

National Study of Treatment and Addiction Recovery Residences Report New Hampshire

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 57 recovery residences (4.23 houses per 100,000 population) in New Hampshire (see Table 1). Compared to other states (which include DC), New Hampshire ranked 15 in terms of recovery housing availability per capita. However, only 68% of residences in New Hampshire could be geocoded for these analyses. Belknap County, an adjacent rural county, had the most recovery residences per 100,000 population, and three counties had no identified recovery residences, representing a mix of rural-urban classifications; eight had fewer than 5 recovery residences (see Figure 1).

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 New Hampshire 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 19.60 in New Hampshire for the years 2009-2019. New Hampshire ranked 23 on alcohol- and drug-involved mortality out of the 50 states and DC. Strafford County had the highest alcohol- and drug-involved mortality rate and Grafton County had the lowest alcohol- and drug-involved mortality rate. Of the three counties that had the highest mortality rates in New Hampshire (i.e., Strafford, Belknap, and Coos), two of them also ranked in the top half recovery housing availability per capita, suggesting recovery housing is located in communities with greater need (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. No counties were classified as having very high vulnerability (see Table 1 and Figure 3).

57
RESIDENCES
TOTAL

15
NATIONAL
AVAILABILITY
RANKING

3
COUNTIES
WITHOUT
RESIDENCES

Table 1. County-level Descriptive Statistics on Recovery Residences

County Name	Population ¹	RUCC Classification ²	Number of Recovery Residences ³	Recovery Residences Per 100,000 Population	Recovery Residences Availability per Capita (Rank) ⁴	Age-Adjusted Alcohol/Drug Mortality ⁵ Rate per 100,000 Population	Mortality Rate (Rank) ⁶	CCVI Quintile ⁷
NEW HAMPSHIRE	1,348,124		57	4.23	15	19.60	23	
Belknap	60,887	Adjacent rural	4	6.57	1	49.00	2	Very low vulnerability
Carroll	48,138	Adjacent rural	1	2.08	6	41.50	6	Very low vulnerability
Cheshire	76,042	Adjacent rural	3	3.95	4	43.90	5	Very low vulnerability
Coos	31,741	Non-adjacent rural	0	0.00	10	48.70	3	Low
Grafton	89,777	Non-adjacent rural	5	5.57	2	34.50	10	Very low vulnerability
Hillsborough	413,035	Urban	22	5.33	3	48.10	4	Low
Merrimack	149,917	Adjacent rural	1	0.67	7	39.30	7	Very low vulnerability
Rockingham	306,359	Urban	0	0.00	10	37.90	8	Very low vulnerability
Strafford	129,124	Urban	3	2.32	5	49.20	1	Very low vulnerability
Sullivan	43,104	Non-adjacent rural	0	0.00	10	37.60	9	Very low vulnerability

¹Population 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.

²The 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>

³Recovery residences are from the NSTARR project and are current as of 2020. Eighteen (18) recovery residences in the state were not successfully geocoded due to lack of adequate address information, and thus were not assigned to a county.

