

2020 Arizona Heat Surveillance Recap

December 17, 2020

Presenting To

Arizona Exploratory Analysis Subgroup

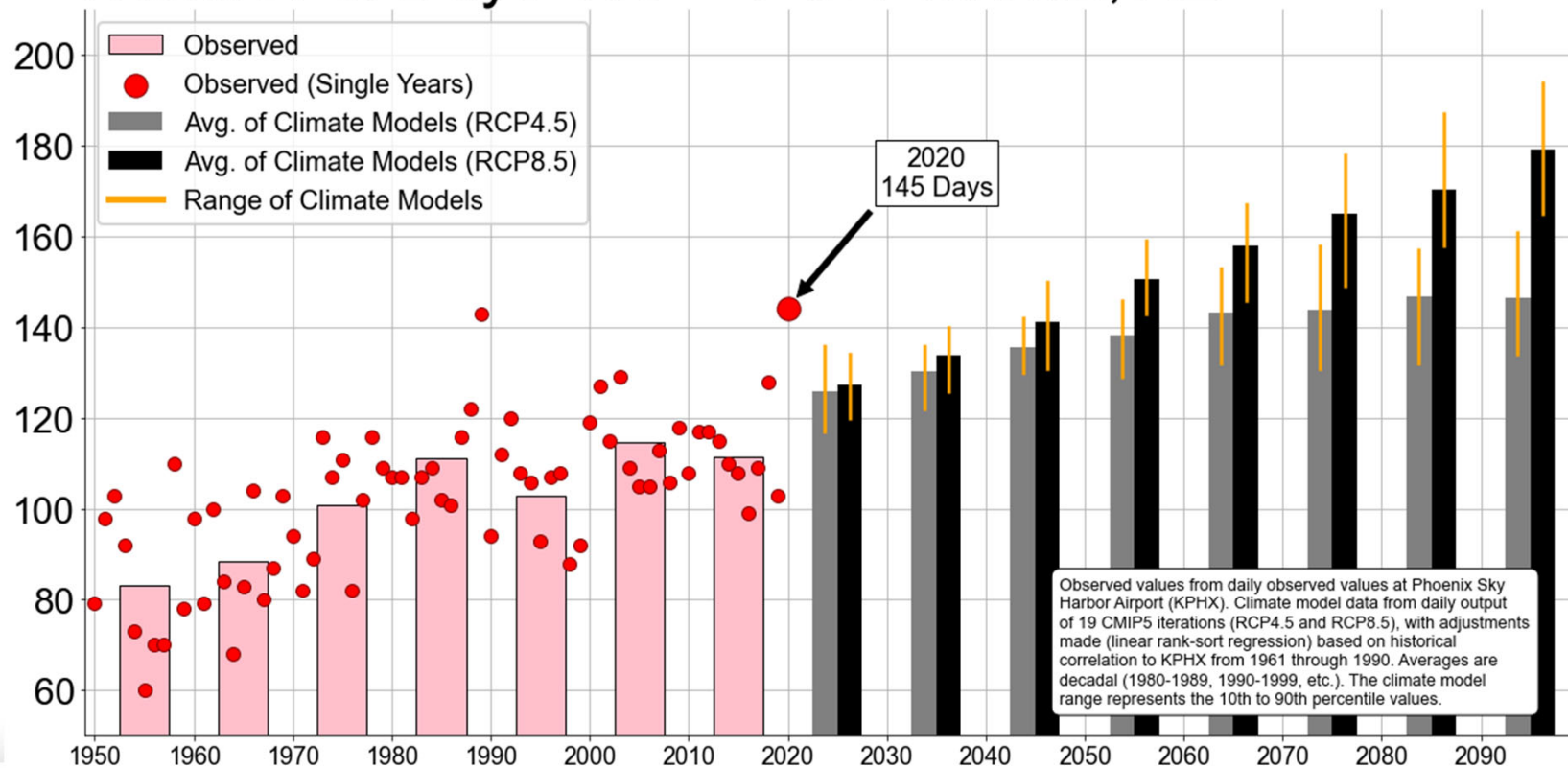
Laura Fox, MPH | EPHT Senior Epidemiologist



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Number of Days 100+ °F in Phoenix, AZ



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Heat-Related Illness and Mortality Data Sources

- Hospital Discharge Data
- Syndromic Surveillance
- Death Records



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Heat-Related Illness ED Visits Summary, 2015-2019

