

***Oklahoma Health Workforce
Data Catalog***

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Introduction

Oklahoma is one of the unhealthiest states in the country. Since 1997, the United Health Foundation has ranked Oklahoma 40th or lower in their annual *America's Health Rankings* report.¹ The 2009 report ranked Oklahoma 49th trailing only Mississippi in overall health.² This ignominious position sounded a general alarm among the state's health care policy makers and political leadership. As a result, the Oklahoma Board of Health and various partners and stakeholders, from both the private and public sectors, established the Oklahoma Health Improvement Plan (OHIP) in 2010. OHIP was a focused attempt to improve the general health status of all Oklahomans.³ In its first five years OHIP achieved a modicum of success: adult smoking rate declined, childhood obesity stabilized, and the infant mortality rate decreased.⁴ Despite these and other successes, Oklahoma still ranked 46th in United Health Foundation's 2014 edition of *America's Health Rankings*.⁵

OHIP recognizes the importance that a robust health care workforce will play in the ongoing improvement of Oklahoma's health status. Unfortunately, most of the health care workforce data needed for any comprehensive research or policy formulation in Oklahoma are distributed across desperate entities. While attempts to organize health care workforce data in the state have been met with some success,⁶ basic information about the availability of workforce data is limited.

This data catalog organizes the most useful sources of health workforce data for Oklahoma. The data catalog is divided into two sections: Supply Data and Demand Data. The Supply

¹ United Health Foundation. (2014, December). *Oklahoma Annual State Health Rankings*. Retrieved March 2015, from America's Health Rankings: <http://www.americashealthrankings.org/OK>

² United Health Foundation. (2015, March). *Custom Report Tool*. Retrieved March 2015, from United Health Foundation: <http://www.americashealthrankings.org/customreport>

³ Oklahoma State Department of Health. (2009, December). *Oklahoma Health Improvement Plan Launched Today*. Retrieved April 2015, from Oklahoma State Department of Health: http://www.ok.gov/health/Organization/Office_of_Communications/News_Releases/2009_News_Releases/Oklahoma_Health_Improvement_Plan_Launched_Today.html

⁴ Oklahoma State Department of Health. (2015). *Oklahoma Health Improvement Plan 20/20: Bringing Oklahoma's Health Into Focus*. Oklahoma City: Oklahoma State Department of Health.

⁵ United Health Foundation. (2014). *America's Health Rankings: 25th Anniversary Edition*. Minnetonka: United Health Foundation.

⁶ Oklahoma State University Center for Rural Health. (2013). *Oklahoma Health Care Workforce Databook*. Retrieved March 2015, from Oklahoma State University Center for Rural Health: <http://www.healthsciences.okstate.edu/ruralhealth/documents/OHIP%20Workforce%20Data%20Book.pdf>

Data section focuses on those sources that provide data pertinent to calculating the supply of health care professionals in the state. Many of the data sources originate from state licensure boards or other aggregated datasets. Demand Data sources primarily originate from econometric models that estimate the future need for various health care professions and from employment recruitment websites. Each data catalog entry contains a brief description of the data source, unit of analysis (individual or occupation), spatial resolution (geographic detail), date (most recent available), select data elements (components of the data that could serve for the basis of analysis) and the occupations covered by the data source. Most the sources contained in the catalog are freely accessible to the public, but some require nominal fees for reproduction of the data or to access proprietary content. Given the nature of the data there is some overlap between sources. Further, this data catalog is a snapshot of content available as of early 2015.

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Area Health Resources Files (AHRF)			
Unit of Analysis: Occupation	Spatial Resolution: U.S. Counties	Date: 2013-2014	Type: Secondary
<p>Description: Compilation of in-depth demographic, workforce, employment and training data for 50 health care professions. Data are compiled from primary sources such as the American Medical Association and the American Dental Association. Training data are detailed for 20 health care professions. Also includes data about hospital and health facilities and other census, demographic, environmental data, and shortage designations. Historical data are available for select professions. AHRF is a useful research dataset as long as no detail beyond the county-level is required. AHRF data are free and available via download or CD-ROM.</p>			
<p>Access: http://ahrf.hrsa.gov/index.htm</p>			
<p>Select Data Elements: Specialty; Demographics (gender and age); Professional activity;</p>			
<p>Occupations Covered: Advanced Practice Nurses • Audiologists • Certified Nurse Midwives • Certified Registered Nurse Anesthetists • Chiropractors • Clinical Nurse Specialists • Dental Hygienists • Dentists • Nurse Practitioners • Optometrists • Pharmacists • Physical Therapists • Physician Assistants • Physicians (D.O. & M.D.) • Podiatrists • Psychologists • Speech-language Pathologists</p>			

