

# Firearm Gun Violence in Arizona: Data to Inform Prevention



**Tuesday June 6, 2023**

## **49<sup>th</sup> Annual Arizona Rural Health Association Meeting**

**Will Humble, MPH, Executive Director, AzPHA**

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# GUN VIOLENCE IN ARIZONA



DATA TO  
INFORM  
PREVENTION  
POLICIES



Prepared by:

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*Minnesota Department of Health*

May 5, 2023

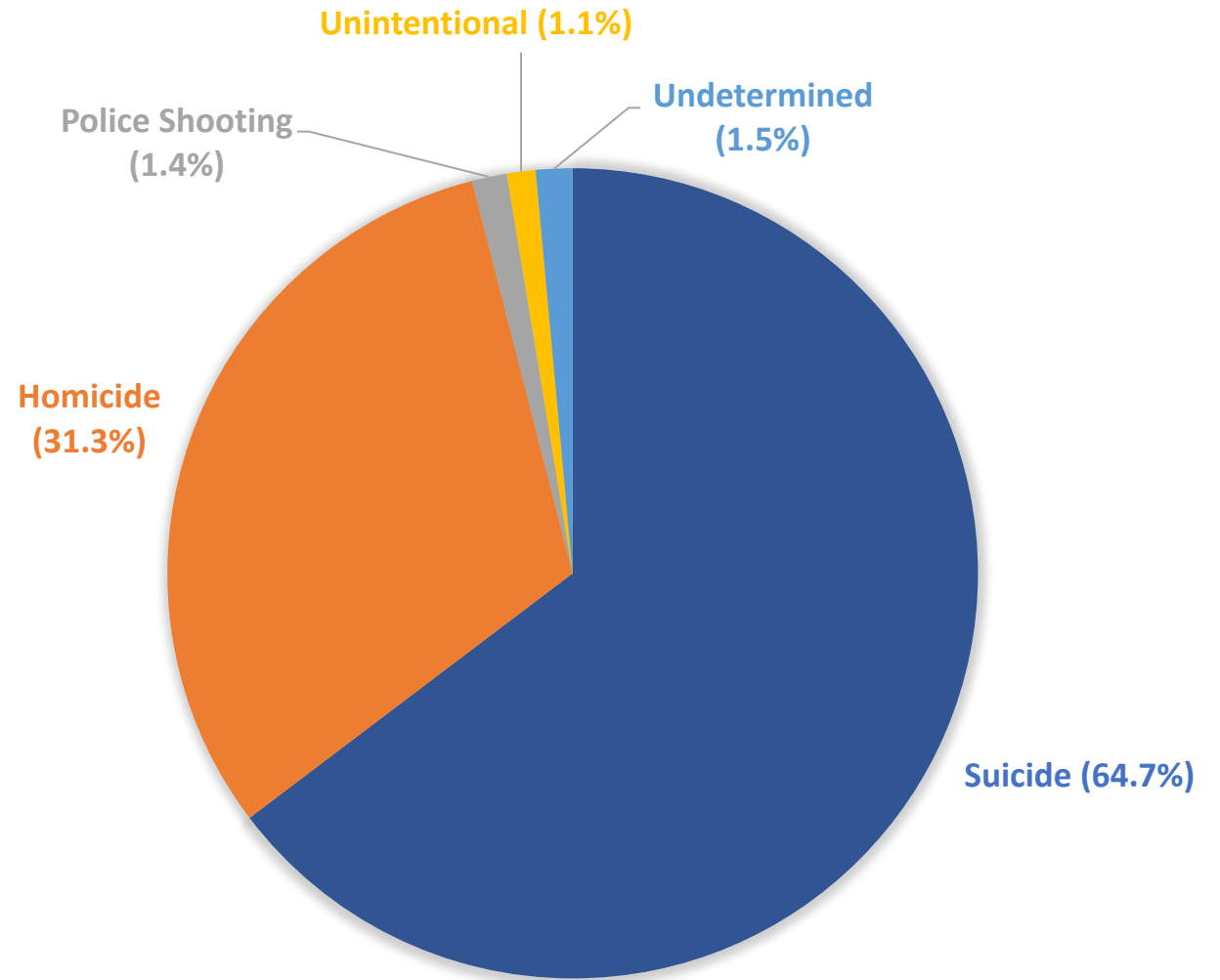
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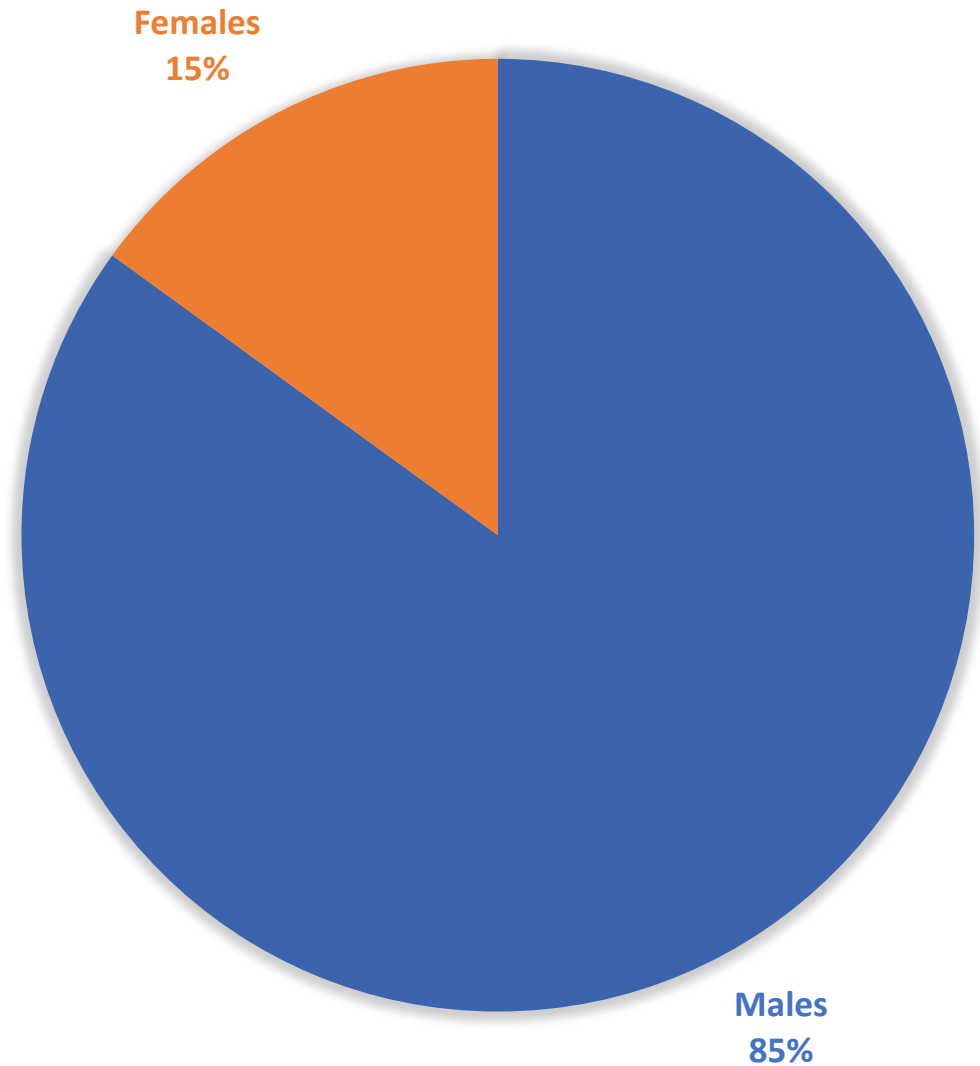


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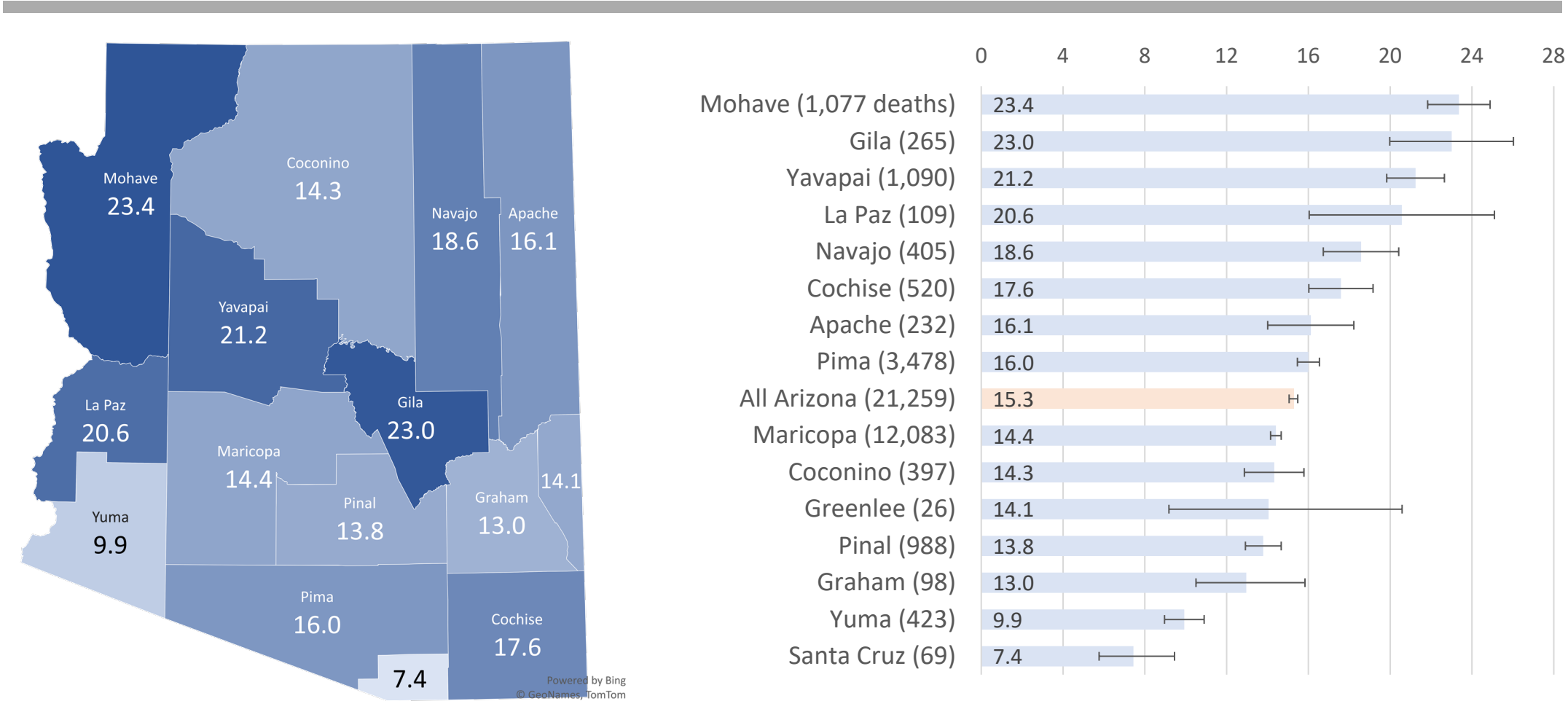
# Percent of Firearm Deaths by Intent, Arizona, 1999-2020



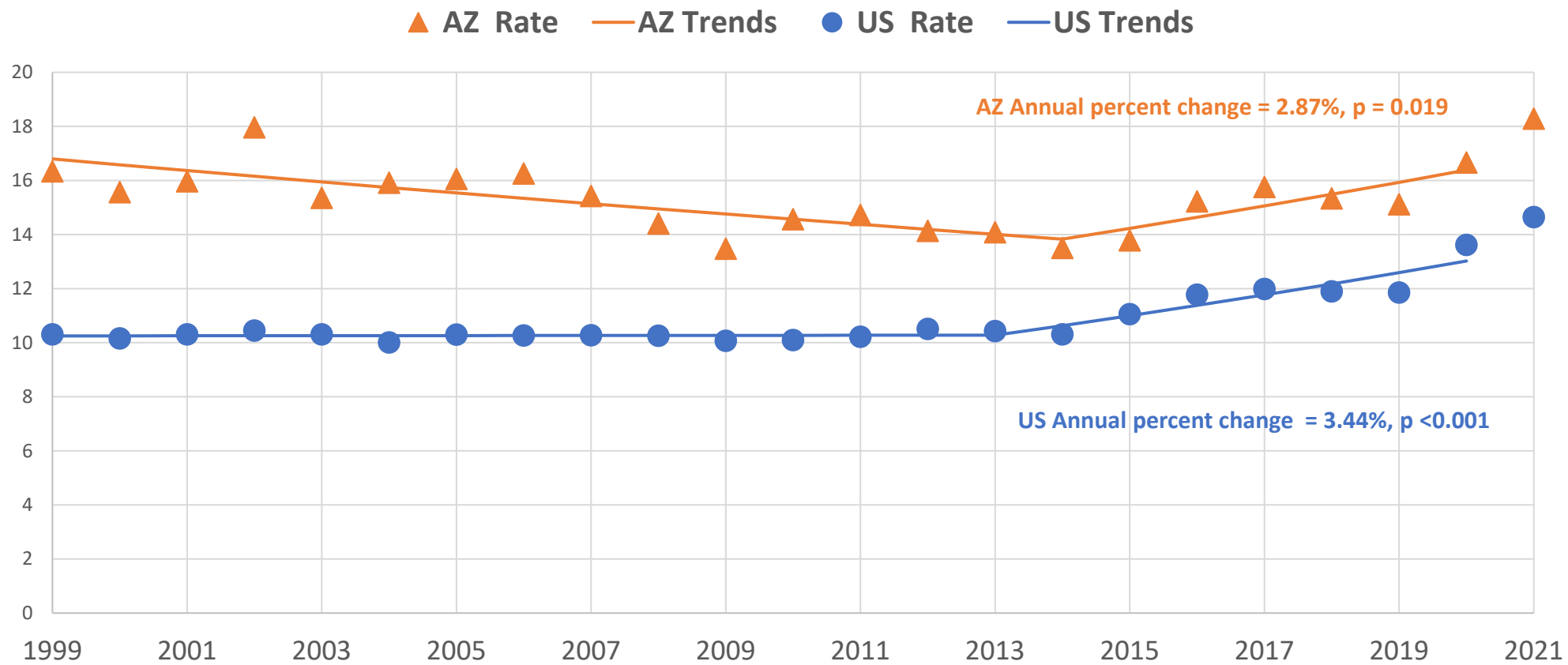
# Total Firearm Deaths by Gender, AZ, 1999-2020



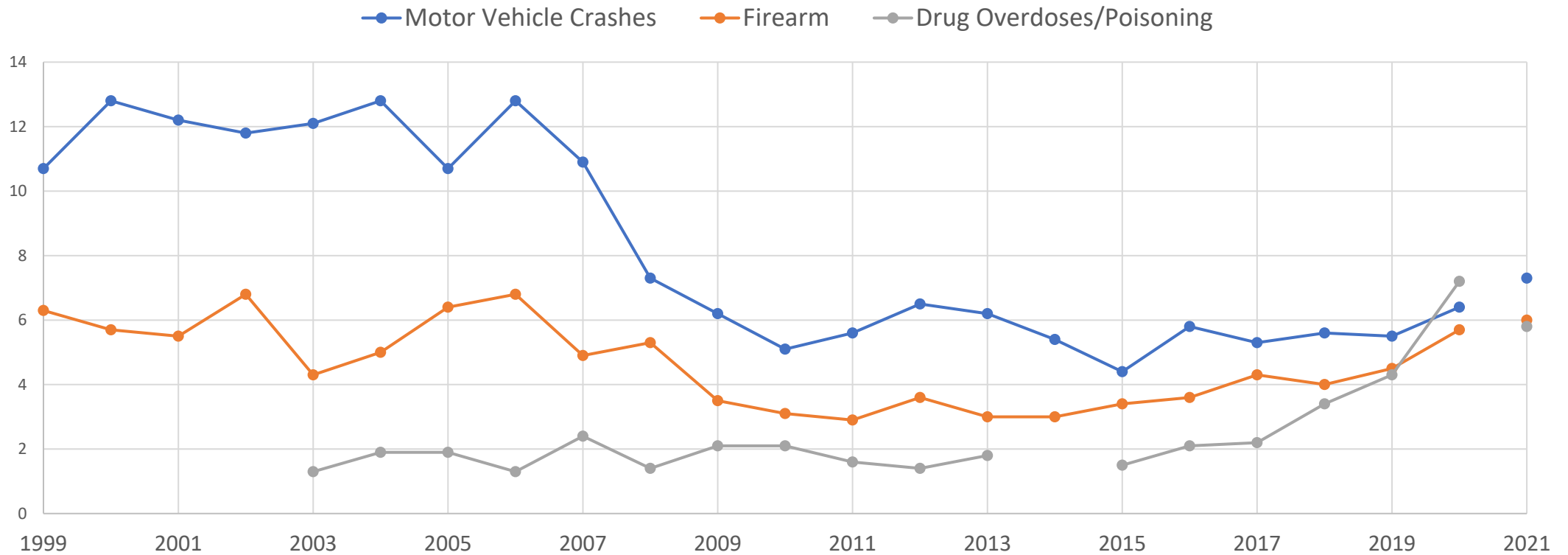
# Numbers & Rates of Total Firearm Deaths per 100,000 by County, 1999-2020