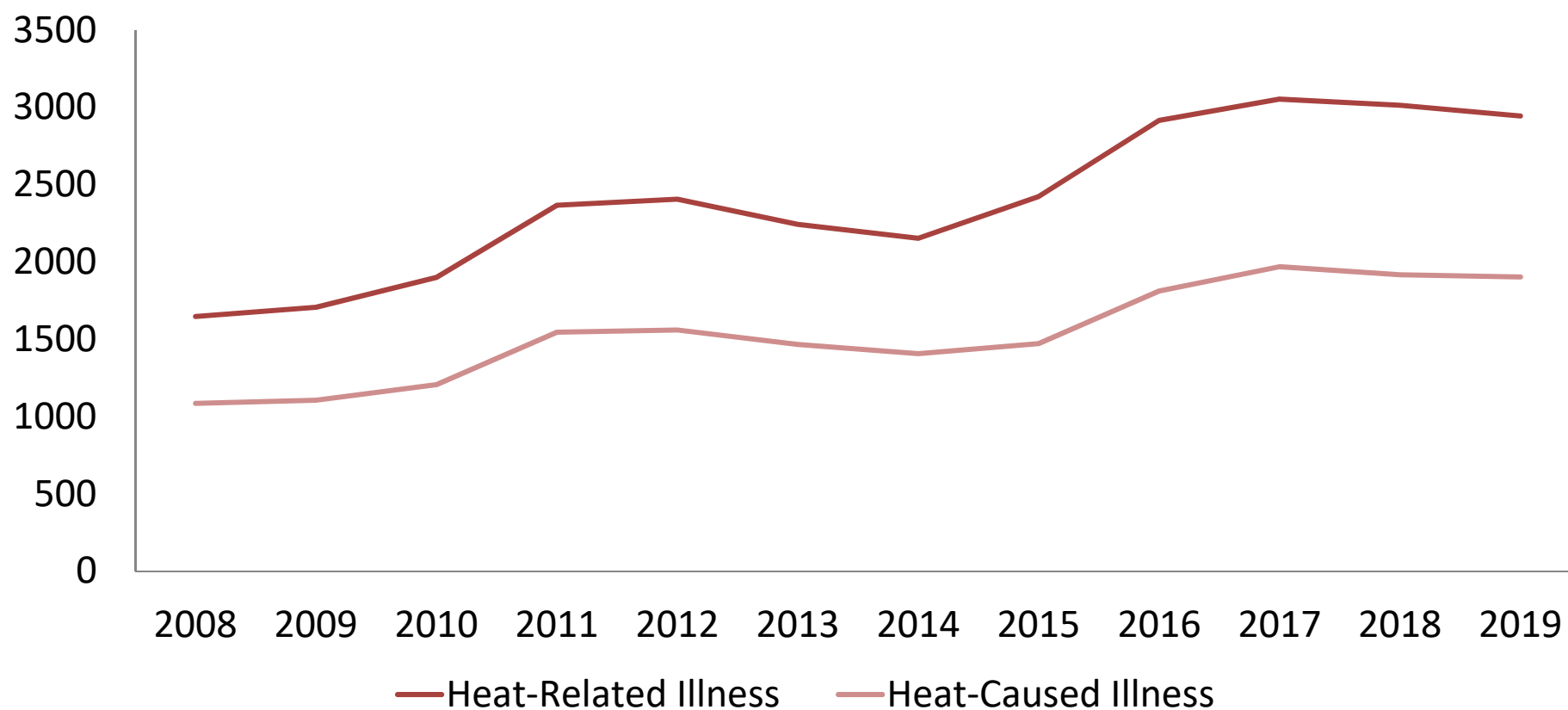
- Average **2870 visits** per year
- **28%** were Middle-Aged Adults 45-64 years
- **67%** were Male
- **61%** White non-Hispanic and **26%** Hispanic
- **89%** were AZ Residents
- **92%** of cases occurred from May-September
- Preceding activity: **recreational or occupational**
- Place of injury: **private residence**, **street/highway**, & **industrial site**



