

# **Public Health Preparedness Report**

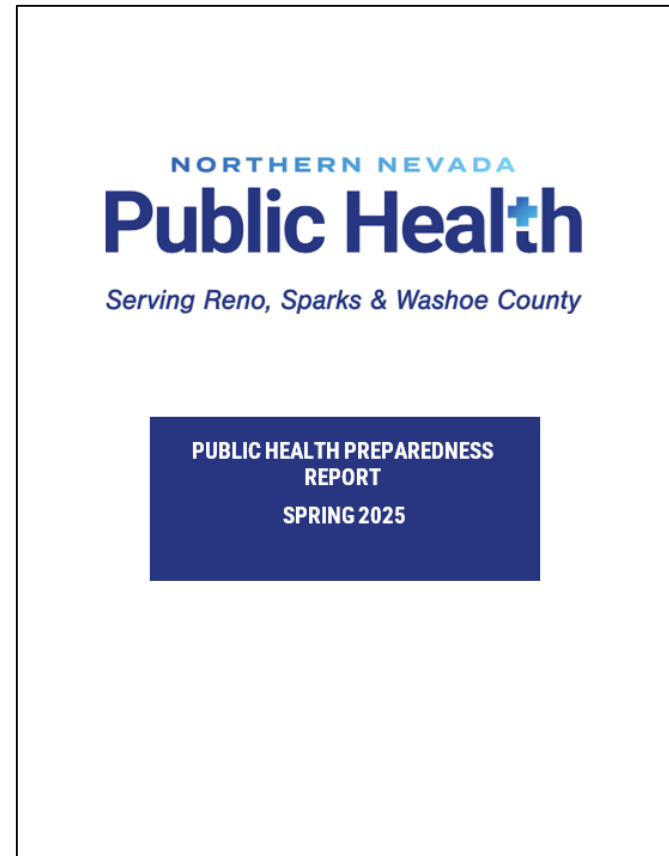
**District Board of Health - May 2025**

**Presentation by: Anastasia Gunawan, MPH**

**Epidemiology and Public Health Preparedness Division**

# Purpose

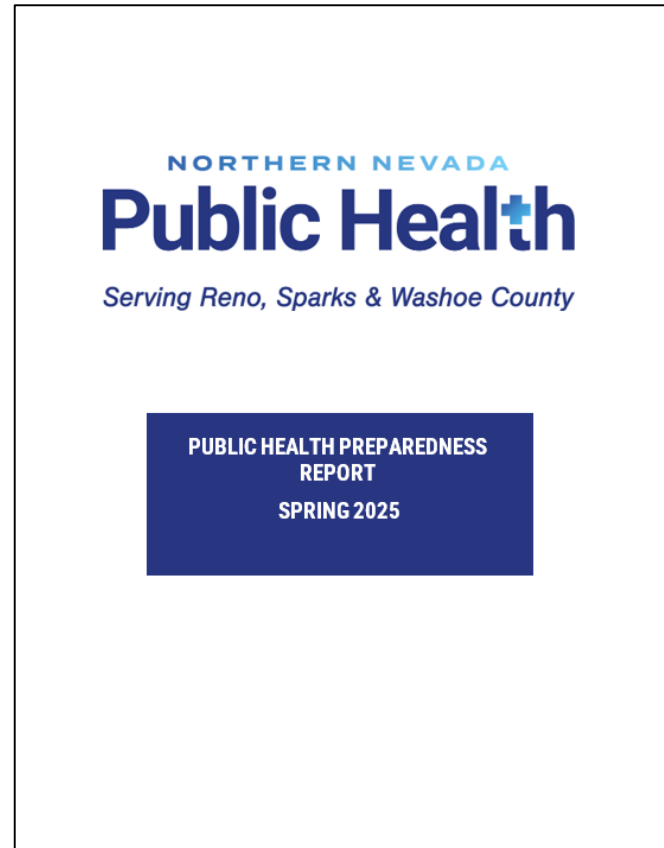
- Transparency of preparedness and collaboration
- Building community resilience
- Provide evidence-based recommendation for internal planning
- Every three years publication