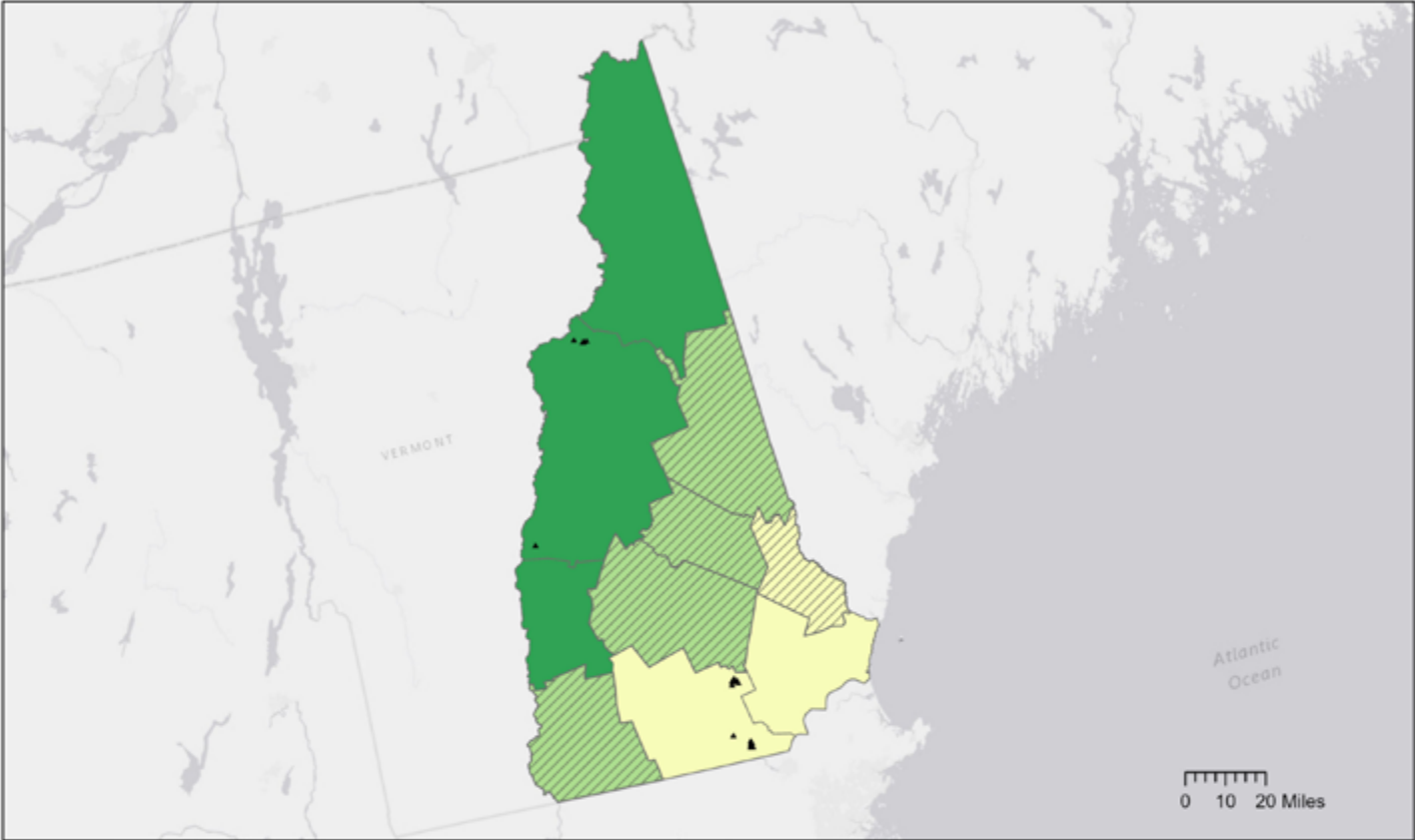
⁴Recovery residences availability per capita is ranked in order of decreasing recovery residence density per 100,000 population per county, with 1 (highest number of residences per 100,000) to 10 (lowest number of residences per 100,000 population). Counties without recovery residences were all assigned a tied rank of 10.

⁵Alcohol- 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.

⁶Mortality rate is ranked in order of decreasing alcohol- and drug-involved mortality from 1 (highest mortality per 100,000 population) to 10 (lowest mortality per 100,000 population).

⁷COVID-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://static-assets.s3.amazonaws.com/US-CCVI/COVID-19+Community+Vulnerability+Index+\(CCVI\)+Methodology.pdf](https://static-assets.s3.amazonaws.com/US-CCVI/COVID-19+Community+Vulnerability+Index+(CCVI)+Methodology.pdf)

