

A Critical "Match" – Health Care Professionals to Meet Nebraska's Future Needs

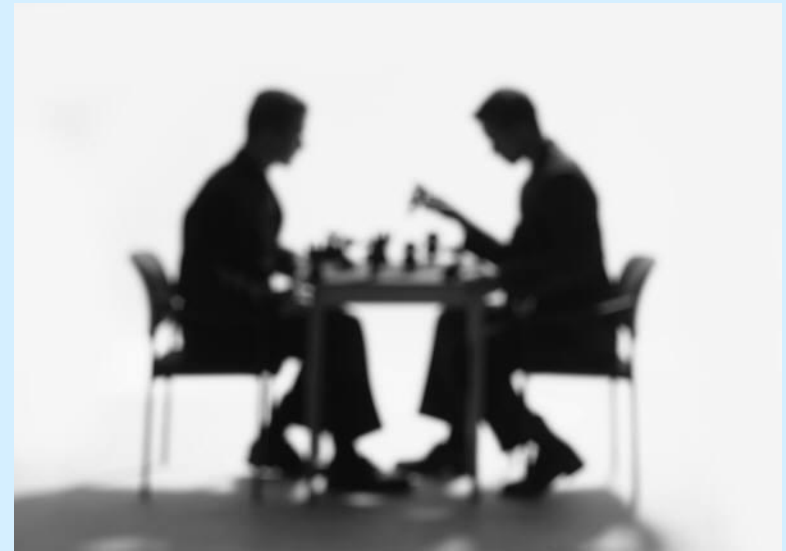
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College of Public Health
University of Nebraska Medical Center**



**September 25, 2007
Presentation for the Board of Counselors**

Purpose

- To develop a strategy for meeting the health care workforce needs in Nebraska



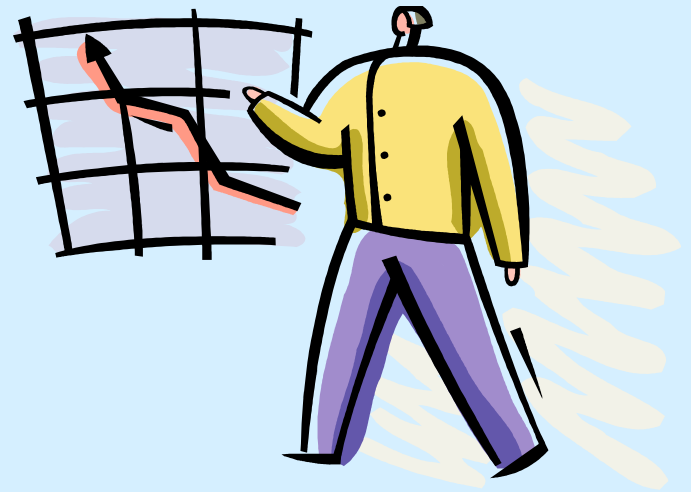
Objectives of the Study

- To estimate the current supply of health care professionals in Nebraska.
- To compare the number of health care professionals in NE with national averages.
- To develop a predictive model based on theory and published literature that would be widely applicable.



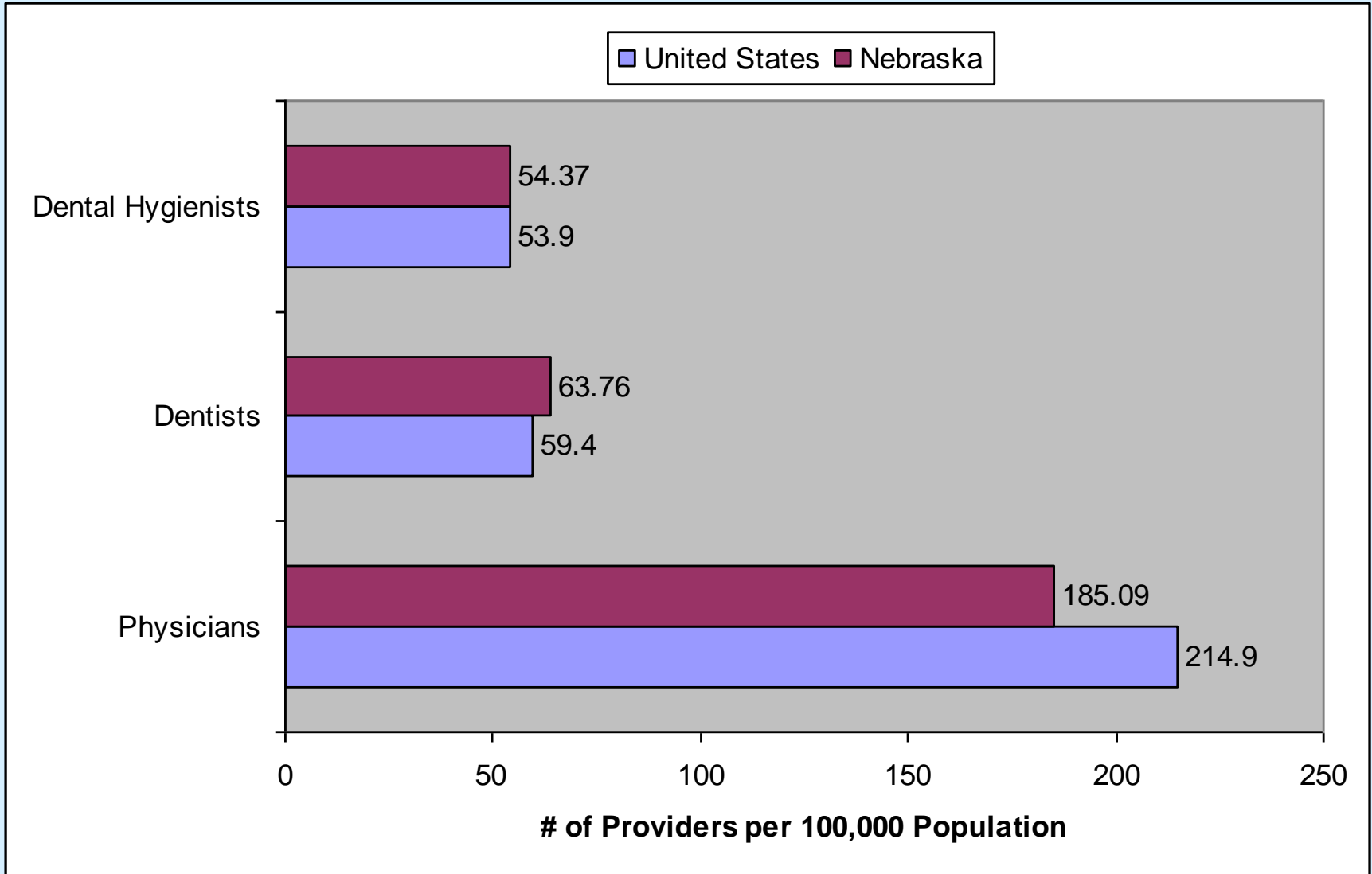
Objectives of the Study

- To project the future need for health care professionals in Nebraska through 2020 using the predictive model.
- To disseminate the study results to key stakeholders in Nebraska.
 - Professional associations
 - Trade associations
 - Public health departments
 - Health care providers