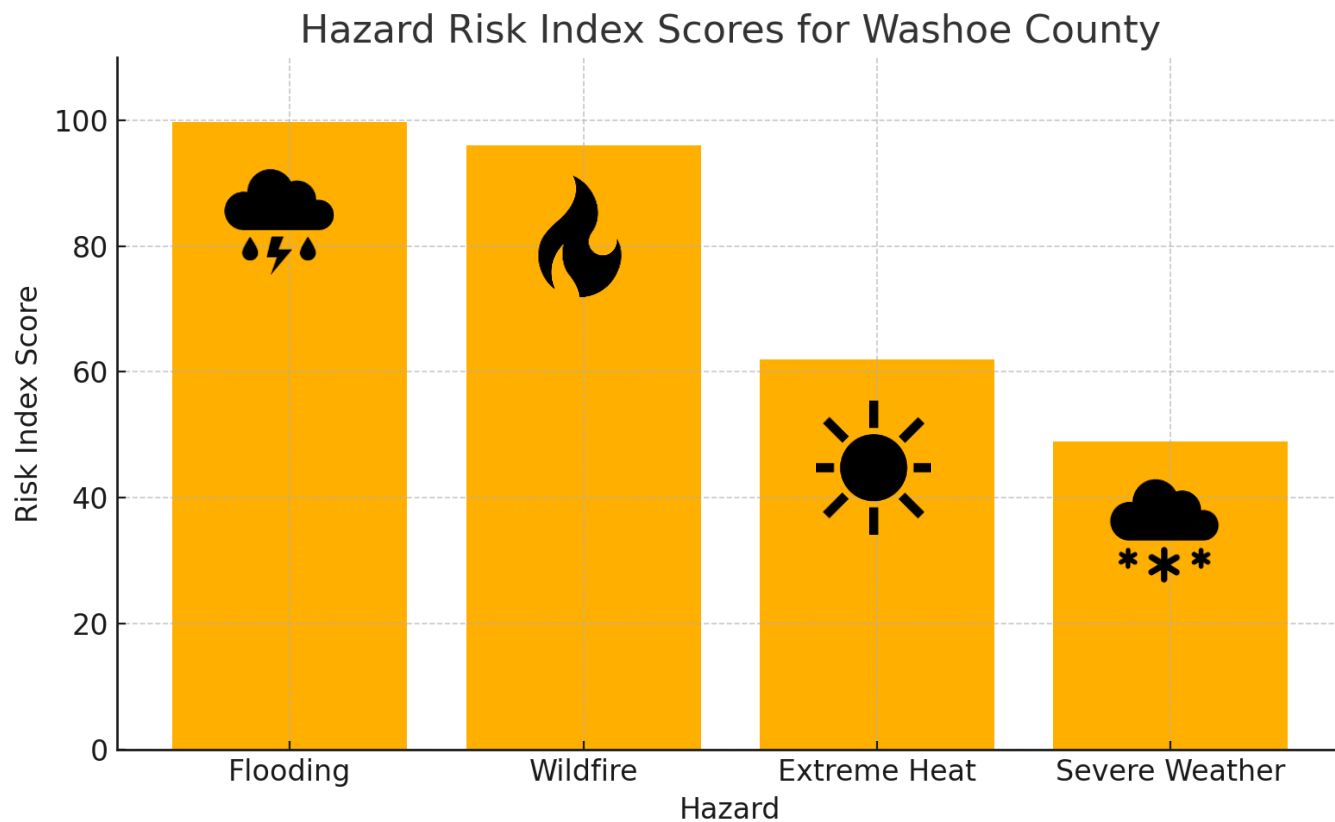


# Sections

What goes into this report?