Figure 1. Distribution of Residences by Rural-Urban Classification



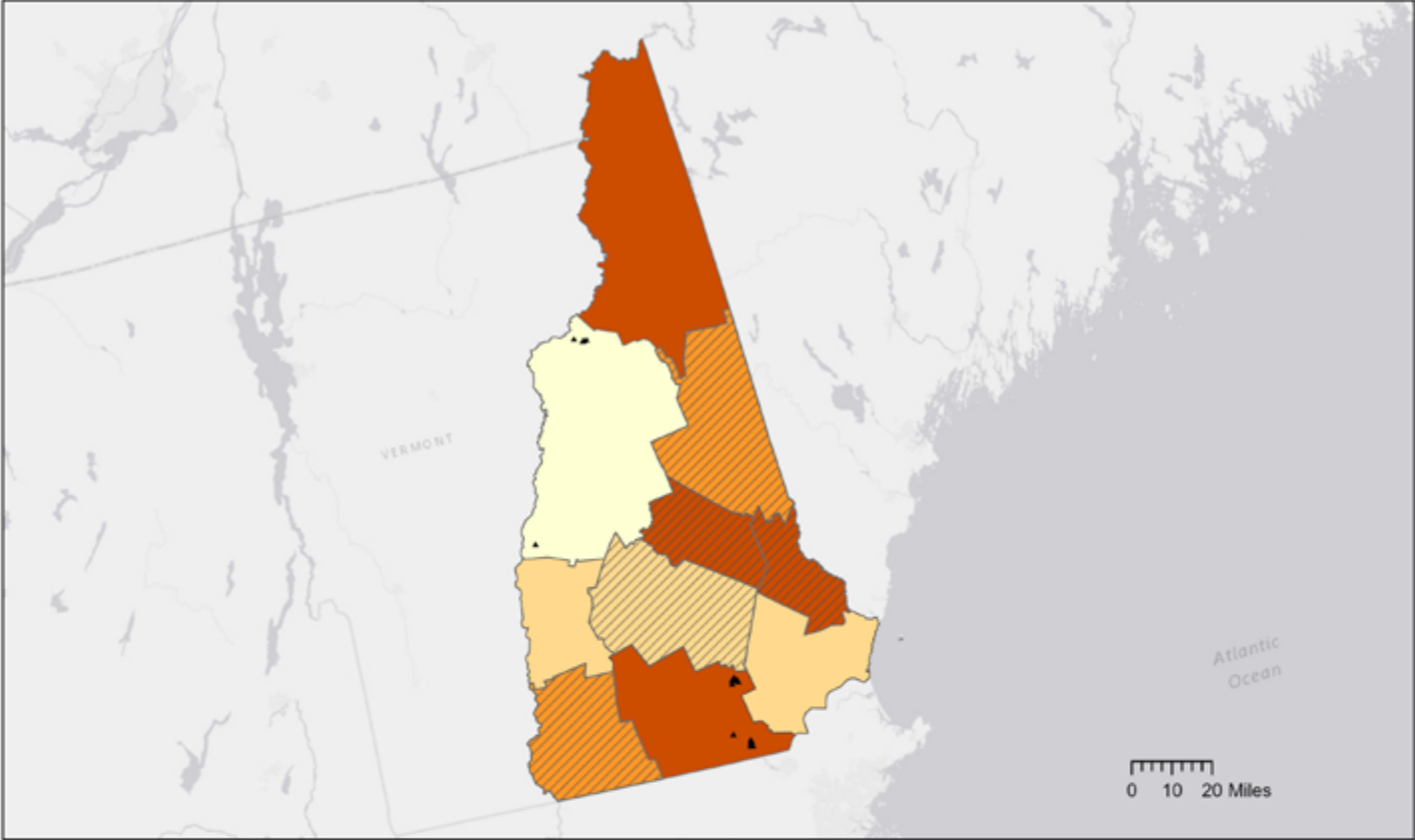
- ▲ Recovery residences
- Rural-Urban Classification Code (RUCC)**
- Urban
- Adjacent rural
- Non-adjacent rural
- Counties with residence locations suppressed (1-4 residences) to protect privacy