National Comparison

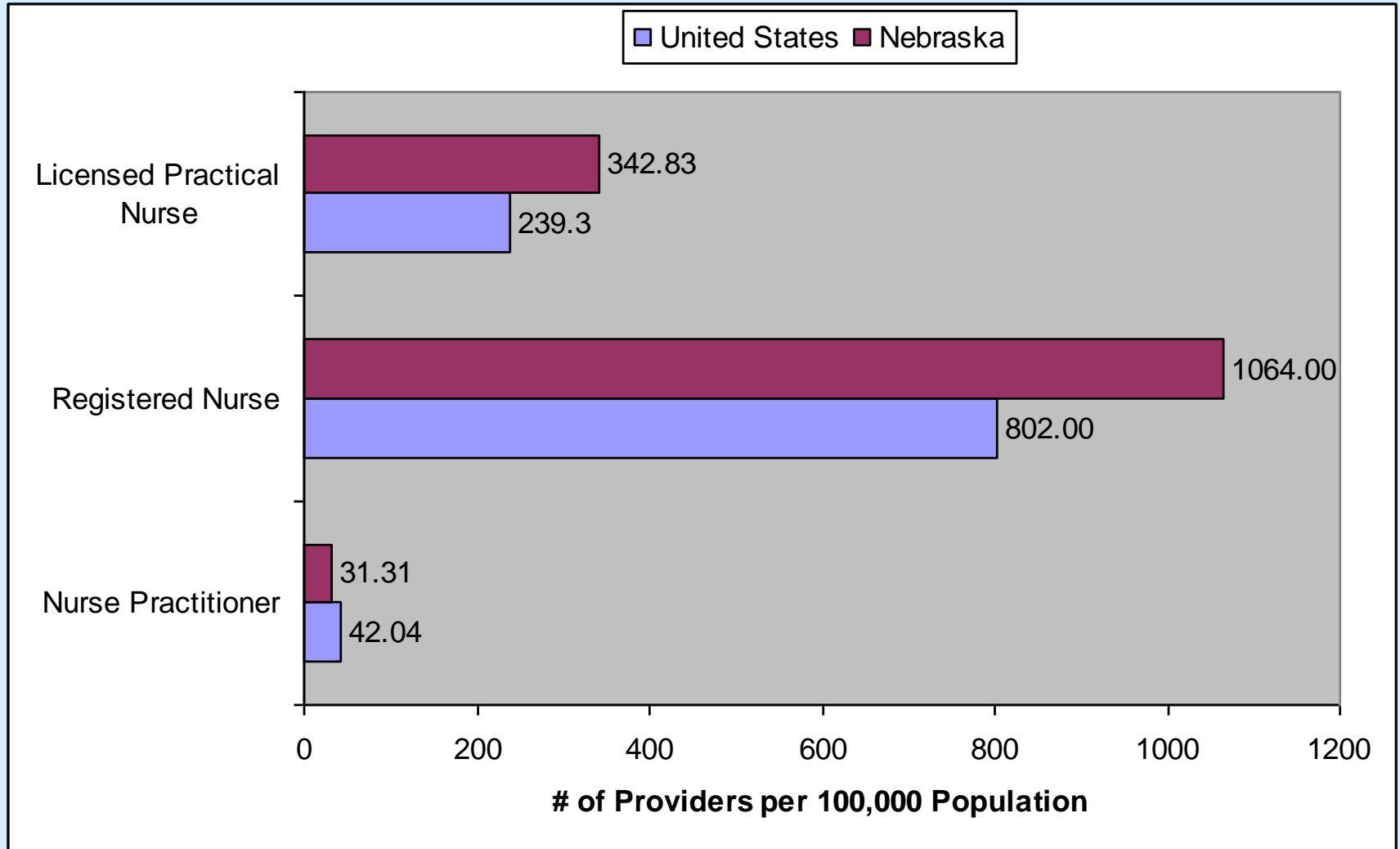
Provider-to-population Ratio for Medicine & Dental Professions – NE vs. U.S.



Source: *The United States Health Workforce Profile*. The New York Center for Health Workforce Studies. October 2006. <http://chws.albany.edu>

National Comparison

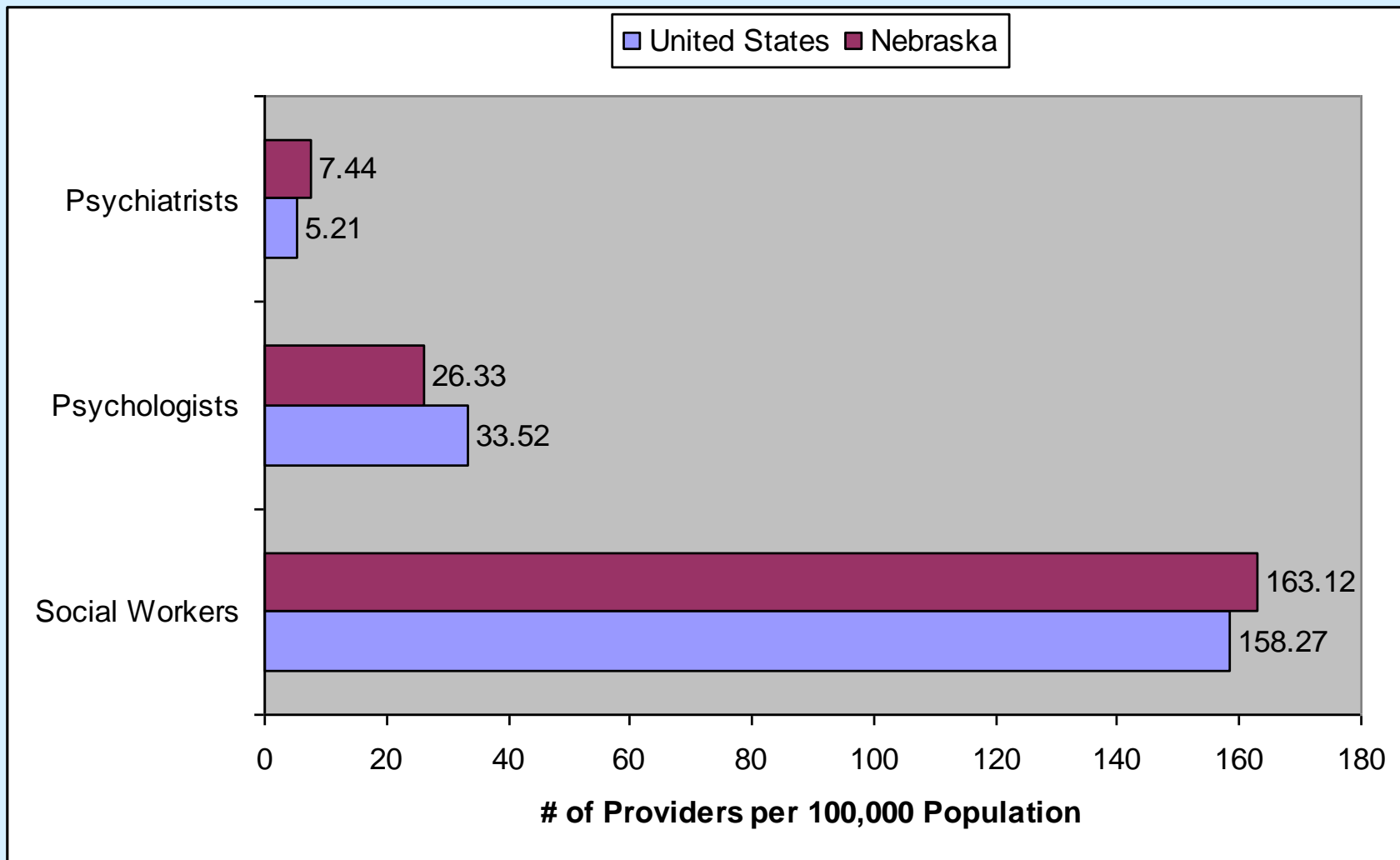
Provider-to-population Ratio for Nursing Professions – NE vs. U.S.



