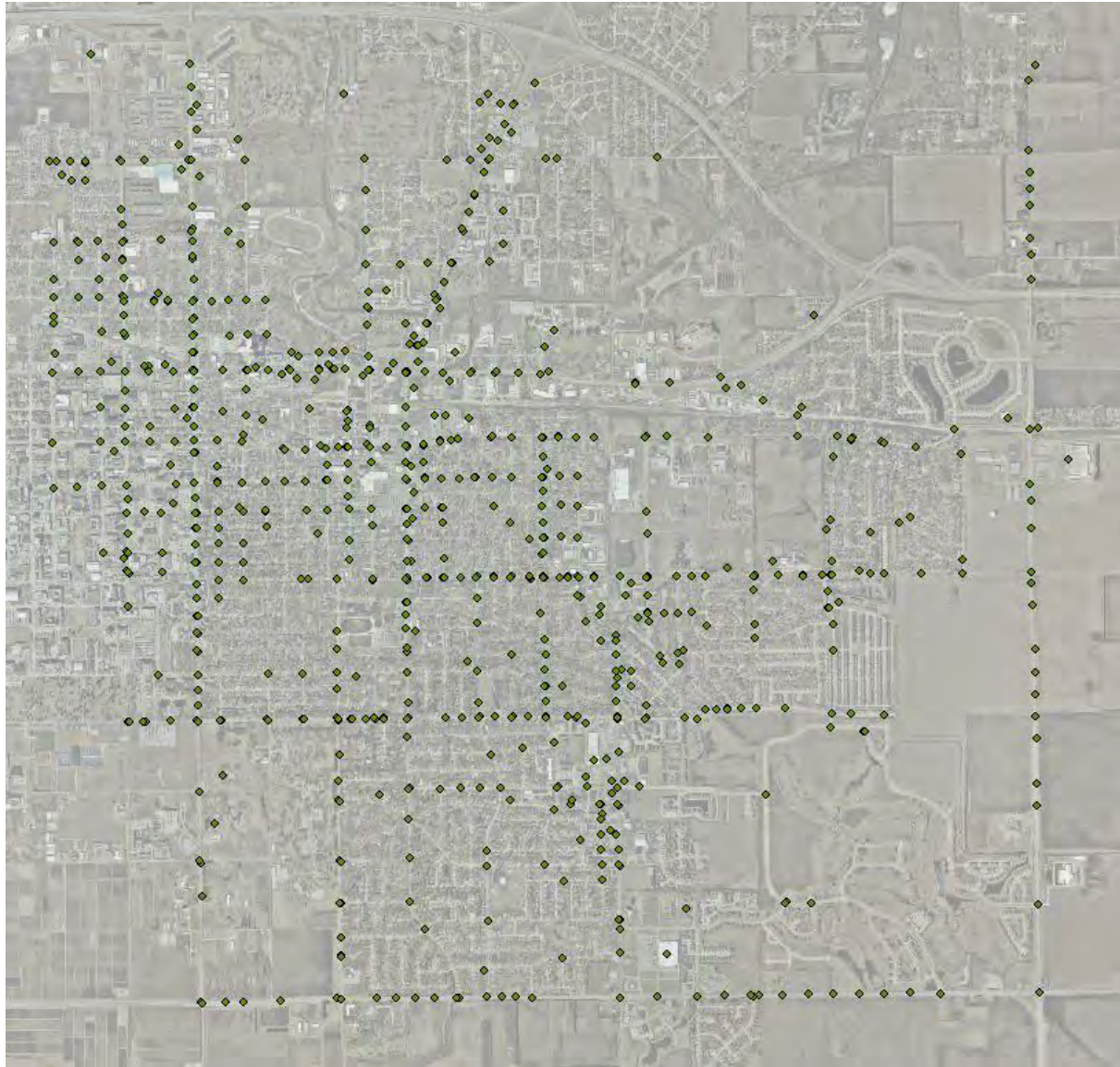


## Disparity Ratio, 2015 - 2017

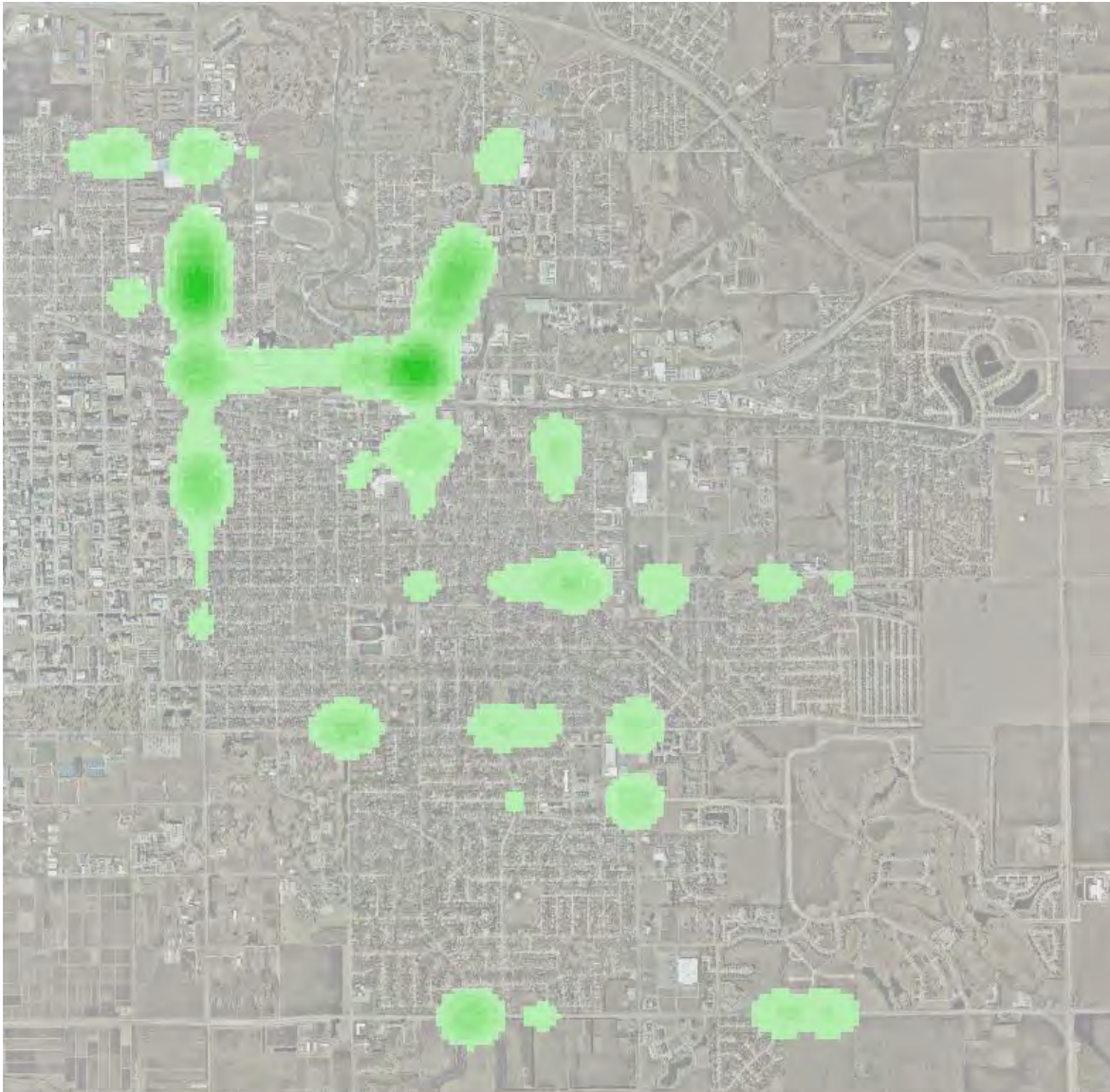
Race	All	STEP	Non-STEP
African American	1.57	1.34	1.69
Asian	1.04	0.72	1.20
Caucasian	0.85	0.96	0.79
