

# National Study of Treatment and Addiction Recovery Residences Report Nevada

**The National Study of Treatment and Addiction Recovery Residences (NSTARR)** constitutes the largest and most diverse study of recovery housing in the US to date. NSTARR compiled data from publicly available sources (e.g., Oxford House, National Alliance for Recovery Residences, and Substance Abuse and Mental Health Services Administration websites) and lists maintained by entities tracking recovery housing. Residences for which locating information was available were geocoded and linked with U.S. Census data on urbanicity, alcohol- and drug-involved mortality, and COVID vulnerability. Data collection began in January 2020 and is ongoing until June 2023. The NSTARR database currently contains information on 10,358 residences operated by 3,628 providers in all 50 states. For a detailed description of methods and national findings, please see Mericle et al., 2022.

## KEY FINDINGS

The NSTARR team identified 33 recovery residences (1.11 houses per 100,000 population) in Nevada (see Table 1). Compared to other states (which include DC), Nevada ranked 46 in terms of recovery housing availability per capita. Seventy-nine percent of residences in Nevada could be geocoded for these analyses. Churchill County, an adjacent rural county, had the most recovery residences per 100,000 population, and 14 counties had no identified recovery residences, representing a mix of rural-urban classifications; 15 (all but one county in the state) had fewer than 5 recovery residences (see Figure 1).

We used geographic information systems to identify hot and cold spots in Nevada. A hot spot is a cluster of high values (county with a high number of residences surrounded by other counties with high numbers of residences) and a cold spot is a cluster of low values (county with low counts surrounded by counties also with low counts). However, we were unable to identify hot and cold spots in Nevada because the Getis-Ord  $G_i^*$  Hot Spot Analysis tool requires a minimum of 30 input features (counties) for it to work best.

The age-adjusted alcohol- and drug-involved mortality rate (per 100,000 population) was 23.90 in Nevada for the years 2009-2019. Nevada ranked 16 on alcohol- and drug-involved mortality out of the 50 states and DC. Among the counties ranked, Mineral County had the highest alcohol- and drug-involved mortality rate and Elko County had the lowest alcohol- and drug-involved mortality rate. Of the three counties that had the highest mortality rates in Nevada (i.e., Mineral, Nye, and Carson City), all three of them also ranked in the bottom half recovery housing availability per capita, suggesting more recovery resources may be needed (see Table 1 and Figure 2).

COVID vulnerability was summarized using the county-level data from the Centers for Disease Control and Prevention's COVID Vulnerability Index (CCVI). The CCVI is a composite measure of seven social determinants of health, encompassing modified themes from the Centers for Disease Control and Prevention's Social Vulnerability Index in combination with COVID risk factors to identify communities in need of additional support during the COVID pandemic. One county was classified as having very high vulnerability, and this county was located in an area ranked in the bottom half of recovery housing availability per capita, again suggesting that more recovery resources may be needed (see Table 1 and Figure 3).

33

RESIDENCES  
TOTAL

46

NATIONAL  
AVAILABILITY  
RANKING

14

COUNTIES  
WITHOUT  
RESIDENCES

Table 1. County-level Descriptive Statistics on Recovery Residences

County Name	Population <sup>1</sup>	RUCC Classification <sup>2</sup>	Number of Recovery Residences <sup>3</sup>	Recovery Residences Per 100,000 Population	Recovery Residences Availability per Capita (Rank) <sup>4</sup>	Age-Adjusted Alcohol/Drug Mortality <sup>5</sup> Rate per 100,000 Population	Mortality Rate (Rank) <sup>6</sup>	CCVI Quintile <sup>7</sup>
<b>NEVADA</b>	2,972,382		33	1.11	46	23.90	16	
<b>Carson City</b>	54,773	Urban	0	0.00	17	70.40	3	Very high vulnerability
<b>Churchill</b>	24,259	Adjacent rural	1	4.12	1	62.20	4	Low
<b>Clark</b>	2,182,004	Urban	14	0.64	3	41.90	13	High
<b>Douglas</b>	48,132	Adjacent rural	0	0.00	17	42.90	12	Low
<b>Elko</b>	52,297	Non-adjacent rural	0	0.00	17	34.20	15	Low
<b>Esmeralda</b>	969	Non-adjacent rural	0	0.00	17	Suppressed	-	Low
<b>Eureka</b>	1,859	Non-adjacent rural	0	0.00	17	Suppressed	-	Very low vulnerability
<b>Humboldt</b>	16,828	Non-adjacent rural	0	0.00	17	61.20	5	Low
<b>Lander</b>	5,643	Non-adjacent rural	0	0.00	17	57.60	7	Low
<b>Lincoln</b>	5,180	Adjacent rural	0	0.00	17	40.10	14	Very low vulnerability
<b>Lyon</b>	54,380	Adjacent rural	0	0.00	17	53.10	9	Low
<b>Mineral</b>	4,460	Non-adjacent rural	0	0.00	17	93.50	1	Moderate
<b>Nye</b>	44,380	Adjacent rural	0	0.00	17	71.10	2	Moderate
<b>Pershing</b>	6,615	Non-adjacent rural	0	0.00	17	43.60	11	Moderate
<b>Storey</b>	3,988	Urban	0	0.00	17	46.10	10	Very low vulnerability
<b>Washoe</b>	456,936	Urban	11	2.41	2	59.20	6	Moderate
<b>White Pine</b>	9,679	Non-adjacent rural	0	0.00	17	54.70	8	Very low vulnerability