Source: *The United States Health Workforce Profile*. The New York Center for Health Workforce Studies. October 2006. <http://chws.albany.edu>

National Comparison

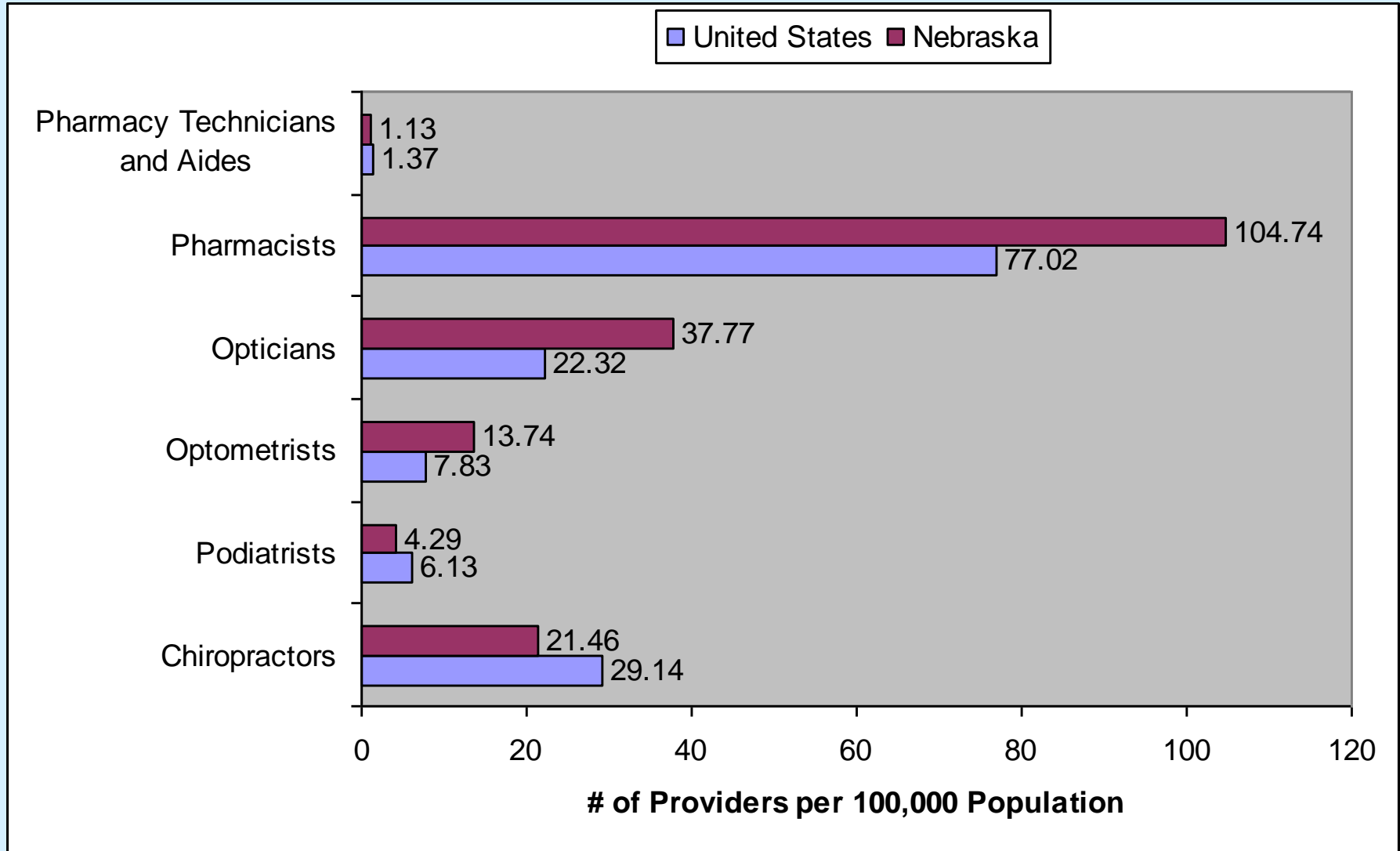
Provider-to-population Ratio for Mental Health Professions – NE vs. U.S.



Source: *The United States Health Workforce Profile*. The New York Center for Health Workforce Studies. October 2006. <http://chws.albany.edu>

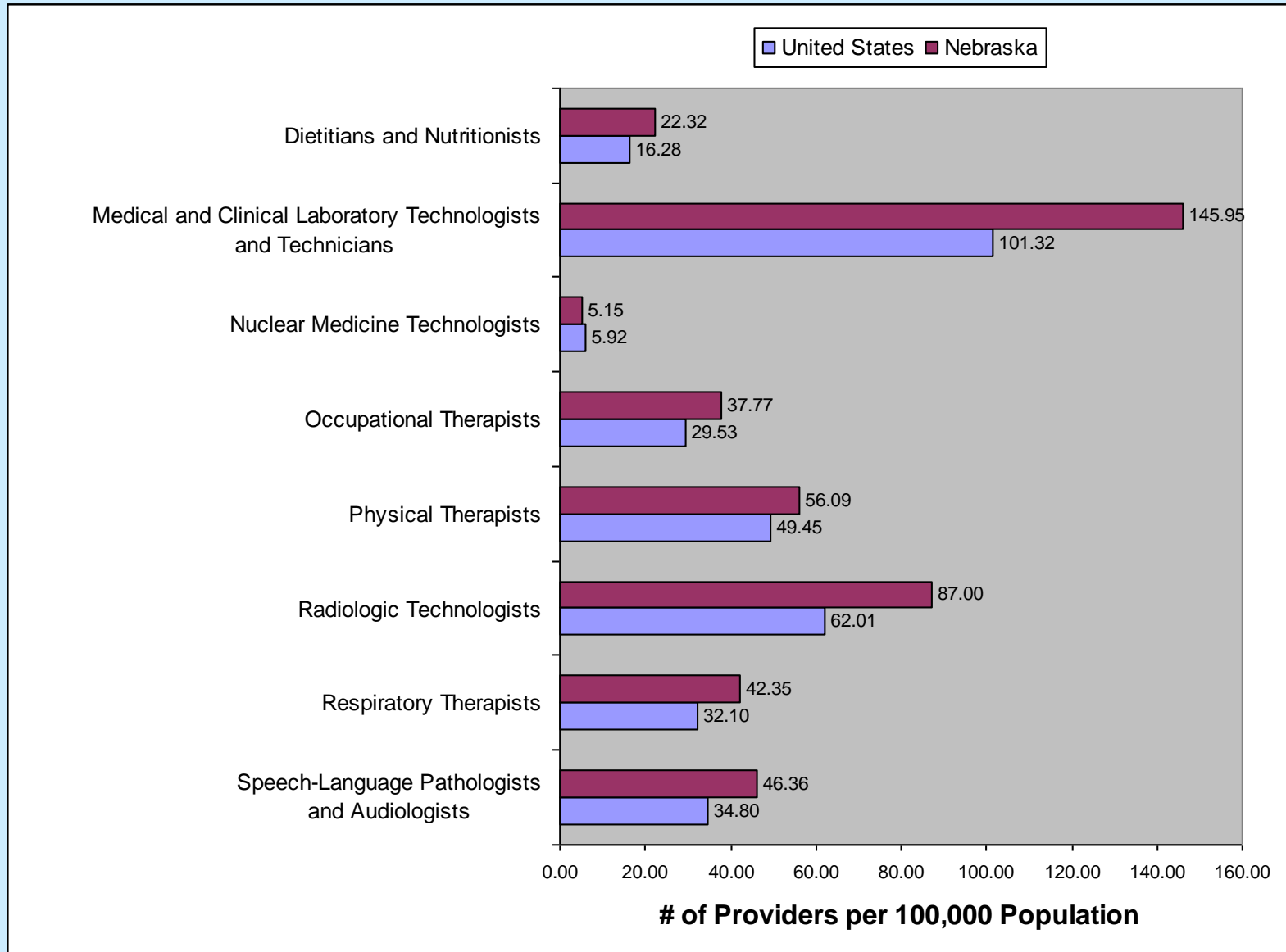
National Comparison

Provider-to-population Ratio for Non-Physician Clinician Professions – NE vs. U.S.