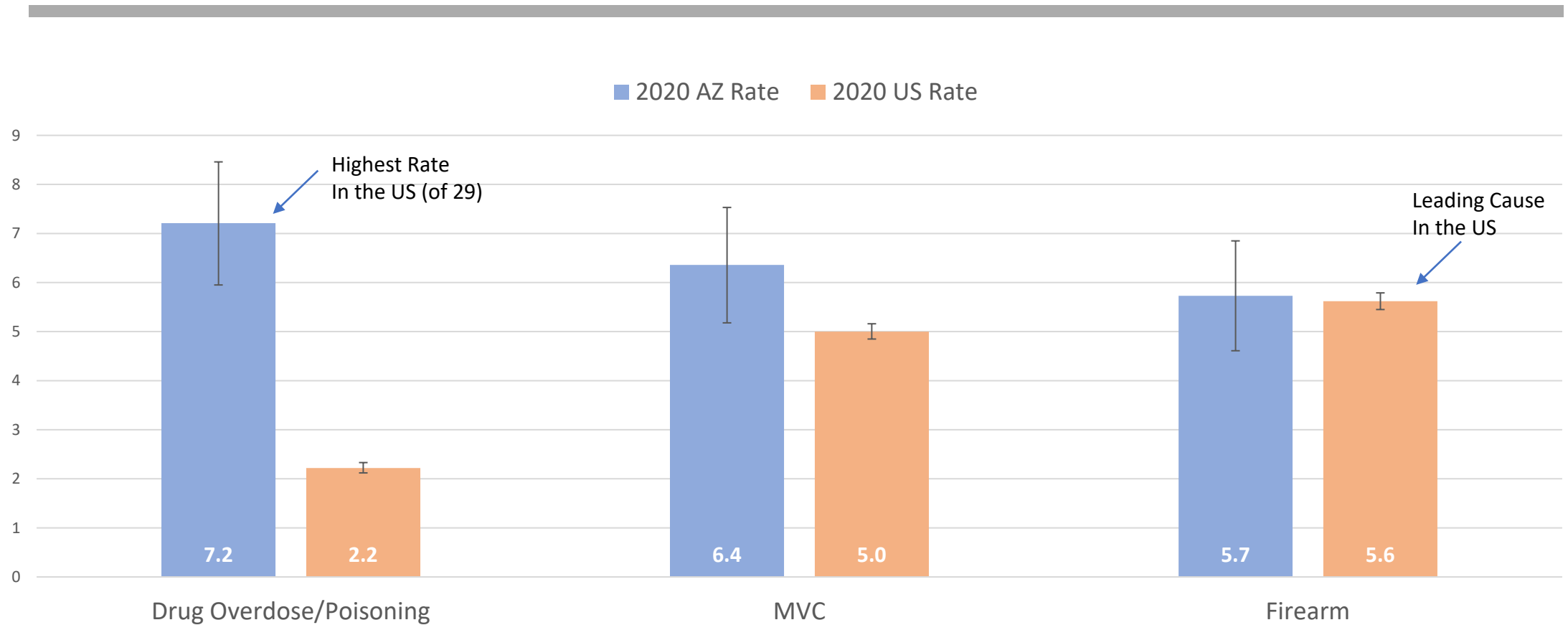
# Age-Adjusted Rates & Trends, Total Firearm Mortality



# Trends – Three Leading Causes of Death, Age 1-19, Arizona



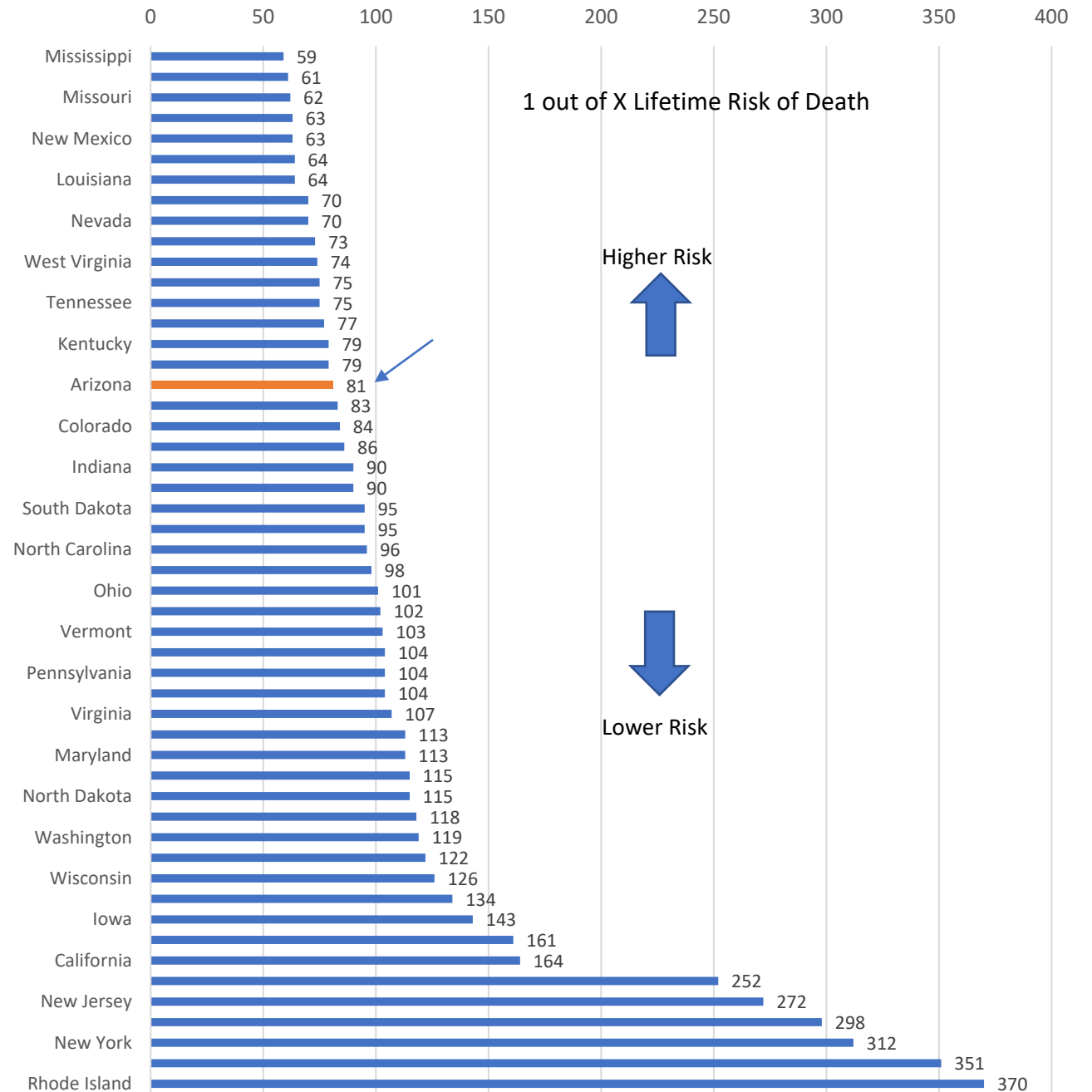
# Three Leading Causes of Death in 2020, Age 1-19, AZ vs US





# Estimated Lifetime Risk of Death by Firearm

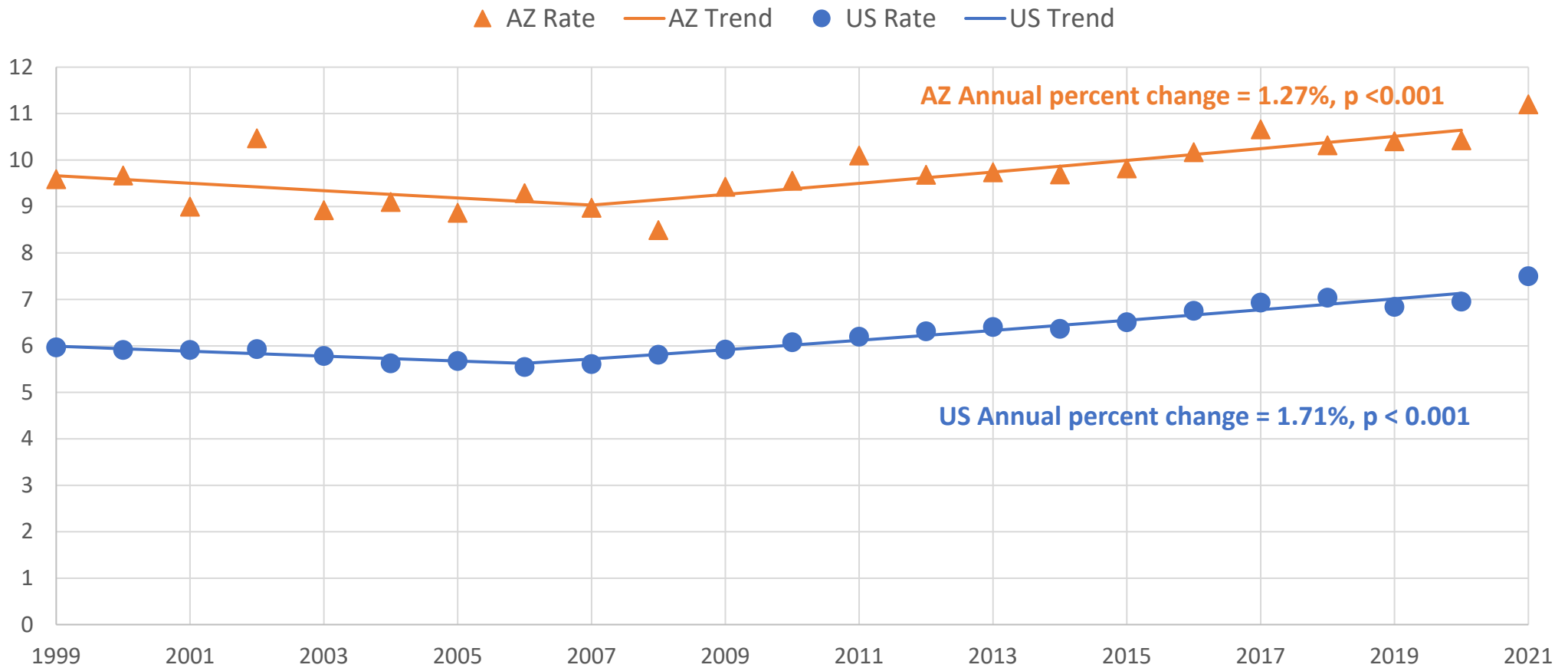
(Sehgal, 2020)



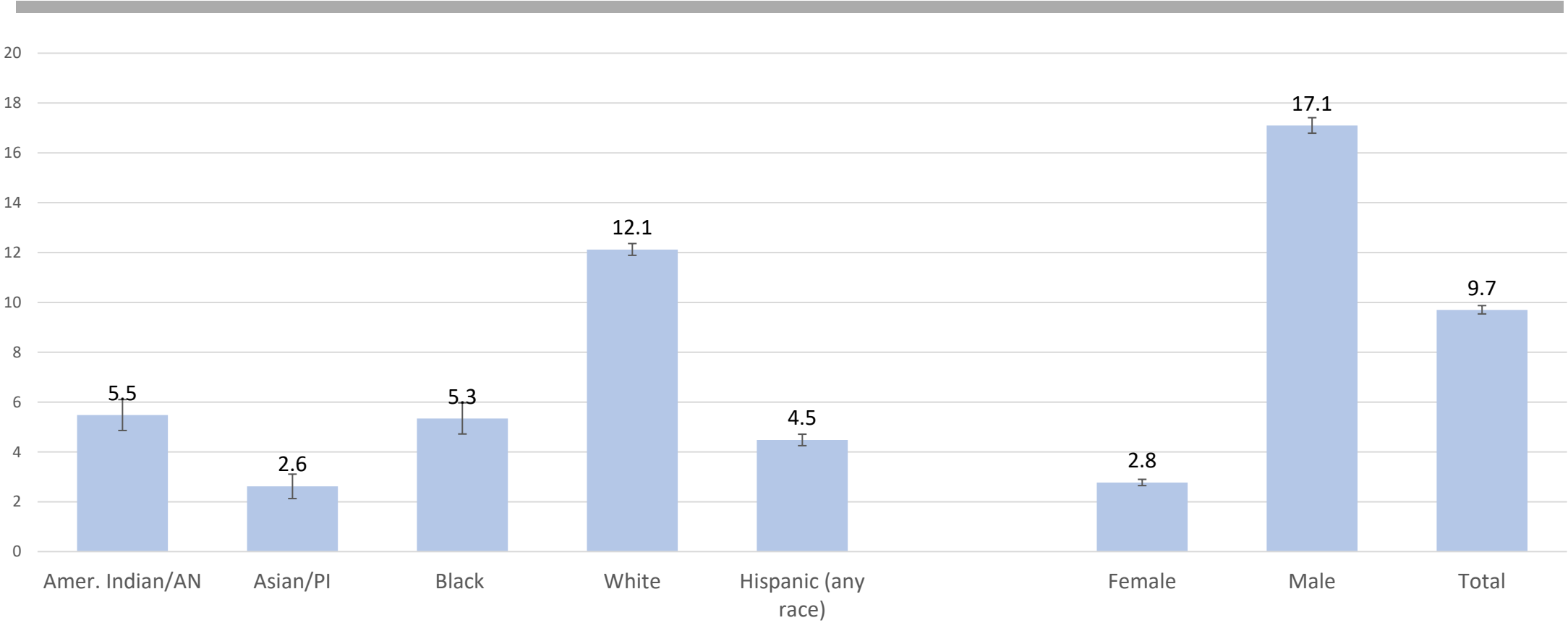
# Firearm Suicides



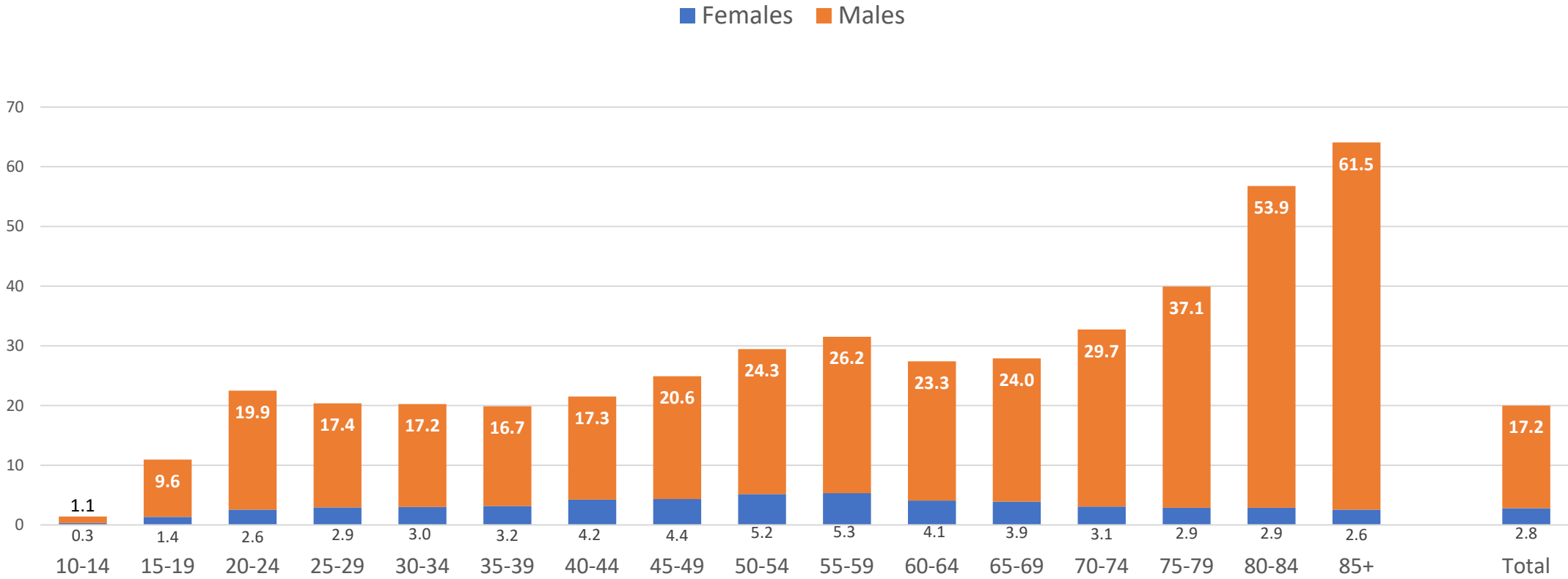
# Rates & Trends of Firearm Suicides, AZ vs US



