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POLICE DEPARTMENT
To reduce crime and improve the quality of life for the citizens we serve

Operation ARC

A Procedurally Just Traffic Safety Initiative

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SPEAKERS

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Capt. Josh Kyle
Sgt. Scott Hajek

K-STATE
KANSAS STATE UNIVERSITY

Dr. Sue Williams
Dr. Lorenza Locket
John Grube

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- Critical Elements of Operation ARC
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- Study Development and Results

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- ILP
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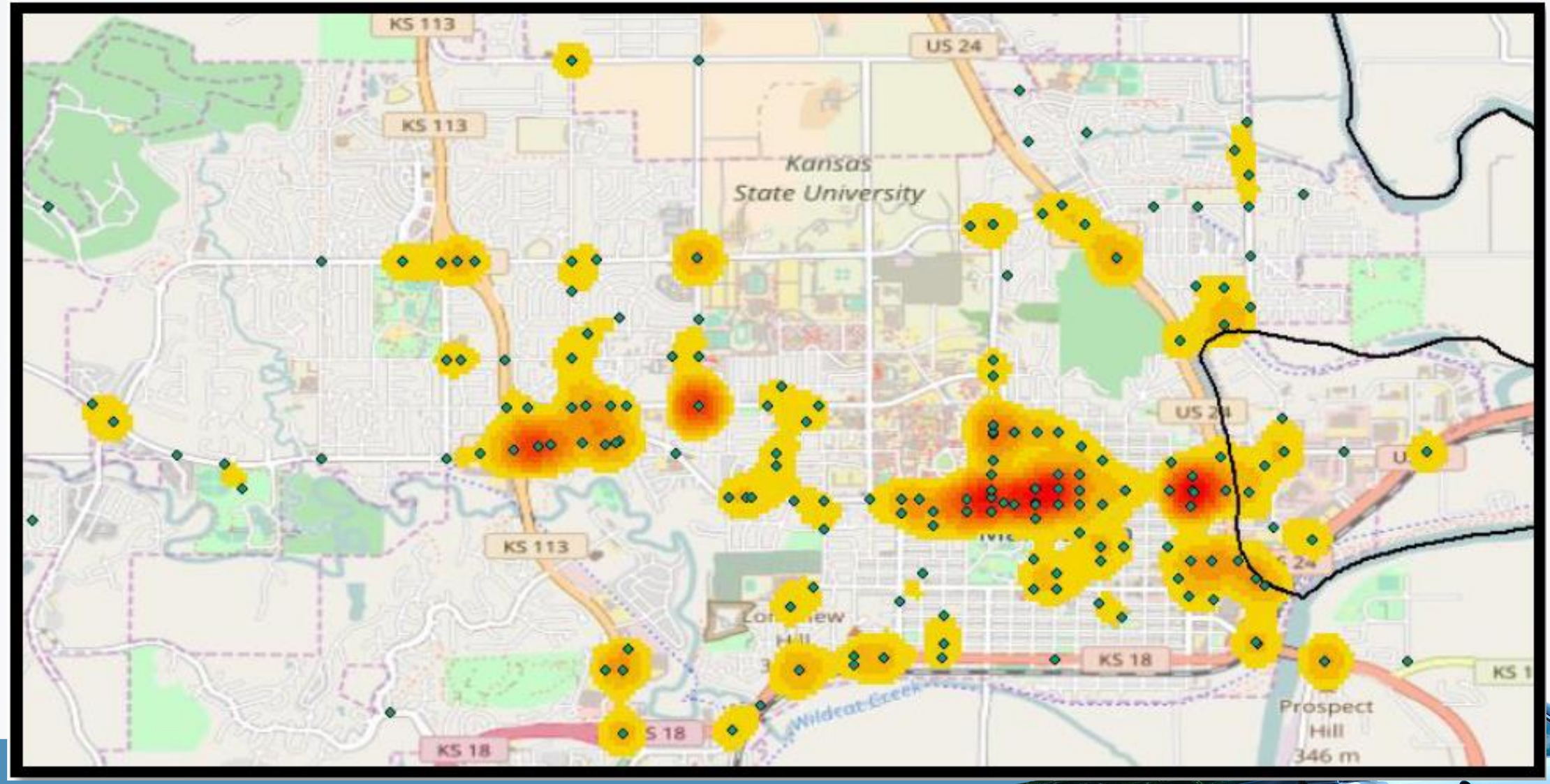

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- Positive results
- What was to blame?
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- Voice, Neutrality, Dignity & Respect, Trustworthy Motives
- Process over Outcome
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The four principles of procedural justice:

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Neutrality

Respect

Trustworthiness

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OPERATION ARC

- Accident Reduction Citations/Centers
  - How to get the public's **Voice**
    - Researchers
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BIG APPLE V. LITTLE APPLE

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- Locations (20/20, 1-2)
- **Behaviors**
- Repeat Traffic Offenders

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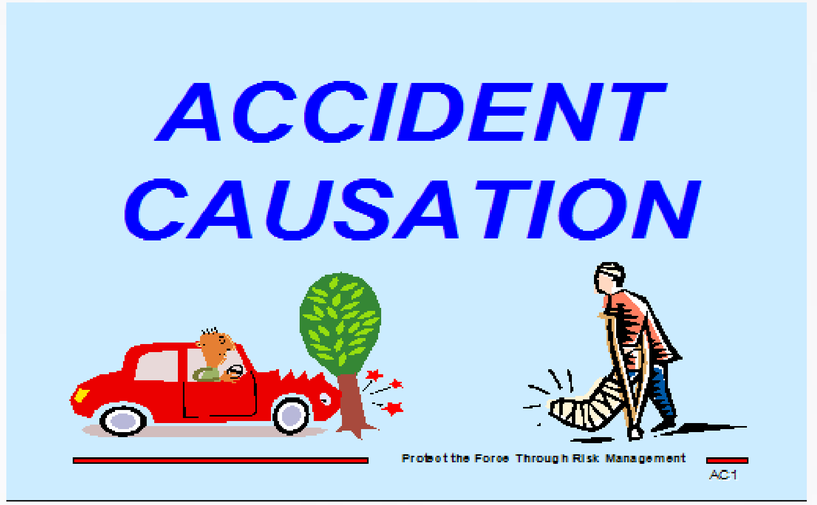

Critical Elements of Operation ARC

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- Introduction to PJ and Police Legitimacy
  - Esp. the four elements
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  - Review of traffic accident data
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    - Strong focus on scripting (officer's voice)
      - 90 second Rule
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ARC TRAINING

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- DIGNITY AND RESPECT
  - This is emphasized by your demeanor.
  - Saying something like, “Well, sorry to have met like this, but I do need your driver’s license and…”

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- “I stopped you for speeding…”
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- “Speeding is one of the major causes of accidents” (Trustworthy motives)
- “We asked the public what they thought we should focus on and they said speeding was an important issue” (Voice)
- “Sorry we had to meet like this, but I need your license and…” (Dignity/Respect)
- Return visit – “My supervisors and the public expect me to write tickets for speeding so that everyone can use the roads safely, so I’ve written you a ticket for…” (Motives, Dignity/Respect, Neutrality)

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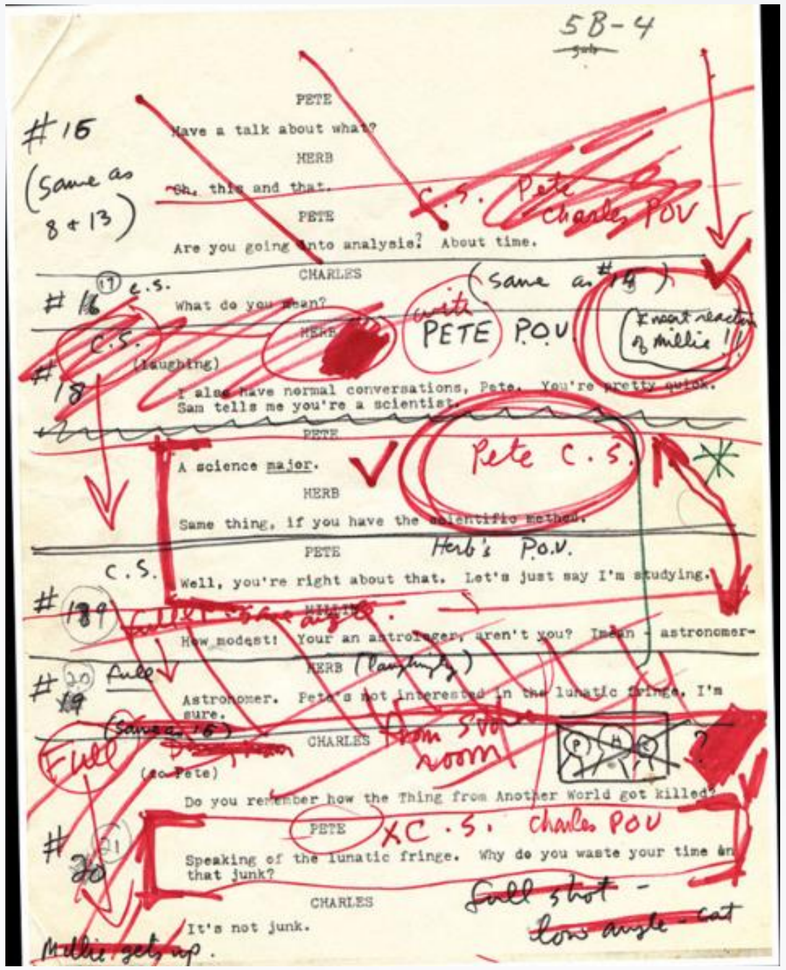