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

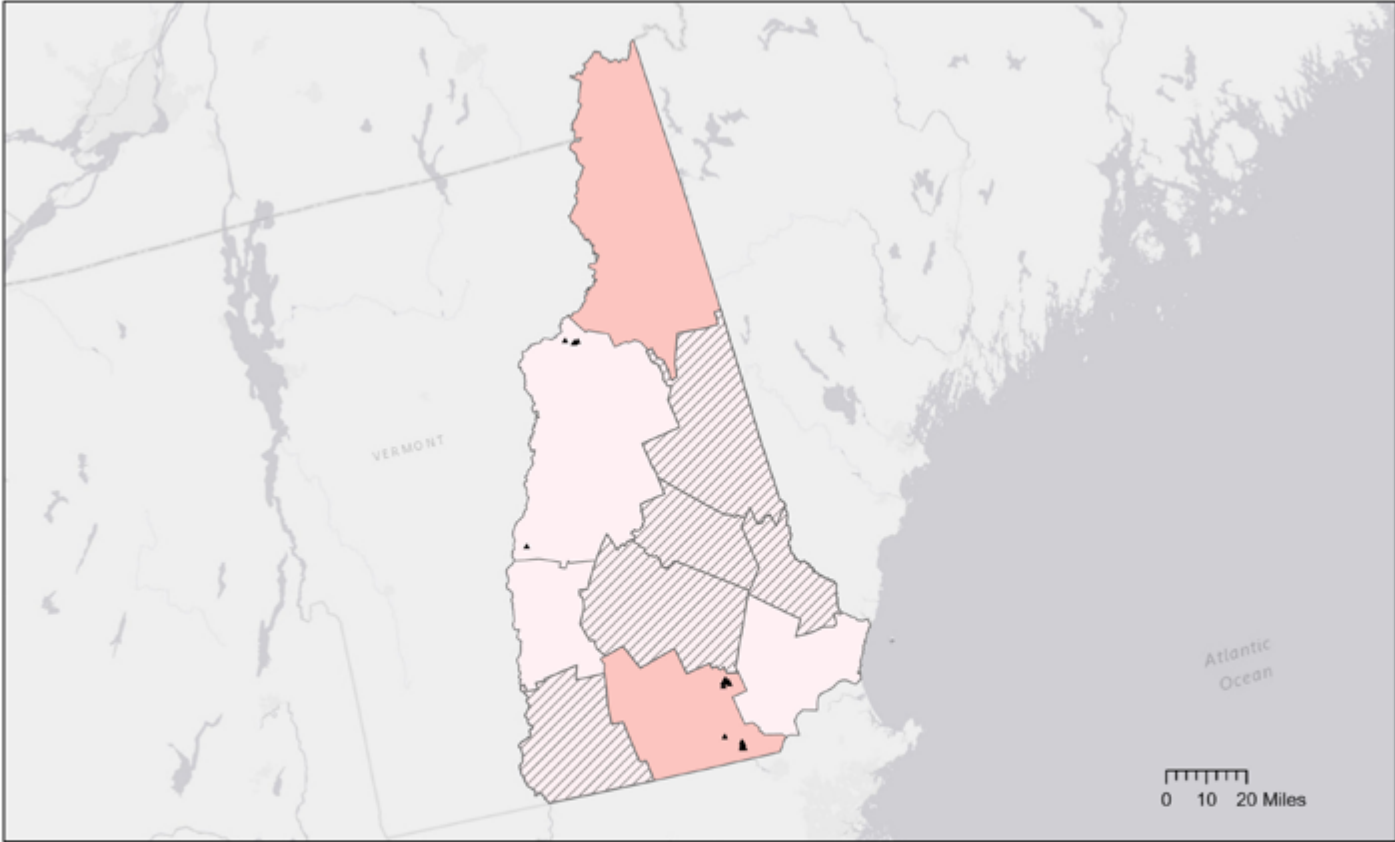
- 34
- 35 - 39
- 40 - 43
- 44 - 49
- Suppressed/Unreliable
- Counties with residence locations suppressed (1-4 residences) to protect privacy

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 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
- Counties 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



nstarr@arg.org



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