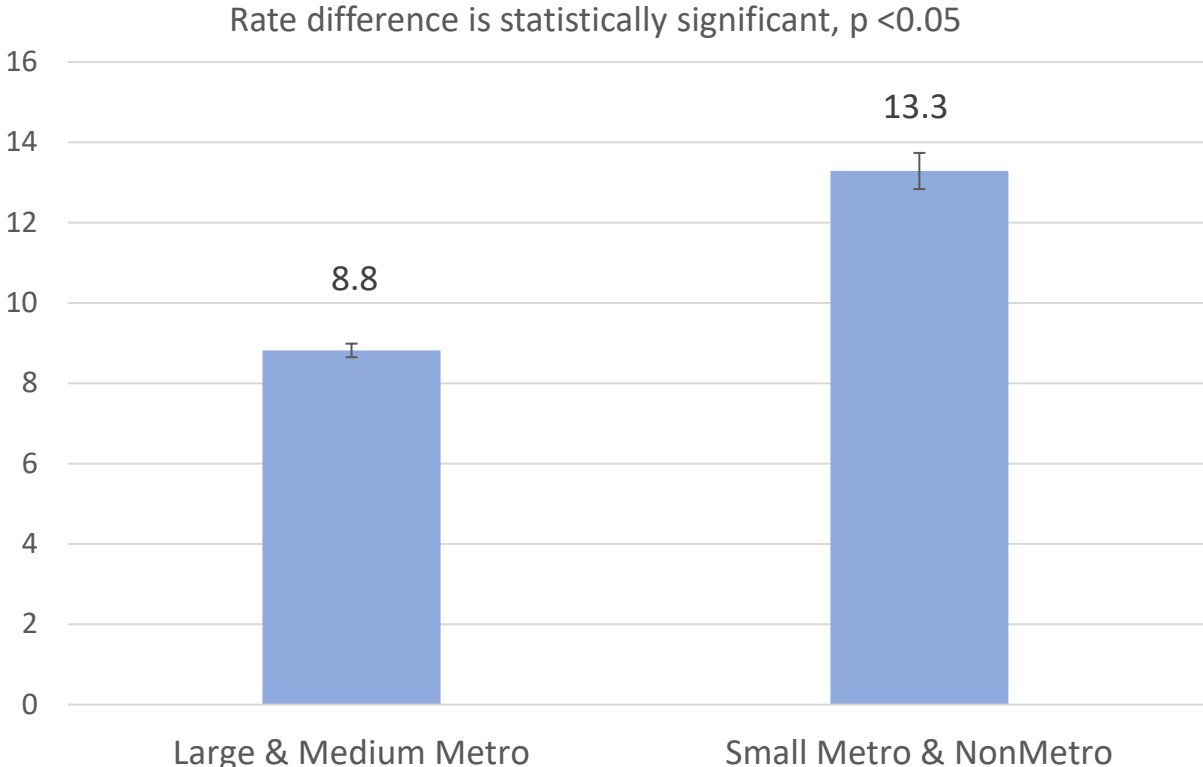
# Firearm Suicide Rates by NH-Race, Ethnicity & Gender, Arizona 1999-2020



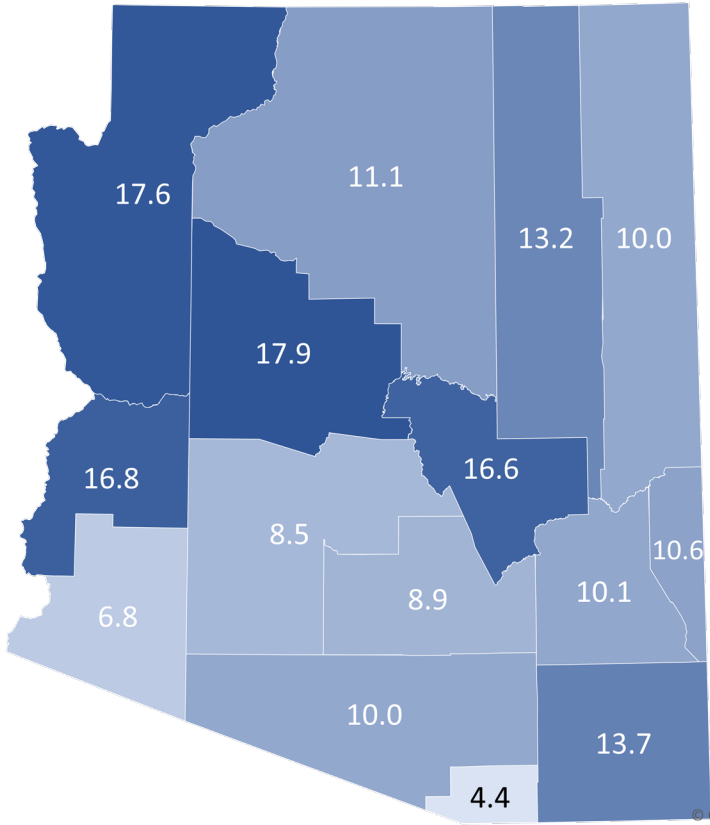
# Rates of Firearm Suicide by Age, Arizona, 1999-2020



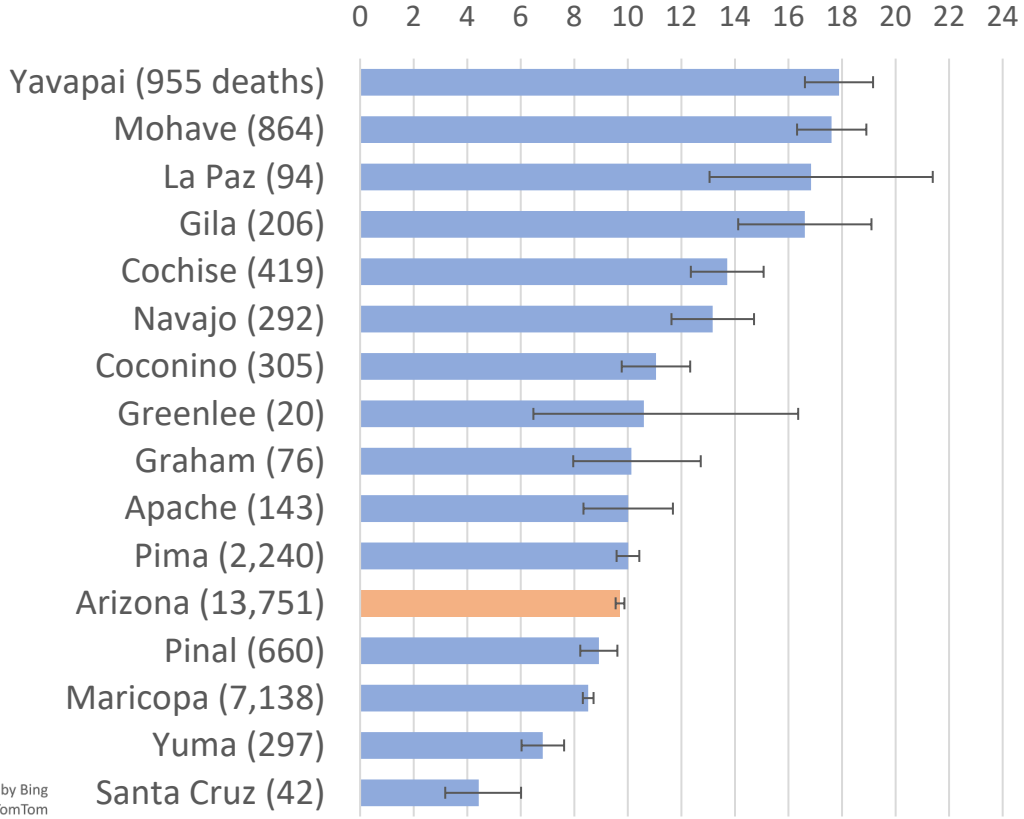
# Urban-Rural Rates of Firearm Suicide, Arizona, 1999-2020



# Firearm Suicide Rates by County, 1999-2020



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# Firearm Suicide Rates by Age, 1999-2020, AZ vs US

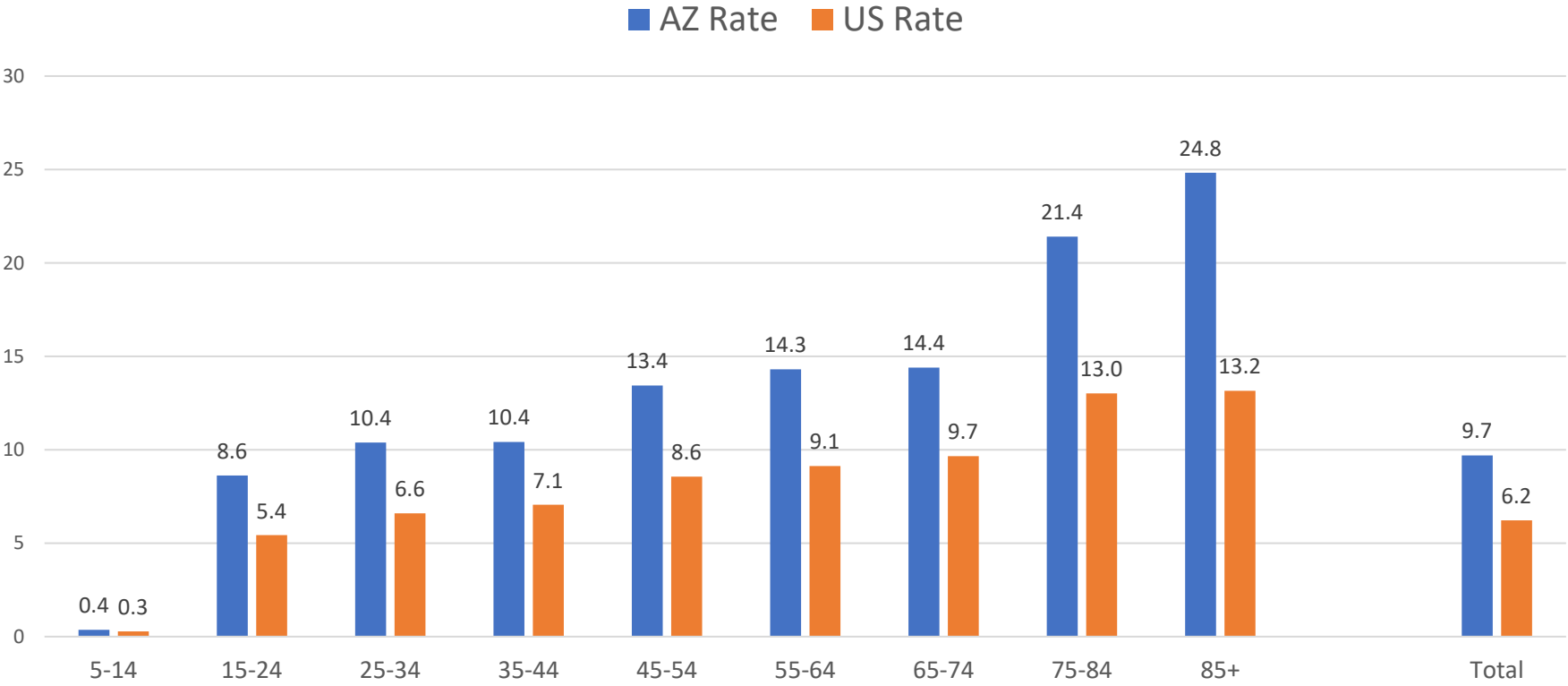




Figure 66. Firearm Suicide Rates vs Household Gun Ownership, 1999-2016, 50 States

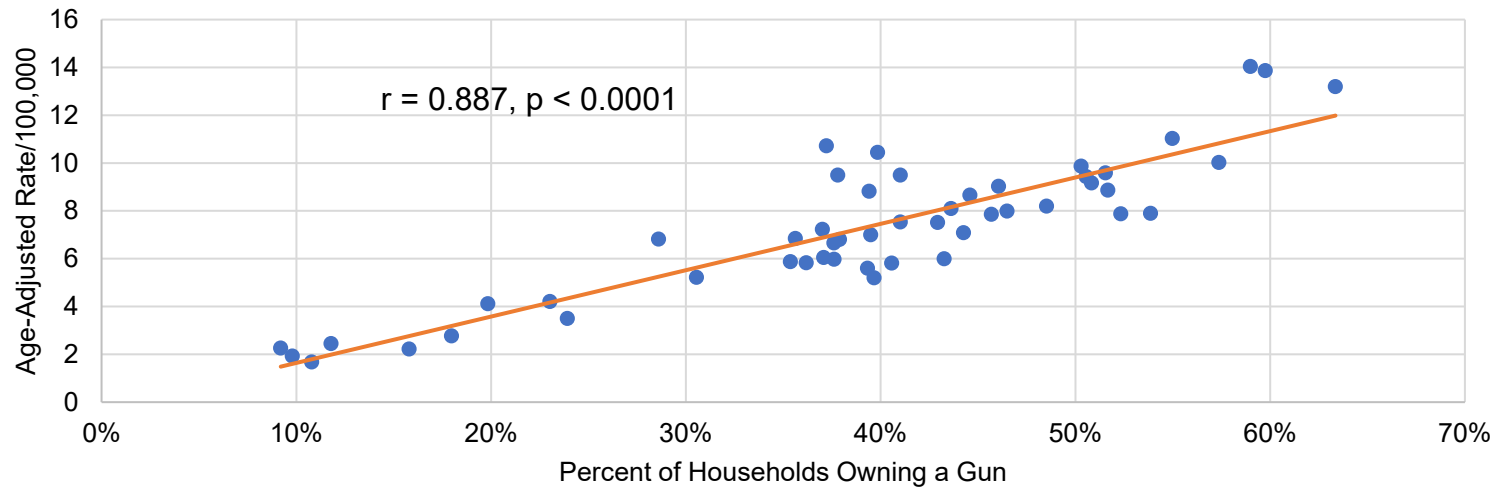
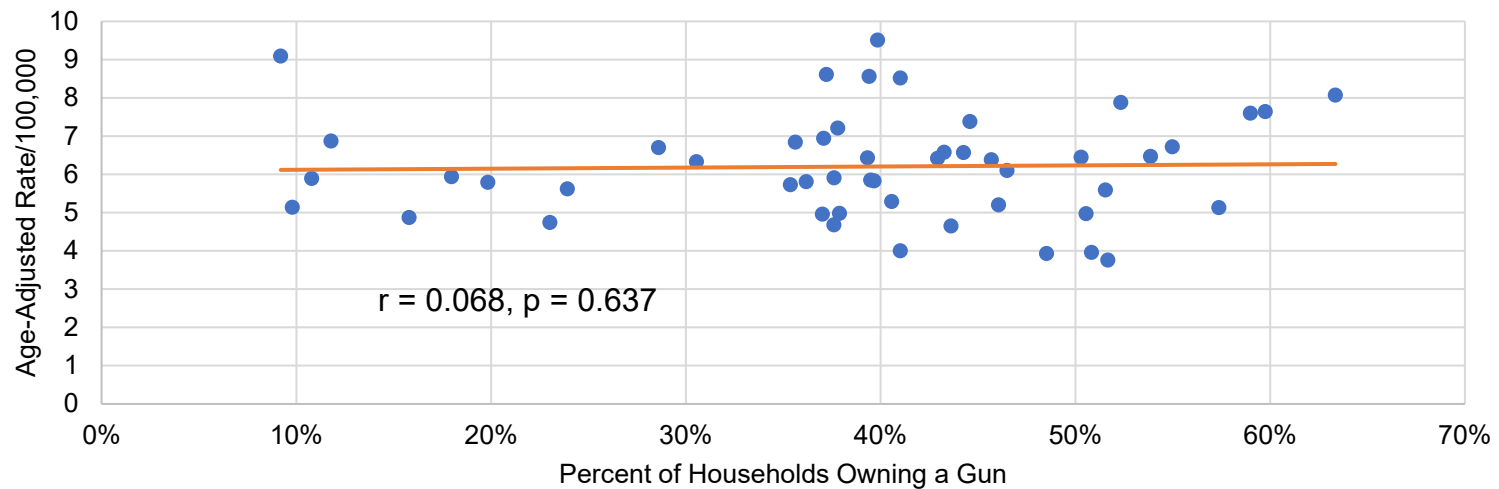