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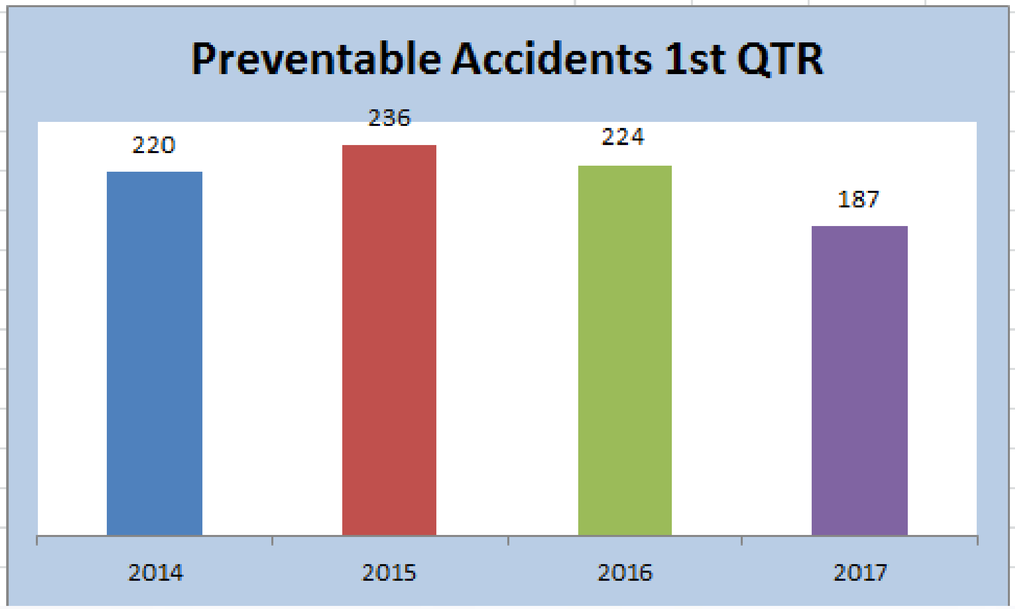

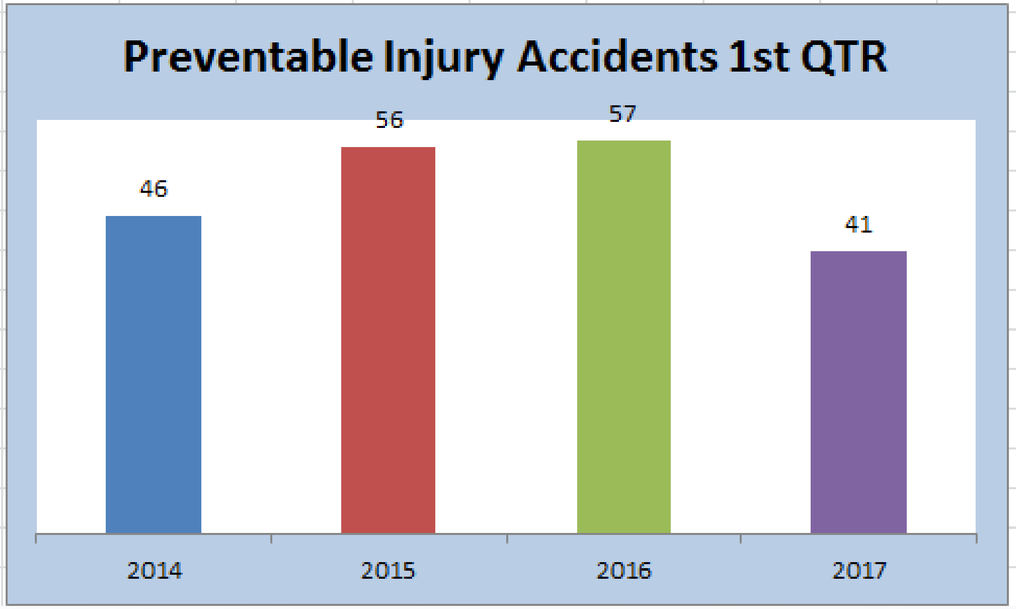

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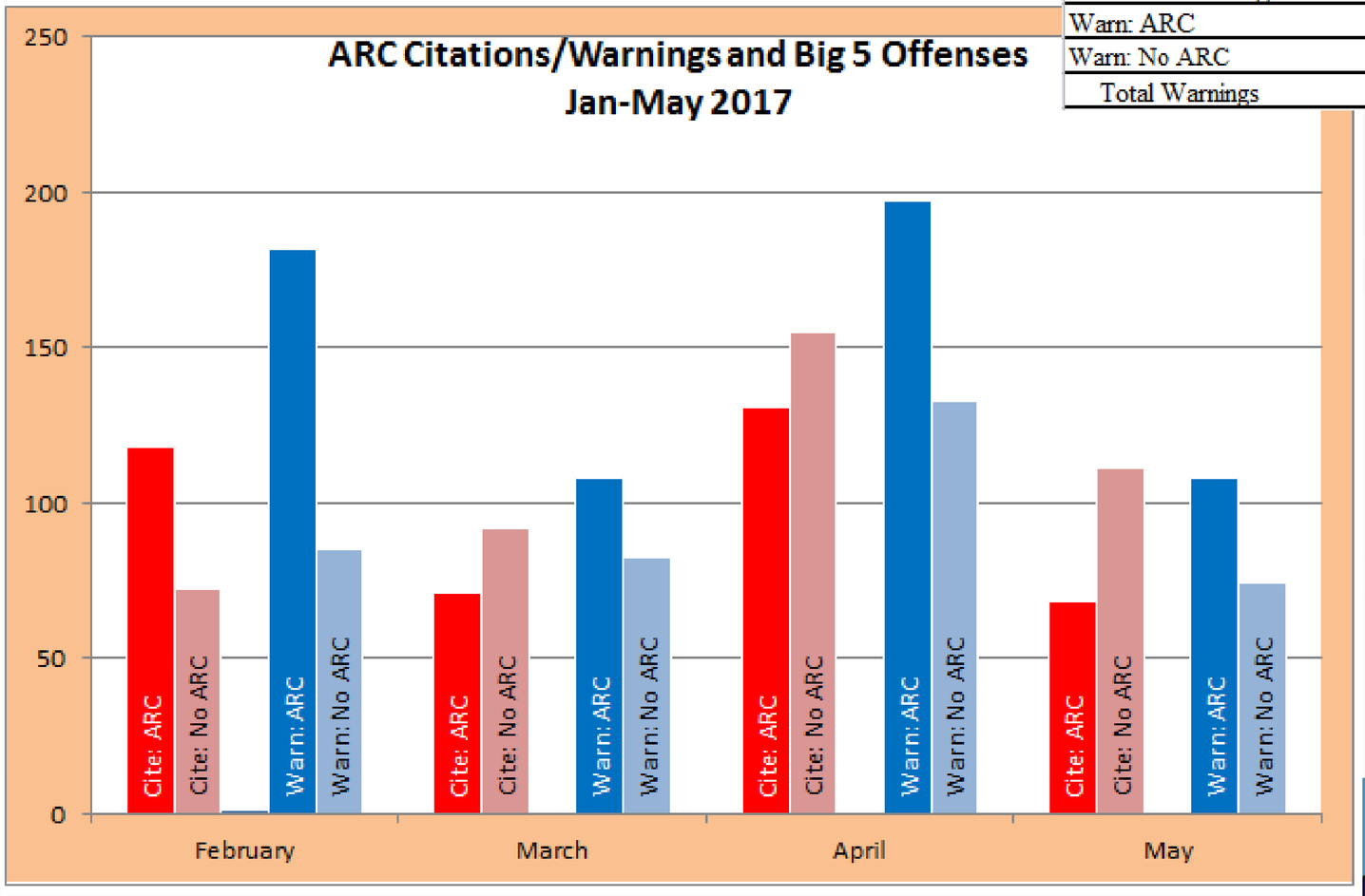
COMPLIANCE RATES

ARC Citations/Warnings and Big 5 Offenses Jan-May 2017							
Big 5 Violations	January	February	March	April	May	Total	% of
Citations:							
Cite: ARC	N/A	118	71	131	68	388	47.4%
Cite: No ARC	N/A	72	92	155	111	430	52.6%
Total Citations	N/A	190	163	286	179	818	
Warnings:							
Warn: ARC	N/A	182	108	197	108	595	61.4%
Warn: No ARC	N/A	85	82	133	74	374	38.6%
Total Warnings	N/A	267	190	330	182	969	



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STUDY RESULTS

- Dr. Williams

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LESSONS LEARNED

- QC measures were created well after training (very complicated)
  - Video review by supervisors
- No reminders (cheat sheets) after training
- Officers keenly interested in accident data and study construction.
- A small number of officers regularly wrote ARC citations and a small group did not.