<sup>1</sup>Population data were downloaded from tables in Social Explorer's ACS five-year estimate (2015-2019). American Community Survey 5-year Estimates, 2015-2019. Social Explorer tables, ACS 2015-2019. Social Explorer.

<sup>2</sup>The Rural-Urban Continuum Code (RUCC) was used to classify each county as urban, adjacent rural, or non-adjacent rural. Urban counties are counties with codes 1 (Counties in metro areas of 1 million population or more), 2 (Counties in metro areas of 250,000 to 1 million population), and 3 (Counties in metro areas of fewer than 250,000 population). Adjacent rural counties are counties with codes 4 (Urban population of 20,000 or more, adjacent to a metro area), 6 (Urban population of 2,500 to 19,999, adjacent to a metro area), and 8 (Completely rural or less than 2,500 urban population, adjacent to a metro area). Non-adjacent rural counties are the remaining three codes - 5 (Urban population of 20,000 or more, not adjacent to a metro area), 7 (Urban population of 2,500 to 19,999, not adjacent to a metro area), and 9 (Completely rural or less than 2,500 urban population, not adjacent to a metro area). Rural-Urban Continuum Code (RUCC). <https://www.ers.usda.gov/data-products/rural-urban-continuum-codes.aspx>

<sup>3</sup>Recovery residences are from the NSTARR project and are current as of 2020. Seven (7) recovery residences in the state were not successfully geocoded due to lack of adequate address information, and thus were not assigned to a county.