Hispanic	1.15	1.13	1.16
<i>Number of Stops</i>	<b>8575</b>	<b>2904</b>	<b>5671</b>



# All Traffic Stops: 2015 - 2017



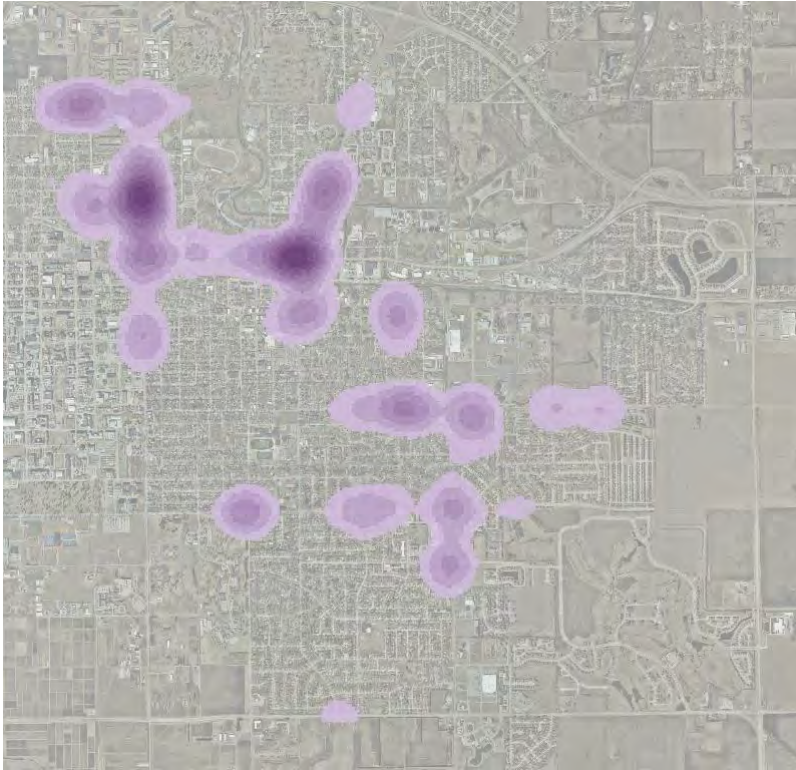
# Density of All Traffic Stops: 2015 - 2017