Medicare Physician Compare			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Period: 2015	Type: Primary
<p>Description: A comprehensive database of Medicare providers. Includes various quality measures and some information about group practices. A potentially useful research dataset regarding the Medicare provider workforce.</p>			
<p>Access: https://data.medicare.gov/</p>			
<p>Select Data Elements: Provider name; Address; Gender; Specialty</p>			
<p>Occupations Covered: Providers of Medicare services</p>			

National Provider Identifier			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Period: 2015	Type: Primary
<p>Description: The National Provider Identifier (NPI) is a unique 10-digit identification number assigned to health care professionals and organizations subject to HIPPA regulation. NPI data is updated regularly and its considerable detail makes it suitable for research purposes.</p>			
<p>Access: http://www.cms.gov/Regulations-and-Guidance/HIPAA-Administrative-Simplification/NationalProvIdentStand/DataDissemination.html</p>			
<p>Select Data Elements: Provider name; Address; Gender; Specialty</p>			
<p>Occupations Covered: Physicians • Physician Assistants • Midwives • Nurse Practitioners • Nurse Anesthetists • Dentists • Chiropractors • Clinical Social Workers • Physical Therapists</p>			

Oklahoma Board of Dentistry			
Unit of Analysis: Individual	Spatial Resolution: None given	Period: 2015	Type: Primary
<p>Description: The Oklahoma Board of Dentistry licensed Dentists, Dental Hygienists, Dental Assistants, and Oral & Maxillofacial Assistants. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. Website does not indicate if additional data is available for purchase or download. Website has limited access to licensure database.</p>			
<p>Access: http://www.ok.gov/dentistry/</p>			
<p>Select Data Elements: Name; Type of license (pediatric; endodontic, oral surgery)</p>			
<p>Occupations Covered: Dentists • Dental Hygienists • Dental Assistants • Oral & Maxillofacial Assistants.</p>			

Oklahoma Board of Examiners for Speech Language Pathology & Audiology			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Period: 2015	Type: Primary
<p>Description: The Oklahoma Board of Examiners for Speech-Language Pathology & Audiology licenses and regulates health care services in the area of communicative disorders of the speech, language and hearing mechanisms. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. Website does not indicate if additional data is available for purchase or download. Website has limited access to licensure database.</p>			
<p>Access: http://www.ok.gov/obespa/</p>			
<p>Select Data Elements: Provider name; Address</p>			
<p>Occupations Covered: Audiologists • Speech Language Pathologists • Speech Language Assistants</p>			

Oklahoma Board of Medical Licensure and Supervision			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Date: 2015	Type: Primary
<p>Description: The Oklahoma Board of Medical Licensure and Supervision (OBMLS) licenses a number of health care professionals. Data are updated regularly. License renewal varies according to profession. Not all of the data elements are provided for each occupation. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. OBMLS does charge reproduction fees for electronic versions of their data. Website has limited access to licensure database.</p>			
<p>Access: http://www.okmedicalboard.org/</p>			
<p>Select Data Elements: Provider name; Address; Specialty; Demographics; Training</p>			
<p>Occupations Covered: Anesthesiologist Assistants • Apprentice Athletic Trainer • Licensed Athletic Trainer • Licensed Dietitian • Licensed Orthotist • Licensed Podiatrist • Licensed • Perfusionist • Licensed Prosthetist • Licensed Prosthetist/Orthotist • Medical Doctor • Occupational Therapist • Occupational Therapy Assistant • Physical Therapist • Physical Therapist Assistant • Physician Assistant • Podiatrist • Provisional Respiratory Care Practitioner • Provisionally Licensed Dietitian • Registered Electrologist • Registered Orthotist Assistant • Registered Prosthetist Assistant • Registered Prosthetist/Orthotist Assistant • Registered Technician – Orthotic • Registered Technician – Prosthetic • Registered Technician – Prosthetic/Orthotic • Respiratory care Practitioner</p>			