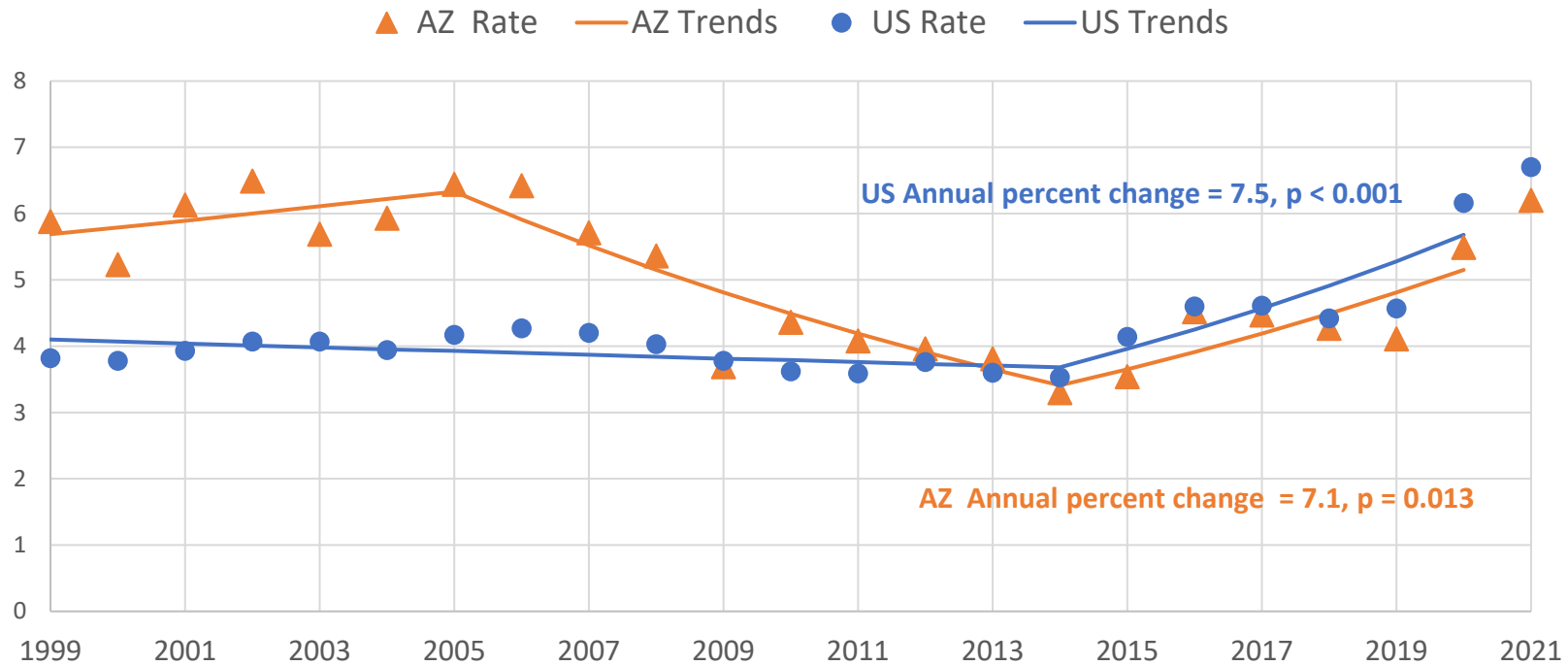
Figure 67. Non-Firearm Suicide Rates vs Household Gun Ownership, 1999-2016, 50 States



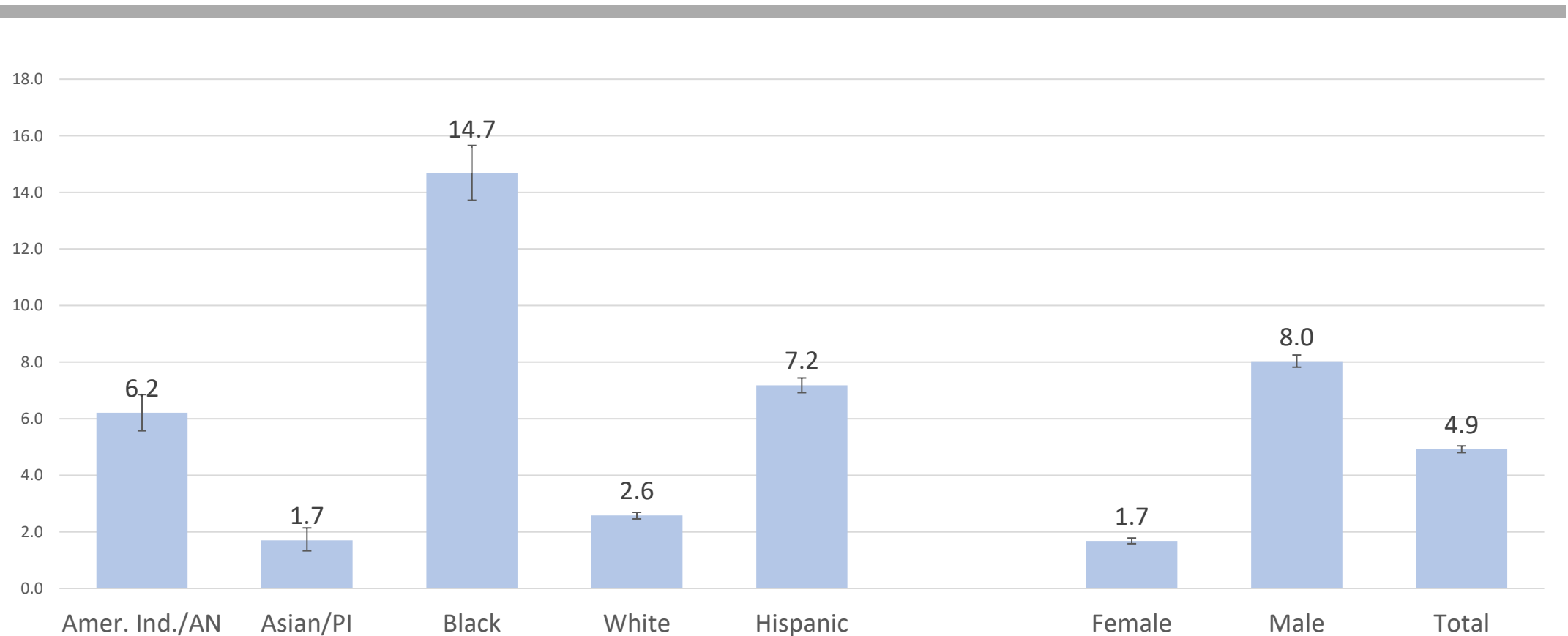
# Firearm Homicides



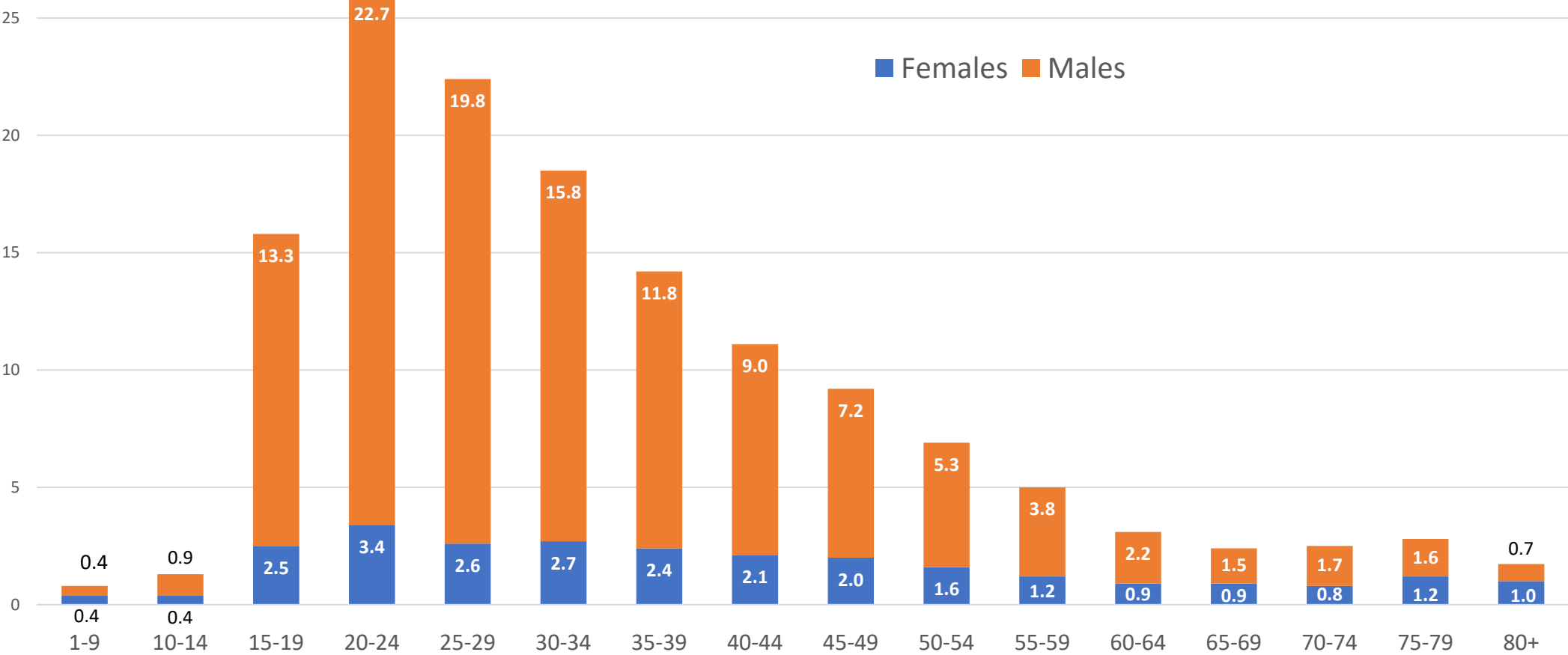
# Rates & Trends of Firearm Homicides, AZ vs US



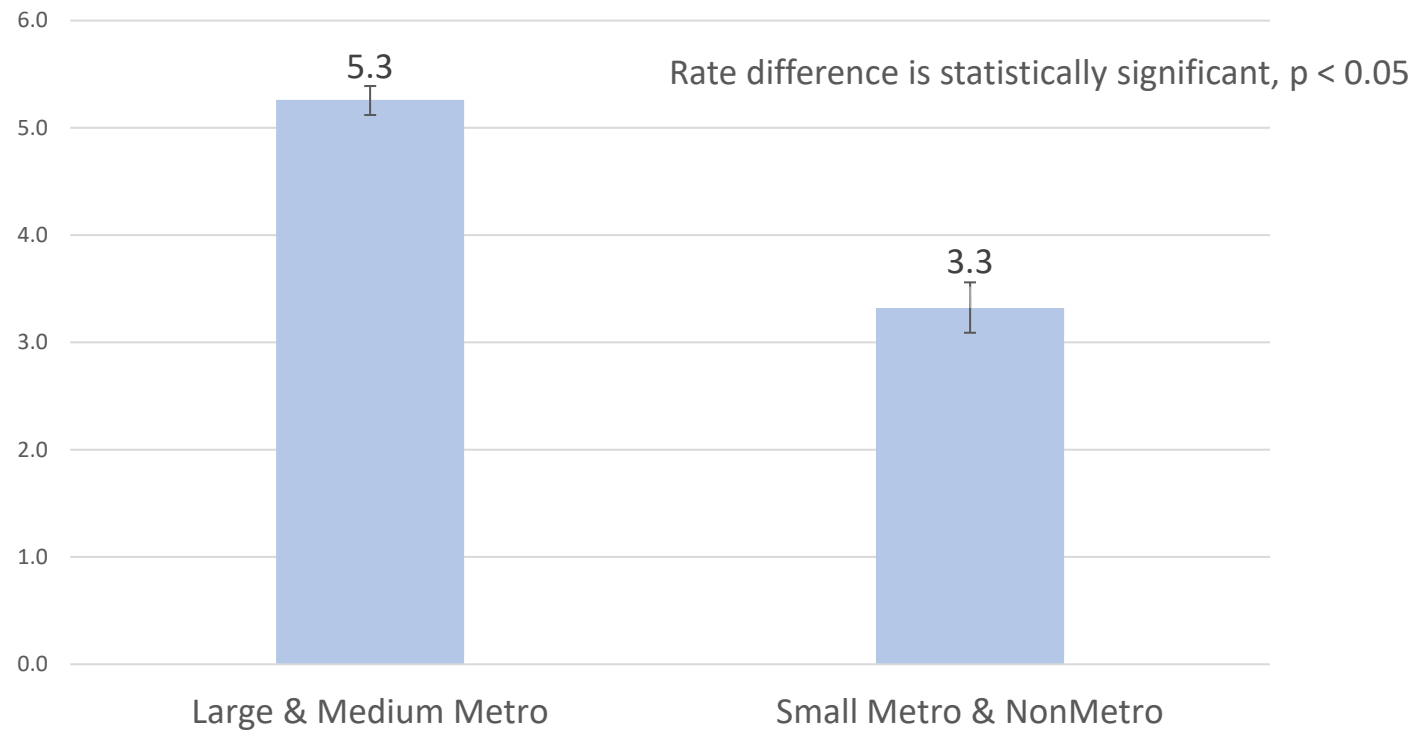
# Firearm Homicide Rates by NH-Race, Ethnicity & Gender, Arizona 1999-2020