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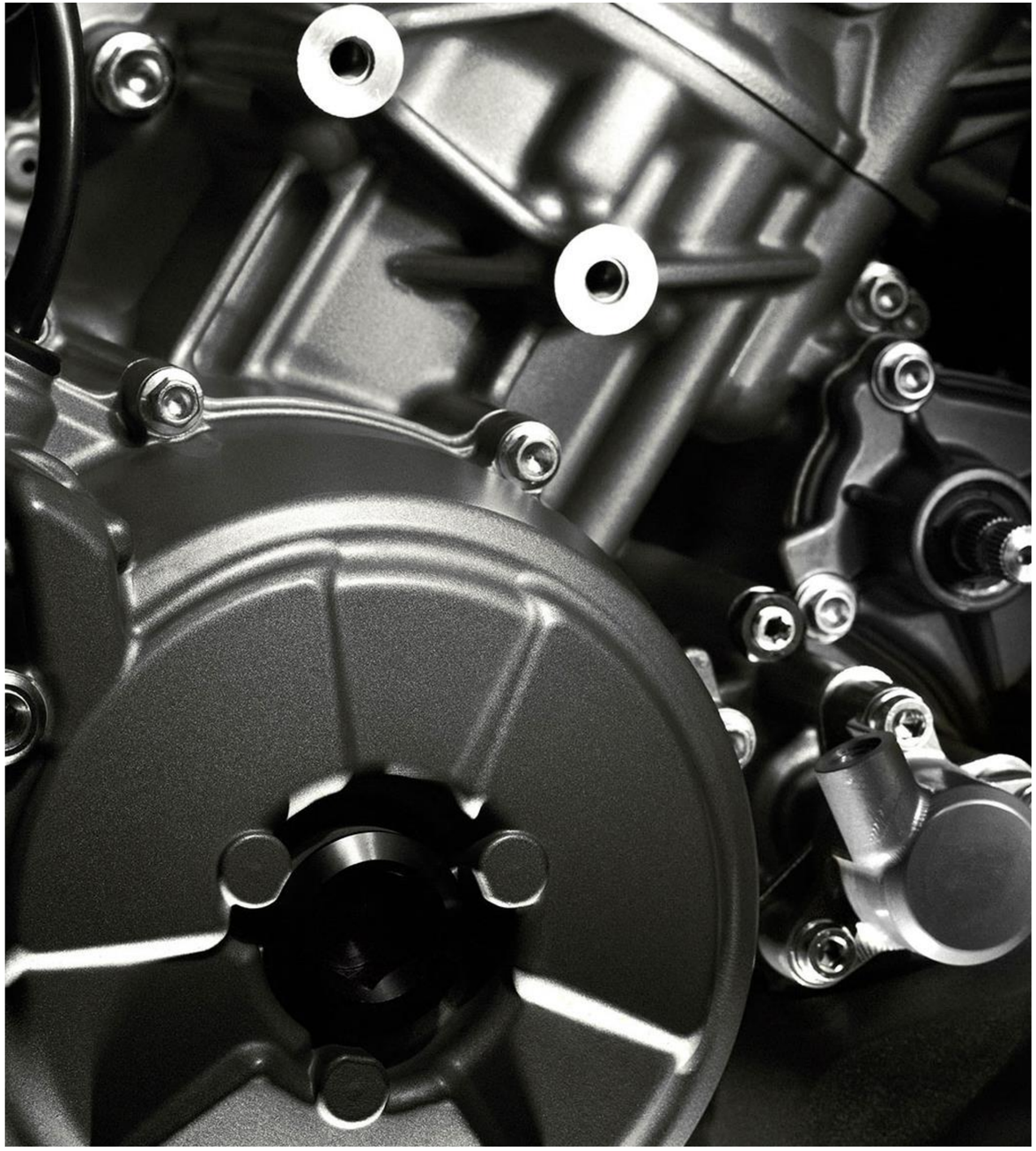

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“Type a quote here.”

–Johnny Appleseed

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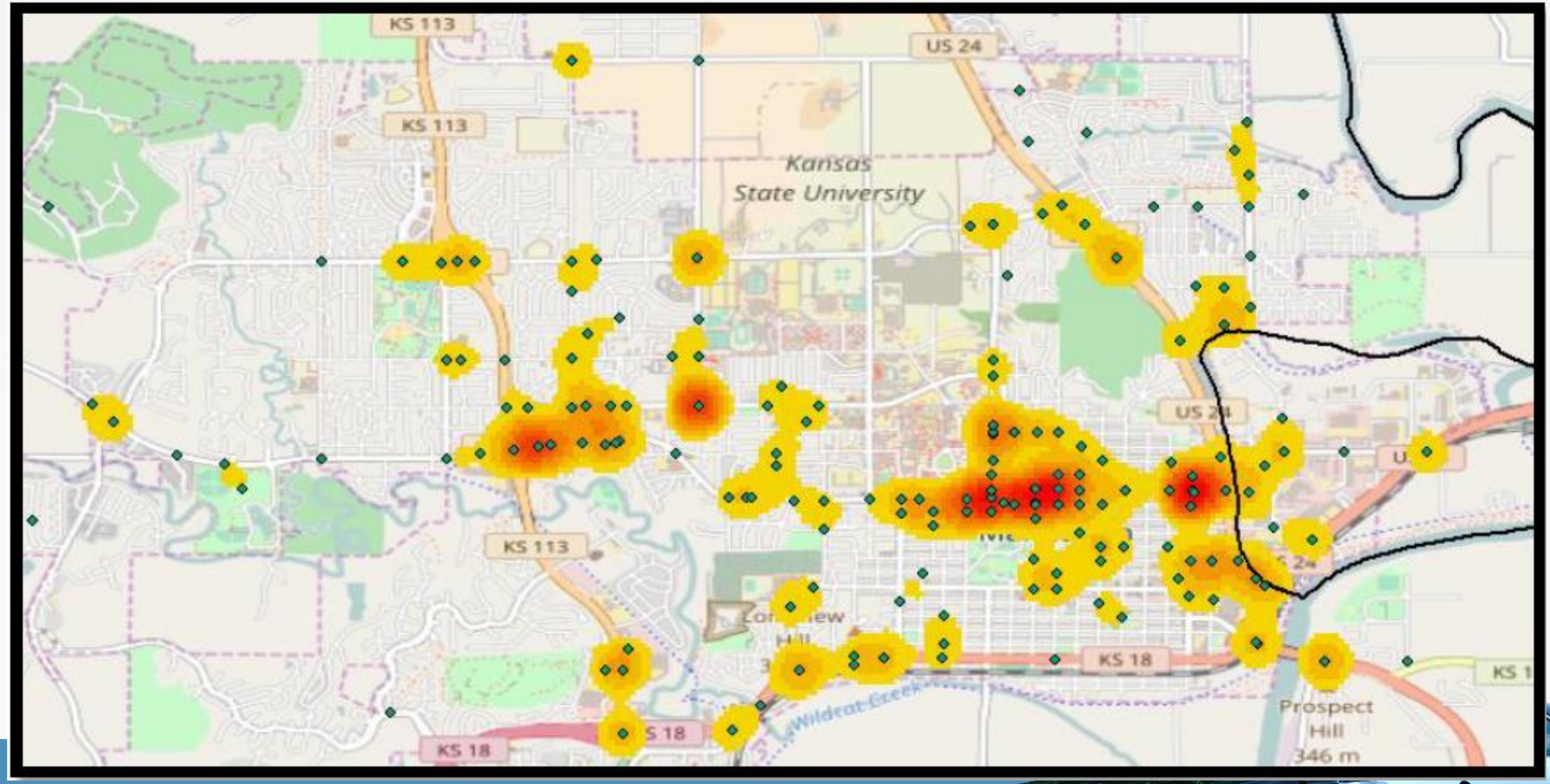

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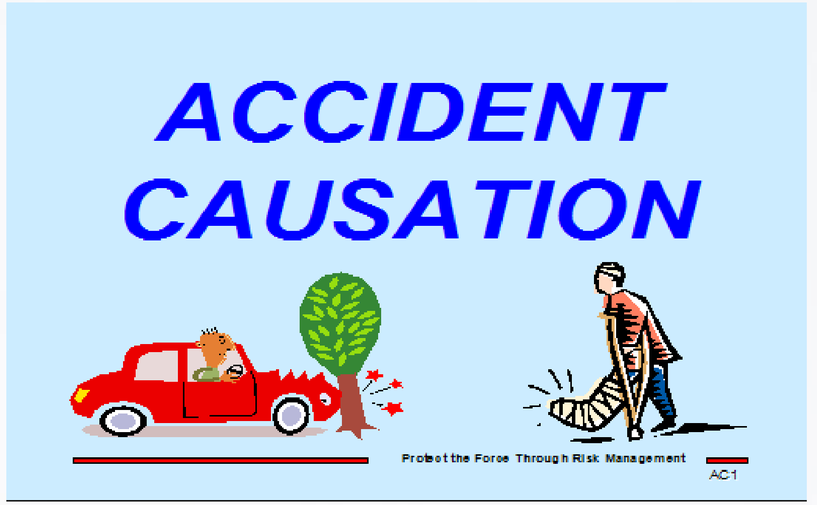