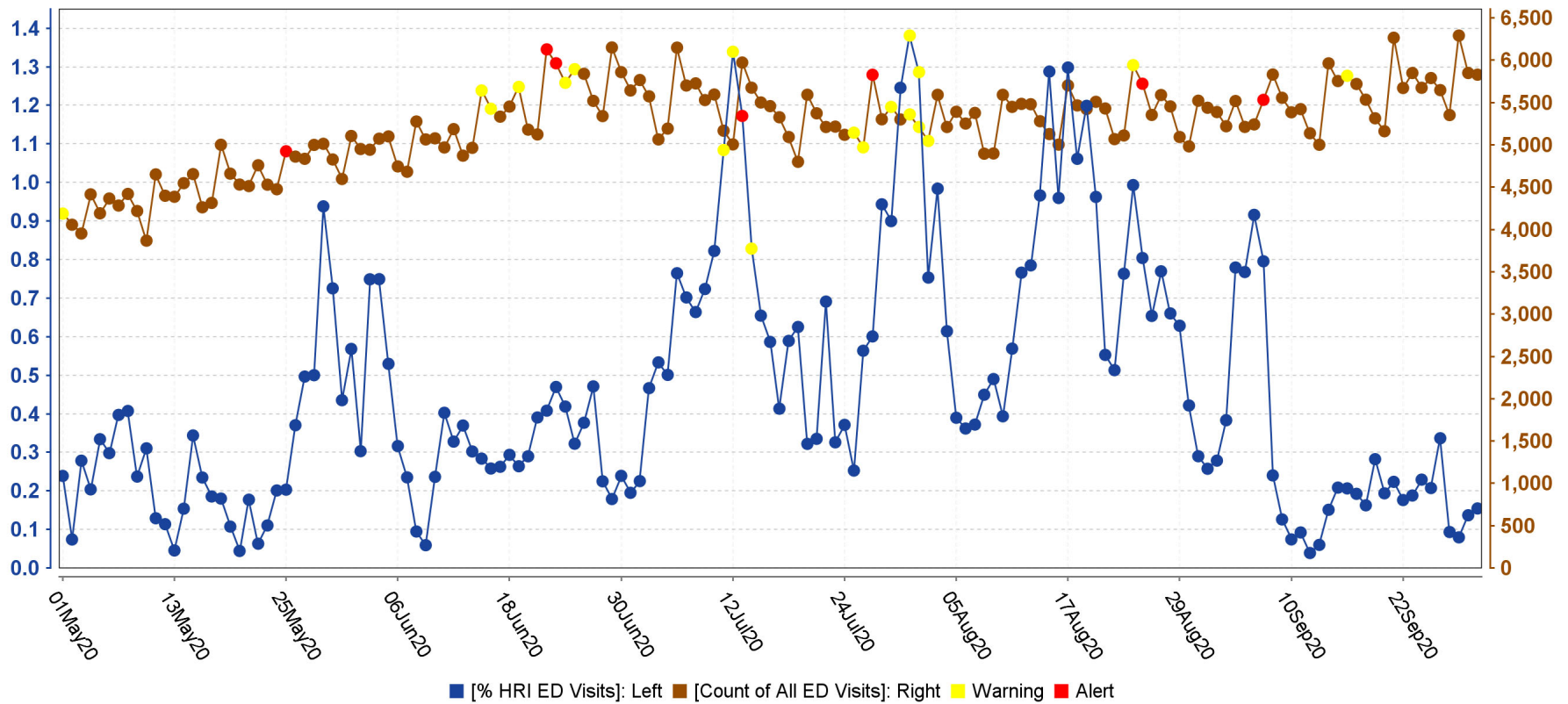
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Heat-Related and Heat-Caused Illness Emergency Department Visits, 2008-2019



