

OSBI

Forensic Toxicology Unit

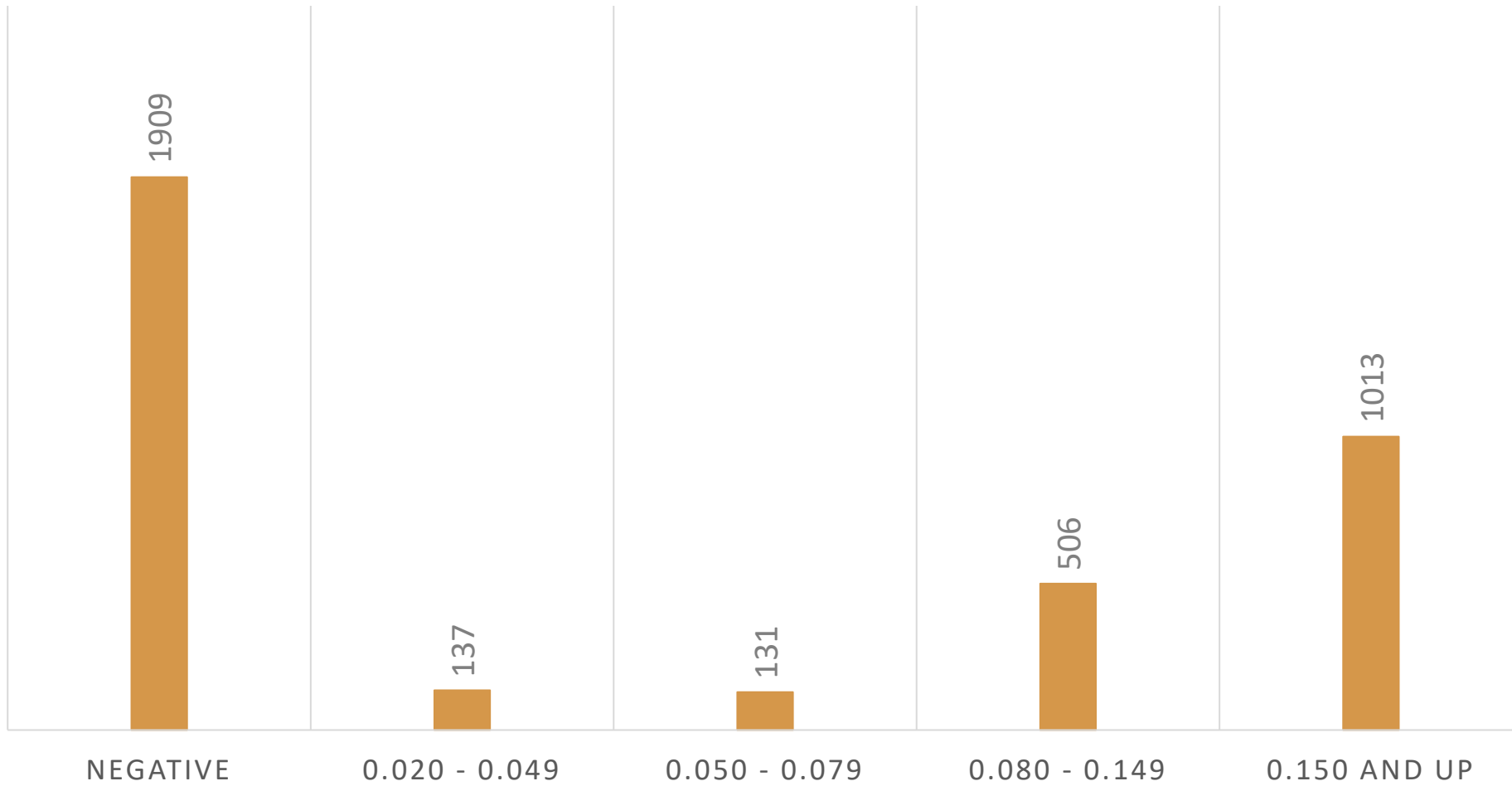


Garry Metcalfe | Melissa Cavazos,
Criminalist Supervisors





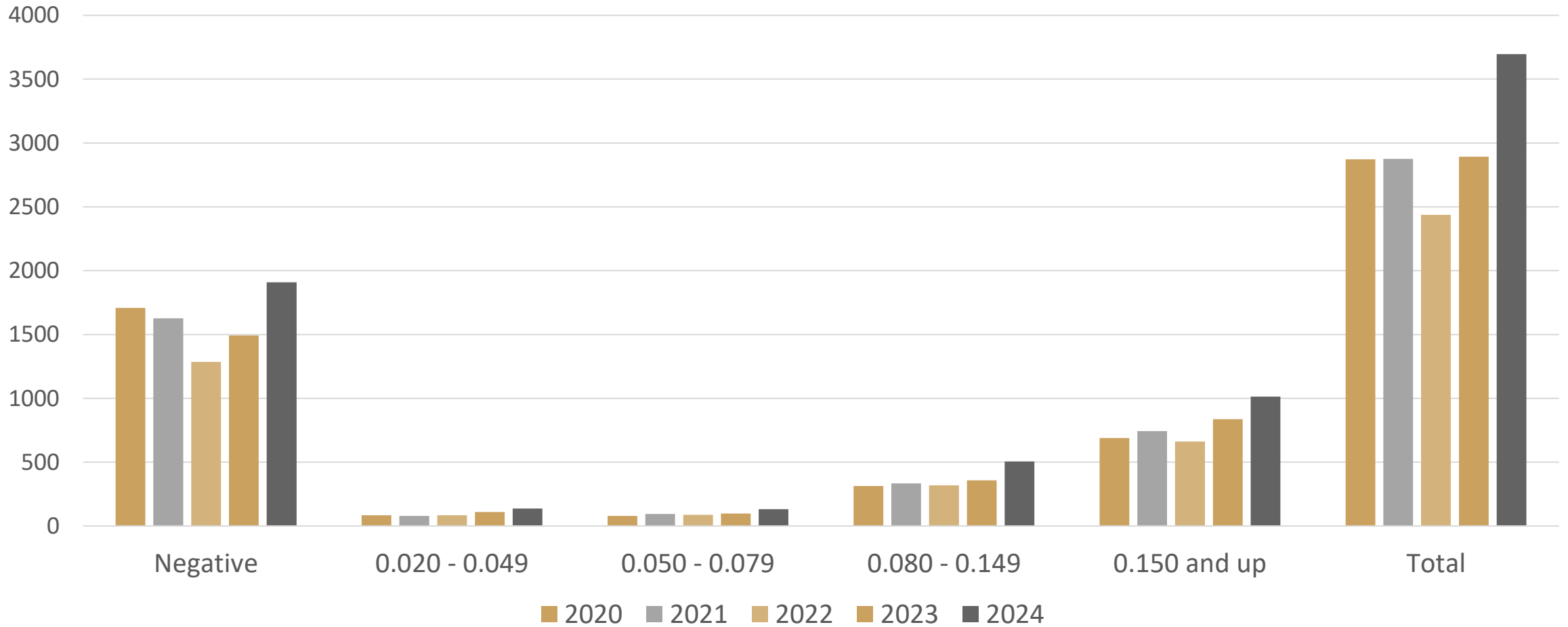
2024 DUI Results (g/100mL)





BAC Levels Reported Over Five Years

(g/100mL)





Dubowski's Seven Stages of Alcohol Influence in Blood

Blood	Stage of alcohol influence	Clinical signs/symptoms
0.01–0.05	Sobriety	Behavior nearly normal by ordinary observation.
0.03–0.12	Euphoria	Increased self-confidence, decreased inhibitions.
0.09–0.25	Excitement	Impairment of memory and comprehension.
0.18–0.30	Confusion	Impaired balance, muscular incoordination; staggering gait; slurred speech.
0.27–0.40	Stupor	Marked muscular incoordination; inability to stand or walk.
0.35–0.50	Coma	Complete unconsciousness; coma; anesthesia.
0.45+	Death	Death from respiratory paralysis.



Article: The Effectiveness of a 0.05 Blood Alcohol Concentration (BAC) Limit for Driving in the United States.

- Crash Risk at 0.05 BAC
- Impairment at 0.05 BAC
- Impact of 0.05 BAC
- Effectiveness of Lowering BAC Limit



Article: The Effectiveness of a 0.05 blood Alcohol Concentration (BAC) Limit For Driving in the United States.

- International BAC Limits
- Public Support
- Law Enforcement Support
- Scientific and Safety Organization Support



Article: Another Major Reason to Lower the Blood Alcohol Concentration Limit for Driving

- Australia
- 0.05 BAC Countries
- 0.02 BAC Countries



Article: Response to Commentaries on 0.05 Blood Alcohol Concentration (BAC) Limit.

- Heavy Drinkers
- Fatal Crashes
- Current System Works



Article: Laboratory Analysis of Risky Driving at 0.05% and 0.08% BAC

- Alcohol's Impact on Driving
- Effects of Lower BAC Limits
- Limitations of the study



Potential Impacts

- Increase in case submissions
 - Analysts
 - Instruments
 - \$200,000 - \$500,000 each
 - Lab space
 - Toxicology lab space is currently at capacity
 - Supplies/consumables
- Courtroom Testimony



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Questions?



“One Team One Mission”