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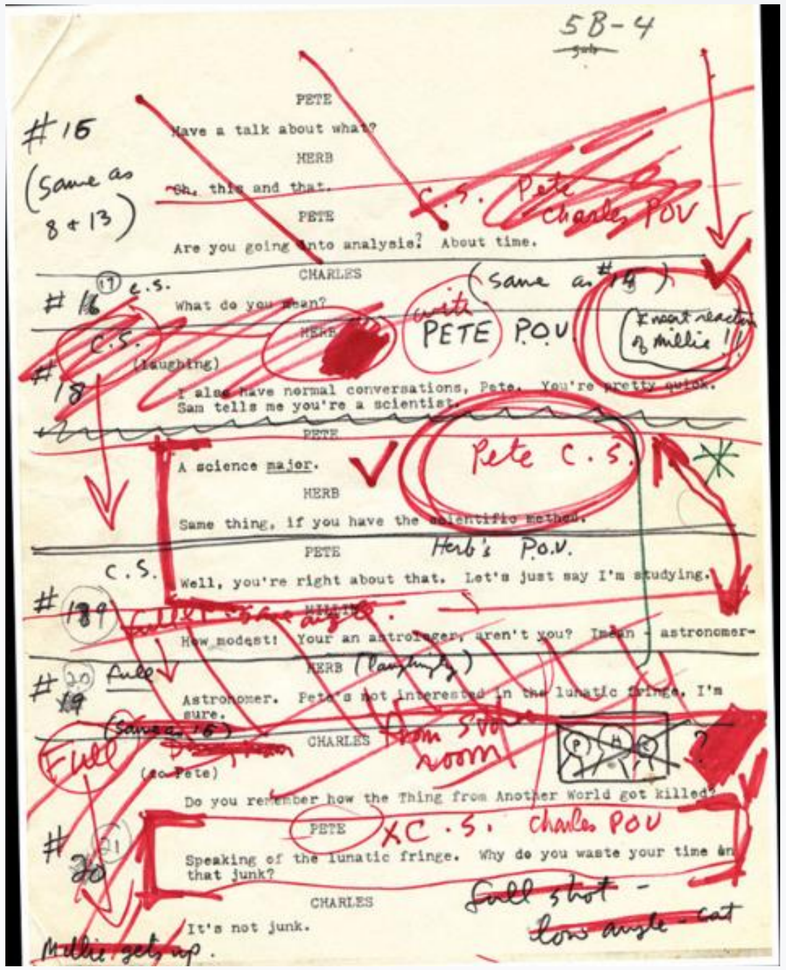

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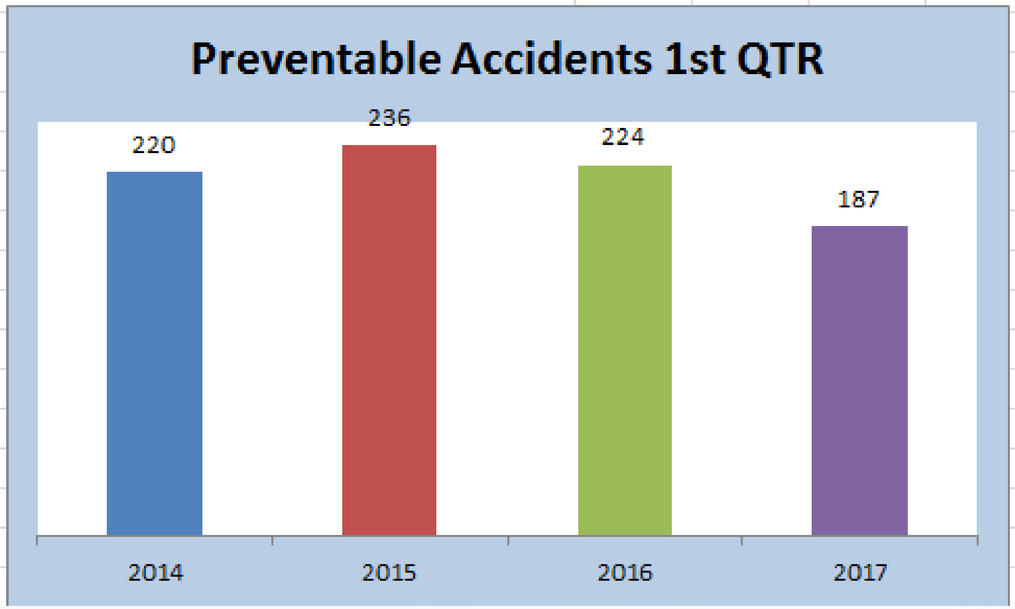

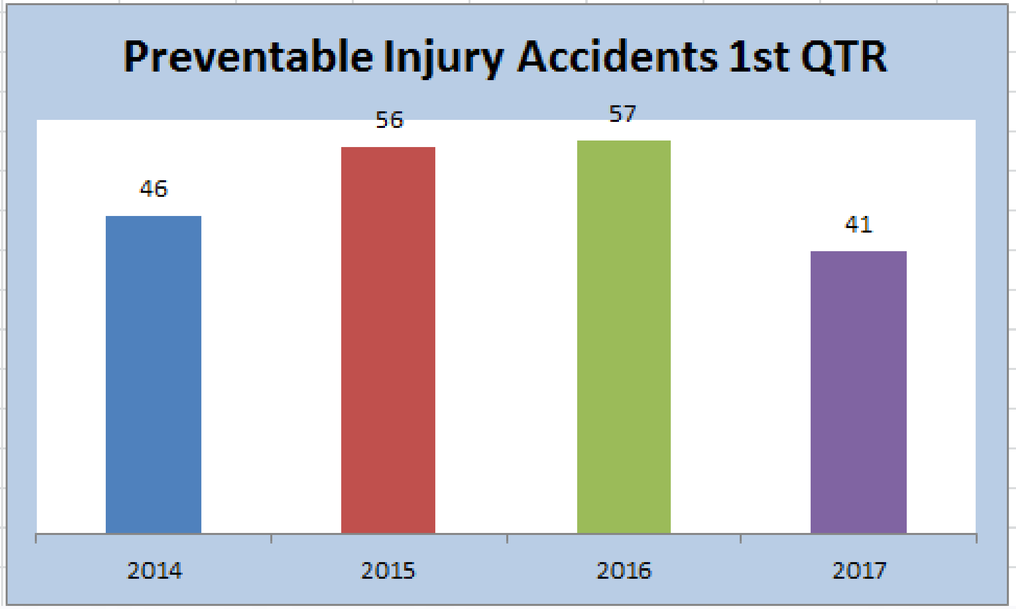

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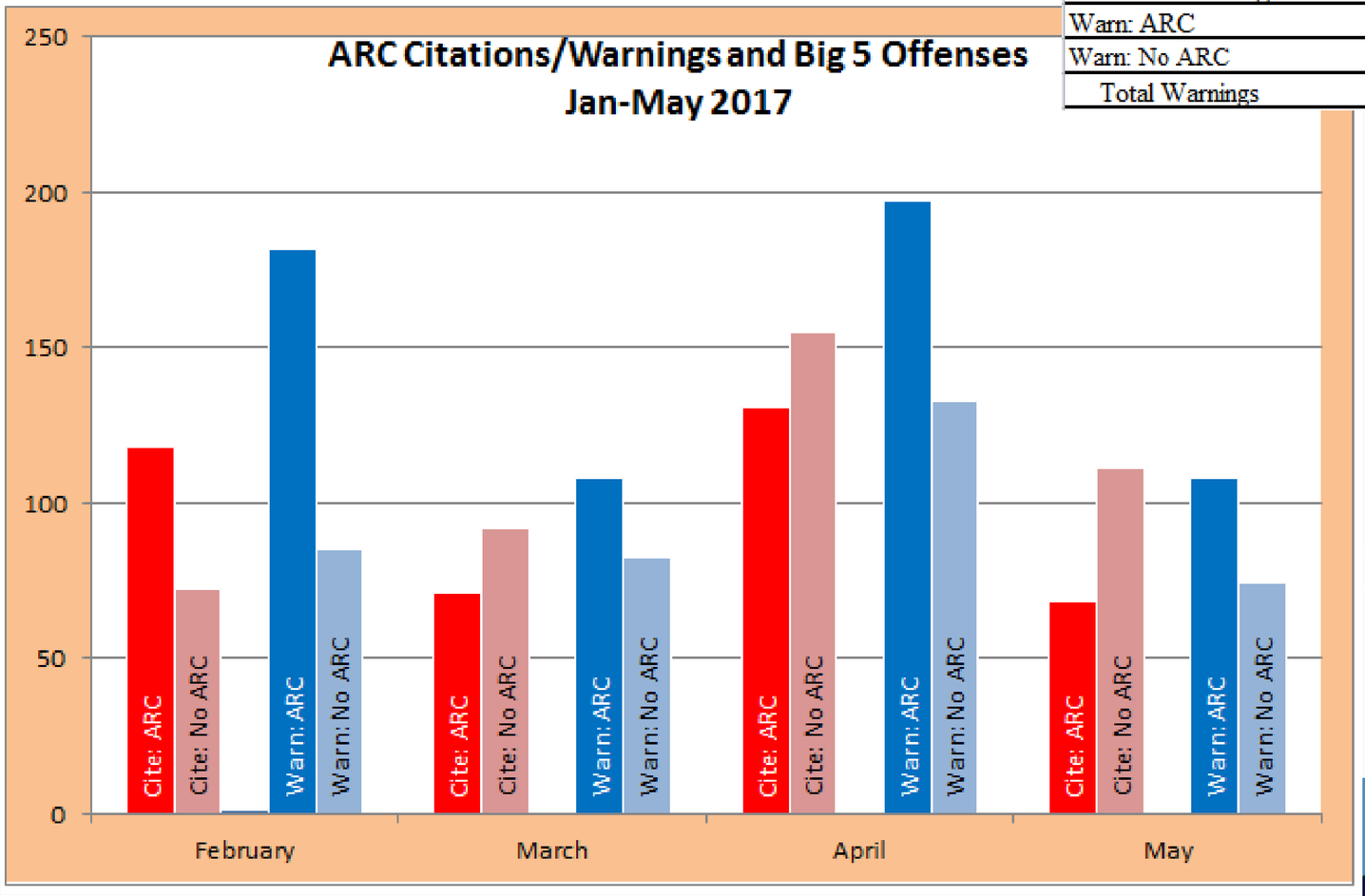
Warn: No ARC	N/A	85	82	133	74	374	38.6%
Total Warnings	N/A	267	190	330	182	969	



RILEY COUNTY POLICE DEPARTMENT

To reduce crime and improve the quality of life for the citizens we serve

STUDY RESULTS

- Dr. Williams

RILEY COUNTY POLICE DEPARTMENT
To reduce crime and improve the quality of life for the citizens we serve

LESSONS LEARNED

- QC measures were created well after training (very complicated)
  - Video review by supervisors
- No reminders (cheat sheets) after training
- Officers keenly interested in accident data and study construction.
- A small number of officers regularly wrote ARC citations and a small group did not.