Daily % of HRI ED Visits in Arizona vs Daily Count of ED Visits, May-Sept 2020

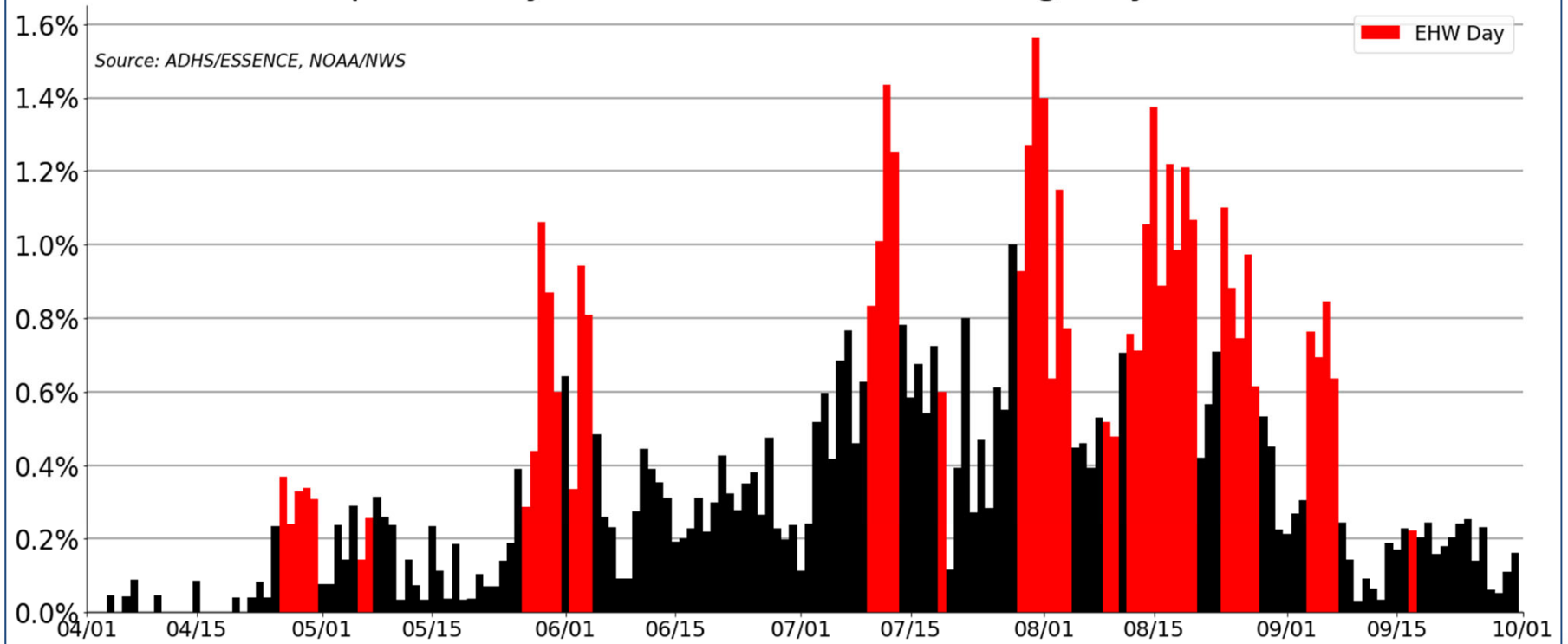


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Maricopa County 2020 Heat-Related Emergency Room Visits

Source: ADHS/ESSENCE, NOAA/NWS



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Heat-Related Illness Syndromic Surveillance Summary, May-September 2020

- **3,700+** ED visits
- **73%** Male
- **44%** Young Adults aged 18-44 yrs & **33%** Middle-Aged Adults aged 45-64 yrs
- **56%** White non-Hispanic & **23%** Hispanic and
- **94%** occurred in Maricopa, Mohave, Pima, Pinal, and Yuma counties



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Heat-Related Deaths Summary, 2015-2019

- Average **229 deaths per year**, and **exceeded 250 deaths the last 3 years**
- **75%** were Male
- **72%** were Adults 45+ years
- **77%** were Arizona residents
- Most deaths occurred in Southern Arizona Counties
- **96%** of cases occurred from May-September



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Preliminary Heat-Related Deaths Summary, 2020*

- **467 heat-related deaths reported* - historical record**
- **77% Male**
- **72% AZ Residents**
- **69% Adults aged 45+ years**
- Majority of deaths occurred in Maricopa, Pima, Mohave, Yuma, and Pinal counties

