THE U.S. HEALTH WORKFORCE – STATE PROFILES

VERMONT

August 2014

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

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 35 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 2010 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), 2008-2010.
- 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 30 percent should be used with caution and % RSEs greater than 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 total population figures from HRSA analysis of the ACS PUMS, 2008-2010. For nurse anesthetists, nurse-midwives, and nurse practitioners, the 2011-2012 Area Resource File and their workforce-to-population ratios are calculated using the Census Bureau 2010 Working-Age population.
- 2010 graduate numbers are from the U.S. Department of Education, National Center for Education Statistics Integrated Postsecondary Education Data System (IPEDS) for the 2009-2010 academic year. Details can be found in the Chartbook Technical Documentation. No IPEDS data were available for physical therapist aides; personal care aides; and nursing, psychiatric, and home health aides.
- Graduate-to-population ratios are calculated using the Census Bureau 2010 Working-Age population figures.

References, Resources and Additional Information

The U.S. Health Workforce Chartbook, released in November 2013, can be found at http://bhpr.hrsa.gov/healthworkforce/supplydemand/usworkforce/chartbook/index.html.

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 http://bhpr.hrsa.gov/healthworkforce/supplydemand/usworkforce/chartbook/chartbookdocumentation.pdf.

For more information about the National Center, e-mail us at healthworkforcecenter@hrsa.gov, or visit our website at http://bhpr.hrsa.gov/healthworkforce/index.html.

Suggested citation: U.S. Department of Health and Human Services, Health Resources and Services Administration, National Center for Health Workforce Analysis. The U.S. Health Workforce – State Profiles, Rockville, Maryland; 2014.

	Vermont				
	2008-2010 Health Workforce[a]			2010 Graduates[b]	
Occupation	**Total**	**% RSE[c]**	**Per 100K Working-age Population**	**Total**	**Per 100K Working-age Population**
Chiropractors	NA	NA	NA	NA	NA
Counselors	1,383	22.6	221.3	4	0.6
Dental Assistants	NR	NR	NR	NP	NP
Dental Hygienists	658	26.9	105.3	19	3.0
Dentists	NR	NR	NR	NA	NA
Diagnostic Related Technologists and Technicians	642	24.0	102.7	44	7.0
Dietitians and Nutritionists	NR	NR	NR	39	6.2
Emergency Medical Technicians and Paramedics	NR	NR	NR	NP	NP
Health Diagnosing and Treating Practitioner Support Technologists and Technicians	1,104	21.4	176.6	84	13.4
Licensed Practical and Licensed Vocational Nurses	1,229	15.7	196.6	167	26.7
Massage Therapists	680	26.9	108.8	NP	NP
Medical and Clinical Laboratory Technologists and Technicians	680	21.6	108.8	12	1.9
Medical and Health Services Managers	1,864	18.9	298.2	NA	NA
Medical Assistants and Other Healthcare Support Occupations	1,269	19.7	203.0	NP	NP
Medical Records and Health Information Technicians	NR	NR	NR	1	0.2
Medical Secretaries	2,368	16.5	378.9	NP	NP
Nurse Anesthetists[d]	24	NA	3.8	NP	NP
Nurse Practitioners[d]	314	NA	50.2	NP	NP
Nurse-Midwives[d]	70	NA	11.2	NP	NP
Nursing, Psychiatric, and Home Health Aides	4,888	10.8	782.1	NP	NP
Occupational Therapists	NR	NR	NR	NA	NA
Opticians, Dispensing	NR	NR	NR	NP	NP
Optometrists	NR	NR	NR	NA	NA

	Vermont				
	2008-2010 Health Workforce[a]			2010 Graduates[b]	
Occupation	**Total**	**% RSE[c]**	**Per 100K Working-age Population**	**Total**	**Per 100K Working-age Population**
Personal Care Aides	3,366	13.4	538.6	NP	NP
Pharmacists	NR	NR	NR	NA	NA
Physical Therapist Assistants and Aides	NA	NA	NA	NP	NP
Physical Therapists	NR	NR	NR	28	4.5
Physician Assistants	NR	NR	NR	NA	NA
Physicians	1,870	13.9	299.2	108	17.3
Psychologists	666	29.6	106.6	81	12.9
Registered Nurses	6,528	7.6	1,044.5	308	49.2
Respiratory Therapists	NR	NR	NR	NA	NA
Social Workers	1,784	17.1	285.4	77	12.3
Speech-Language Pathologists	NR	NR	NR	30	4.8
Veterinarians	NR	NR	NR	NA	NA

[a]Health Workforce data are from Special Tabulations of the American Community Survey Public Use Microdata Sample, 2008-2010
[b]Graduate data are from Special Tabulations of the National Center for Education Statistics Integrated Postsecondary Education Data System, 2009-2010 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) = ((Estimate/Standard Error)*100); Lower % RSEs (i.e. proportionately lower standard errors) indicate greater precision. % RSEs between 20 and 30 percent should be used with caution.
[d]Advanced Practice Nursing Workforce data are from the following source(s): Nurse Practitioners and Nurse Anesthetists data are from the Area Resource File 2011-2012 Access Database, tabulations of data from the National Provider Identification File and Nurse-Midwives data are from the Area Resource File 2011-2012 Access Database, tabulations of data from the American College of Nurse-Midwives.
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 presented because there is no clear educational pathway for this occupation.