# Firearm Homicide Rates by Age, AZ, 1999-2020

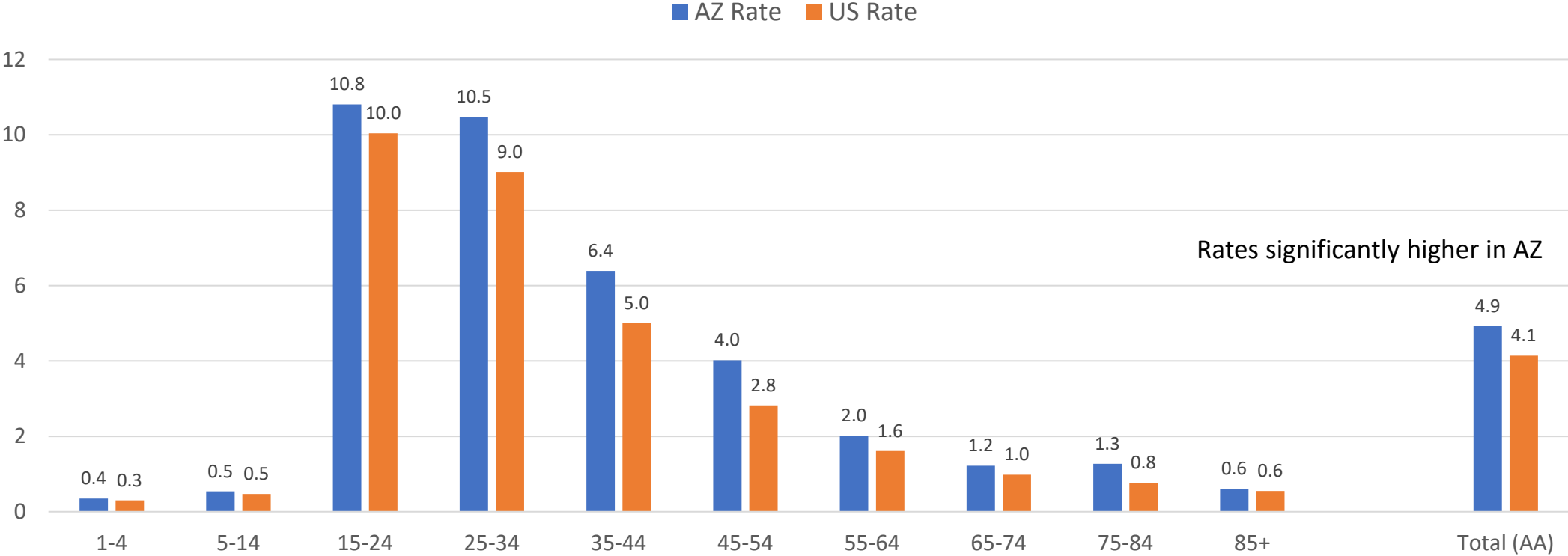


# Urban-Rural Rates of Firearm Homicides, AZ, 1999-2020





# Firearm Homicide Rates, AZ vs US

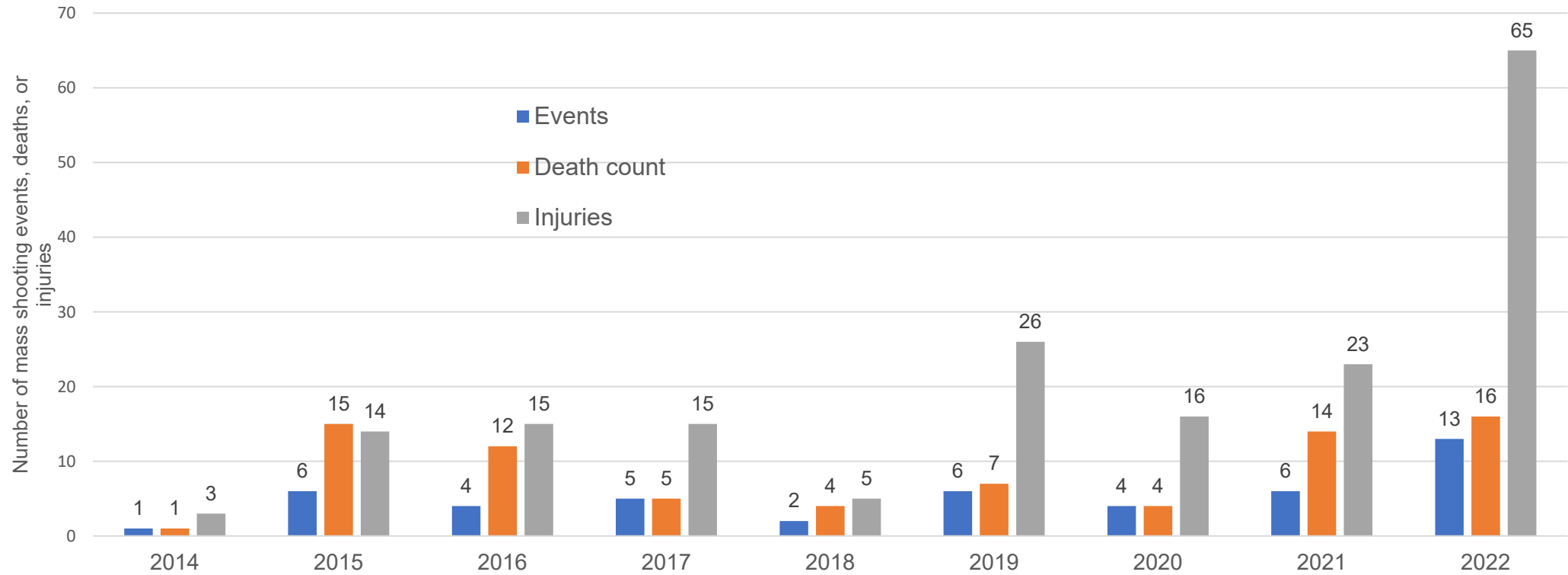




# Mass Shootings

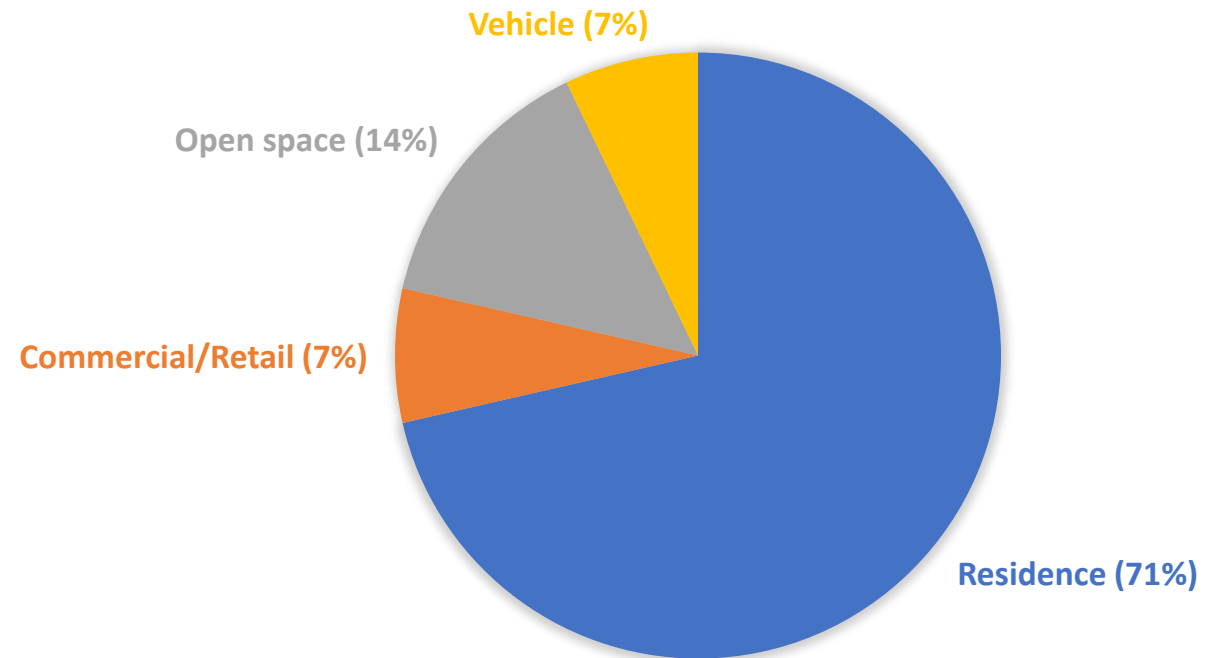


# Mass Shooting Events, Deaths & Injuries, Arizona



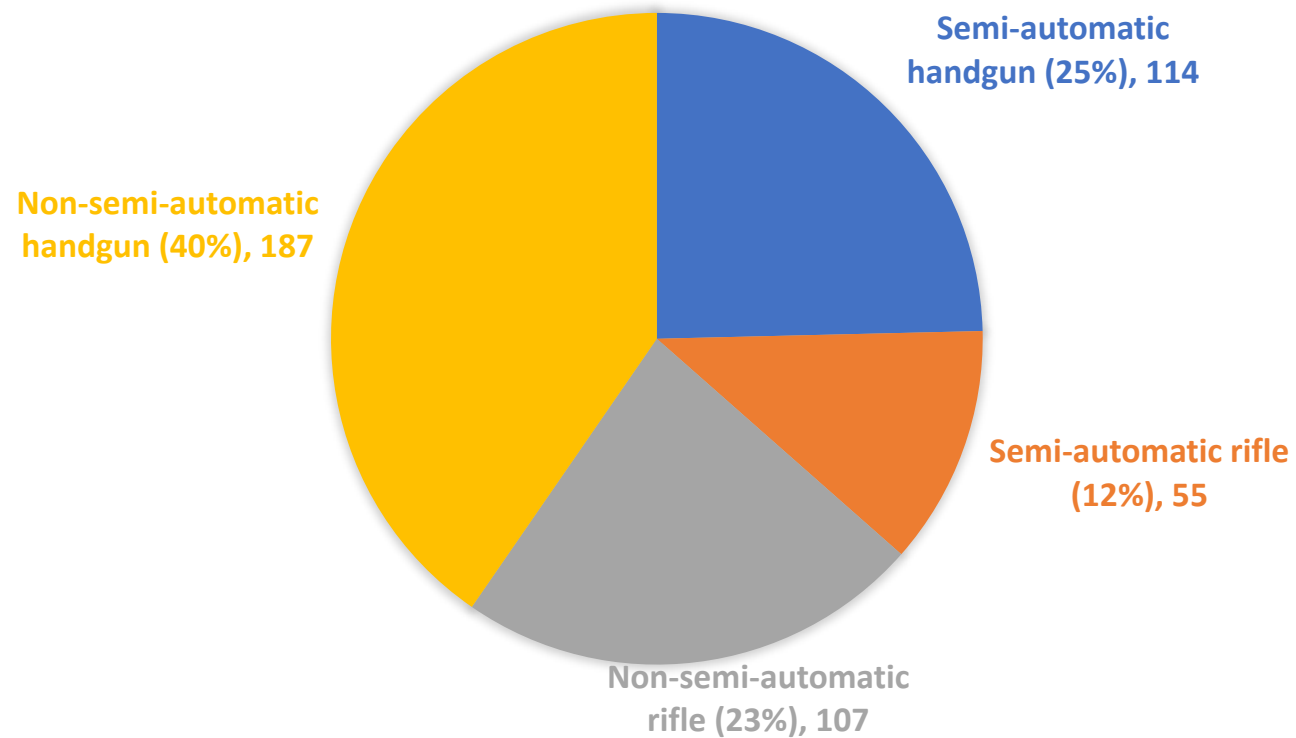
# Mass Shootings by Location, AZ 2006-2022

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# Weapons Used in Mass Shootings, US 2006-2022

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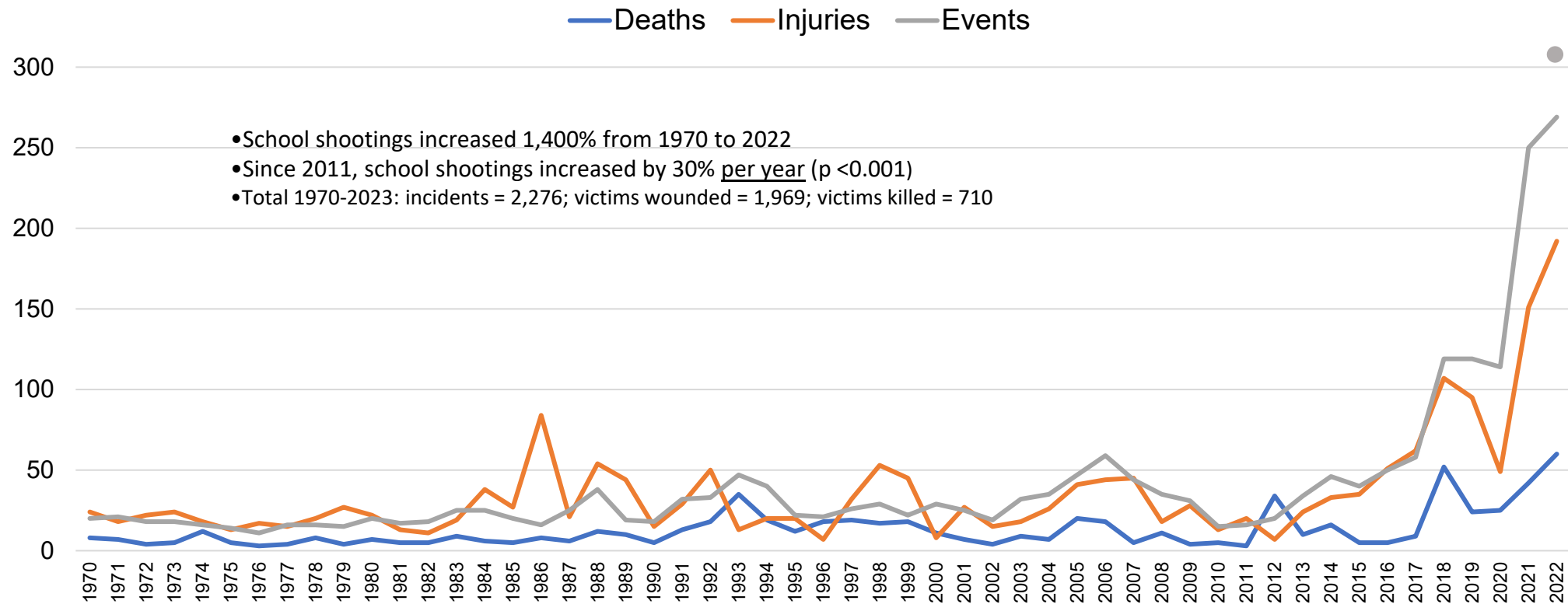


# School Shootings



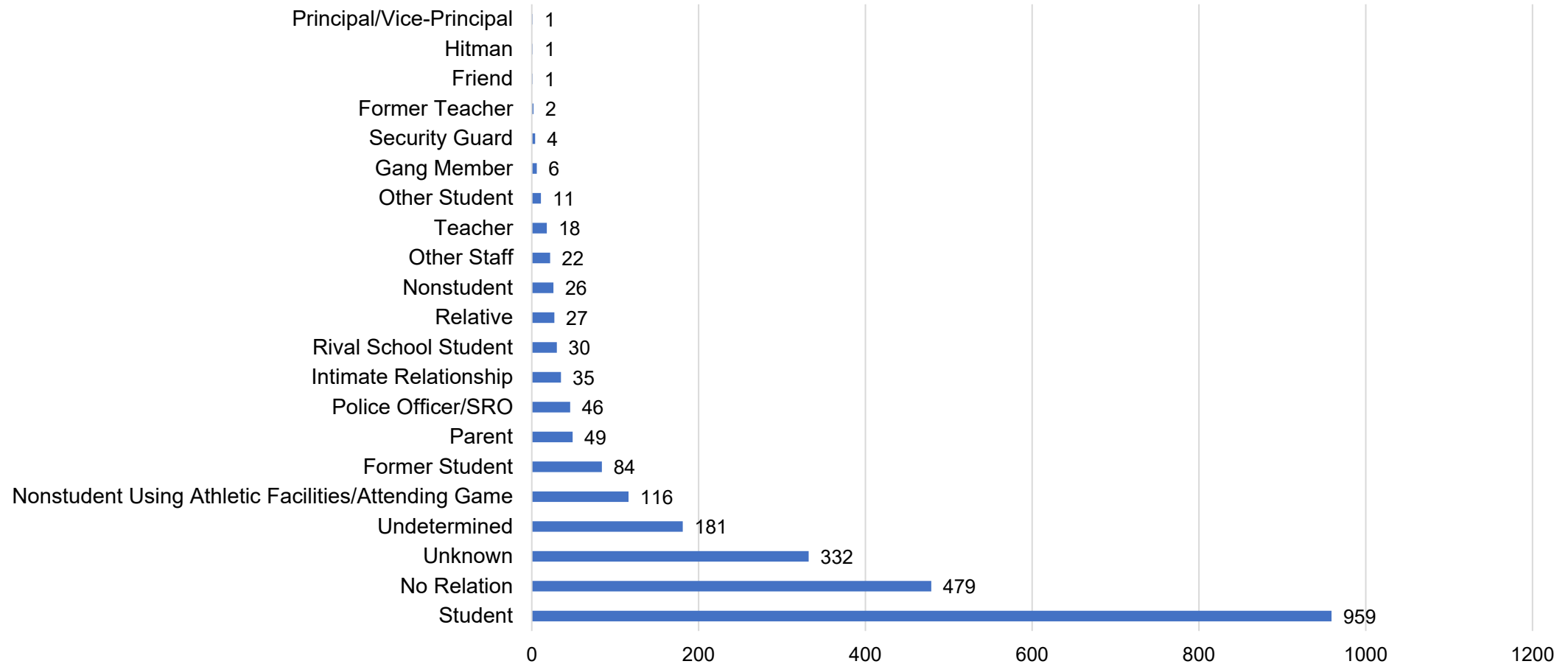
# Deaths, Injuries, & Incidents of School Shootings in the US, 1970-2022

(<https://k12ssdb.org>)

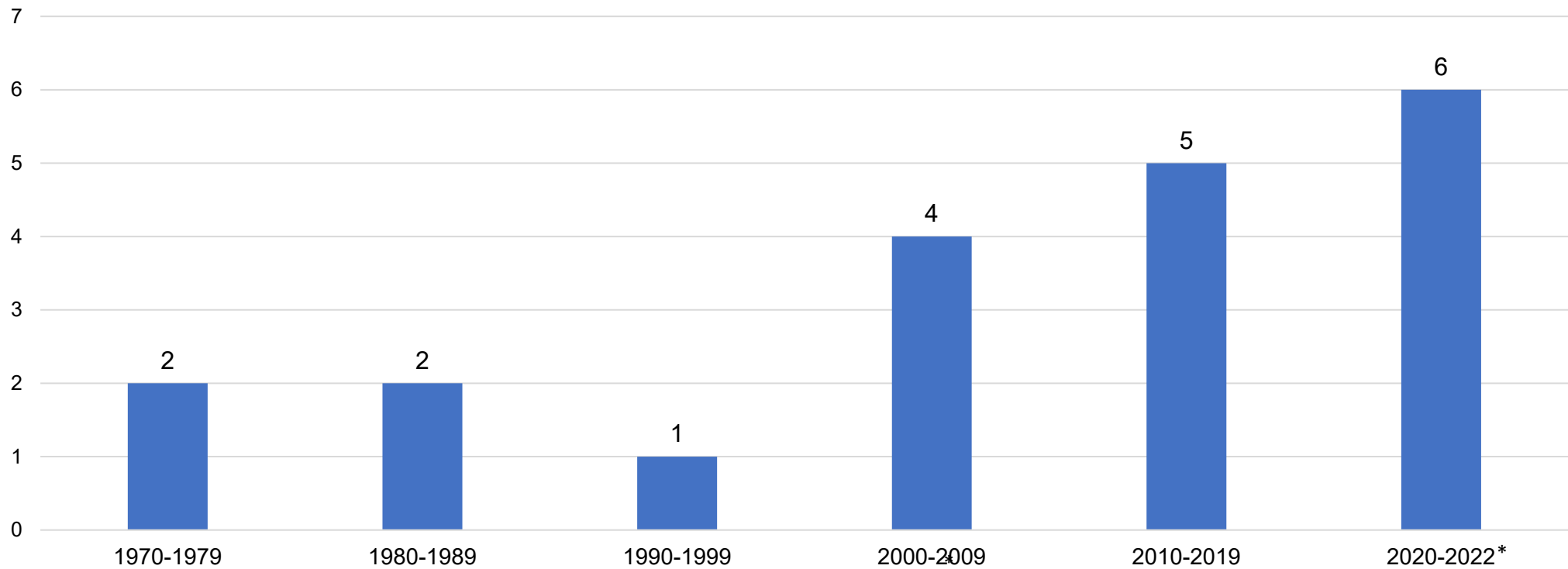


- School shootings increased 1,400% from 1970 to 2022
- Since 2011, school shootings increased by 30% per year ( $p < 0.001$ )
- Total 1970-2023: incidents = 2,276; victims wounded = 1,969; victims killed = 710