Oklahoma Board of Licensed Alcohol and Drug Counselors			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Period: 2015	Type: Primary
Description: These data can be used to provide basic counts of drug and alcohol counselors. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. Website has limited access to licensure database.			
Access: http://www.okdrugcounselors.org/members.php			
Select Data Elements: Provider name; Address; Professional activity			
Occupations Covered: Licensed Alcohol and Drug Counselors • Certified Alcohol and Drug Counselors			

Oklahoma Board of Nursing			
Unit of Analysis: Occupation	Spatial Resolution: Oklahoma counties	Period: 2015	Type: Primary
Description: Robust set of data detailing the nursing workforce. The Oklahoma Board of Nursing's annual reports provide county-level data dating to 2005, so historic analysis is possible. The reports also provide information regarding the various nurse education programs in the state including enrollment figures.			
Access: https://www.ok.gov/nursing/pubs.html			
Select Data Elements: Field of employment; Hours worked; Age; Education attainment			
Occupations Covered: Registered Nurses • Licensed Practical Nurses • Advanced Practice Registered Nurses (Nurse Practitioners; Nurse Midwives; Nurse Anesthetists; Clinical Nurse Specialist) with and without prescriptive authority.			

Oklahoma State Board of Pharmacy			
Unit of Analysis:	Spatial Resolution:	Period:	Type:
Individual	Street Address	2015	Primary
<p>Description: The Oklahoma State Board of Pharmacy licenses pharmacists, pharmacy technicians, and pharmacy interns. These data can be used to provide basic counts of aforementioned occupations. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. The Oklahoma State Board of Pharmacy does charge reproduction fees for electronic versions of their data. Some aggregate data is available for download. Website has limited access to licensure database.</p>			
<p>Access: http://www.ok.gov/OSBP/index.html</p>			
<p>Select Data Elements: Name, Address</p>			
<p>Occupations Covered: Pharmacists • Pharmacy Technicians • Pharmacy Interns</p>			

Oklahoma Health Care Authority (OHCA)			
Unit of Analysis:	Spatial Resolution:	Period:	Type:
Occupation	Oklahoma Counties	2015	Primary
<p>Description: With their “Fast Fact” series, the Oklahoma Health Care Authority provides regular updates regarding the number of providers, clients, and services rendered via the Oklahoma Medicaid system. This is useful data regarding the Medicaid population in Oklahoma and their utilization of primary care services. Some historic data available.</p>			
<p>Access: http://www.okhca.org/research.aspx?id=87&parts=7447</p>			
<p>Select Data Elements: Provider type (hospital; physician; pharmacy; etc.) and counts; Medicaid enrollees; Uninsured rates</p>			
<p>Occupations Covered: Providers of Medicaid Services (Physicians, Dentists, Behavioral Health; Other Primary Care Providers)</p>			

OHCA - Insure Oklahoma Primary Care Provider Directory			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Period: 2015	Type: Primary
Description: This regularly updated document lists current Insure Oklahoma Primary Care Providers.			
Access: http://www.insureoklahoma.org/pdf/ip_providers.pdf			
Select Data Elements: Provider name; Address; Specialty			
Occupations Covered: Primary care providers that participate in the Insure Oklahoma network			

OHCA - Medical Home Provider Directory			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Period: 2015	Type: Primary
Description: This regularly updated document lists current Oklahoma Health Care Authority Medical Home Providers.			
Access: https://www.okhca.org/client/pdf/providers.pdf			
Select Data Elements: Provider name; Address; Specialty			
Occupations Covered: Providers of Medicaid Services (Physicians, Dentists, Behavioral Health; Other Primary Care Providers)			