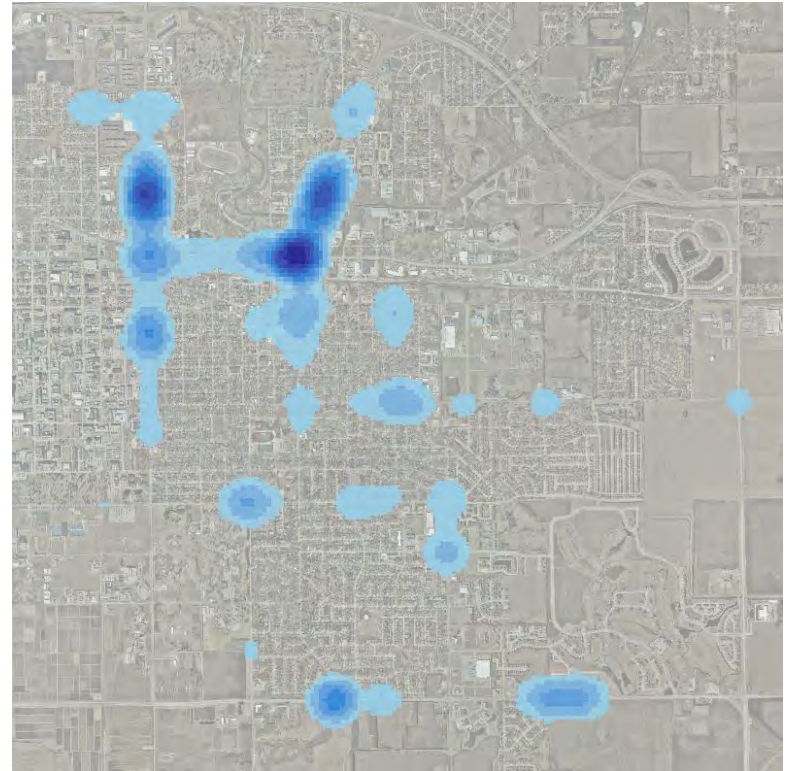


# Density of Traffic Stops by Race, 2015 - 2017

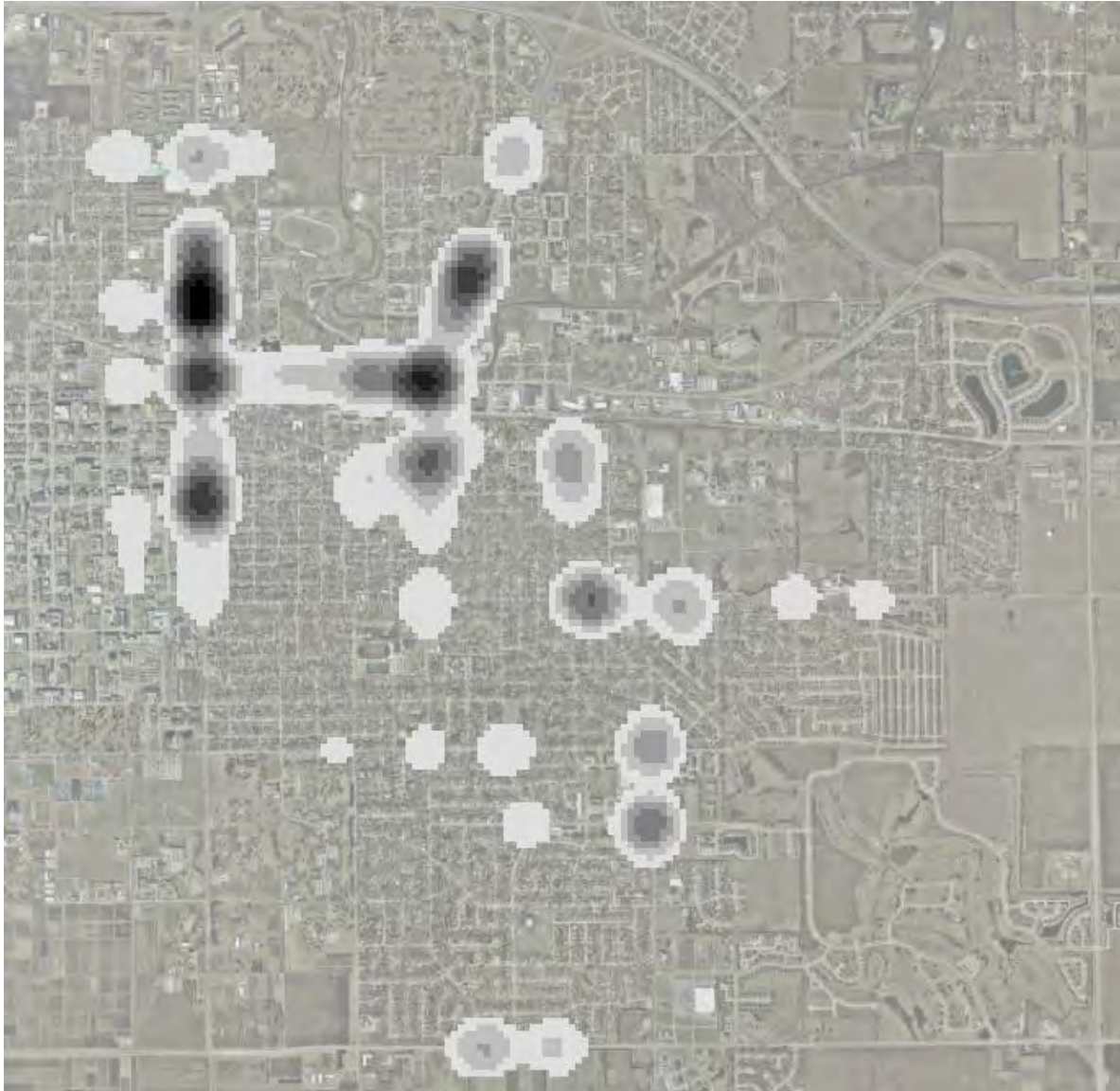