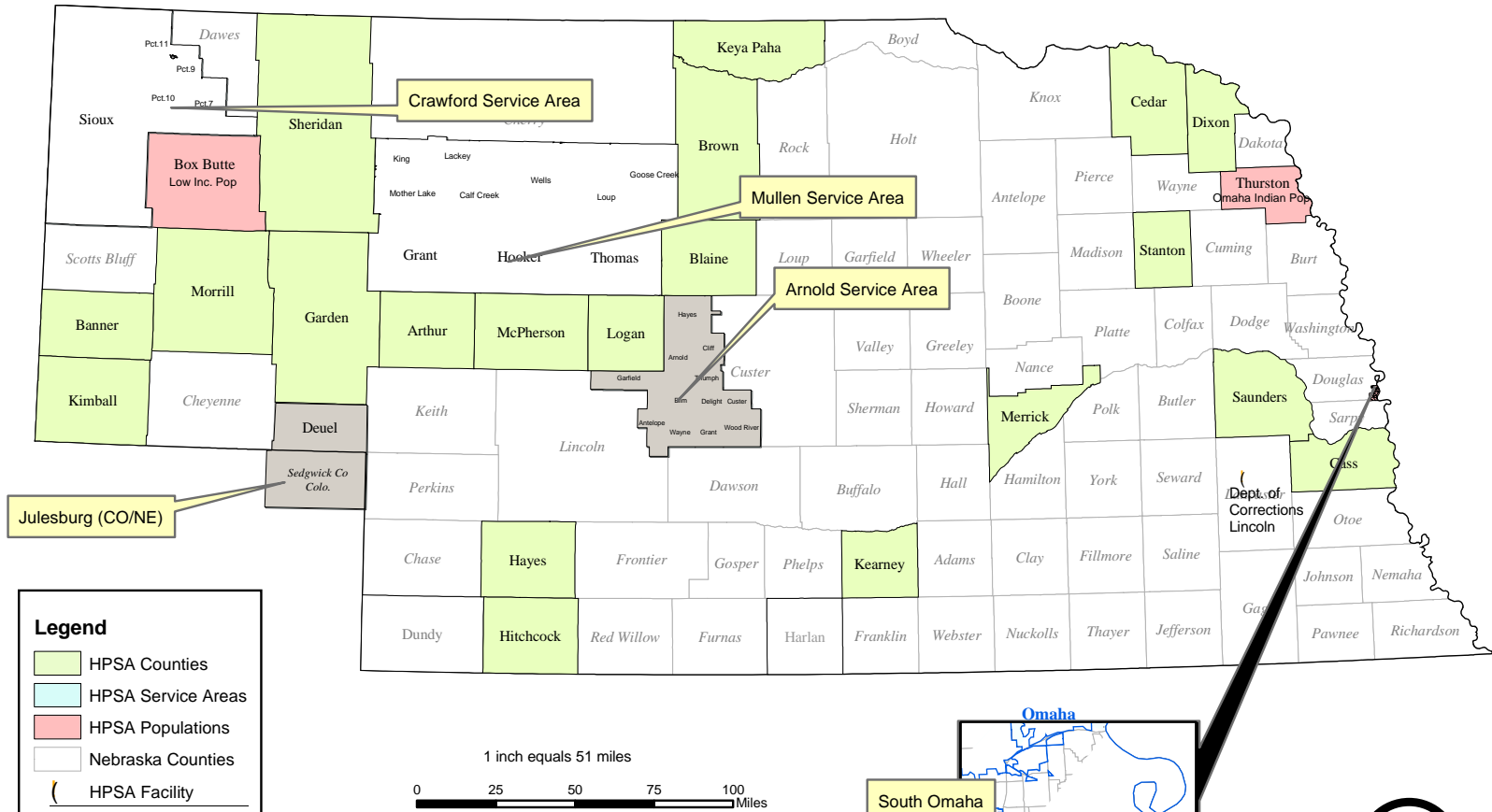
National Comparison

Provider-to-population Ratio for Allied Health Professions – NE vs. U.S.