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LEARNING OBJECTIVES

- What led RCPD/KSU down the path to PJ?
- What is Procedural Justice (PJ)?
- How was PJ applied to a traffic safety initiative called Operation ARC?
- How were officers trained for this initiative?
- What were the preliminary results of the initiative?

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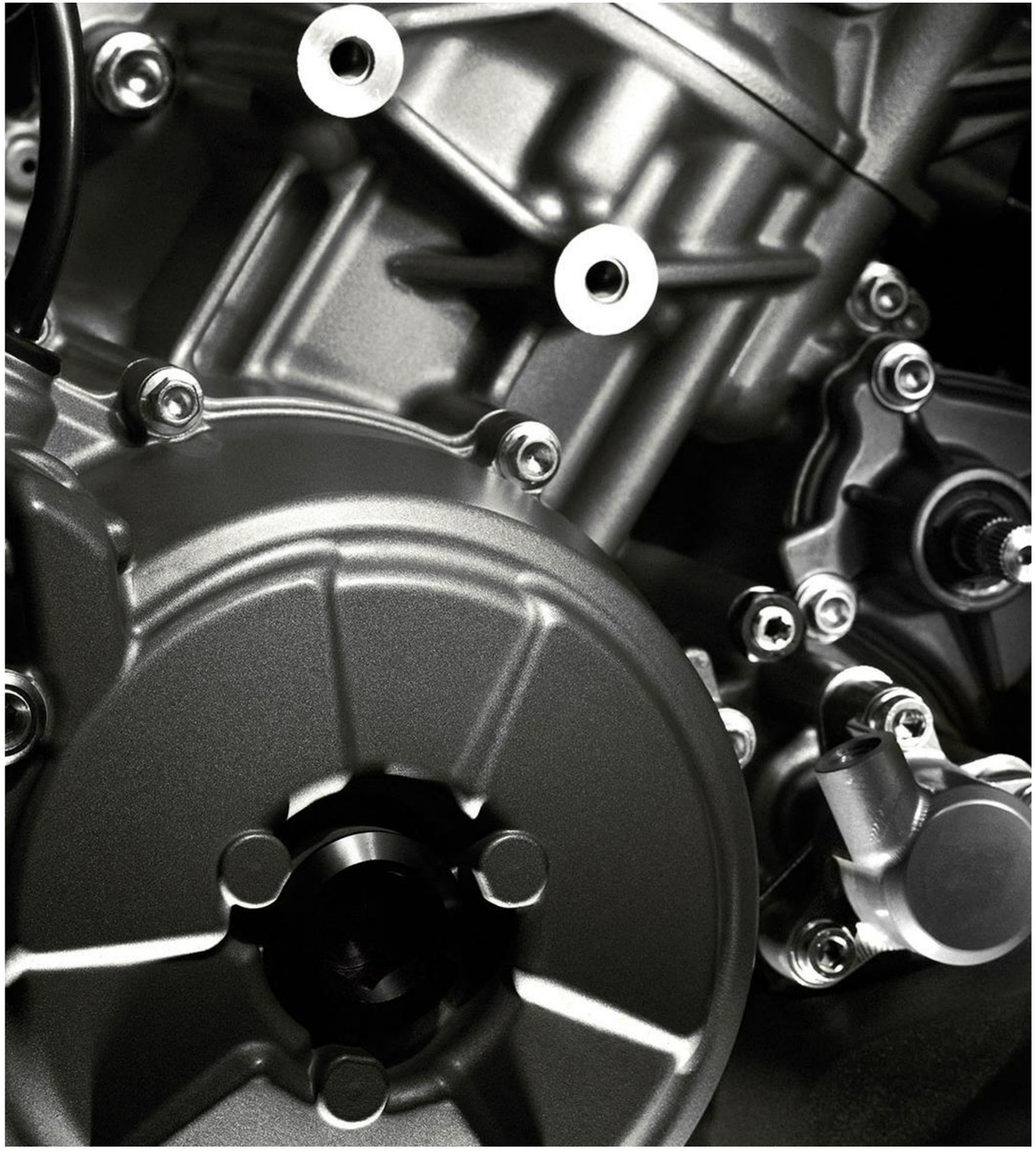

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ELECTRONICALLY
CONTROLLED

RILEY COUNTY POLICE DEPARTMENT

To reduce crime and improve the quality of life for the citizens we serve

RILEY COUNTY
POLICE DEPARTMENT

To reduce crime and improve the quality of life for the citizens we serve

“Type a quote here.”

–Johnny Appleseed

ARC: RESEARCH & RESULTS

L. SUSAN WILLIAMS, PI
LORENZA LOCKETT, JOHN GRUBE
KANSAS STATE UNIVERSITY

Separate Pre-Post Non-Equivalence:

A Quasi-Experimental Design in Procedural Justice

T-1	T	T+1
Pretest		Post-test
Traffic Stops		ARC Traffic Stops
$N_{warnings}$ (r)		$N_{warnings}$ (r)
	X	
	PJ officer training	
$N_{citations}$ (r)		$N_{citations}$ (r)
$N_{service}$ (r)		$N_{service}$ (r)

PRETEST DATA

Pretest Qualitative Focus Groups

- Underrepresented groups (voice)
- Worthwhile policing (trustworthiness)
- Potential bias (neutrality)
- Comportment (respect)

Measurement - Quantitative

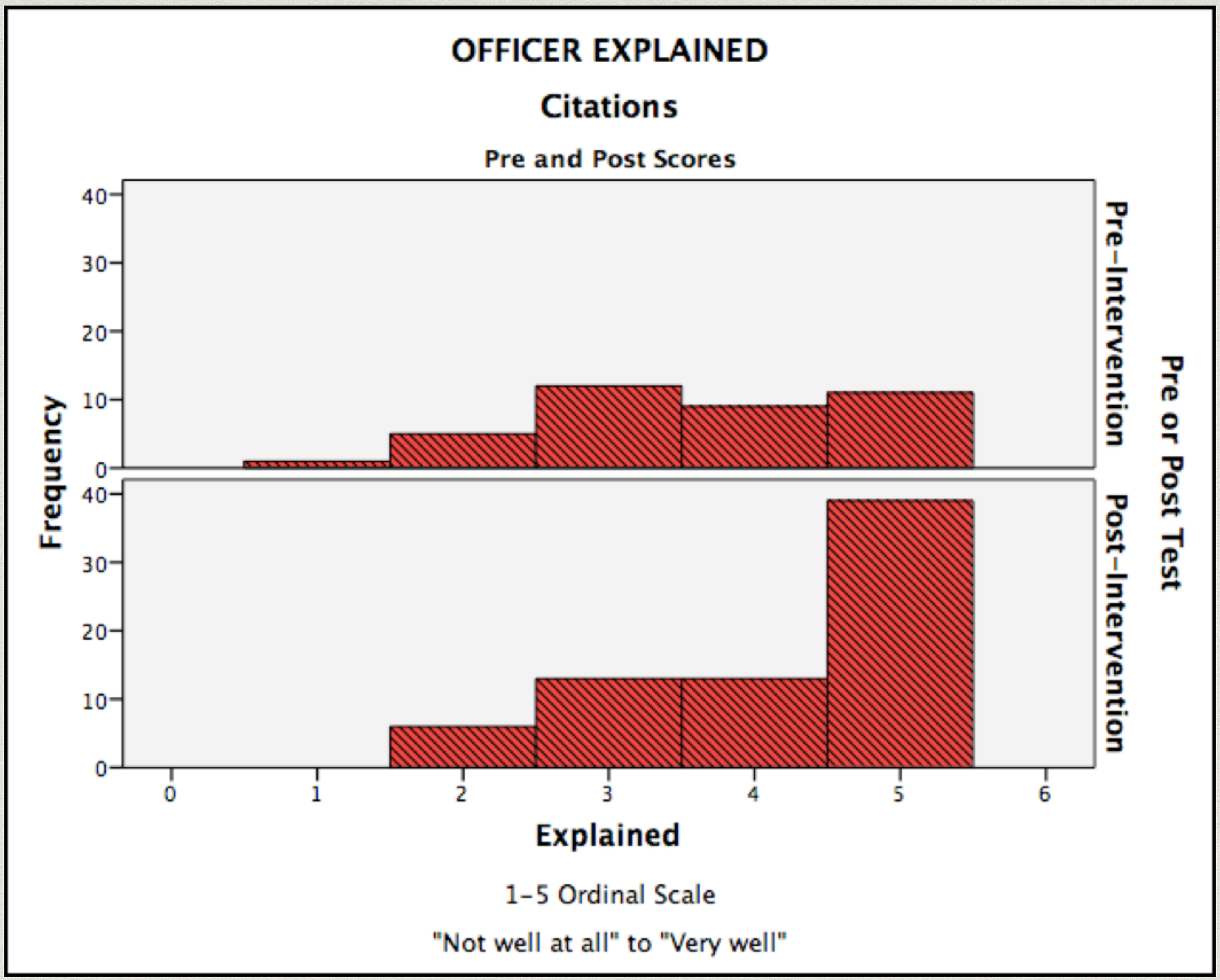
- Citizen perception of officer performance
  - Listened; Explained; Demeanor
- Citizen perception of targeting behavior by RCPD)
  - Looks1, Looks2, Neighborhood
- Citizen perception of RCPD community contributions
  - Equal; QOL; Dignity & Respect