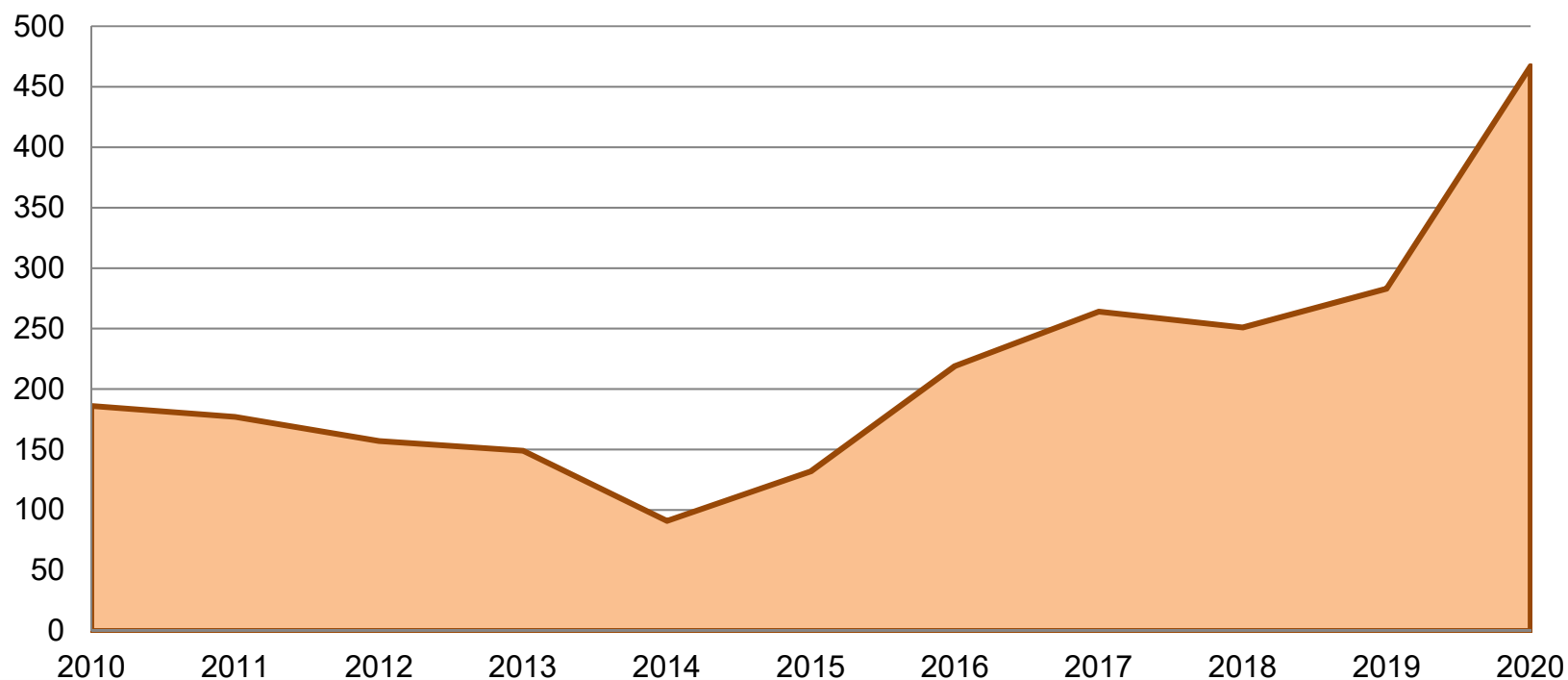


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*Data presented for 2020 is preliminary.