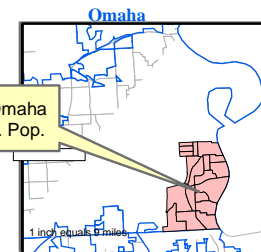


Federally Designated Primary Care Health Professional Shortage Areas

Nebraska - 2006

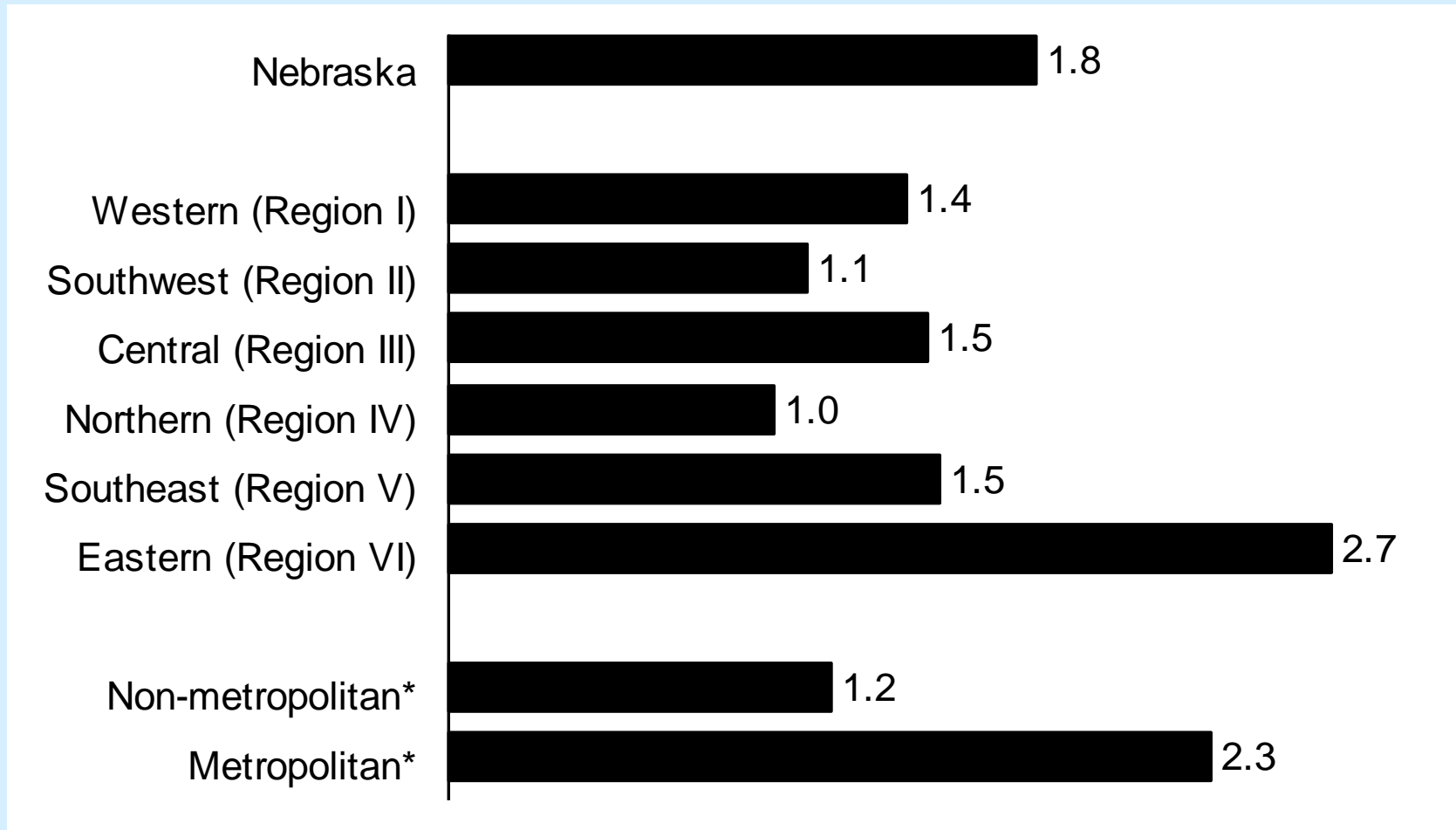


Source:
 Bureau of Primary Health Care - Division of Shortage Designation
<http://bphc.hrsa.gov/databases/newhpsa/newhpsa.cfm> - Data current as of Feb. 11, 2003.
 Nebraska Health and Human Services System, Office of Rural Health & Primary Care
 Areas include Counties, Political Townships, Precincts, & Census Tracts



Cartography:
 Russ Wetzel - ORHPC.
 Modified by Tom Rauner 4/2005

Practicing Physicians to Population Ratio per 1,000 Residents,⁽¹⁾ Nebraska 2005

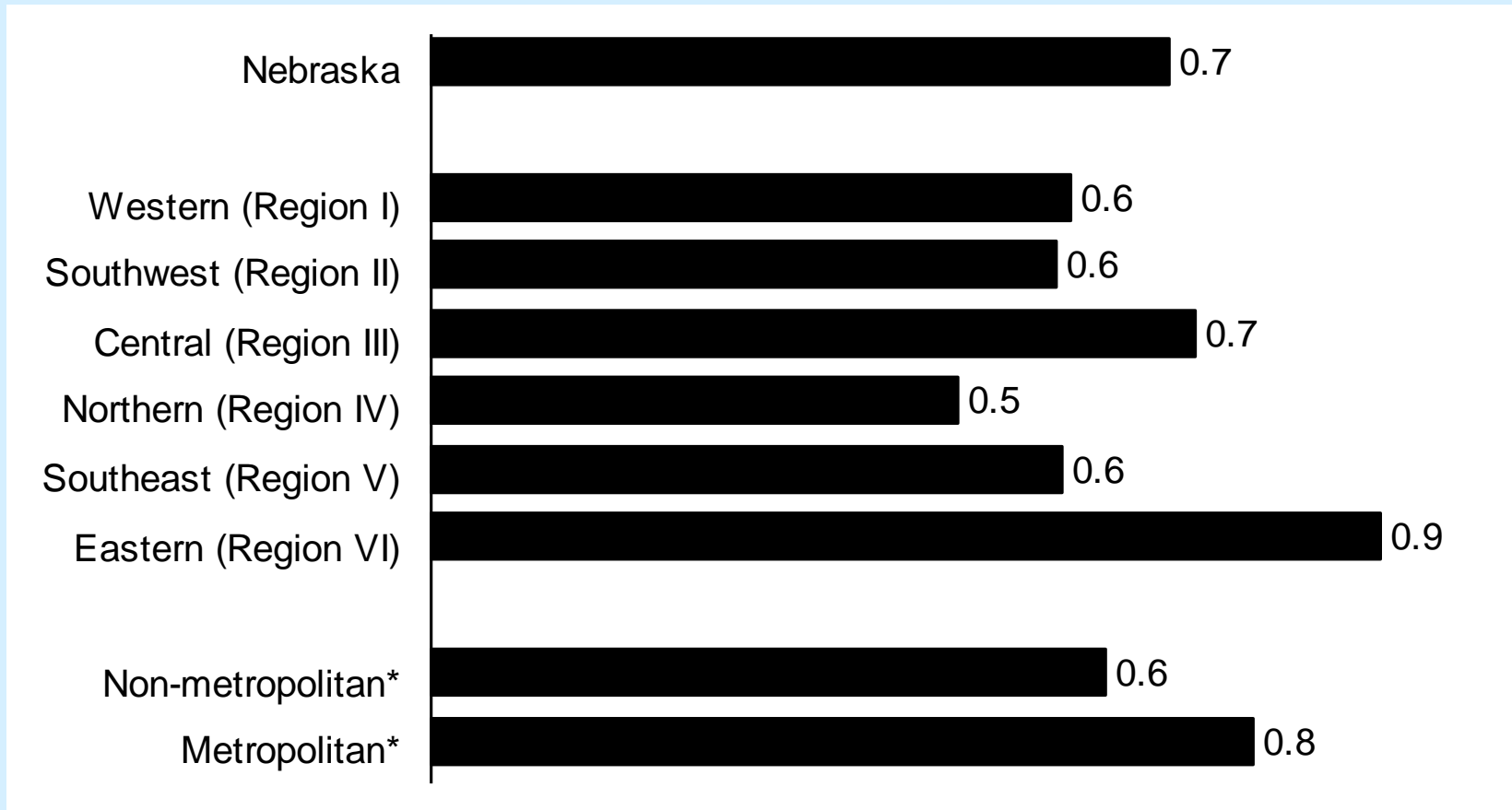


Source: For full source information see The Nebraska Health Information Project Chapter 2:Health Professions at <http://www.unmc.edu/nebraska/>

(1)Per 1,000 population. In the health provider to population ratio, the numerator used 2005 data and the denominator used 2004 census data.

* Metropolitan boundaries are those defined by the Federal Office of Management and Budget on June 6, 2003.

Practicing Primary Care Physician to Population Ratio per 1,000 Residents,⁽¹⁾ Nebraska 2005



Source: For full source information see The Nebraska Health Information Project Chapter 2:Health Professions at <http://www.unmc.edu/nebraska/>

(1)Per 1,000 population. In the health provider to population ratio, the numerator used 2005 data and the denominator used 2004 census data.

* Metropolitan boundaries are those defined by the Federal Office of Management and Budget on June 6, 2003.

Actively Licensed Nursing Professionals,⁽¹⁾ Nebraska and Substate Areas 2005

	Registered Nurses		Certified Licensed Practical Nurses		Licensed Practical Nurses	
	Number ⁽²⁾	Rate ⁽³⁾	Number	Rate ⁽³⁾	Number	Rate ⁽³⁾
Nebraska	18,680	10.69	779	0.45	6,520	3.73
Western	782	8.89	95	1.08	531	6.04
Southwest	784	7.39	69	0.65	532	5.01
Central	2,257	10.35	189	0.87	1,130	5.18
Northern	2,317	8.66	157	0.59	1,293	4.83
Southeast	4,958	11.04	205	0.46	1,790	3.98
Eastern	7,580	12.26	64	0.10	1,244	2.01
Non-metropolitan*	6,695	8.83	626	0.83	4,127	5.44
Metropolitan*	11,983	12.12	153	0.15	2,393	2.42

Source: For full source information see The Nebraska Health Information Project, Chapter 2:Health Professions, at <http://www.unmc.edu/nebraska/>

(1) All professionals tracked by the Nebraska Health and Human Services System possess an active license but are not necessarily practicing.