# Who Are the School Shooters in the US?



# School Shooting Incidents in Arizona by Decade, 1970-Nov. 2022

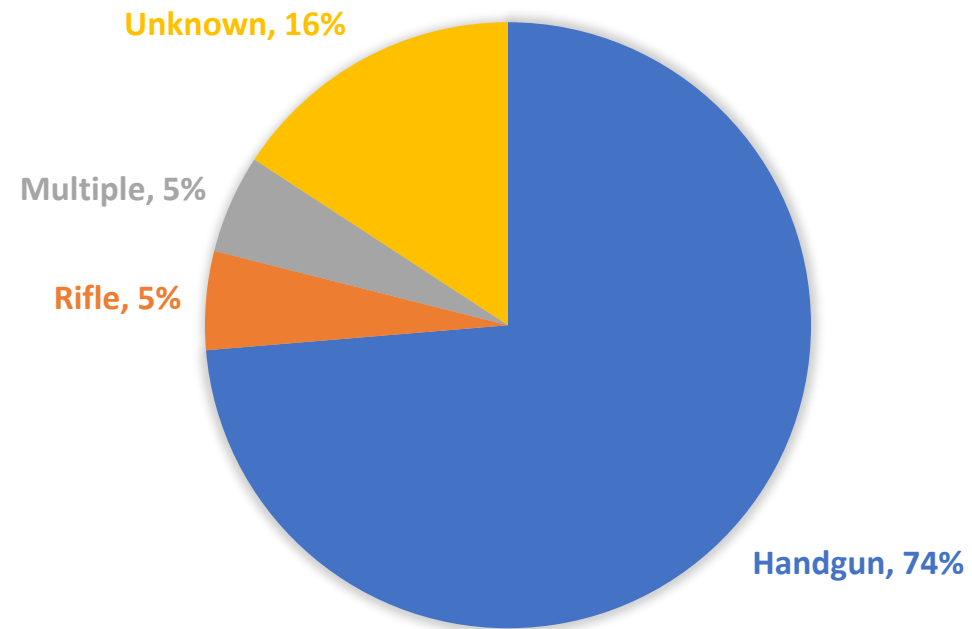


\* First three years of the decade



# Types of Firearm Used in AZ School Shootings

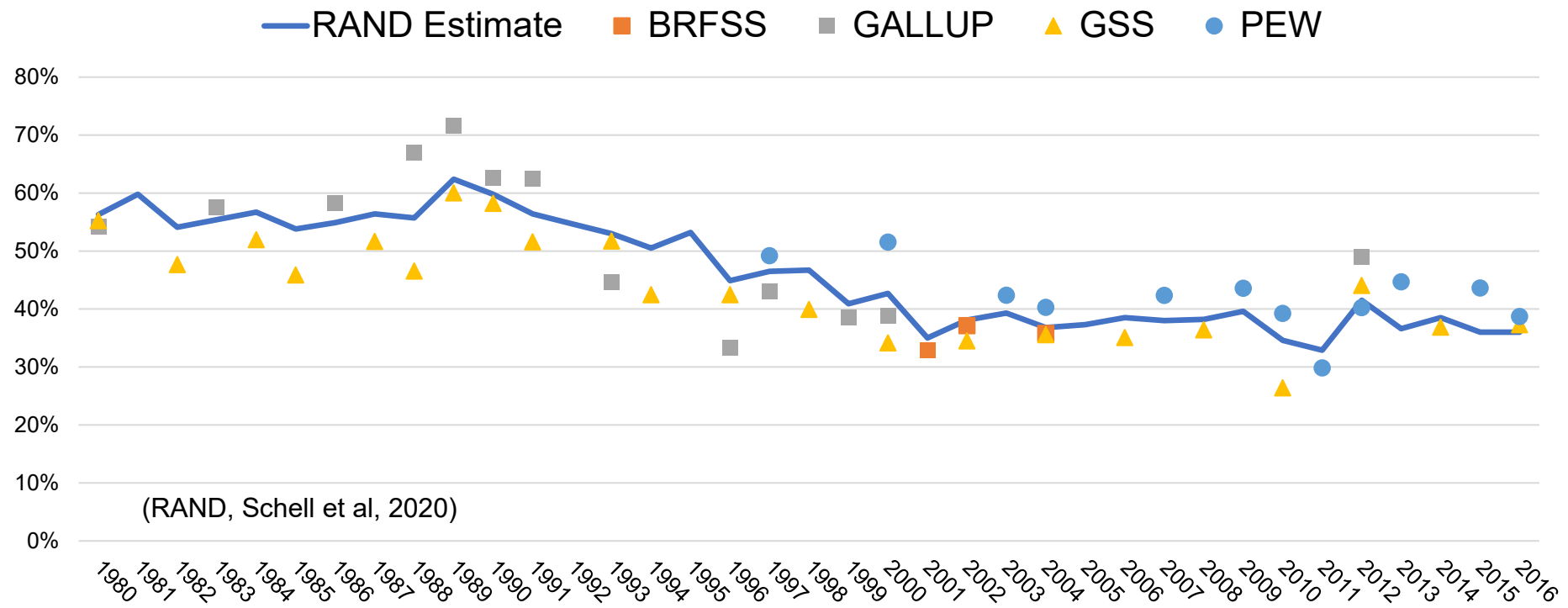
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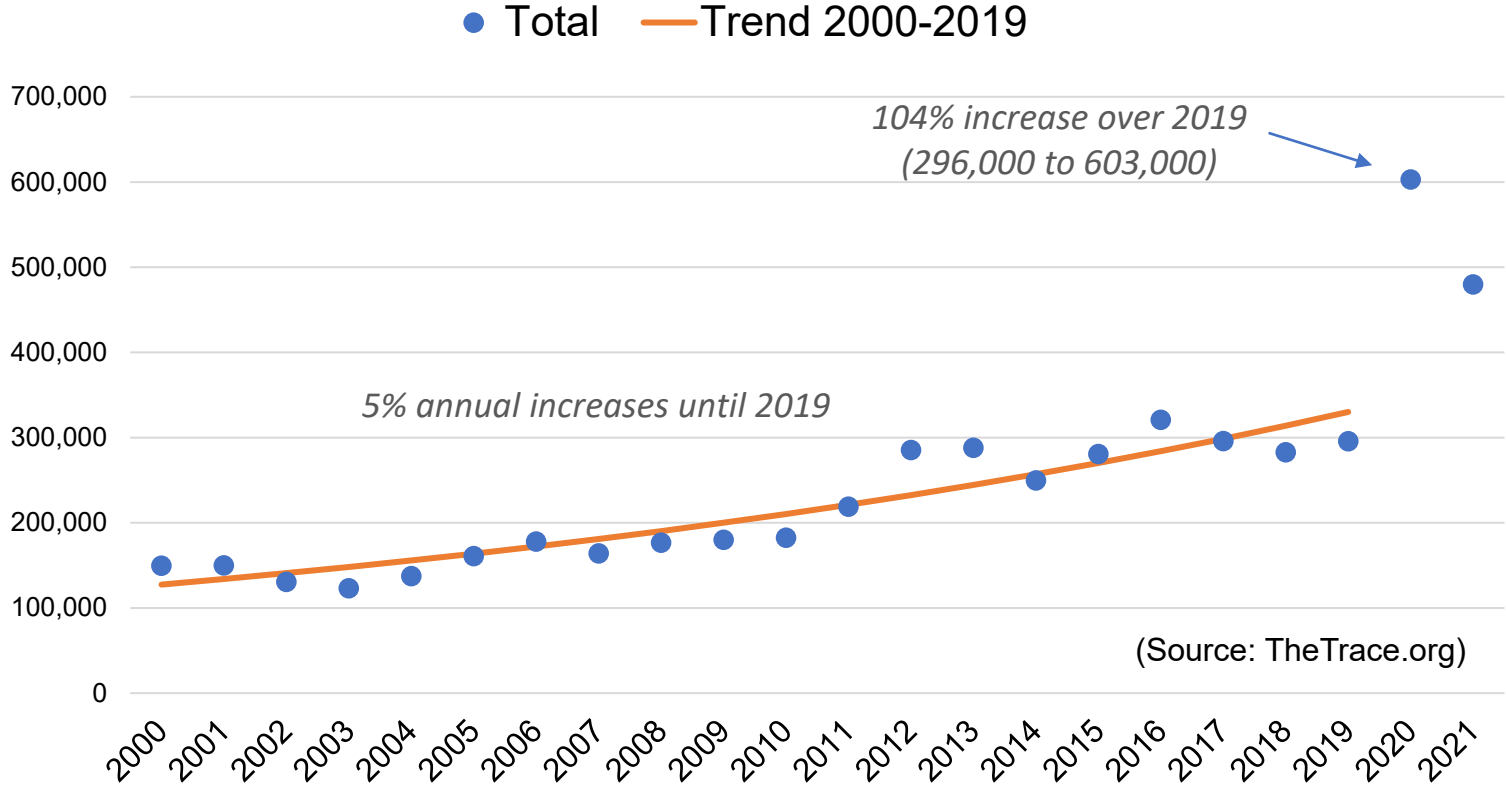
# Firearm Ownership



# Estimated Proportion of Adults Who Live in a Household With a Firearm, AZ, 1980-2016



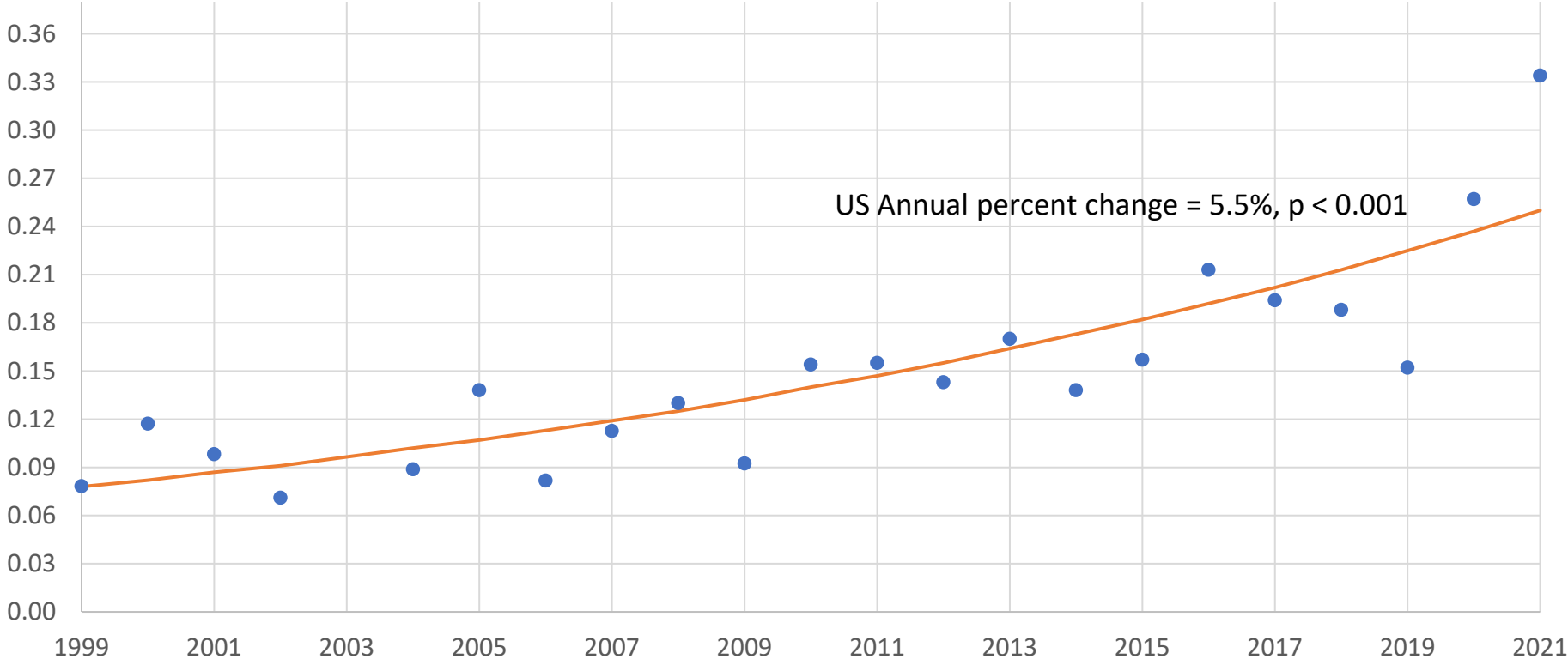
# Estimated Annual Firearm Sales, AZ, 2000-2021



# Unintentional Shootings



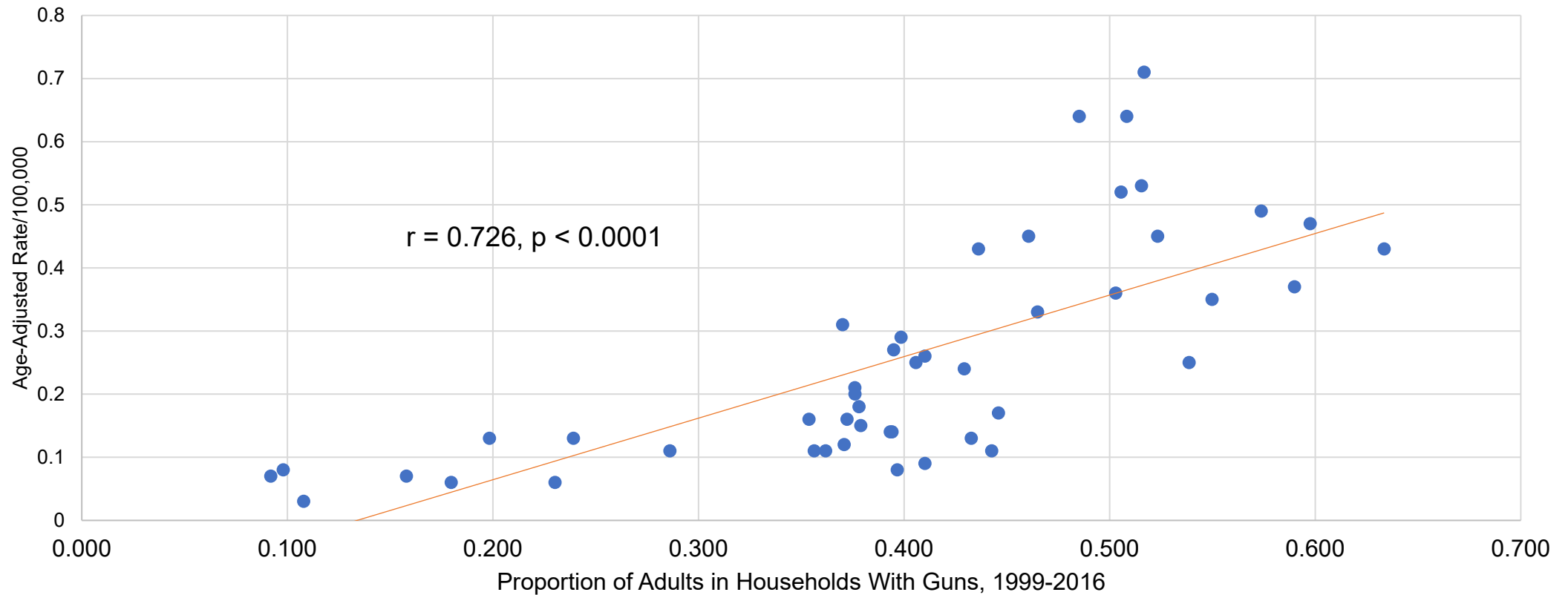
# Unintentional Firearm Mortality Rates & Trend, Children Aged 1-4, US