Heat-Related Deaths in Arizona, 2010-2020*

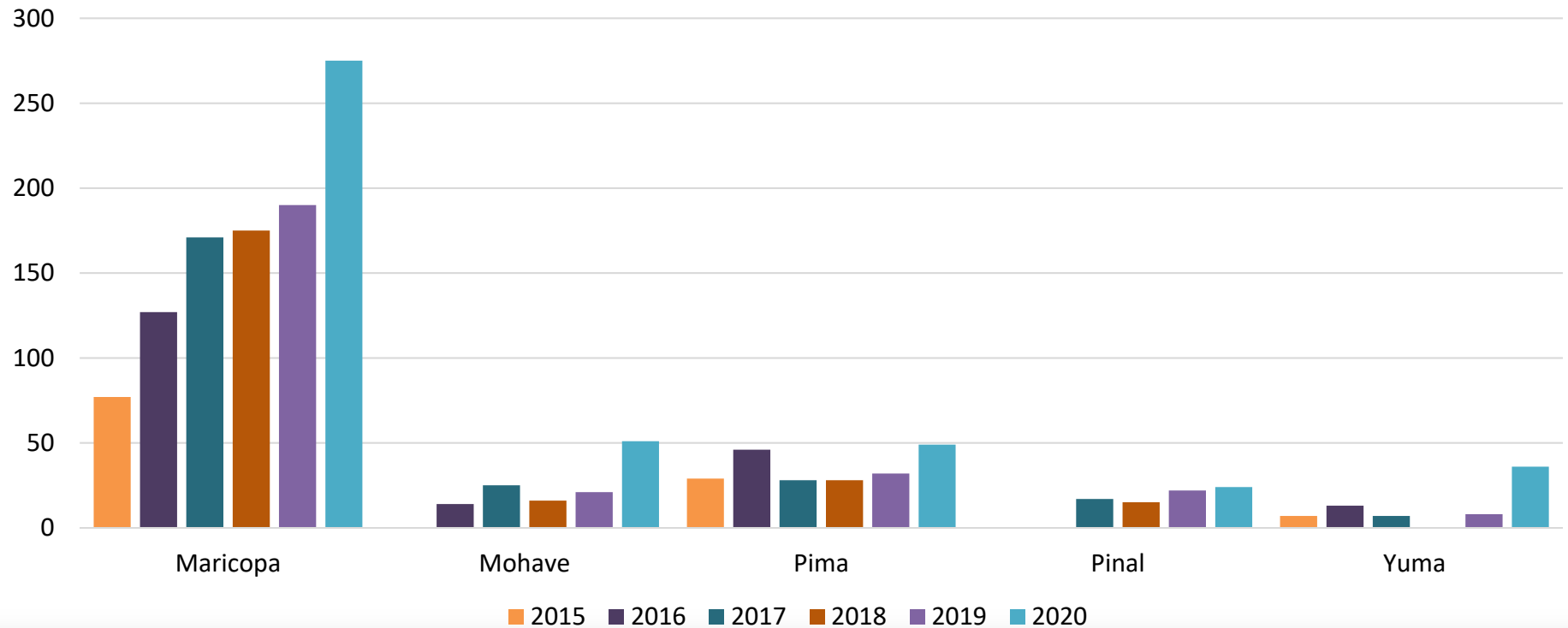


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Heat-Related Deaths by County, 2015-2020*

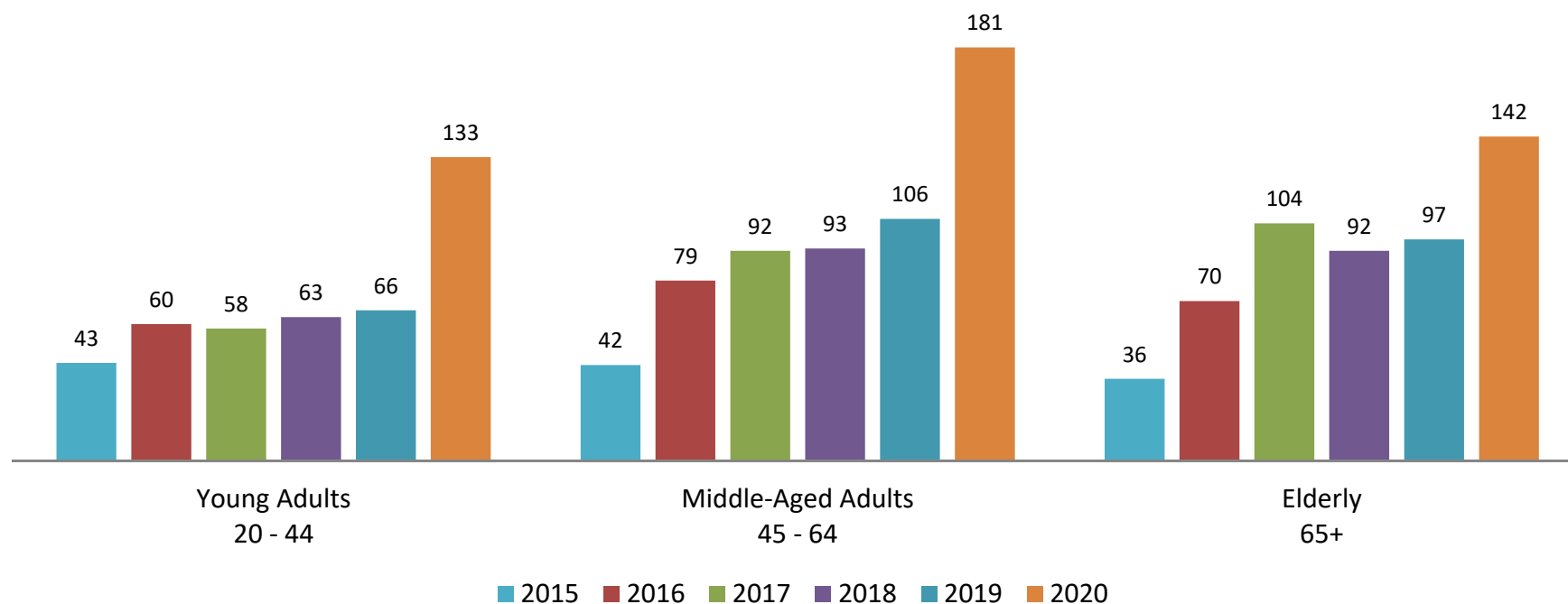


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Heat-Related Deaths in Arizona by Age Group, 2015-2020*