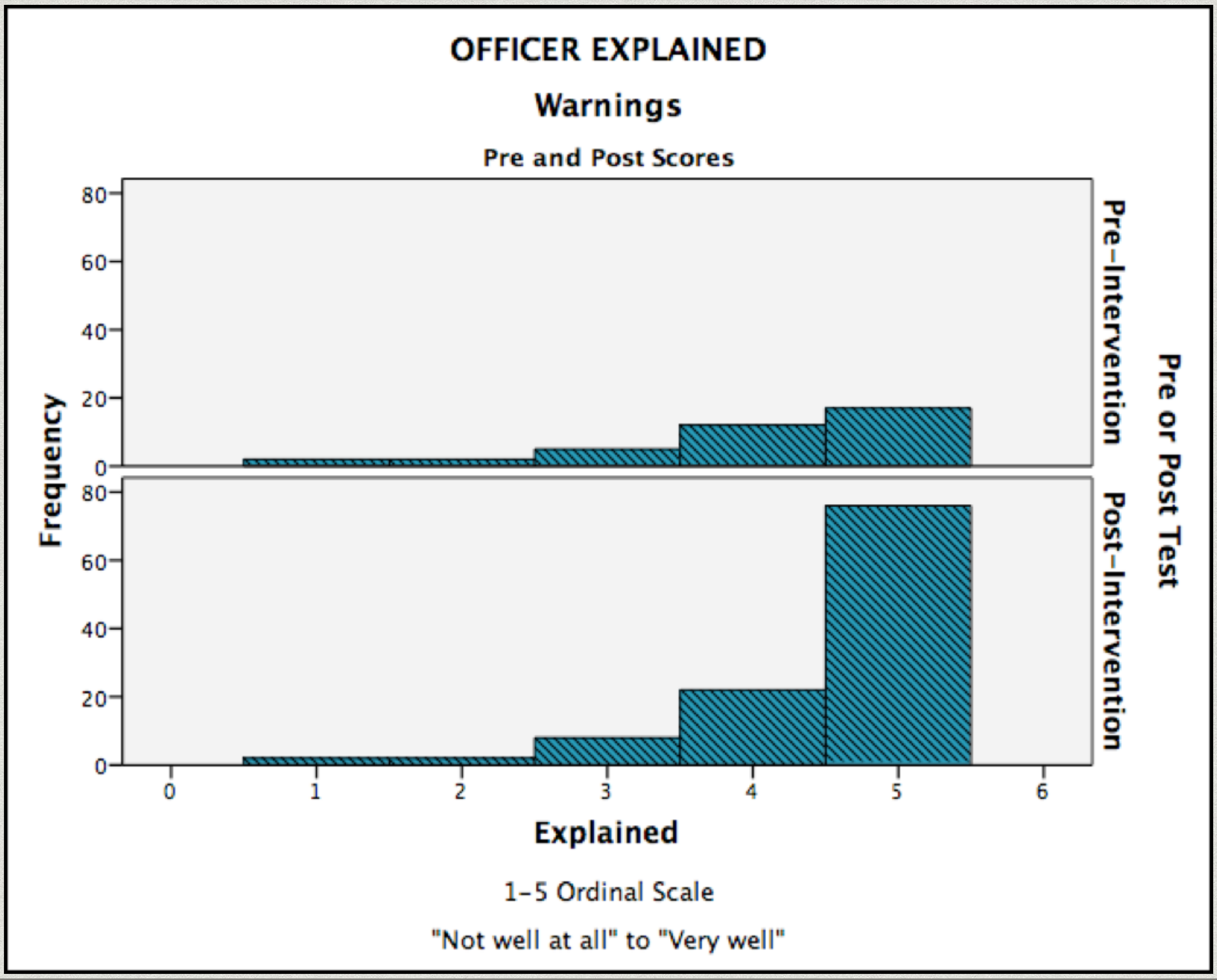
ARC definitions

- ARC violations are based on statutes corresponding with the BIG 5
  - DUI
  - Speeding
  - Failure to stop/yield
  - Inattentive driving
  - Tailgating

- ARC stops must meet the following criteria:
  - Occurs after procedural justice training
  - Based on one of the ARC traffic violations (Big 5)
  - Officer follows designated ARC training and script
  - Results in either citation or warning

POST-TEST AND ANALYSIS


OFFICER EXPLAINED
Citations
Pre and Post Scores
Frequency
40
30
20
10
0
Pre-Intervention
Pre or Post Test
Post-Intervention
0
1
2
3
4
5
6
Explained
1-5 Ordinal Scale
"Not well at all" to "Very well"


OFFICER EXPLAINED
Warnings
Pre and Post Scores
Frequency
80
60
40
20
0
Pre-Intervention
Pre or Post Test
Post-Intervention
0
1
2
3
4
5
6
Explained
1-5 Ordinal Scale
"Not well at all" to "Very well"

Change: Citizen perception of officer performance, by citations and warnings

	Post Citations	Change Citations	Post Warnings	Change Warnings
Listened	3.75 n=71	0.658*	4.16* n=111	0.136
Explained	4.20 n=71	0.566*	4.53 n=110	0.475*
Demeanor	4.07 n=71	0.728**	4.44* n=109	0.388*.058*

Change: Citizen perception of targeting behavior, by citations and warnings

	Post Citations	Change Citations	Post Warnings	Change Warnings
Looks1	2.30 n=69	0.380	2.10 n=103	0.031
Looks2	2.31 n=70	0.186	2.23 n=103	0.177
Neighbor-hood	2.74 n=69	0.314	2.75 n=102	0.075

Change: Citizen perception of RCPD Community Contributions, by citations and warnings

	Post Citations	Change Citations	Post Warnings	Change Warnings
Equal	3.58 n=69	0.426.054	3.65 n=103	0.519**
QOL	3.86 n=69	-0.017	4.23 n=102	0.251.053
Dignity & Respect	4.04 n=69	0.274	4.25 n=102	0.537**

MWU results: Change in distribution of officer performance measures

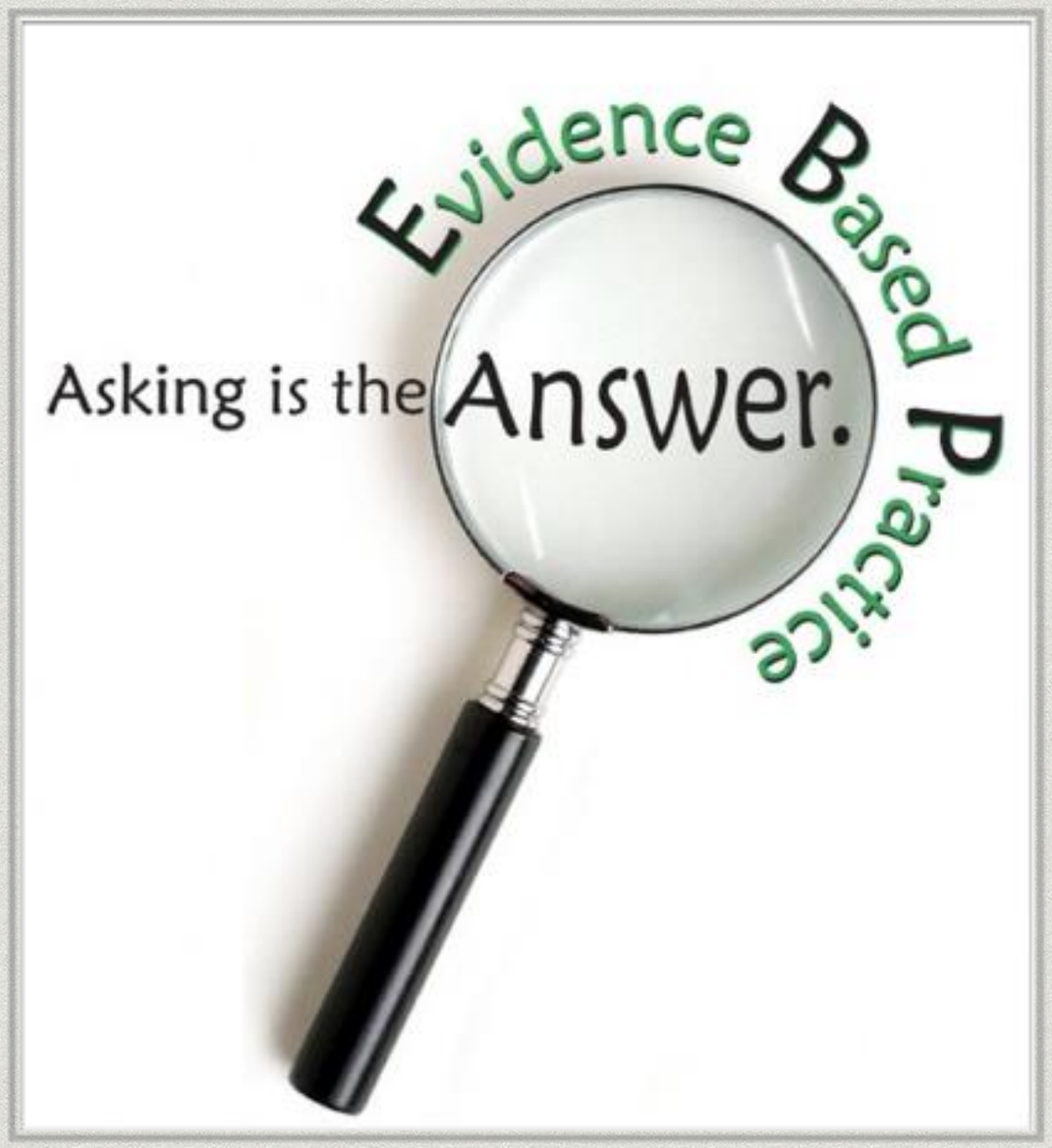
	Citations	Warnings
Listened	★	
Explained	★	★
Demeanor	★	