# Unintentional Firearm Deaths by Circumstance, Arizona & 24 States with Available Data, 2015-2019

CIRCUMSTANCE	Arizona		24 States	
	Deaths	Percent	Deaths	Percent
UNINTENTIONALLY PULLED TRIGGER	31	43.1%	220	23.9%
PLAYING WITH GUN	25	34.7%	340	36.9%
OTHER CONTEXT OF INJURY	24	33.3%	251	27.2%
THOUGHT GUN WAS UNLOADED-OTHER	21	29.2%	129	14.0%
OTHER MECHANISM OF INJURY	19	26.4%	197	21.4%
THOUGHT UNLOADED MAGAZINE DISENGAGED	14	19.4%	67	7.3%
CLEANING GUN	13	18.1%	90	9.8%
SHOWING GUN TO OTHERS	9	12.5%	111	12.0%
GUN FIRED LOADING/UNLOADING	8	11.1%	47	5.1%
DROPPED GUN	4	5.6%	52	5.6%
HUNTING	2	2.8%	68	7.4%
TARGET SHOOTING	2	2.8%	36	3.9%
GUN DEFECT OR MALFUNCTION	2	2.8%	35	3.8%
GUN MISTAKEN FOR TOY	2	2.8%	27	2.9%
THOUGHT SAFETY WAS ENGAGED	0	0.0%	18	2.0%

# Unintentional Firearm Mortality Rates 1999-2020 vs Household Gun Ownership 1999-2016, 47 States



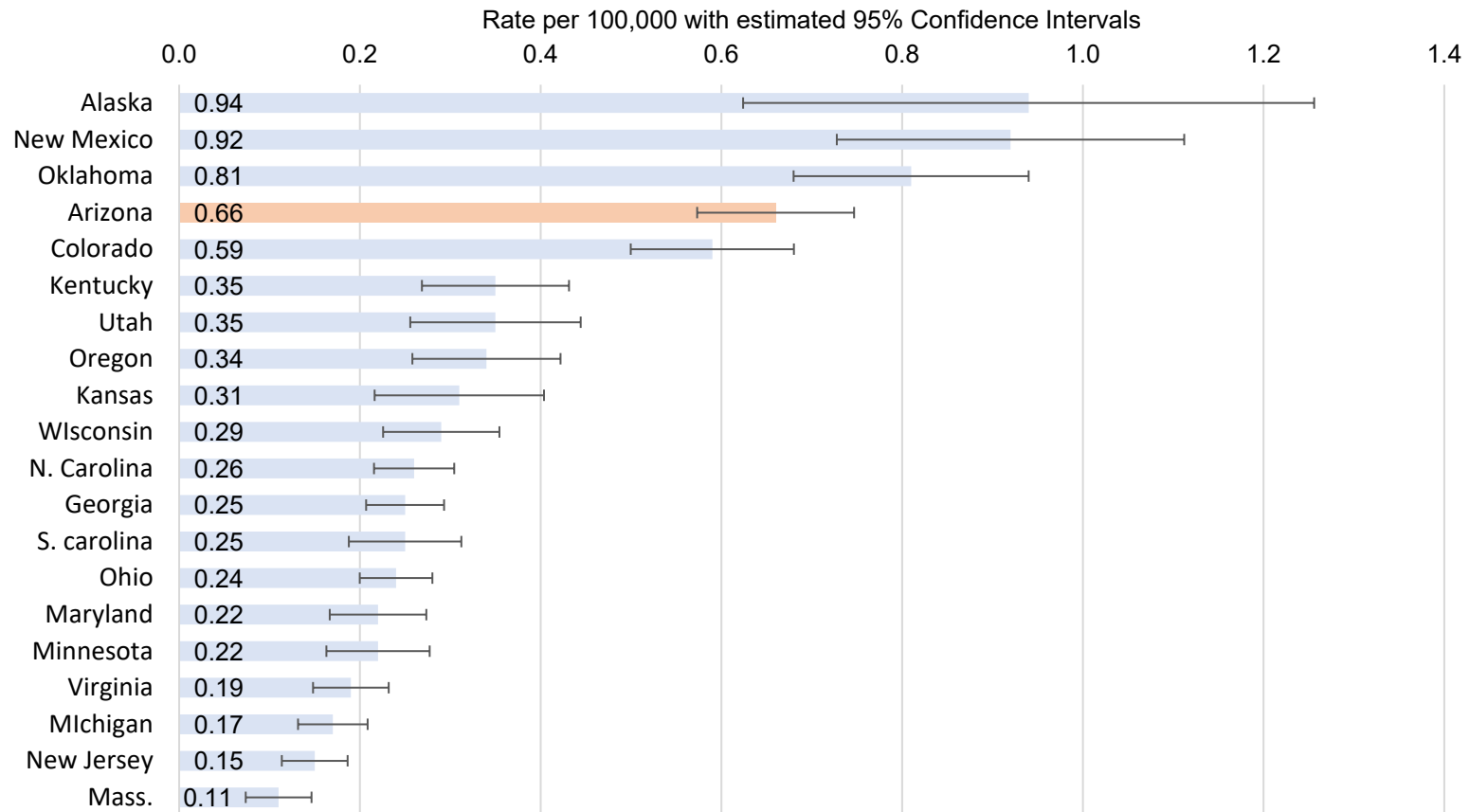


# Police Shootings

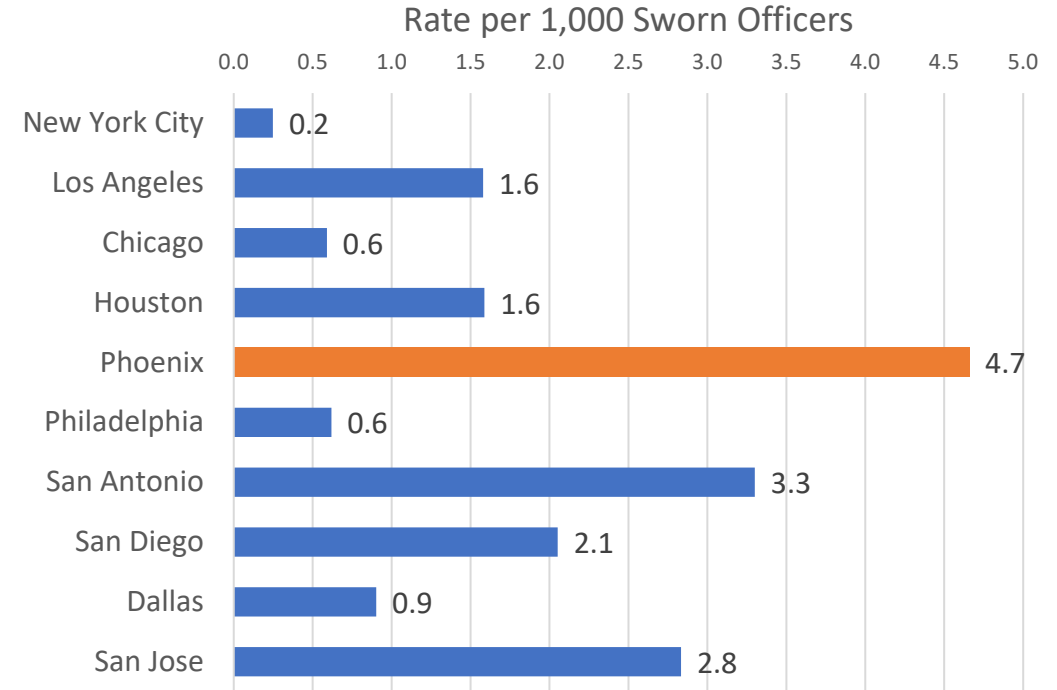
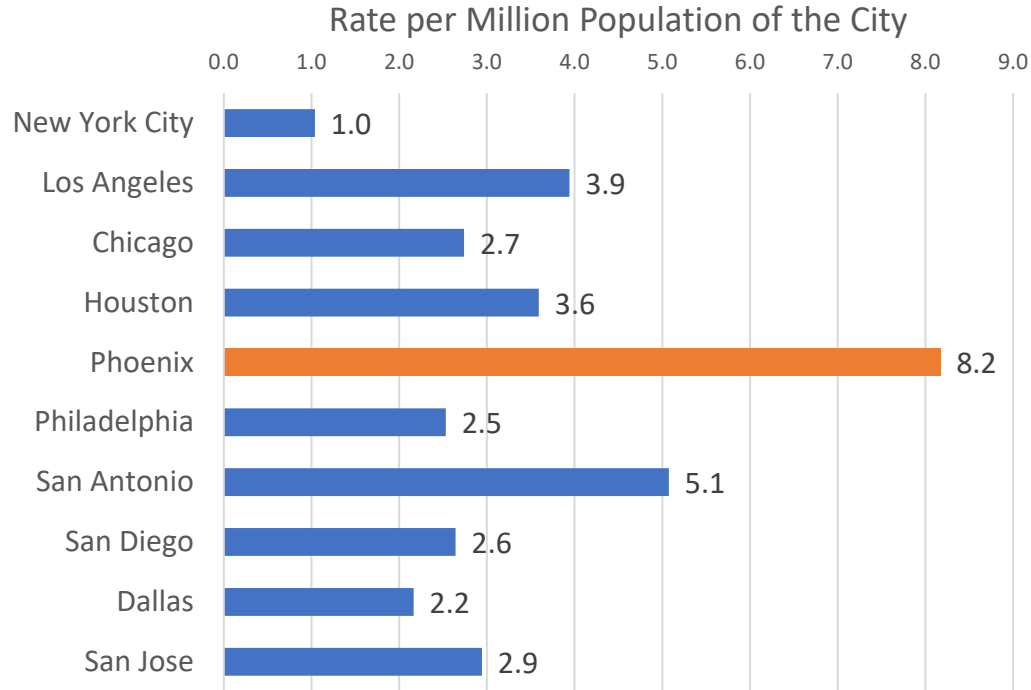
(AKA Law Enforcement Intervention)

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# Rates of Police Shootings for 20 States with Reliable Data from NVDRS, 2015-2019



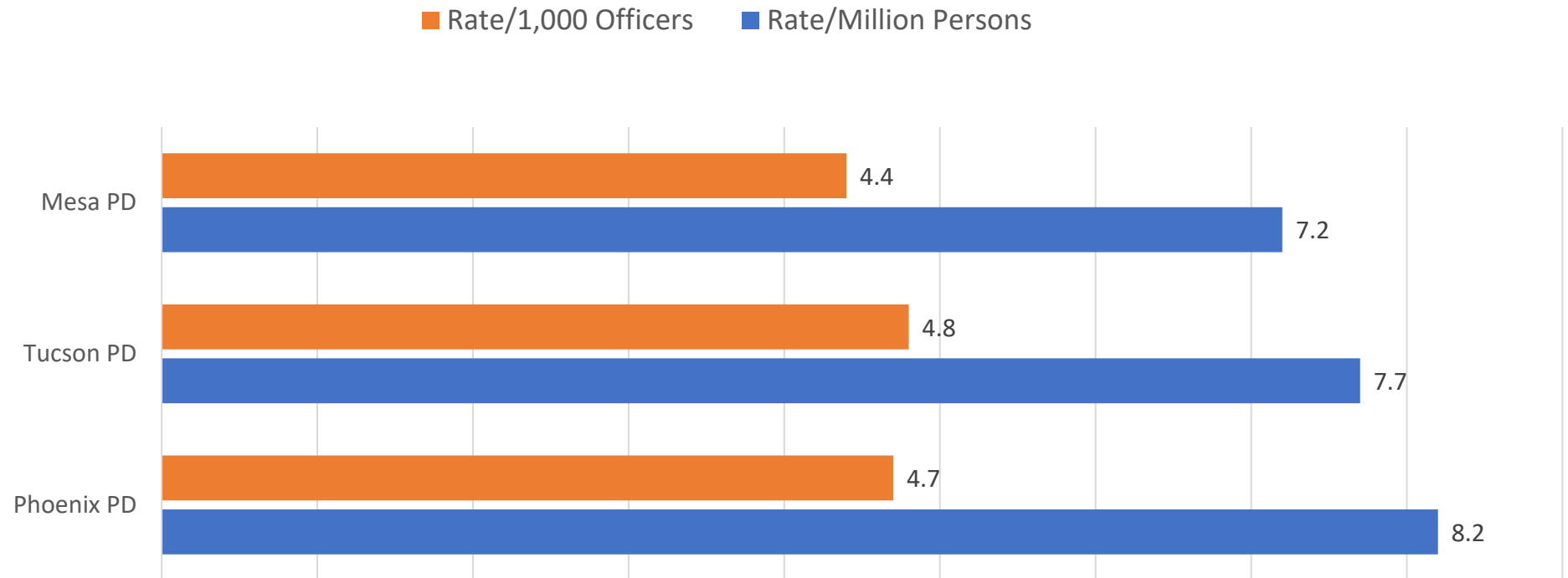
# Rates of Fatal Police Shootings, 10 Largest US Cities, 2015-2021



Sources: MPV; FBI Crime Data Explorer

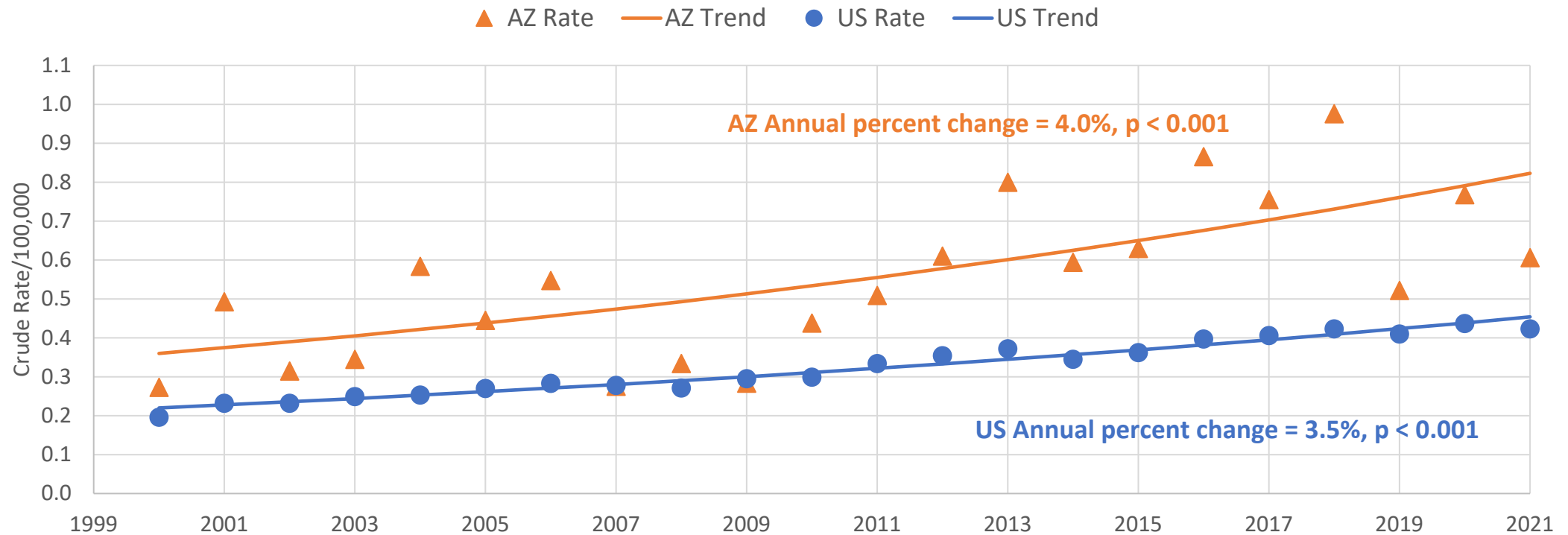
# Rates of Fatal Police Shootings by Three City Police Departments in AZ, 2015-2021

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# Trends in Police Shootings, AZ vs US, 2000-2021