## African American Drivers



## Caucasian Drivers



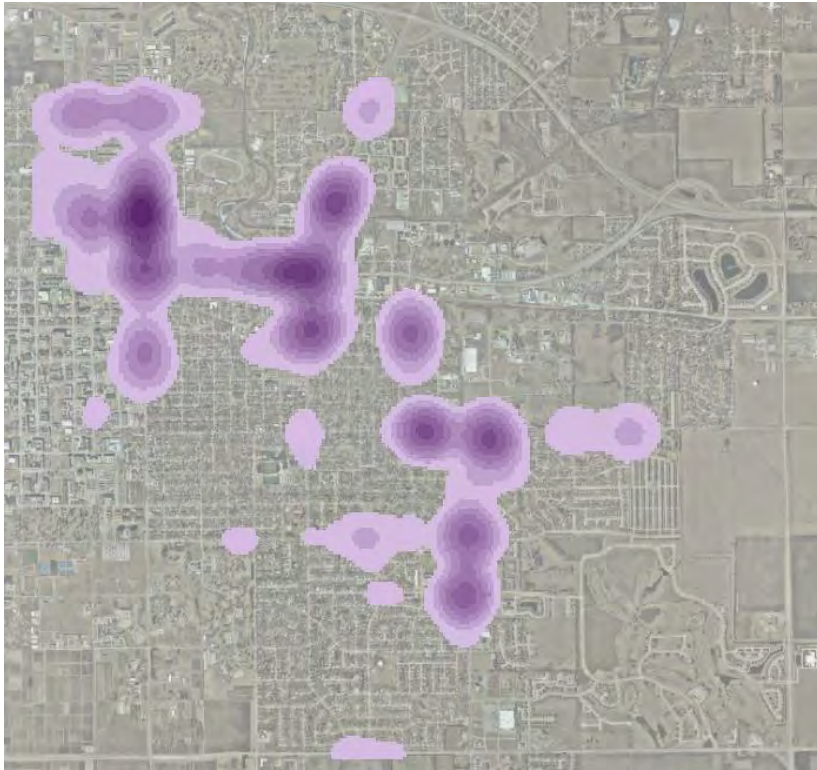
# Density of Non-STEP Traffic Stops, 2015-2017