Oklahoma Health Care Workforce Center			
Unit of Analysis: Occupation	Spatial Resolution: Varies by study	Period: Varies by study	Type: Varies by study
Description: Several reports that detail the health care workforce. Some reports include demand projections and hiring needs. Reports include: <i>2008 Oklahoma Health Education Report</i> ; <i>Governor’s Council for Workforce and Economic Development - Health Care Industry Analysis Report</i> ; and two Oklahoma Hospital Association surveys.			
Access: http://www.okhealthcareworkforce.com/Reports/			
Select Data Elements: Varies by study			
Occupations Covered: Primarily nursing and allied health professionals			

Oklahoma Healthcare Workforce Databook			
Unit of Analysis: Occupation	Spatial Resolution: Oklahoma Counties	Period: 2013	Type: Secondary
Description: Comprehensive collection of healthcare workforce data. Includes detailed data regarding the physician and nursing workforces. Most major healthcare workforce professionals are represented.			
Access: http://www.healthsciences.okstate.edu/ruralhealth/documents/OHIP%20Workforce%20Data%20Book.pdf			
Select Data Elements: Age profile for physicians and nurses; Nurses with prescriptive authority; Primary care physicians			
Occupations Covered: Physicians (D.O. & M.D.) • Physician Assistants • Registered Nurses • Licensed Practical Nurses • Advanced Practice Registered Nurses (Nurse Practitioners; Nurse Midwives; Nurse Anesthetists; Clinical Nurse Specialist) with and without prescriptive authority • Other allied health professionals			

Oklahoma State Board of Chiropractic Examiners			
Unit of Analysis: N/A	Spatial Resolution: N/A/	Date: N/A	Type: N/A
Description: The Oklahoma State Board of Chiropractic Examiners licenses and regulates chiropractors. Website does not indicate if additional data is available for purchase or download. Website does not allow access to licensure database			
Access: http://www.ok.gov/chiropracticboard/			
Select Data Elements: N/A			
Occupations Covered: N/A			

Oklahoma Board of Examiners of Psychologists			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Period: 2015	Type: Primary
Description: The Oklahoma Board of Examiners of Psychologists licenses and regulates psychologists. Website does not indicate if data is available for purchase or download. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. Website has limited access to licensure database.			
Access: http://www.ok.gov/OSBEP/			
Select Data Elements: Provider name; Address; Specialty (clinical; counseling; etc.)			
Occupations Covered: Psychologists			

Oklahoma State Board of Licensed Social Workers			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Date: 2015	Type: Primary
<p>Description: The Oklahoma State Board of Licensed Social Workers licenses and regulates the health care providers listed below. The website does not indicate if data is available for purchase or download. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. Website has limited access to licensure database.</p>			
<p>Access: http://www.ok.gov/socialworkers/#</p>			
<p>Select Data Elements: Provider name; Address</p>			
<p>Occupations Covered: Licensed Clinical Social Workers • Licensed Master Social Workers • Licensed Social Workers</p>			

Oklahoma State Board of Osteopathic Examiners			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Date: 2015	Type: Primary
<p>Description: The Oklahoma State Board of Osteopathic Examiners (OSBOE) licenses osteopathic physicians. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. OSBOE does charge reproduction fees for electronic versions of their data. Website has limited access to licensure database.</p>			
<p>Access: http://www.ok.gov/osboe/</p>			
<p>Select Data Elements: Provider name; Address; Specialty; Demographics (gender); Training.</p>			
<p>Occupations Covered: Osteopathic physicians</p>			

State Board of Behavioral Health			
Unit of Analysis: Individual	Spatial Resolution: City and Zip Code	Date: 2015	Type: Primary
Description: The State Board of Behavioral Health licenses and regulates the health care providers listed below. Website does not indicate if data is available for purchase or download. These data are gathered for regulatory purposes and may require significant manipulation for research purposes. Website has limited access to licensure database.			
Access: http://www.ok.gov/behavioralhealth/			
Select Data Elements: Provider name; City; Zip Code			
Occupations Covered: Licensed Professional Counselors • Licensed Marital and Family Therapists • Licensed Behavioral Practitioners			
Hospital Provider Directories			
Unit of Analysis: Individual	Spatial Resolution: Street Address	Date: 2015	Type: Primary
Description: Many of the state's major health systems maintain and regularly update rosters of physicians with admitting privileges to their respective hospitals and health care professionals employed directly by the health systems.			
Access: Varies. Major health systems have web-based access to their provider directories. Data from smaller hospitals may not be available online.			
Select Data Elements: Provider name; Address; Specialty			
Occupations Covered: Physicians • Allied health professionals			