Summary

- Direct support for procedural justice training and implementation, especially for officer performance
- Support is strongest in situations directly related to training
- Citizens surveyed remain relatively positive in general assessments of police, but ambivalent about intent.
- Partial support for PJ postulate of process versus outcome

Limitations

- Lacks true experimental design elements
- Near exclusion of underrepresented groups
- Lack of non-urban cultural measures and comparative studies
- Lack of direct causal effect measures on citizen behavior



IMPLICATIONS: FOCUS GROUPS

- Involves community and potentially builds trust
- Reveals voices often masked
- “…represents the heart of what some have called community-led policing”

IMPLICATIONS: SCRIPT BUILDING

- Involves officers in proactive communication with community
- Can be incorporated into any police initiative

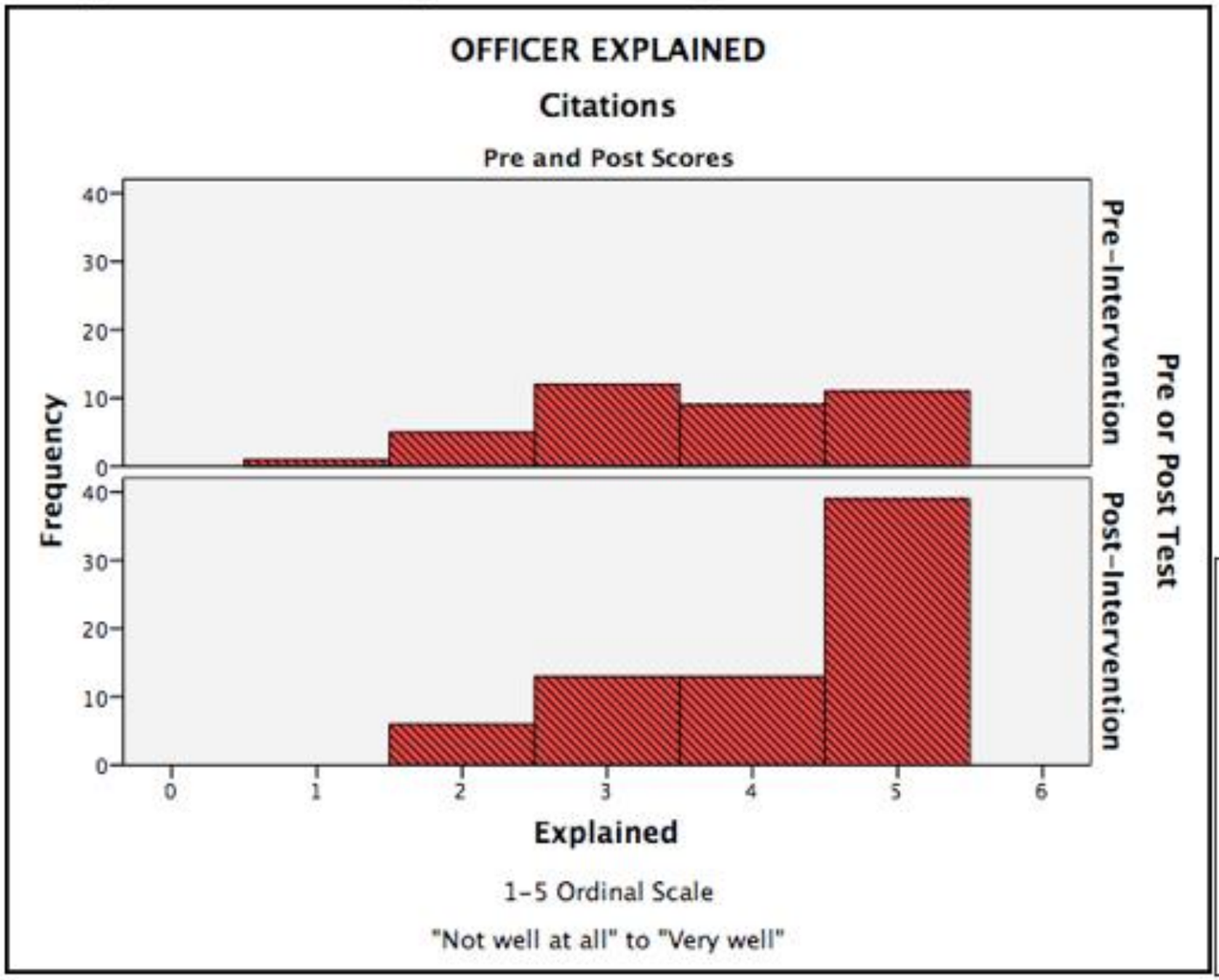
The Vision

- Citizens working with the police to determine how their community is to be policed, and officers creating ways to convey this message to those they encounter

THANK YOU!

L. SUSAN WILLIAMS
LSWILLI@KSU.EDU

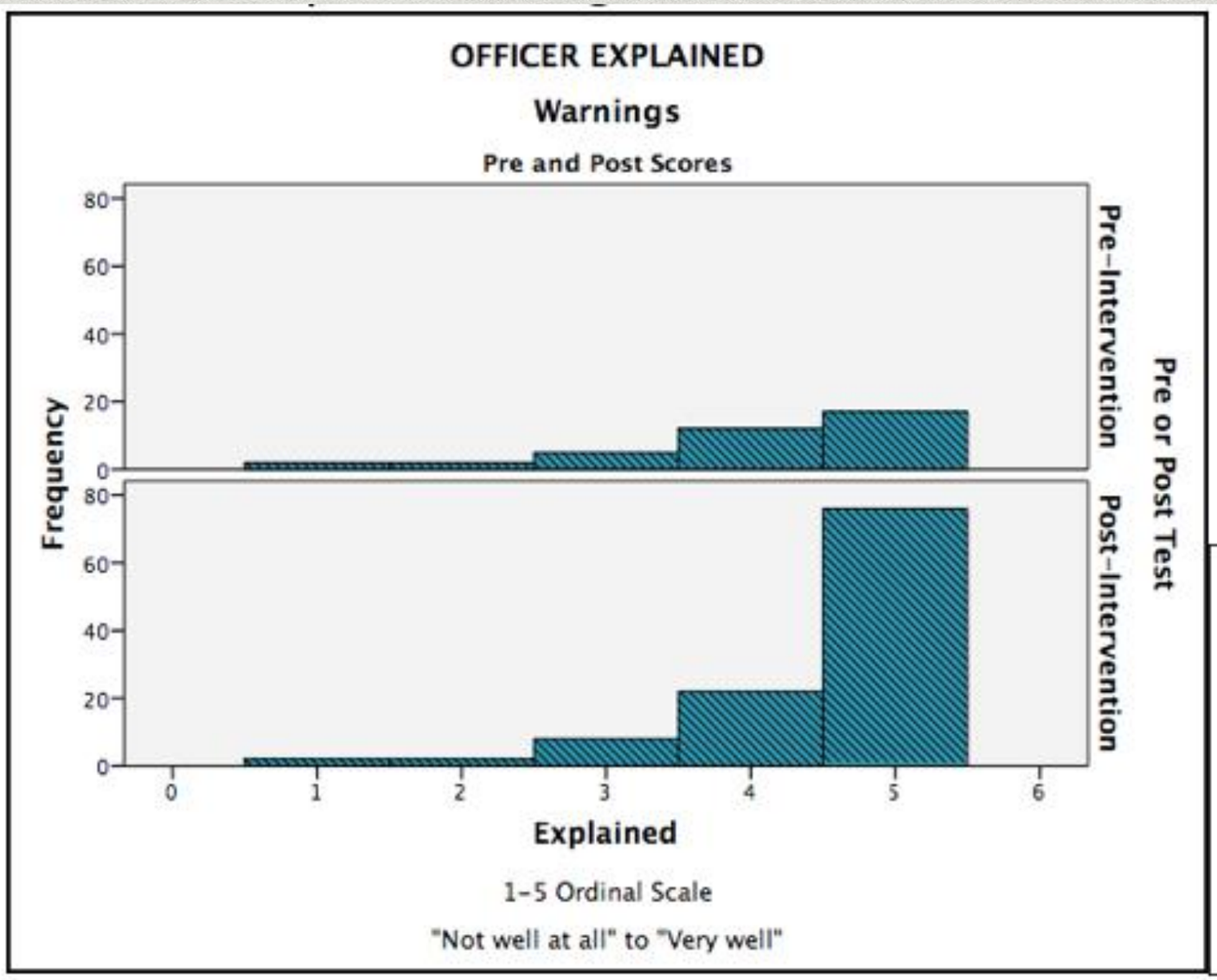
EXAMPLE: MANN-WHITNEY U-TEST



Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The medians of Explained are the same across categories of Pre or Post Test.	Independent-Samples Median Test	.017	Reject the null hypothesis.
2	The distribution of Explained is the same across categories of Pre or Post Test.	Independent-Samples Mann-Whitney U Test	.009	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