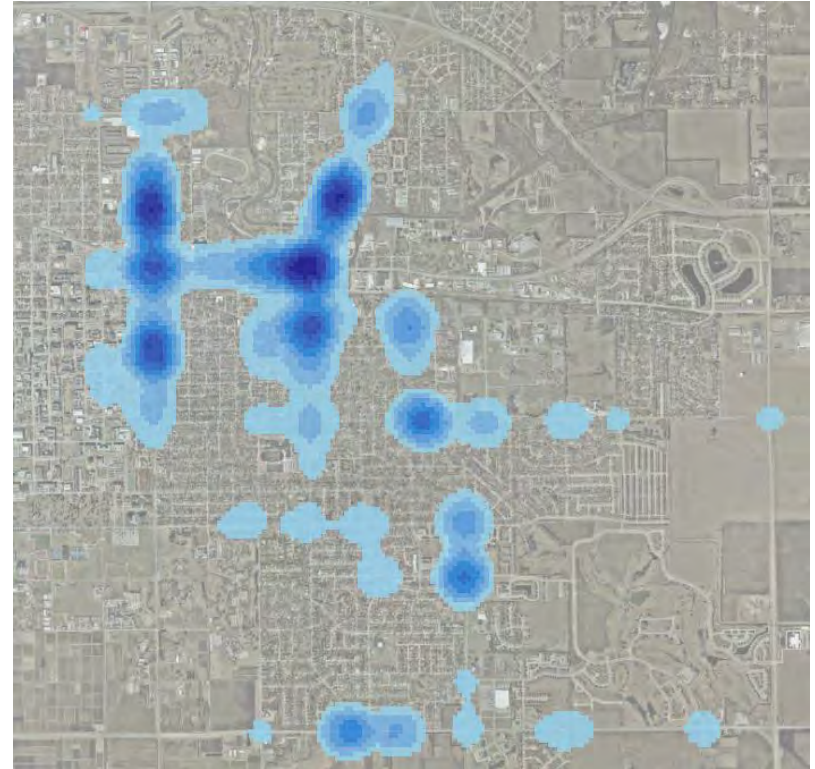


# Density of Non-STEP Traffic Stops by Race, 2015-2017

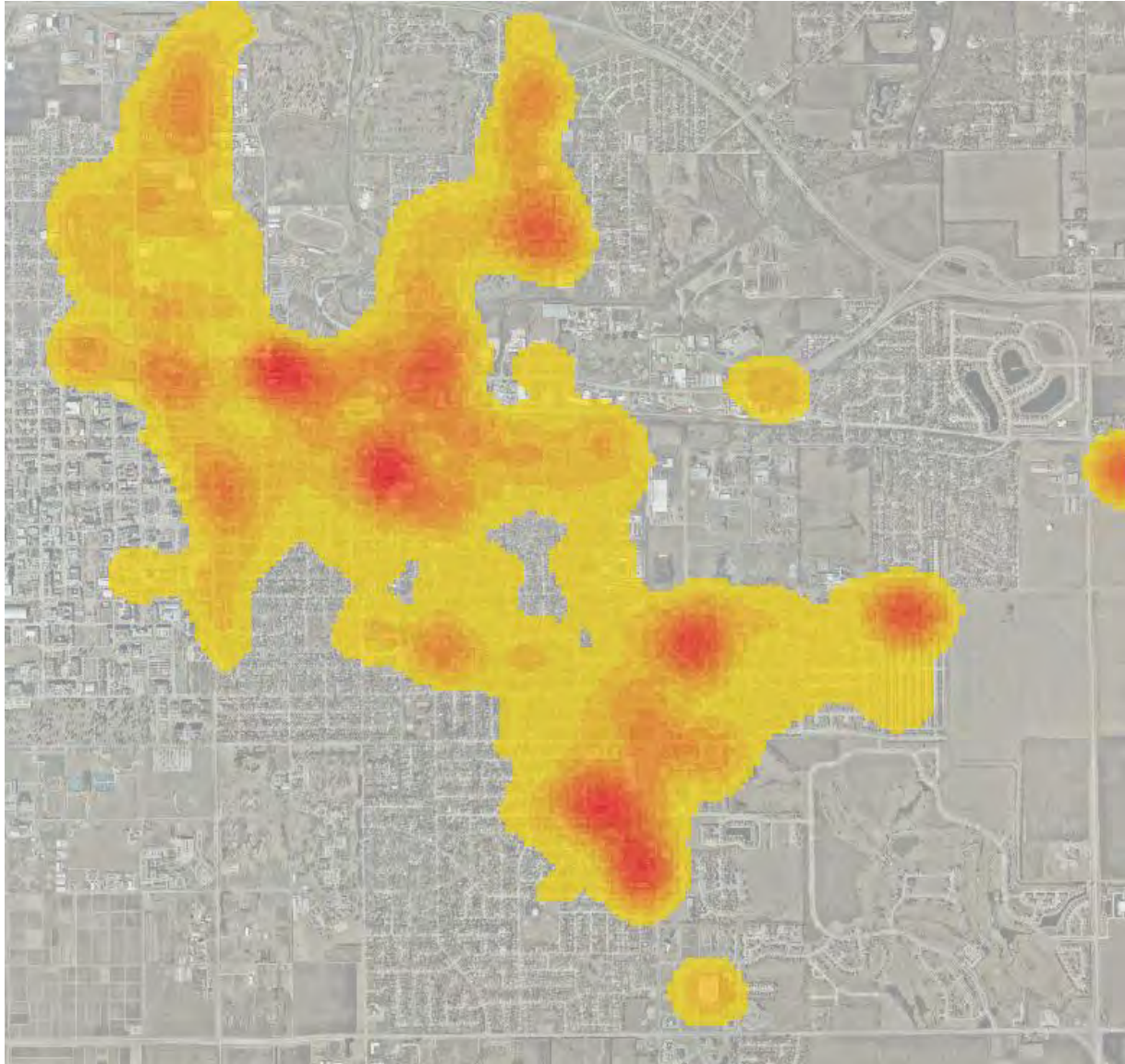
## African American Drivers



## Caucasian Drivers

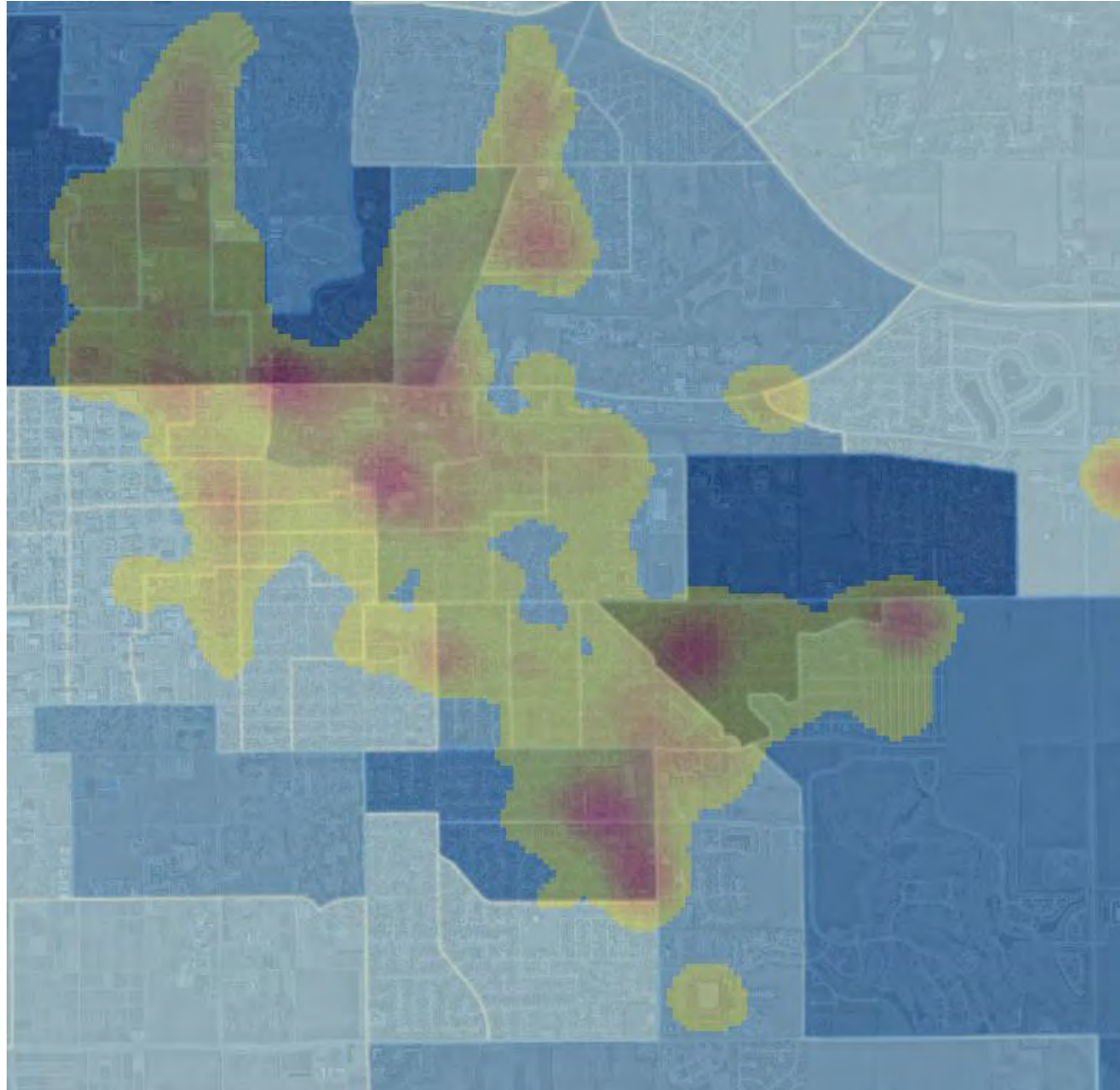


# Density of Citizen-Initiated Calls for Service, 2015-2017



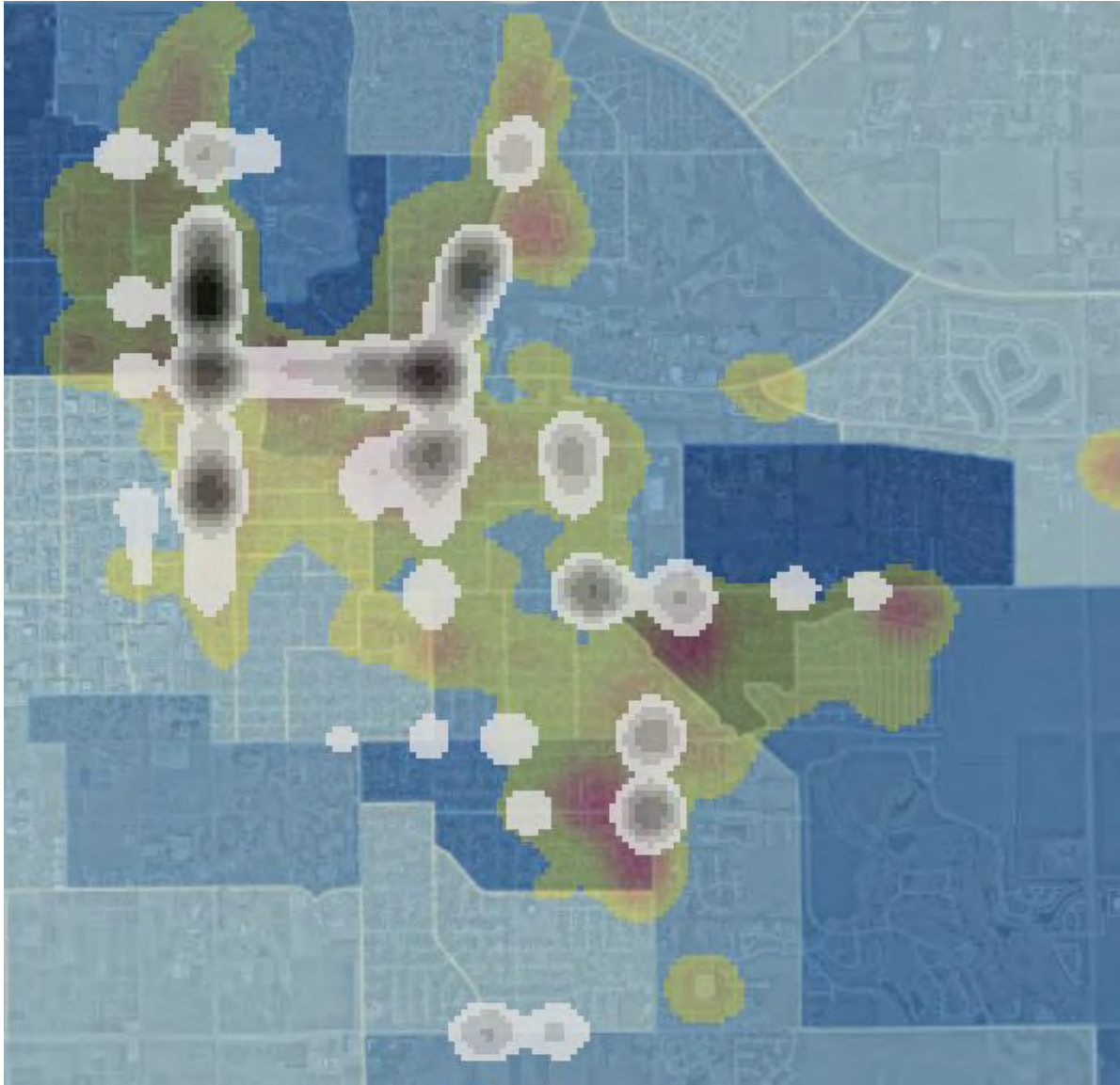


# Density of Citizen-Initiated Calls for Service and Census Percent African American, 2015-2017



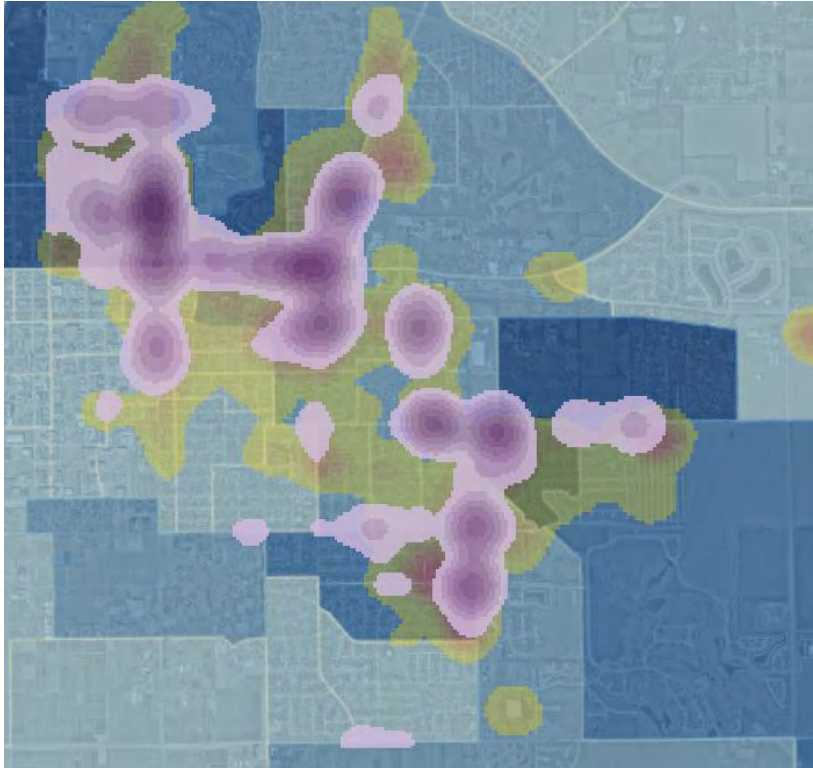