O*Net OnLine			
Unit of Analysis: Occupation	Spatial Resolution: Nationwide	Period: 2015	Type: Secondary
Description: Robust database that provides standardized information for a variety of health professions, including expected salaries, education requirements, work environment, and demand estimates. The website also provides links to online job search platforms.			
Access: https://www.onetonline.org/			
Select Data Elements: N/A			
Occupations Covered: Physicians • Allied health professionals			

Oklahoma Department of Commerce - Economic Systems Profiles			
Unit of Analysis: Occupation	Spatial Resolution: Oklahoma Counties	Period: 2015	Type: Secondary
Description: Economic System reports present in-depth information about geographic areas that have similar economic strengths. These reports contain a host of specific data, including wage data for select health care occupations and aggregate measures of overall employment demand.			
Access: http://okcommerce.gov/data-and-research/workforce-data/			
Select Data Elements: N/A			
Occupations Covered: Varies by geographic region			

Oklahoma Employment Security Commission – Long-term & Short-term Occupational Employment Projections			
Unit of Analysis: Occupation	Spatial Resolution: Statewide & Workforce Investment Areas	Period: 2014-2016 2012-2022	Type: Primary
Description: Detailed forecast of occupational demand for two separate time frames. Includes information regarding wages, educational requirements, and experience needed to fulfill occupational requirements. Useful information to determine if current educational and training priorities are in line with expected occupational demand.			
Access: http://www.ok.gov/oesc_web/Services/Find_Labor_Market_Statistics/Projections/			
Select Data Elements: N/A			
Occupations Covered: Physicians • Allied health professionals			

Oklahoma Employment Security Commission – Occupational Employment Statistics			
Unit of Analysis: Occupation	Spatial Resolution: Varies	Period: 2014	Type: Primary
Description: Detailed employment and wage data for a variety of health care professionals. Includes annual <i>Wage Reports</i> and the interactive <i>Oklahoma Wage Network</i> .			
Access: http://www.ok.gov/oesc_web/Services/Find_Labor_Market_Statistics/OES/			
Select Data Elements: N/A			
Occupations Covered: Physicians • Allied health professionals			

Oklahoma Hospital Jobs			
Unit of Analysis: Occupation	Spatial Resolution: Oklahoma communities & hospital facilities	Period: 2015	Type: Primary
Description: Website developed by the Oklahoma Hospital Association that allows job seekers to browse and apply for employment opportunities at various hospitals. Permits near real-time assessment of health care workforce job market. Includes most major health care systems in Oklahoma.			
Access: http://www.okhospitaljobs.com/			
Select Data Elements: N/A			
Occupations Covered: Nurses • Allied health professionals • Other support professionals (cooks; maintenance, etc.)			
Oklahoma Regents for Higher Education			
Unit of Analysis: Occupation	Spatial Resolution: N/A	Period: Varies	Type: Primary & Secondary
Description: The Oklahoma Regents for Higher Education maintain a variety of studies and reports regarding the higher education system in Oklahoma. Useful data includes enrollment numbers and graduation rates by fields of study.			
Access: https://www.okhighered.org/studies-reports/			
Select Data Elements: N/A			
Occupations Covered: Varies by report			

Physician Manpower Training Commission Physician Practice Opportunities			
Unit of Analysis: Occupation	Spatial Resolution: Oklahoma communities	Period: 2015	Type: Primary
Description: Regularly updated report that lists communities seeking physicians. Most specialties are represented.			
Access: http://www.pmtc.ok.gov/placemnt.htm			
Select Data Elements: N/A			
Occupations Covered: Physicians			

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