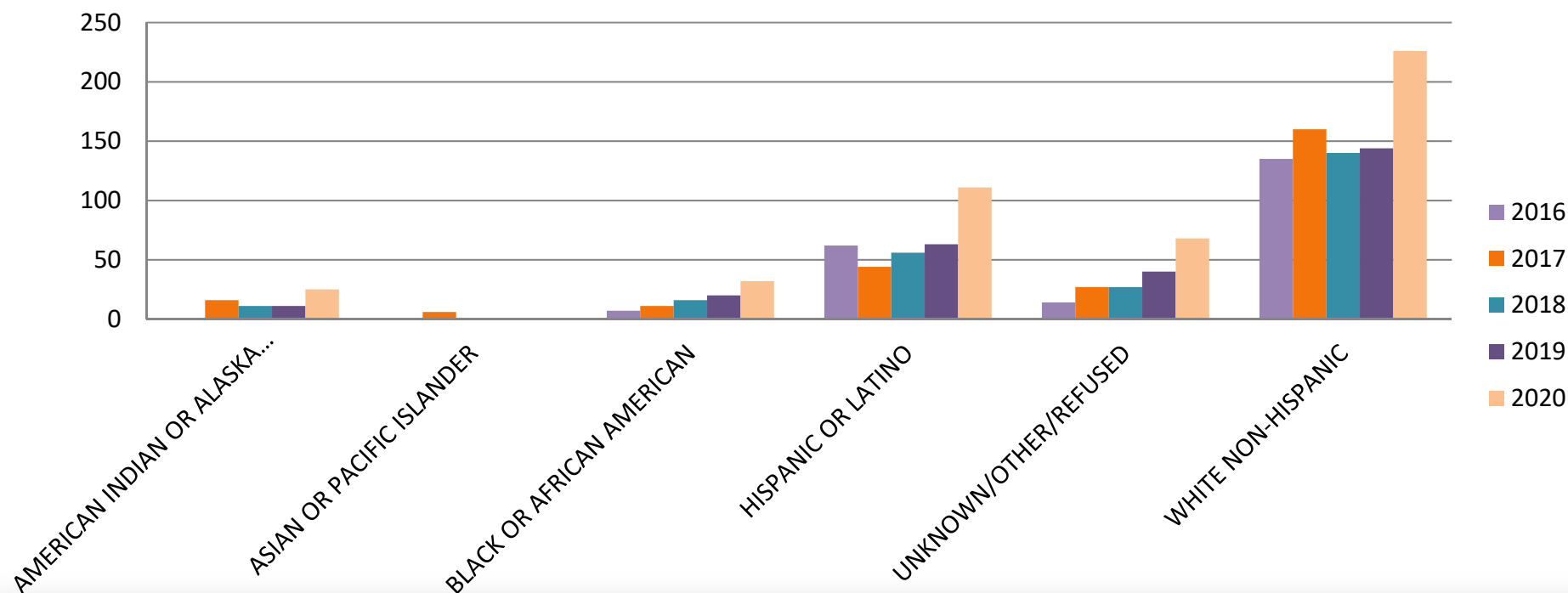


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Heat-Related Deaths in Arizona by Race and Ethnicity, 2016-2020*