# Density of Citizen-Initiated Calls for Service and Non-STEP Traffic Stops, 2015-2017

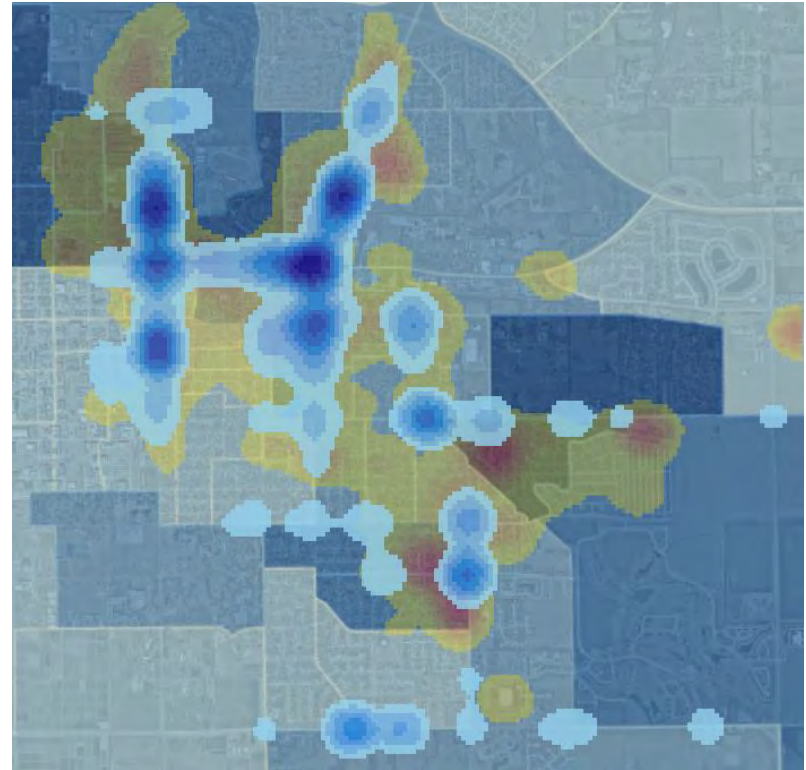


# Density of Citizen-Initiated Calls for Service and Non-STEP Traffic Stops by Race, 2015-2017

## African American Drivers



## Caucasian Drivers



- 2017 YTD
  - Fewer traffic stops
  - Higher percentage of STEP traffic stops
  - No meaningful change in motivation for stop, reason for stop
  - No meaningful change in disparity ratio for stop
  - Fluctuations in disparity ratio for outcomes, but remain close to 1.00
- 2015 – 2017, spatially
  - High concentration of traffic stops on thoroughfares
  - Non-STEP stops are more broadly distributed
  - Non-STEP African American stops are more broadly distributed
    - Higher concentration in areas with more calls for service
      - Concentration of calls for service in Census tracts with higher percentage of the population that is African American



## Next Steps

- Urbana Police
  - Follow-up meetings with council members, if requested
- Mayor
  - Solicit recommendations from city council and staff for any further changes in city practices/policies to reduce racial disparities related to traffic stops
  - Scheduling neighborhood meetings with African-American community in September and October
  - Report back to City Council with recommendations and feedback



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**EMAIL QUESTIONS MAY BE DIRECTED TO:**

Melissa Haynes, Crime Analyst at [crimeanalysis@urbanainlinios.us](mailto:crimeanalysis@urbanainlinios.us)

