# THE U.S. HEALTH WORKFORCE – STATE PROFILES

# NORTH DAKOTA

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U.S. Department of Health and Human Services
Health Resources and Services Administration
Bureau of Health Workforce
National Center for Health Workforce Analysis

**HRSA**
Health Resources & Services Administration

# The U.S. Health Workforce - State Profiles

## Background

*The U.S. Health Workforce - State Profiles* (State Profiles) complement *The U.S. Health Workforce Chartbook* (Chartbook) by providing state-level data for each of the 34 health occupations included in the Chartbook. The data in the State Profiles correspond to Chartbook information on number of graduates in each profession, total number of providers, and number per capita. The Chartbook and State Profiles were developed as part of the Health Resources and Services Administration's effort to make data on the U.S. health workforce more readily available to diverse users.

## Data Table Content

The data tables in the State Profiles are organized alphabetically for the 50 U.S. States. For each State, estimates are provided for the health workforce and 2015 graduates. Health workforce estimates include total number in an occupation, percent relative standard error (% RSE) of the estimate, and the ratio of individuals in each occupation per 100,000 working-age population. Total graduate data are also presented along with graduate-to-population ratios.

- Health workforce numbers are from HRSA's analysis of the U.S. Census Bureau, American Community Survey (ACS) Public Use Microdata Sample (PUMS), 2011-2015.
- The % RSE is a measure of statistical reliability based on sampling error. The % RSE is calculated by dividing the standard error by the estimate and multiplying the result by 100. Lower % RSEs (i.e. proportionately lower standard errors) indicate greater precision. % RSEs between 20 and 29 percent should be used with caution and % RSEs greater than or equal to 30 percent are not reported because they do not meet standards of reliability.
- The "working-age population" includes all individuals aged 16 and older employed in an occupation and individuals who are seeking employment.
- Workforce-to-population ratios are calculated using the working-age population figures from HRSA analysis of the ACS PUMS, 2011-2015.
- 2015 graduate numbers are from the U.S. Department of Education, National Center for Education Statistics Integrated Postsecondary Education Data System (IPEDS) for the 2014-2015 academic year. Details can be found in the Chartbook Technical Documentation. No IPEDS data were available for message therapists; dispensing opticians; physical therapist assistants and aides; personal care aides; and nursing, psychiatric, and home health aides.
- Graduate-to-population ratios are calculated using the working-age population from HRSA analysis of the ACS PUMS, 2015.

## References, Resources and Additional Information

*The U.S. Health Workforce Chartbook,* released in 2018, can be found at https://bhw.hrsa.gov/health-workforce-analysis/research.

Details on the data sources, definitions, analysis, and other information provided in the State Profiles are available in *The U.S. Health Workforce Chartbook: Technical Documentation*, which can be found at https://bhw.hrsa.gov/health-workforce-analysis/research.

For more information about the National Center, e-mail us at healthworkforcecenter@hrsa.gov, or visit our website at https://bhw.hrsa.gov/national-center-health-workforce-analysis.

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| Occupation | North Dakota | | | | |
| --- | --- | --- | --- | --- | --- |
| | 2011-2015 Health Workforce[a] | | | 2015 Graduates[b] | |
| | Total | % RSE[c] | Per 100K Working-age Population | Total | Per 100K Working-age Population |
| Chiropractors | NR | NR | NR | NA | NA |
| Counselors | 374 | 26.4 | 65.0 | 12 | 2.0 |
| Dental Assistants | 884 | 22.9 | 153.6 | 9 | 1.5 |
| Dental Hygienists | 587 | 26.0 | 102.0 | 23 | 3.8 |
| Dentists | NR | NR | NR | NA | NA |
| Diagnostic Related Technologists and Technicians | 621 | 26.7 | 107.9 | 48 | 8.0 |
| Dietitians and Nutritionists | NR | NR | NR | 41 | 6.8 |
| Emergency Medical Technicians and Paramedics | NR | NR | NR | 30 | 5.0 |
| Health Diagnosing and Treating Practitioner Support Technologists and Technicians | 1,240 | 16.5 | 215.5 | 81 | 13.4 |
| Licensed Practical and Licensed Vocational Nurses[d] | 2,363 | 13.9 | 410.6 | 191 | 31.7 |
| Massage Therapists | NR | NR | NR | NP | NP |
| Medical and Clinical Laboratory Technologists and Technicians | 1,023 | 23.7 | 177.8 | 151 | 25.1 |
| Medical and Health Services Managers | 1,849 | 14.5 | 321.3 | 20 | 3.3 |
| Medical Assistants | 502 | 25.3 | 87.2 | 22 | 3.6 |
| Medical Records and Health Information Technicians | 248 | 26.8 | 43.1 | 33 | 5.5 |
| Medical Secretaries | 1,941 | 14.0 | 337.3 | NP | NP |
| Nurse Anesthetists | NR | NR | NR | NA | NA |
| Nurse-Midwives and Nurse Practitioners | NR | NR | NR | 51 | 8.9 |
| Nursing, Psychiatric, and Home Health Aides | 9,921 | 6.4 | 1,724.0 | NP | NP |
| Occupational Therapists | NR | NR | NR | 79 | 13.1 |
| Opticians, Dispensing | NR | NR | NR | NP | NP |
| Optometrists | NR | NR | NR | NA | NA |

| Occupation | North Dakota | | | | |
| --- | --- | --- | --- | --- | --- |
| | 2011-2015 Health Workforce[a] | | | 2015 Graduates[b] | |
| | Total | % RSE[c] | Per 100K Working-age Population | Total | Per 100K Working-age Population |
| Personal Care Aides | 3,634 | 10.2 | 631.5 | NP | NP |
| Pharmacists | 1,317 | 18.2 | 228.9 | 85 | 14.1 |
| Physical Therapist Assistants and Aides | NR | NR | NR | NP | NP |
| Physical Therapists | NR | NR | NR | 82 | 13.6 |
| Physician Assistants | NR | NR | NR | 25 | 4.1 |
| Physicians | 1,707 | 15.3 | 296.6 | 55 | 9.1 |
| Psychologists | NR | NR | NR | 337 | 55.9 |
| Registered Nurses[d] | 9,373 | 7.8 | 1,628.7 | 644 | 111.9 |
| Respiratory Therapists | NR | NR | NR | 20 | 3.3 |
| Social Workers | 1,908 | 15.2 | 331.6 | 217 | 36.0 |
| Speech-Language Pathologists | 513 | 23.4 | 89.1 | 83 | 13.8 |
| Veterinarians | NR | NR | NR | NA | NA |

[a]Health Workforce data are from Special Tabulations of the American Community Survey Public Use Microdata Sample, 2011-2015

[b]Graduate data are from Special Tabulations of the National Center for Education Statistics Integrated Postsecondary Education Data System, 2014-2015 Data. Degree award levels included in the count of graduates are specified in Part 5 of the U.S. Health Workforce Chartbook – Technical Documentation.

[c]% RSE (Percent Relative Standard Error) = ((Standard Error/Estimate)*100); Lower % RSEs (i.e. proportionately lower standard errors) indicate greater precision. % RSEs between 20 and 29 percent should be used with caution.

[d]LPN/LVN data include LPNs receiving an associate degree or some college education without degree. RN data include RNs receiving an associate's, a bachelor's, or a graduate degree.

NA: Data are not available for the selected state and occupation.
NR: Data not reported at the state-level because the RSE ≥ 30%; estimate does not meet standards of reliability
NP: Graduate data is not available from IPEDS data.