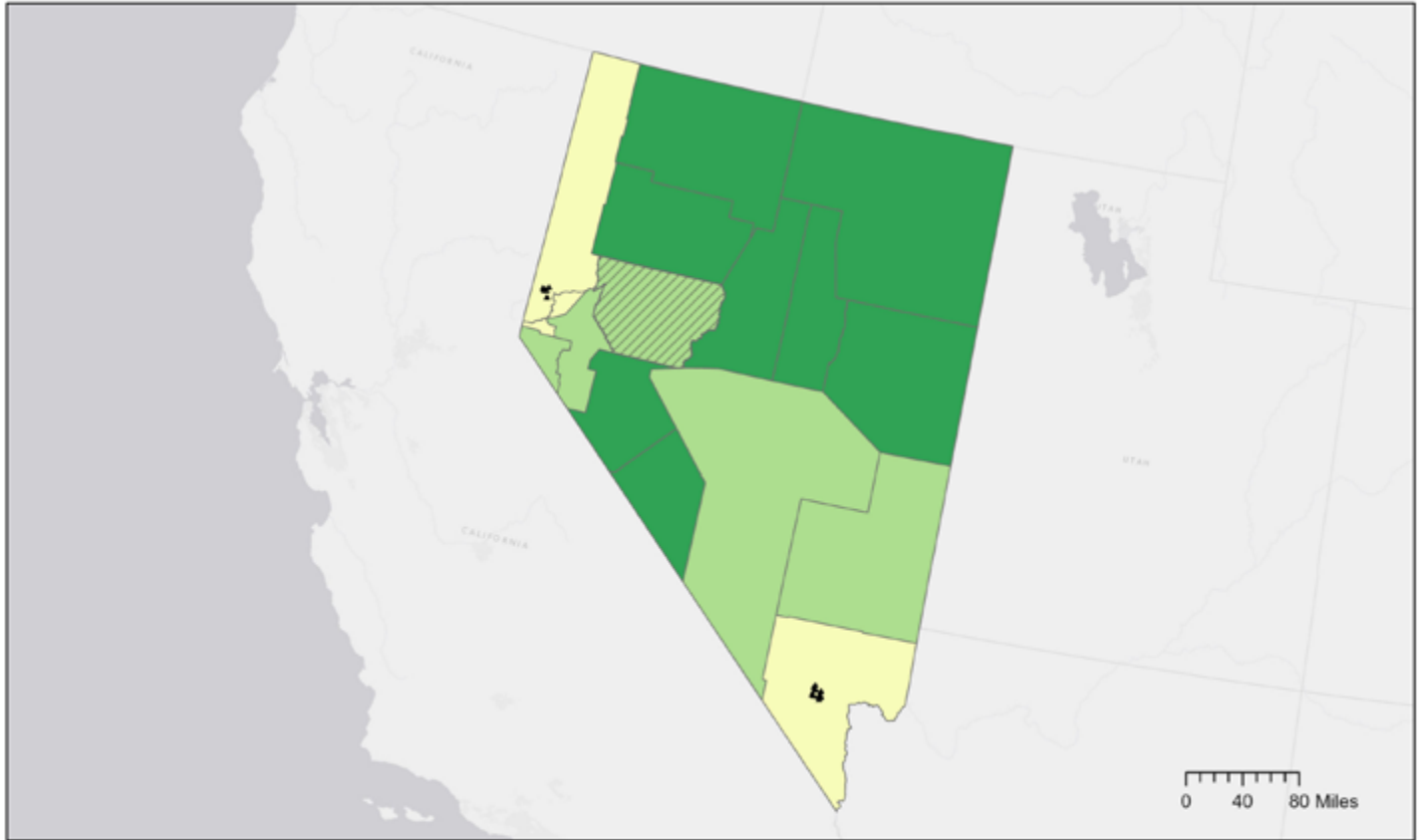
<sup>4</sup>Recovery residences availability per capita is ranked in order of decreasing recovery residence density per 100,000 population per county, with 1 (highest number of residences per 100,000) to 17 (lowest number of residences per 100,000 population). Counties without recovery residences were all assigned a tied rank of 17.

<sup>5</sup>Alcohol- and drug-involved mortality included all deaths as underlying causes of death and selected ICD-10 codes mentioning or attributed to alcohol or drugs as contributing cause of death. Data from the Centers for Disease Control and Prevention, 2020. CDC Wonder (Wide-ranging Online Data for Epidemiologic Research). U.S. Department of Health and Human Services, Atlanta, GA. Available at: <https://wonder.cdc.gov/>. For more information on coding multiple causes of death, see: Centers for Disease Control and Prevention, About Multiple Cause of Death, 1999-2019. <https://wonder.cdc.gov/mcd-icd10.html> accessed on August 9 2021.

<sup>6</sup>Mortality rate is ranked in order of decreasing alcohol- and drug-involved mortality from 1 (highest mortality per 100,000 population) to 15 (lowest mortality per 100,000 population).

<sup>7</sup>COVID-19 Community Vulnerability Index (CCVI) scores range in value from 0 – 1, with 0 being least vulnerable and 1 being the most vulnerable. Each county is ranked relative to all counties across the country, based on seven themes/domains. Each county was grouped into quintiles: very high (score of 0.8-1), high (0.6-0.8), moderate (0.4-0.6), low (0.2-0.4), and very low (0-0.2). For more information on how the CCVI I is calculated, see: COVID-19 Community Vulnerability Index (CCVI) methodology. Retrieved from [https://covid-static-assets.s3.amazonaws.com/US-CCVI/COVID-19+Community+Vulnerability+Index+\(CCVI\)+Methodology.pdf](https://covid-static-assets.s3.amazonaws.com/US-CCVI/COVID-19+Community+Vulnerability+Index+(CCVI)+Methodology.pdf)