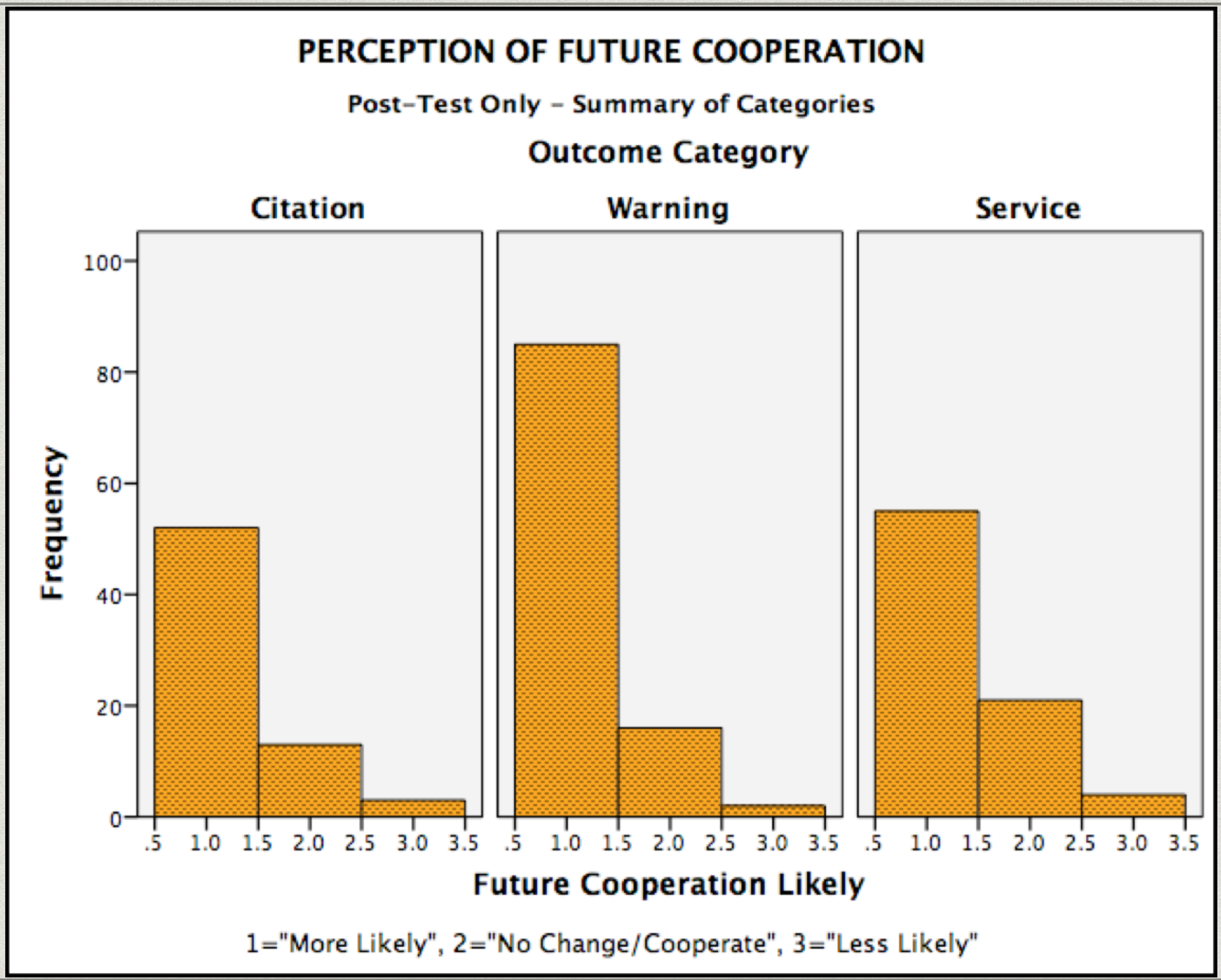


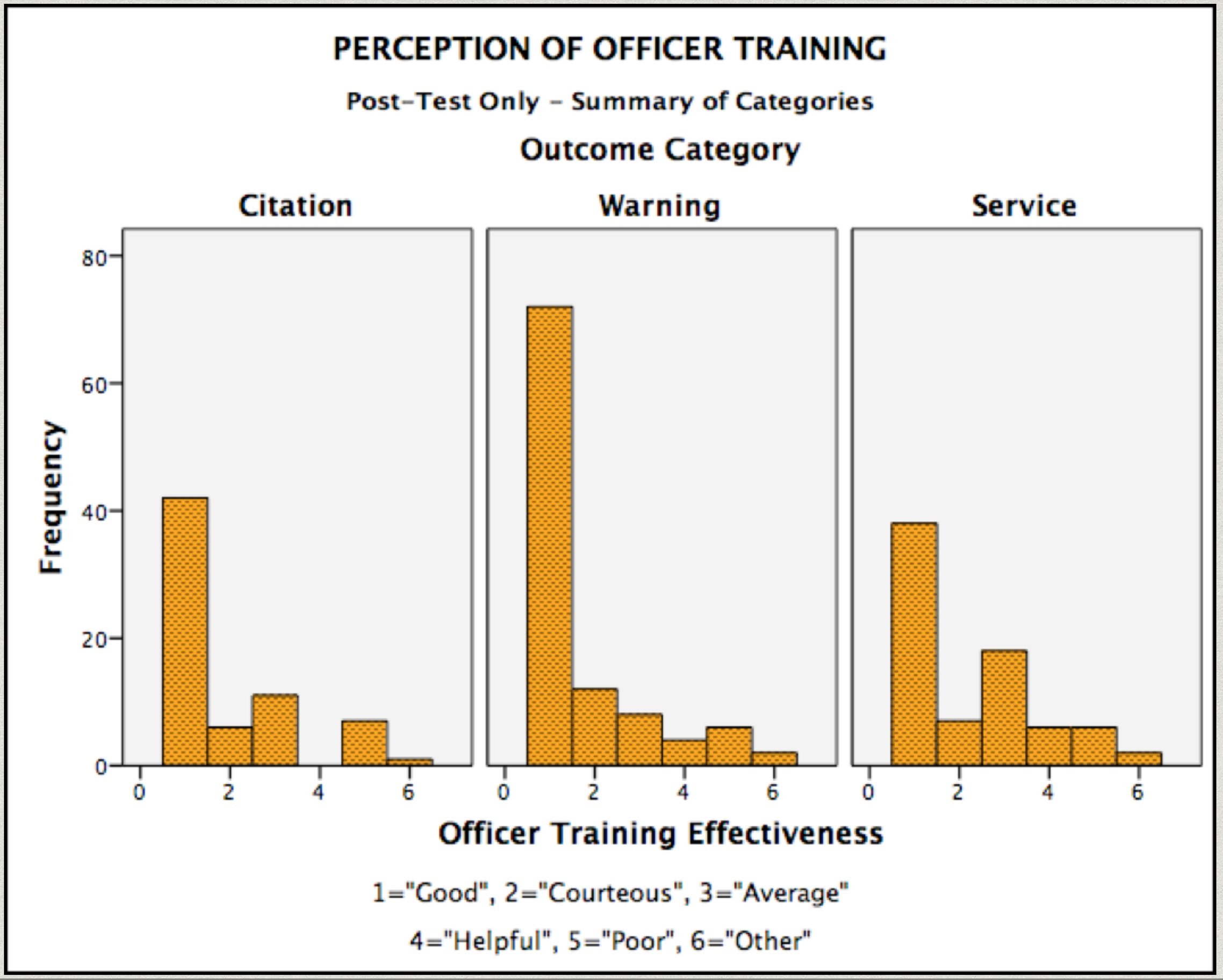
Hypothesis Test Summary

	Null Hypothesis	Test	Sig.	Decision
1	The medians of Explained are the same across categories of Pre or Post Test.	Independent-Samples Median Test	.	Unable to compute.
2	The distribution of Explained is the same across categories of Pre or Post Test.	Independent-Samples Mann-Whitney U Test	.006	Reject the null hypothesis.

Asymptotic significances are displayed. The significance level is .05.

PERCEPTION OF ARC EFFECTIVENESS


PERCEPTION OF FUTURE COOPERATION
Post-Test Only - Summary of Categories
Outcome Category
Citation
Warning
Service
Frequency
100
80
60
40
20
0
.5
1.0
1.5
2.0
2.5
3.0
3.5
Future Cooperation Likely
1="More Likely", 2="No Change/Cooperate", 3="Less Likely"


PERCEPTION OF OFFICER TRAINING
Post-Test Only - Summary of Categories
Outcome Category
Citation
Warning
Service
Frequency
80
60
40
20
0
0
2
4
6
Officer Training Effectiveness
1="Good", 2="Courteous", 3="Average"
4="Helpful", 5="Poor", 6="Other"

PERCEPTION OF ARC: RCPD WANTS MORE CITATIONS

Post-Test Only

Outcome Category

Citation | Warning | Service

Frequency

40
30
20
10
0

0 1 2 3 4 5 6

Public Perception of RCPD Goals

1-5 Ordinal Scale

"Strongly Disagree" to "Strongly Agree"