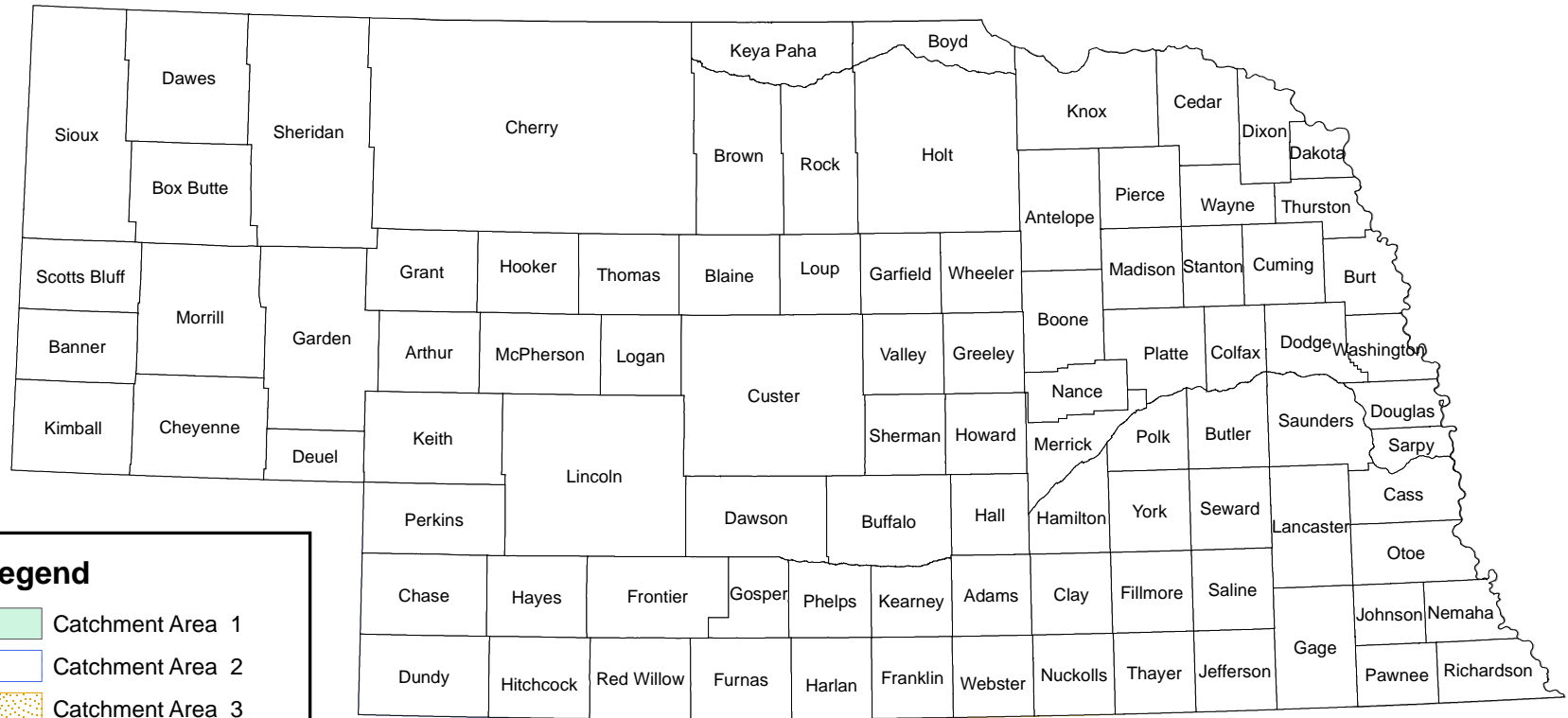
(2) Total includes two nurses for whom county was unknown.

(3) Per 1,000 population. In the health provider to population ratio, the numerator used 2005 data and the denominator used 2004 census data.

* Metropolitan boundaries are those defined by the Federal Office of Management and Budget on June 6, 2003.

Nebraska Federal Mental Health Professional Shortage Areas

January 2007



Legend

- Catchment Area 1
- Catchment Area 2
- Catchment Area 3
- Catchment Area 4
- Catchment Area 5
- CA 6 - Not Designated
- county

Source:
 Bureau of Health Professions Research - Shortage Designation Branch
<http://bphc.hrsa.gov/databases/newhpsa/newhpsa.cfm> - data currents as of 1/2007

Cartography: Tom Rauner, Health & Human Services, Office of Rural Health
 (402) 471-0148, thomas.rauner@hss.ne.gov

State-Designated Mental Health Shortage Area Psychiatry and Mental Health

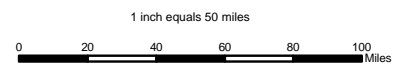
Nebraska - 2007



Legend

- Whole County
- Partial County *
- 25 Mile Radius

* Areas within a 25-mile radius of Lincoln or Omaha are not designated.



2

Actively Licensed Mental Health Professionals by Licensure Type, Nebraska and Substate Areas 2005

	Active Psychiatrists ⁽¹⁾		Licensed Psychologists ⁽²⁾		Master Social Workers ⁽²⁾	
	Number	Rate ⁽³⁾	Number	Rate ⁽³⁾	Number	Rate ⁽³⁾
Nebraska	128	0.07	343	0.20	634	0.36
Western	5	0.06	9	0.10	10	0.11
Southwest	3	0.03	5	0.05	14	0.13
Central	12	0.06	25	0.11	44	0.20
Northern	10	0.04	23	0.09	48	0.18
Southeast	25	0.06	138	0.31	175	0.39
Eastern	73	0.12	143	0.23	343	0.55
Non-metropolitan*	31	0.04	82	0.11	126	0.17
Metropolitan*	97	0.10	261	0.26	508	0.51

Source: For full source information see The Nebraska Health Information Project, Chapter 2:Health Professions, at <http://www.unmc.edu/nebraska/>

(1) Includes Child Psychiatrists. All professionals tracked by the UNMC Health Professions Tracking Center possess an active license and are actively practicing

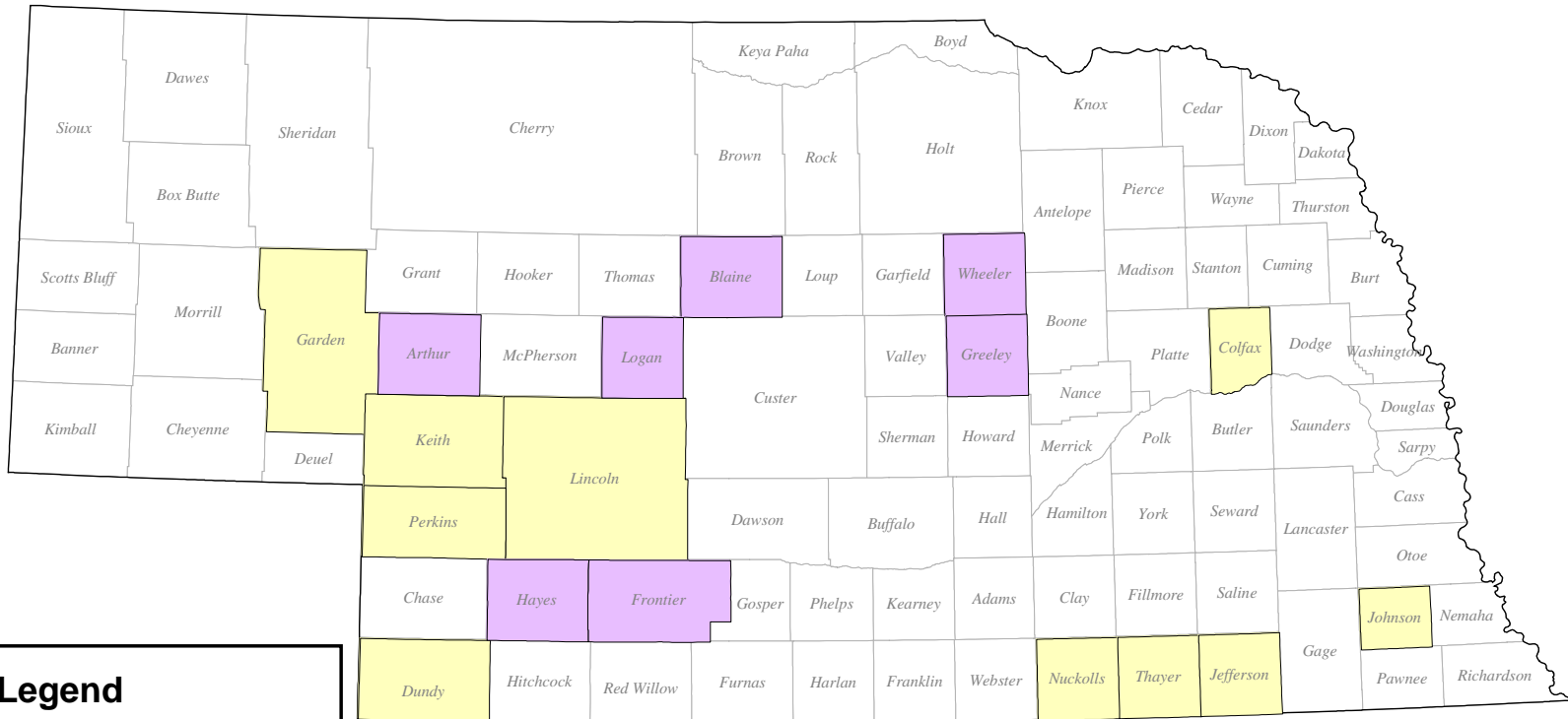
(2) All professionals tracked by the Nebraska Health and Human Services System possess an active license but are not necessarily practicing.