Figure 1. Distribution of Residences by Rural-Urban Classification



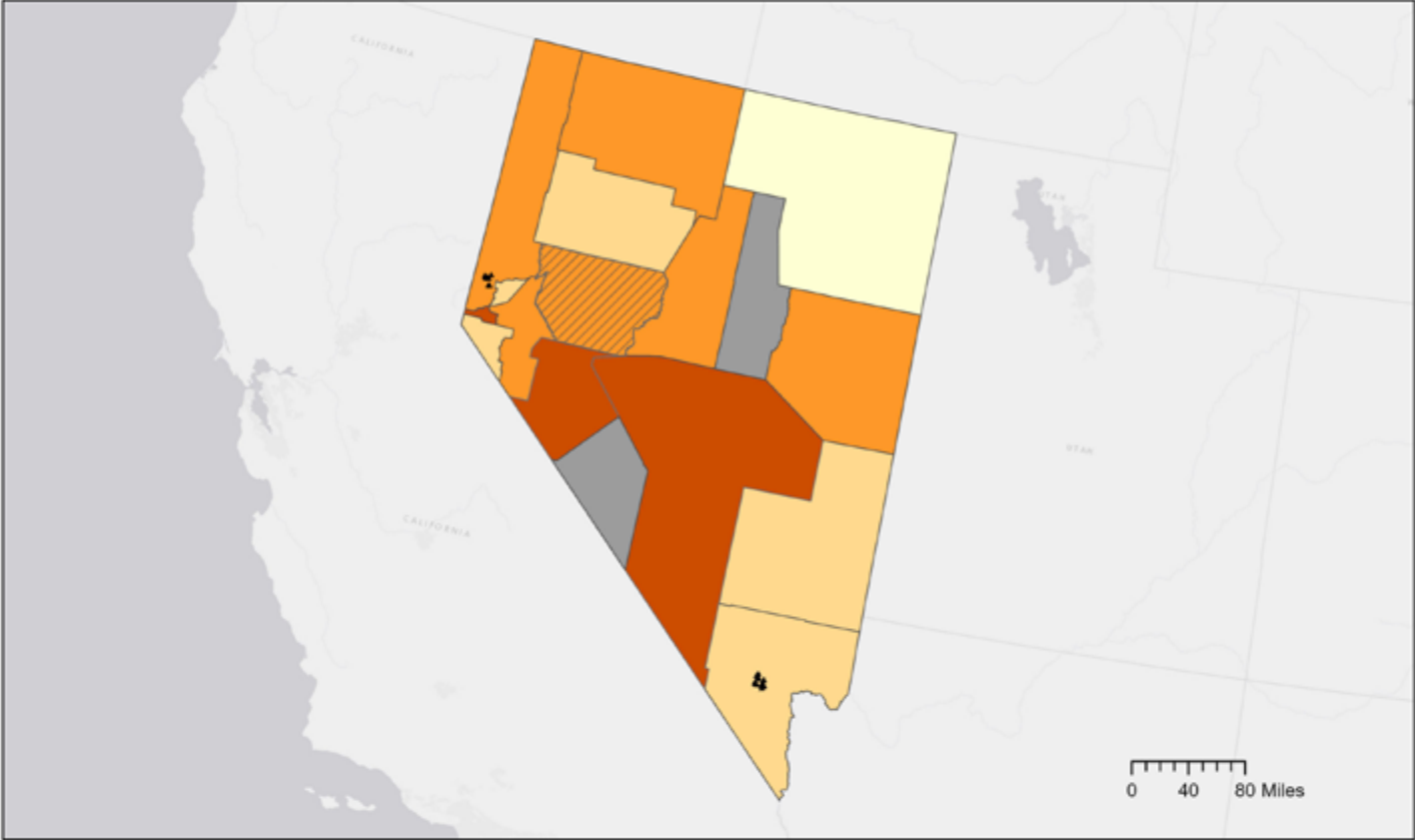
- ▲ Recovery residences
- Rural-Urban Classification Code (RUCC)**
- Urban
- Adjacent rural
- Non-adjacent rural
- Counties with residence locations suppressed (1-4 residences) to protect privacy



Data Credits: Esri, HERE, Garmin, USGS, EPA, NPS  
Recovery residence locations: 2020  
Created by: NSTARR Project (May 2022)



Figure 2. Distribution of Residences by Age-adjusted Alcohol- and/or Drug-involved Mortality