- Legal authority (NRS 439/414)
- Environmental risk data that integrate social determinants of health
- Technical capabilities overview (real-time surveillance systems for population health NSSP/ESSENCE, emPOWER)
- Stories in the field = stories of building climate resilient communities





Source: FEMA, National Risk Index for Natural Hazards, County View (Washoe County, NV).  
Available at <https://hazards.fema.gov/nri/>.

# Severe Weather (RS:49) & Flooding (RS:99.7)

## Historical Events

- Record breaking precipitation and snowfall (November 2023) in Washoe County
- Flash floods affected 100+ homes (July 2024)

SOURCE: FEMA. NATIONAL  
RISK INDEX. NORTHERN  
NEVADA PUBLIC HEALTH.



# Wildfire (RS:97)

## Historical Events

- Verdi Fire (2023, 2024)
- Davis Fire (2024)
- Callahan Fire (2024)
- Growing urban wildland interfaces in Washoe County

SOURCE: FEMA. NATIONAL  
RISK INDEX. NORTHERN  
NEVADA PUBLIC HEALTH.



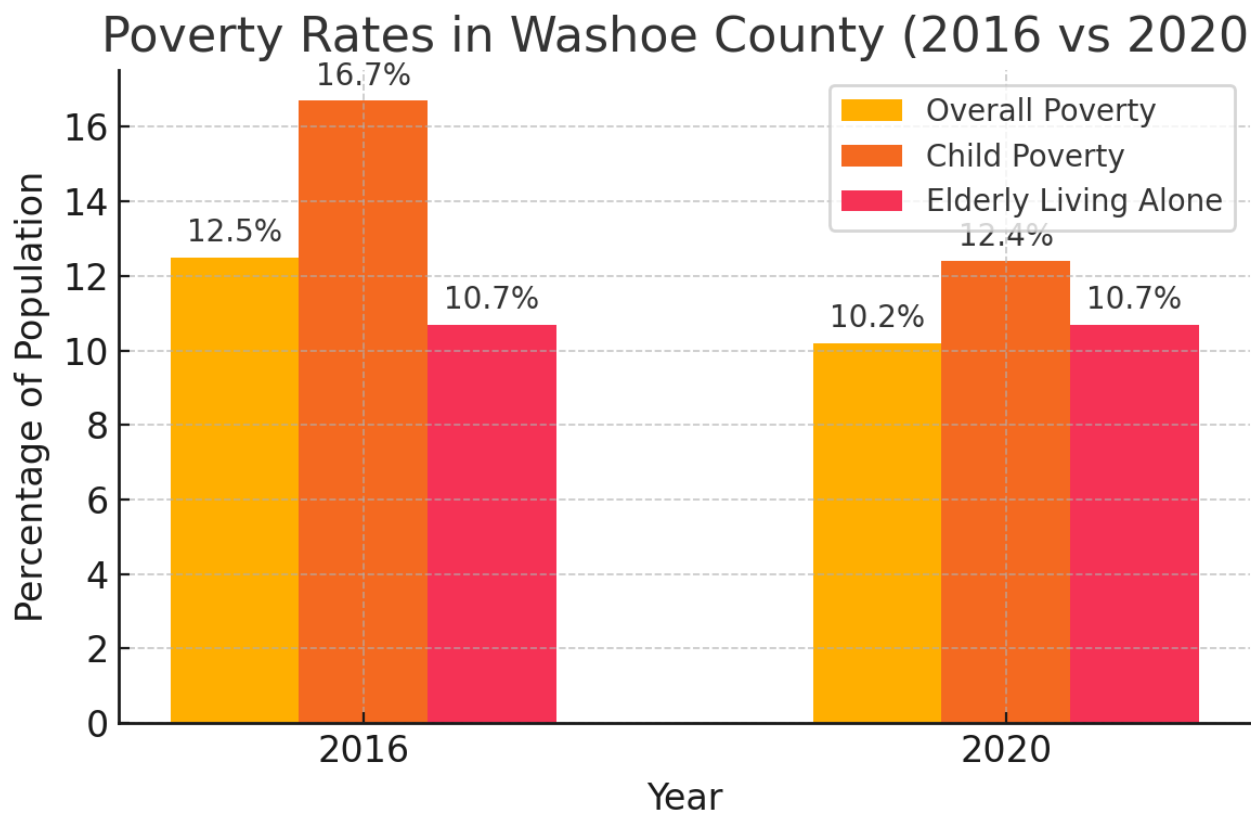
# Extreme Heat (RS:62)