(3) Per 1,000 population. In the health provider to population ratio, the numerator used 2005 data and the denominator used 2004 census data.

* Metropolitan boundaries are those defined by the Federal Office of Management and Budget on June 6, 2003.

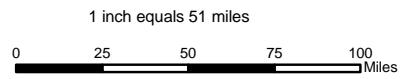
Federally Designated Dental Health Professional Shortage Areas

Nebraska - 2007



Legend

- Whole County
- Medicaid Population
- NE_Counties

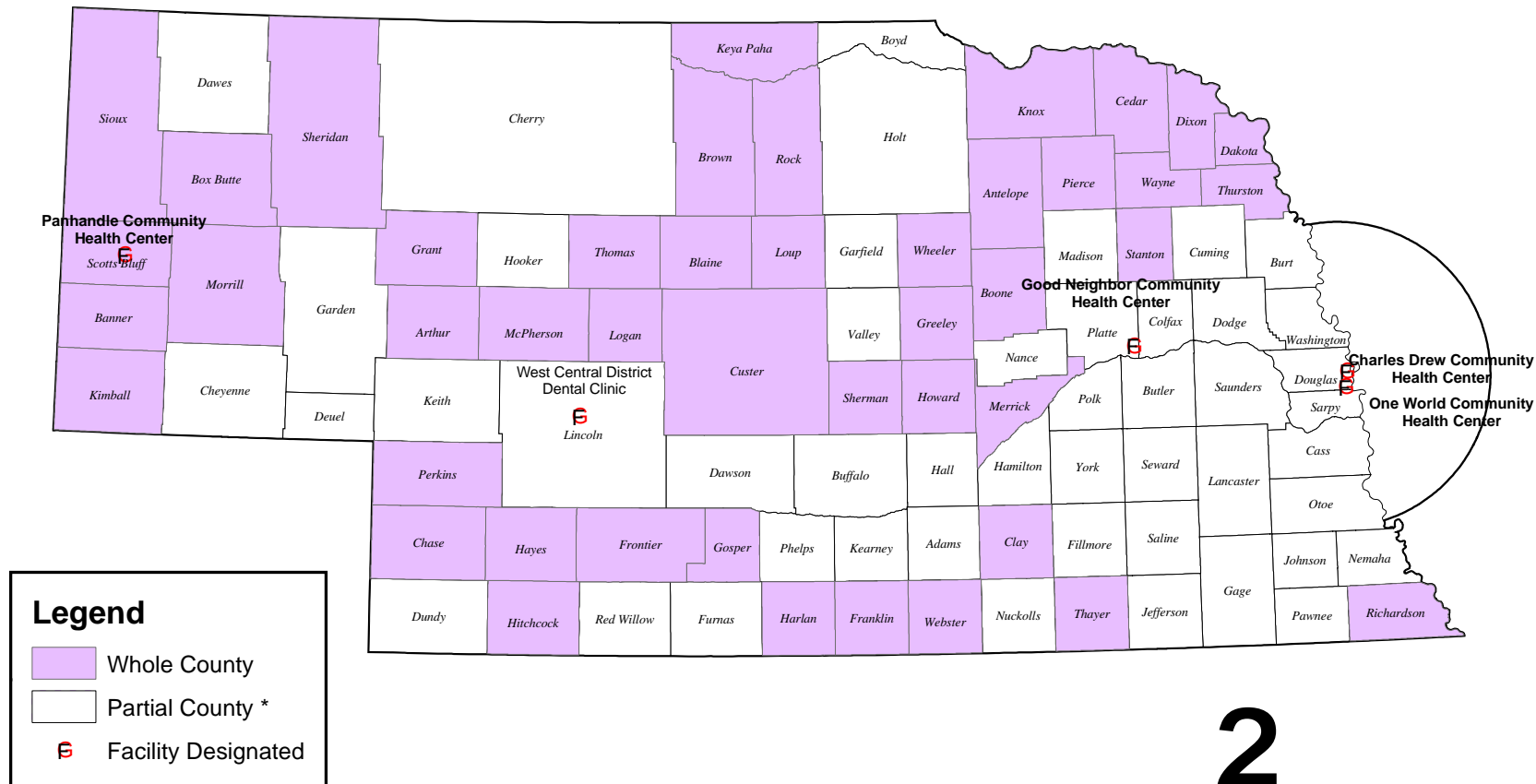


Source:
 Bureau of Primary Health Care - Division of Shortage Designation
<http://bphc.hrsa.gov/databases/newhpsa/newhpsa.cfm> - Data current as of June, 2007.
 Nebraska Health and Human Services System, Office of Rural Health & Primary Care

Cartography:
 DHHS - Office of Rural Health, Thomas Rauner 7/2007

State-Designated Dental Shortage Area General Dentistry

Nebraska - 2007



Actively Licensed Dental Health Professions,⁽¹⁾ Nebraska and Substate Areas 2005

	Number	Rate⁽²⁾
Nebraska	1,110	0.64
Western	43	0.49
Southwest	51	0.48
Central	122	0.56
Northern	122	0.46
Southeast	325	0.72
Eastern	447	0.72
Non-metropolitan*	383	0.50
Metropolitan*	727	0.74

Source: For full source information see The Nebraska Health Information Project Chapter 2:Health Professions at <http://www.unmc.edu/nebraska/>

(1) All professionals tracked by the Nebraska Health and Human Services System possess an active license but are not necessarily practicing.

(2) Per 1,000 population. In the health provider to population ratio, the numerator used 2005 data and the denominator used 2004 census data.

* Metropolitan boundaries are those defined by the Federal Office of Management and Budget on June 6, 2003.

State-Designated Allied Health Shortage Area Pharmacist

Nebraska - 2007

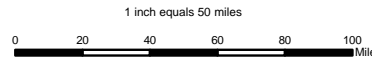


Legend

- Whole County
- Partial County *
- 25 Mile Radius

2

* Areas within a 25-mile radius of Lincoln or Omaha are not designated.