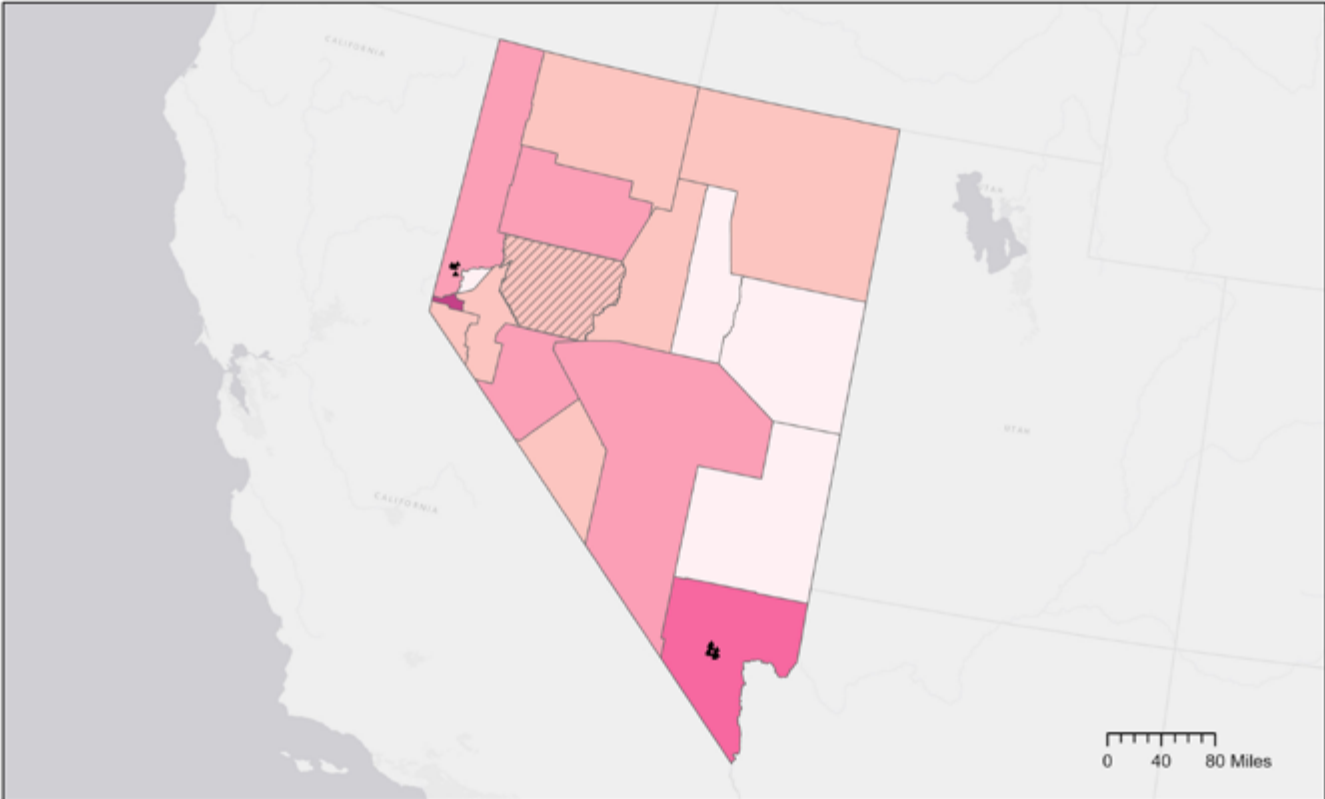
- ▲ Recovery residences
- Age-adjusted alcohol and drug mortality rate per 100,000 population
- 34
- 35 - 46
- 47 - 62
- 63 - 93
- Suppressed/Unreliable
- Counties with residence locations suppressed (1-4 residences) to protect privacy



Data Credits: Esri, HERE, Garmin, USGS, EPA, NPS  
 Recovery residence locations: 2020  
 Created by: NSTARR Project (May 2022)



Figure 3. Distribution of Residences by COVID-19 Community Vulnerability Index



- ▲ Recovery Residences
- COVID-19 Community Vulnerability Index (CCVI)
- Very low vulnerability
- Low
- Moderate
- High
- Very high vulnerability
- Countries with residence locations suppressed (1-4 residences) to protect privacy



Data Credits: Esri, HERE, Garmin, USGS, EPA, NPS  
 Recovery residence locations: 2020  
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National Study of Treatment and Addiction Recovery Residences  
6001 Shellmound Street, Suite 450  
Emeryville, CA 94608

 [nstarr.arg.org](http://nstarr.arg.org)  [nstarr@arg.org](mailto:nstarr@arg.org)  [@NSTARRStudy](https://www.facebook.com/NSTARRStudy)  [@arg\\_nstarr](https://twitter.com/arg_nstarr)

Funding for this project was provided by the National Institute on Alcohol Abuse and Alcoholism at the National Institutes of Health under award R01AA027782 (PI: Mericle).