## Historical Events

- Days above 90°F projected to double from 16 days to 34 days (1 month)
- Cooling centers for vulnerable population

SOURCE: FEMA. NATIONAL RISK INDEX. NORTHERN NEVADA PUBLIC HEALTH.





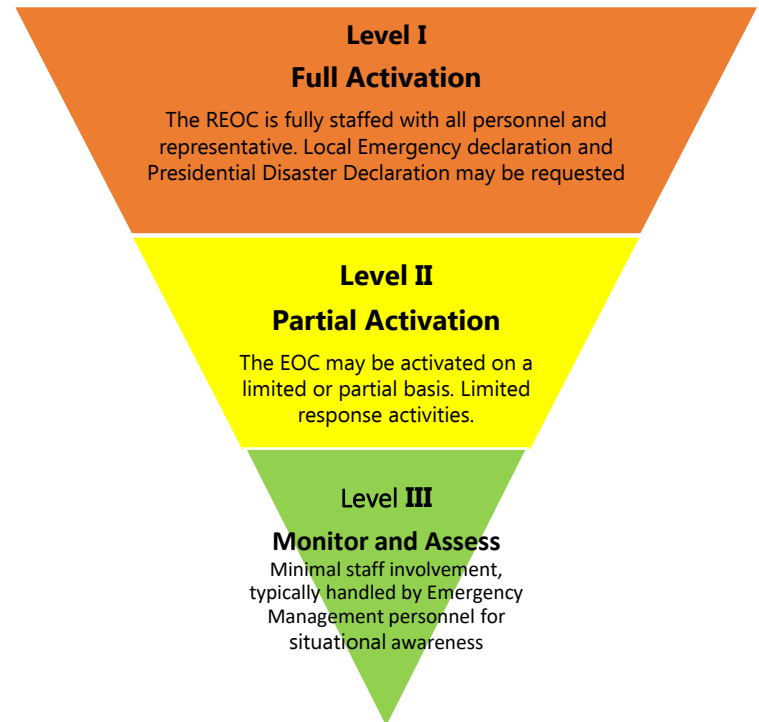
Source: National Environmental Public Health Tracking Network, "HEAT & HEAT-RELATED ILLNESS (HRI) | VULNERABILITY & PREPAREDNESS: HEAT," Washoe County, NV.