Practicing Pharmacists, Nebraska and Substate Areas 2005

	Number	Rate⁽¹⁾
Nebraska	1,882	1.08
Western	95	1.08
Southwest	76	0.72
Central	208	0.95
Northern	202	0.75
Southeast	409	0.91
Eastern	892	1.44
Non-metropolitan*	642	0.85
Metropolitan*	1,240	1.25

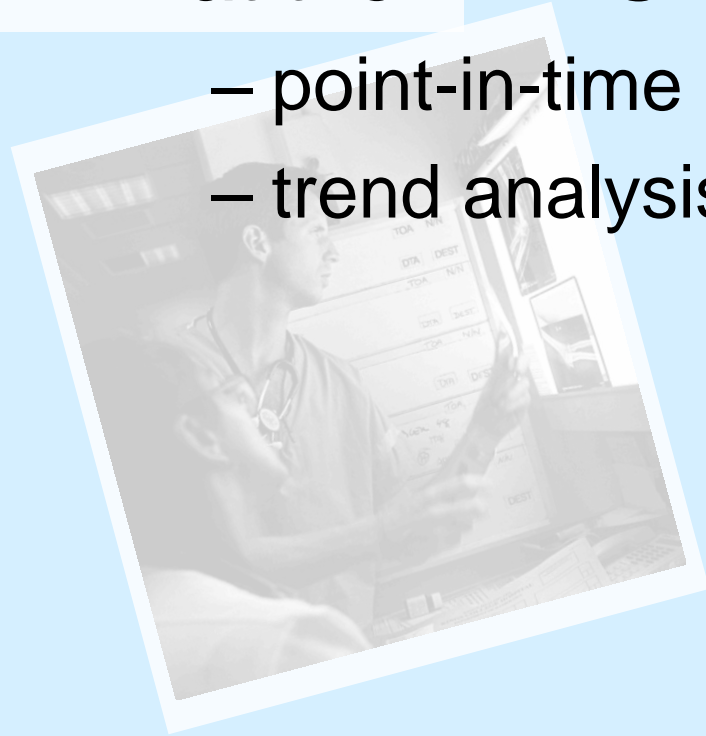
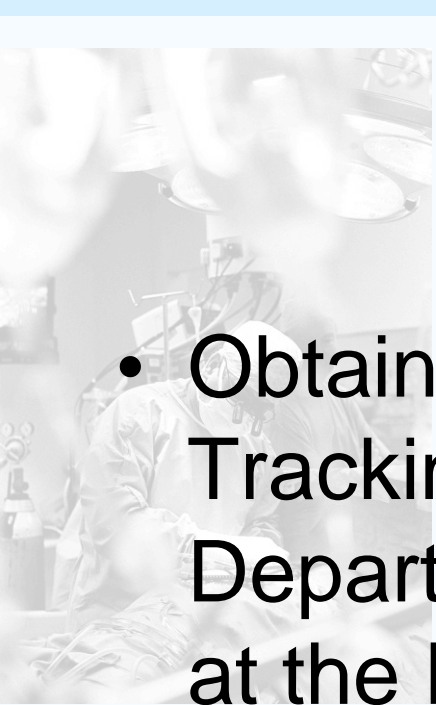
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(1) Per 1,000 population. In the health provider to population ratio, the numerator used 2005 data and the denominator used 2004 census data.

* Metropolitan boundaries are those defined by the Federal Office of Management and Budget on June 6, 2003.

Next Steps

- Obtain data from the Health Professions Tracking Center at UNMC and the Department of Regulation and Licensure at the DHHS.
 - point-in-time analysis
 - trend analysis



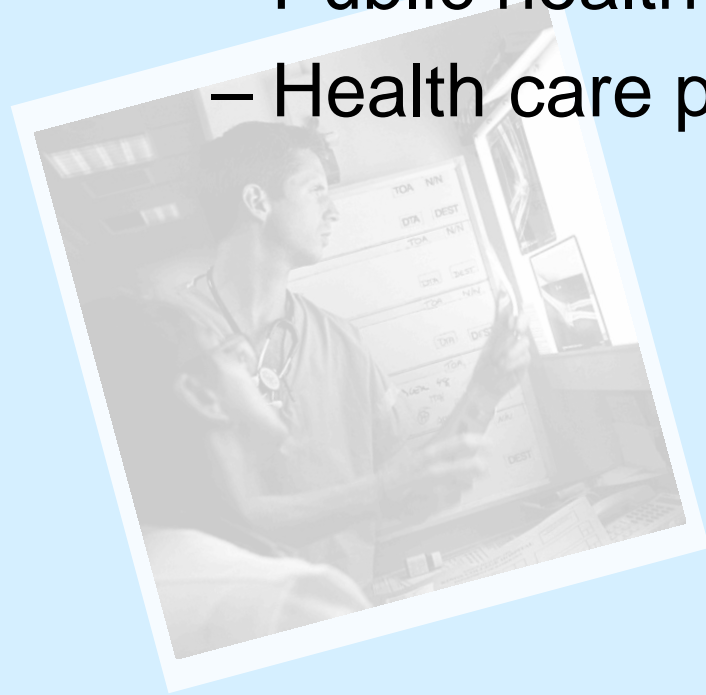
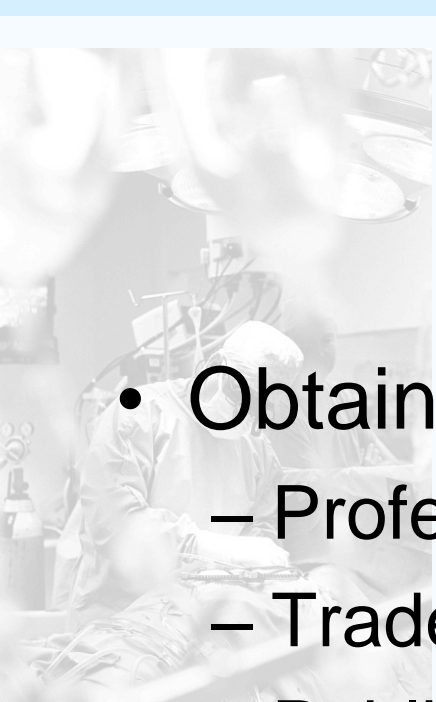
Next Steps

- Obtain secondary data sources for workforce projections.
 - US Census data
 - Population estimates
 - American Hospital Association
 - State's demand for hospital services
 - Behavior Risk Factor Survey
 - Socioeconomic data



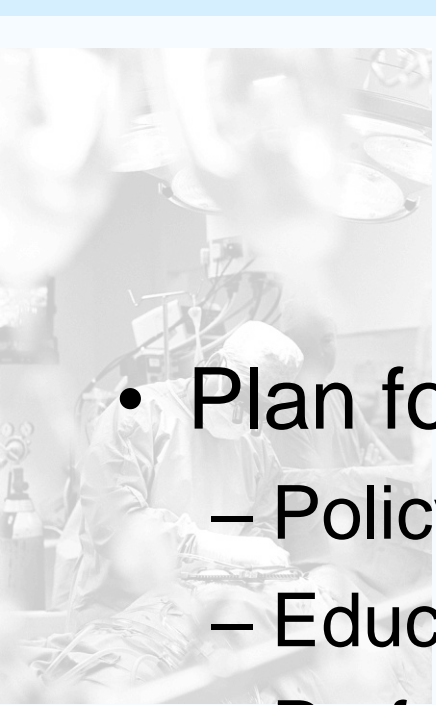
Next Steps

- Obtain input from key stakeholders in NE
 - Professional associations
 - Trade associations
 - Public health departments
 - Health care providers



End Game

- Plan for use by
 - Policy makers
 - Educators
 - Professions
 - Others





Thank You!

For more information:
<http://www.unmc.edu/publichealth>



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Nebraska
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