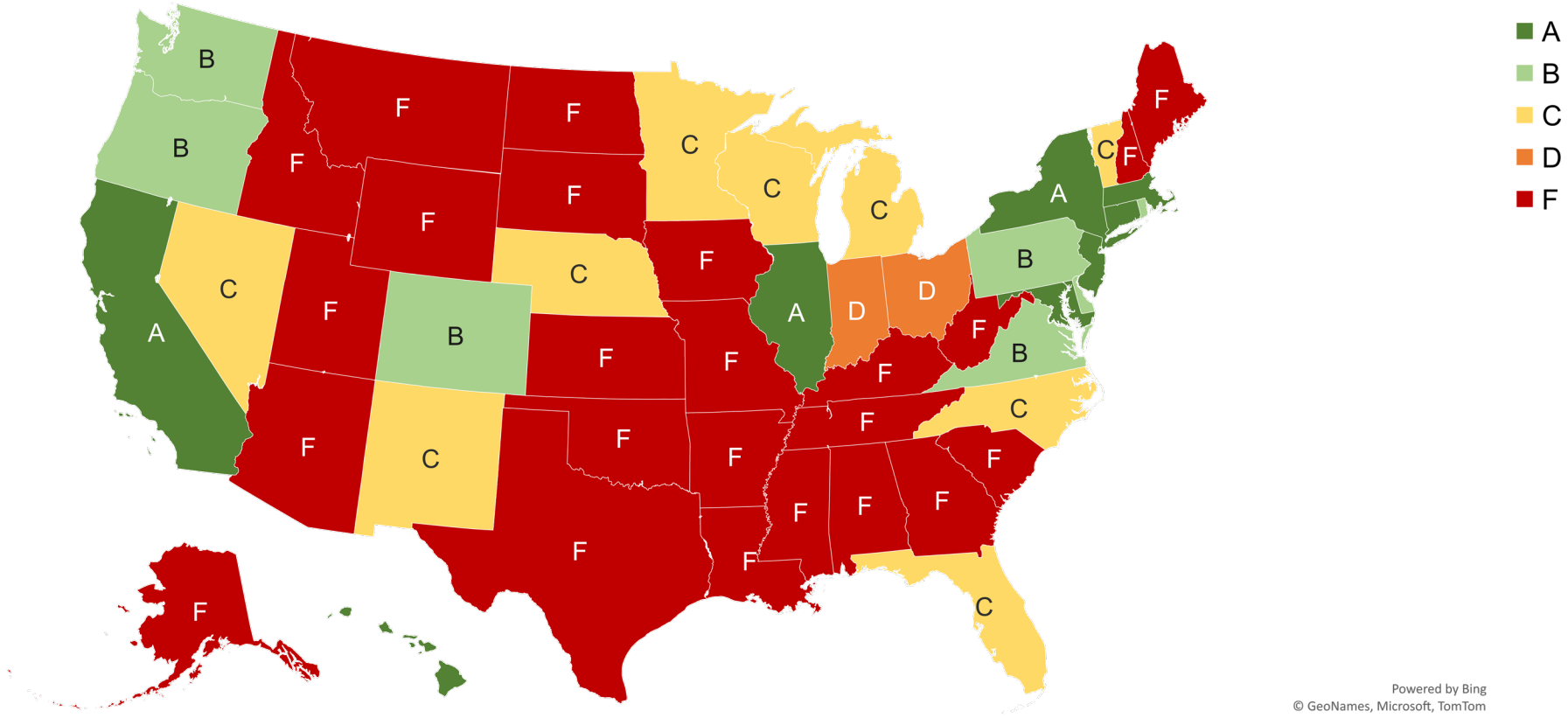
(Source: FatalEncounters.org)



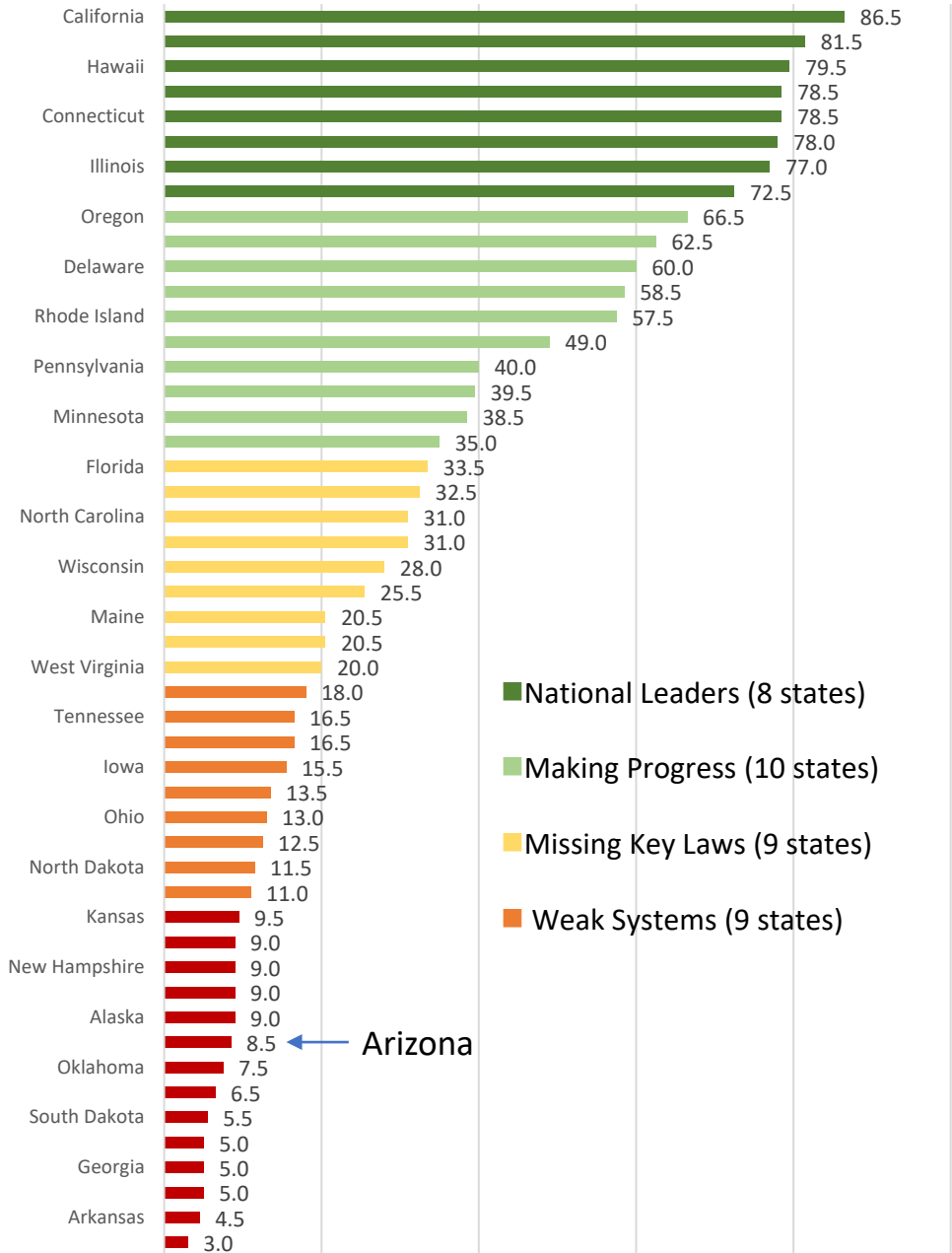
# Gun Law Status & Impacts



# Giffords Ratings of State Gun Laws from Strongest (A) to Weakest (F), 2021 (Giffords Law Center)

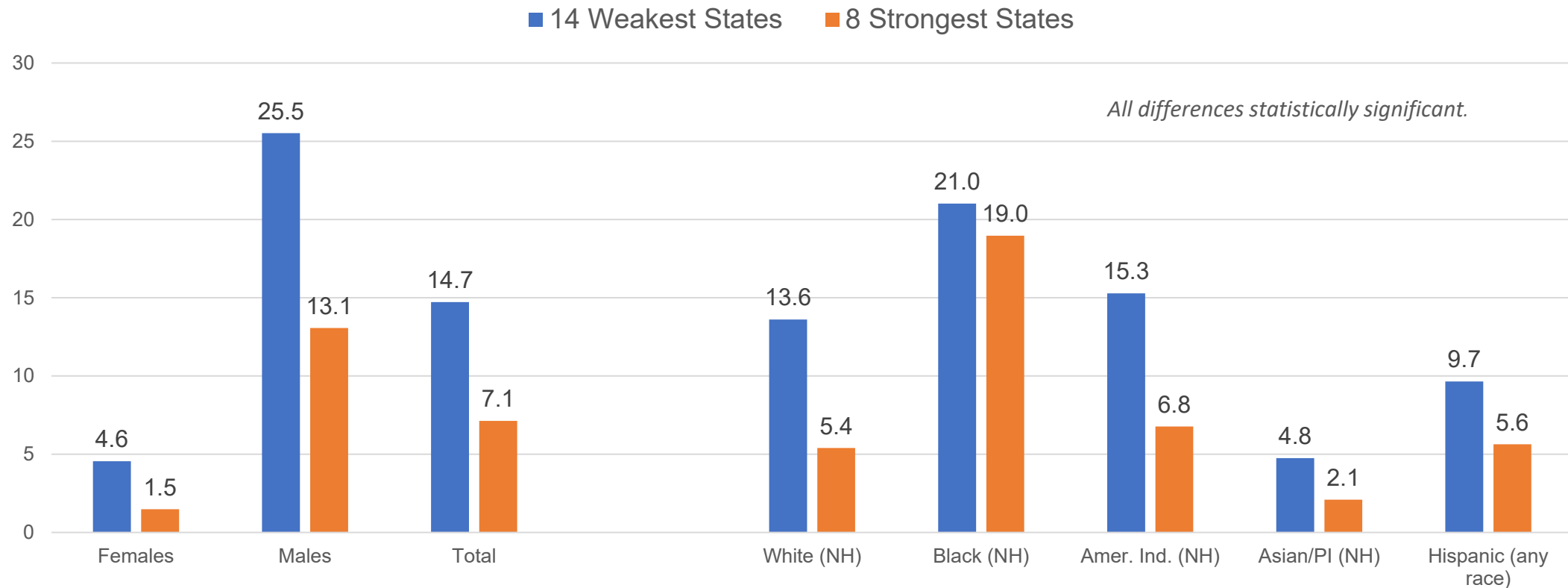


# Everytown Research State Gun Law Rating Scores Based On 50 Key Gun Policies



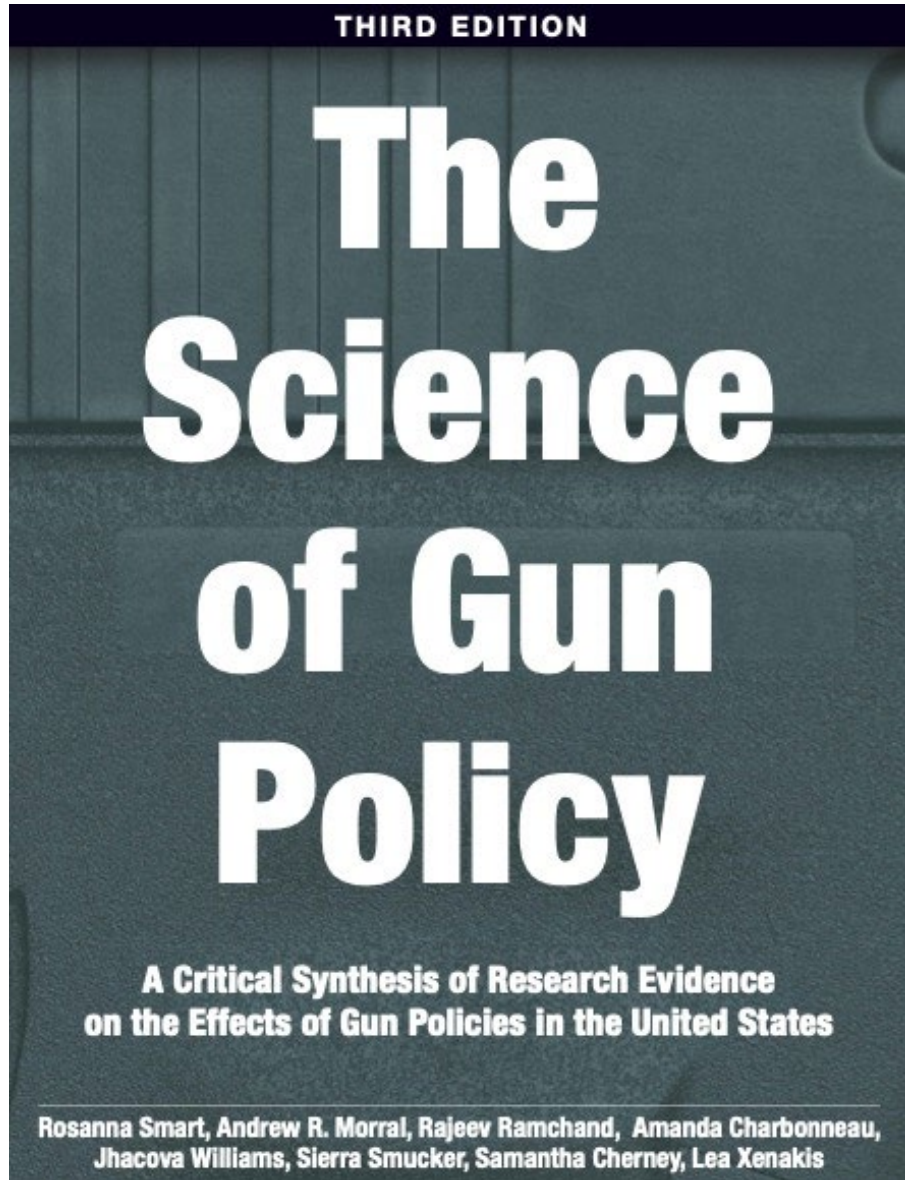


# Overall Firearm Mortality Rates Among **Everytown's** 14 States with the Weakest Gun Laws vs. 8 States with the Strongest Gun Laws by Gender, Race/Ethnicity, 1999-2020



# Policy Options





## Current Policy in Arizona

Arizona is ranked 42nd out of 50 states for gun law strength.

### Foundational Laws

- Background Check and/or Purchase Permit ❌
- Concealed Carry Permit Required ❌
- Extreme Risk Law ❌
- No Shoot First Law ❌
- Secure Storage Required ❌

### Gun Industry and Product Safety

- Assault Weapons Prohibited ❌
- Consumer Safety ❌
- Ghost Guns Regulated ❌
- High Capacity Magazines Prohibited ❌
- Microstamping for New Handguns ❌
- No Special Immunity for Gun Industry ❌

### Policing and Civil Rights

- Funding for Services for Victims of Gun Violence ❌
- Local Gun Laws Allowed ❌
- No Law Enforcement Officers Bill of Rights ❌
- Office of Violence Intervention ❌
- Violence Intervention Program Funding ❌
- Qualified Immunity Limited ❌
- Police Use of Force Incident Data Collection and Reporting ✅
- Police Use of Deadly Force Standard ❌

### Sales and Permits

- Authority to Deny Public Carry for Public Safety ❌
- Charleston Loophole Closed or Limited ❌
- Dealer License Required ❌
- Mental Health Record Reporting ✅
- Lost and Stolen Reporting ❌
- Notification of Failed Background Checks ❌
- Sales Records Sent to Law Enforcement ❌
- Training Required to Purchase Guns ❌
- Waiting Periods ❌

### Keeping Guns Out of the Wrong Hands

- Emergency Restraining Order Prohibitor ❌
- Felony Prohibitor ✅
- Fugitive from Justice Prohibitor ❌
- Gun Removal Program ❌
- Hate Crime Prohibitor ❌
- Mental Health Prohibitor ✅
- Relinquishment for Convicted Domestic Abusers ❌
- Relinquishment for Domestic Abusers Under Restraining Orders ❌
- Prohibition for Domestic Abusers Under Restraining Orders ❌
- No Gun Purchases After Violent Offense ❌
- Prohibition for Conficted Domestic Abusers ❌
- School Threat Assessment Teams ❌

- Stalker Prohibitor ✅
- Minimum Age to Purchase ❌

### Guns in Public

- Open Carry Regulated ❌
- Crime Gun Tracing ❌
- No Carry After Violent Offense ❌
- No Guns Mandate on College Campuses ✅
- No Guns at State Capitols and/or Demonstrations ❌
- No Guns in Bars ❌
- No Guns in K-12 Schools ✅
- Strong Concealed Carry Authority ❌

Source: Everytown Gun Law Rankings, Last updated January 12, 2023

Pass Child Access Prevention (CAP) and safe storage laws.

**CAP laws:** make adults criminally liable for negligently storing or recklessly providing children with access to firearms

**Safe storage laws:** require guns to be stored locked and unloaded when a child (or other person prevented from having a gun) is in a home



Repeal stand-your-ground (“shoot first”) laws.

**Stand-your-ground laws:** allow individuals to legally shoot and kill someone if they are intimidated, even if they could retreat and if they started the confrontation



Pass requirements for a background check and/or permit to purchase a firearm.

**Background checks laws:** require a background check for handgun purchases at the point of sale and/or require a background check for a permit to purchase a handgun. These laws are very popular (93% in support of requiring background checks on all sales).







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