# Emergency Operations Framework

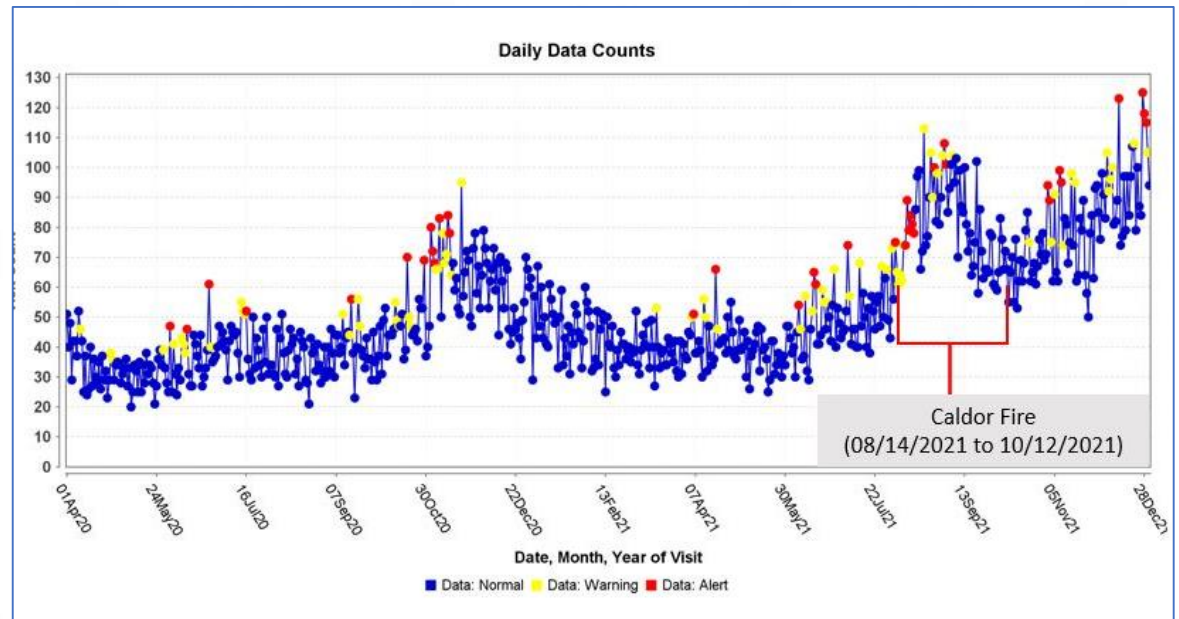
## Response Guide

- Northern Nevada Public Health Emergency Operation Plan (EOP)
- Incident Command System (ICS)
- Regional Partnership(s)
  - Nevada Division of Emergency Management
  - Washoe Emergency Management
  - Washoe Regional Emergency Information Center

## LEVELS OF ACTIVATION



# CDC ESSENCE/ NSSP



# HHS emPOWER

## AT-RISK ELECTRICITY DEPENDENT POPULATIONS DASHBOARD WITH DURABLE MEDICAL EQUIPMENT (DME) USERS AND LOOKBACK PERIODS

### Background

At Risk Electricity Dependent Population Dashboard is powered by HHS emPOWER dataset. The emPOWER Program is a collaboration between the Administration for Strategic Preparedness and Response (ASPR) and the Centers for Medicare & Medicaid Services (CMS) designed to give public health authorities timely, population-level insight into where Medicare beneficiaries who rely on electricity-dependent medical equipment and essential health services live and how they may be affected by emergencies.

### Purpose

Enables targeted planning such as resource allocation, shelter planning, and power restoration prioritization for community based at risk populations before, during and after disasters.

Last updated: February 2025.  
Northern Nevada Public Health, Population Health Division.

County  
Multiple selections

Zip Code  
All

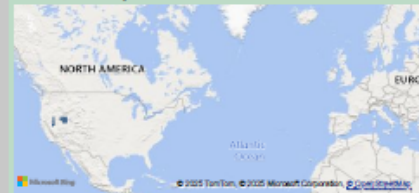
Number of Medicare Beneficiaries

110K

Number of Beneficiary Addresses

90K

At-risk electricity dependent populations by county and ZIP code (Powered by HHS emPOWER dataset)



[O2 Concentrators \(36 months\)](#)

6526

[Cardiac Devices \(5 years\)](#)

143

[Infusion Pumps \(13 months\)](#)

285

[Suction Pumps \(13 months\)](#)

132

[Ventilators \(13 months\)](#)

220

[BiPAPs \(13 months\)](#)

553

[Electric Beds \(13 months\)](#)

296

[Motorized Vehicle or Scooters \(13 months\)](#)

243

## PHP/CDC Exercise Training



# Ongoing Initiative(s)

## Public Health Preparedness

- **Enhanced Training** - Expand POD & Mass Casualty Incident exercises with climate disaster scenarios
  - Earthquake workshop and exercise (May 2025)
- **Community Outreach** - Urban heat island mapping and cooling centers for vulnerable populations
- **Infrastructure Investments** - Urban wildland fire prevention efforts
  - Defensible space inspections for high-risk areas
  - Curbside yard debris recycling
  - Ongoing fuel reduction projects



# THANK YOU



NORTHERN NEVADA  
**Public Health**+