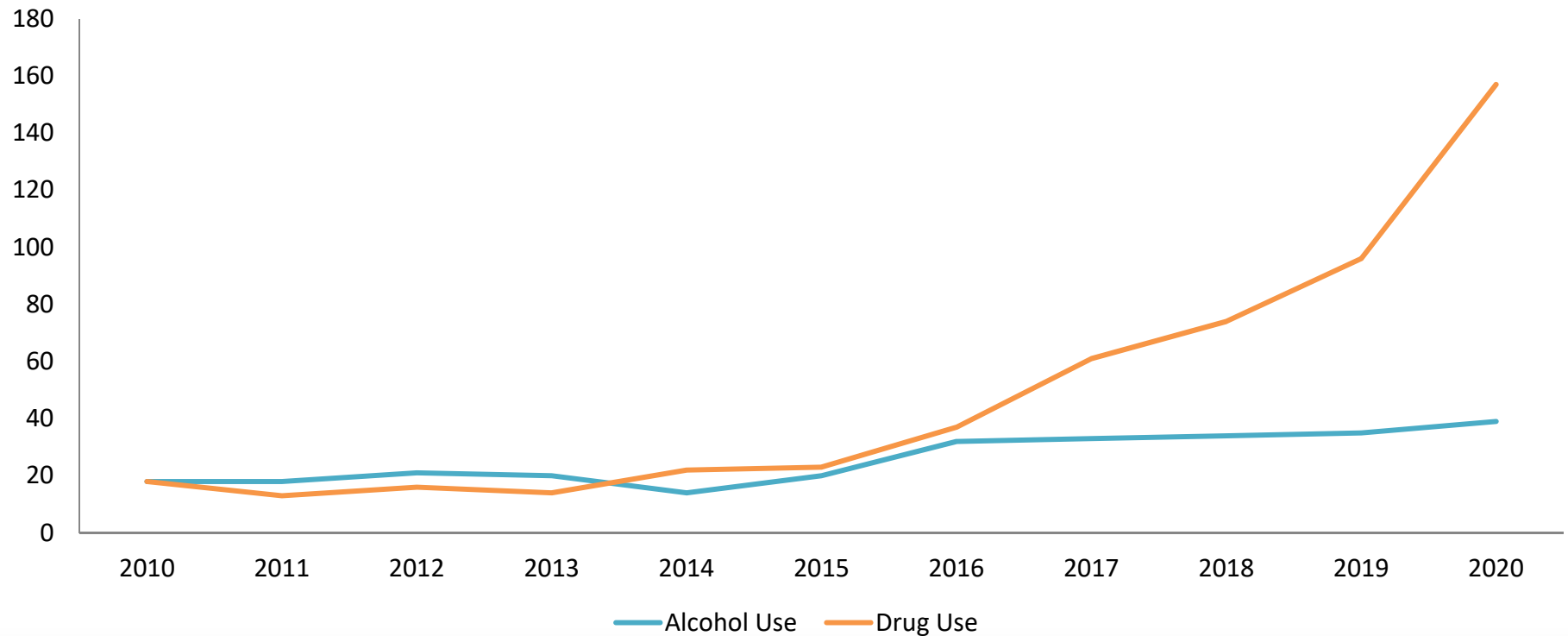


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Substance Use Among Heat-Related Deaths by Year, 2010-2020*



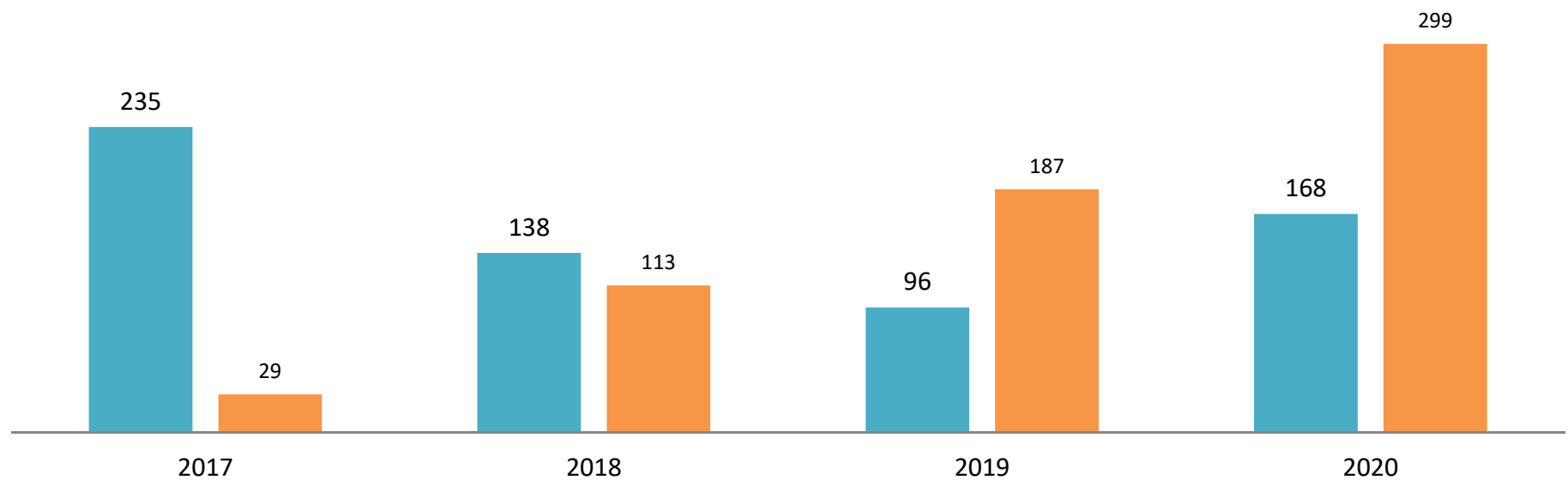
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Preliminary Heat-Related Deaths in Arizona by Key Word Search, 2017-2020*

Other Outdoor- Keyword Search



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Thank you!

Contact Info

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ADHS Heat Safety Page

azdhs.gov/Heat

Environmental Public Health Tracking
Program

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