

A Closer Look at Occupational ANNUAL REPORT 2009 Nurses In Demand

6/15/2011

How Do We Establish Need?

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HR 3590 (PL111-148)

Title V - Health Care Workforce

Section 5001. The purpose of this title is to improve access to ... health care services by ...

(1) ... gathering and assessing comprehensive data in order for the health care workforce to meet the health care needs of individuals, including research on the supply, demand, distribution, diversity, and skills needs of the health care workforce ...





HR 3590 (PL111-148)

Title V – Health Care Workforce

Section 5101. National Health Care Workforce Commission.

(A) Utilize existing information ... including coordination with the Bureau of Labor Statistics ...





HR 3590 (PL111-148)

Title V - Health Care Workforce

Section 5102. State Health Care Workforce Development Grants.

(5) Required Activities. ... shall carry out the following:

(A) Analyze state labor market information in order to create health care career pathways for students and adults, including dislocated workers.





HR 3590 (PL111-148)

Title V – Health Care Workforce

Section 5102. State Health Care Workforce Development Grants.

Implementation Grants. -

(A) ... enable such state partnerships to implement ... a coherent and comprehensive plan for health workforce development that will address current and projected workforce demands ...





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Section 5103. State Health Care Workforce Assessment.

(2)(b)(1) Establishment. -- ... the National Center for Health Workforce Analysis.

(A) Provide for the development of information describing and analyzing the health care workforce ...

(d) Increase in Grants for **Longitudinal** Evaluations ...





What is "need"?

- "A statement about the capacity to benefit from services that maintain, enhance, or prevent deterioration in health status for individuals or groups ..."
- "Indirect measures of relative health care needs have been developed from demographics, mortality rates, and population surveys."

(Reid, et al., 2002)







- "The premature mortality rate (deaths before the age of 75 years) is generally considered to be the best single proxy of overall population health needs that is currently available ..."
- "The main rationale for using premature mortality comes from its high correlation with self-reported chronic sickness ..."

(Reid, et al., 2002)



A Closer Look

ANNUAL REPORT 2009

at Occupational

How Do We Indentify Needs?



- 1. Physical environment
- 2. Poverty
- 3. High school graduation
- 4. Tobacco use
- 5. Weight
- 6. Physical activity
- 7. Health insurance
- 8. Early detection of cancer
- 9. Preventable deaths from injury
- 10. Disability





A Closer Look at Occupational ANNUAL REPORT 2009 Nurses In Demand

- In rural areas, many populations are underserved
- Urban focus
- Unemployment rate
- Dependency ratio (young + elderly / middle aged)
- Poverty



Patient Protection and Affordable Care Act of 2010 Sec. 5602

Directs the Secretary, in consultation with the stakeholders, to establish a comprehensive methodology and criteria for designating medically underserved populations and Health Professional Shortage Areas.



Components of the Human Resources Feedback System

Labor Supply

Aggregate Grads (CIP) TBA: UW/R&P

MOU*

Labor/Supply-Demand

BLS/R&P:

- Health Care Employment and Payroll*
- Occupational Staffing and Wage Survey

<u>R&P</u>

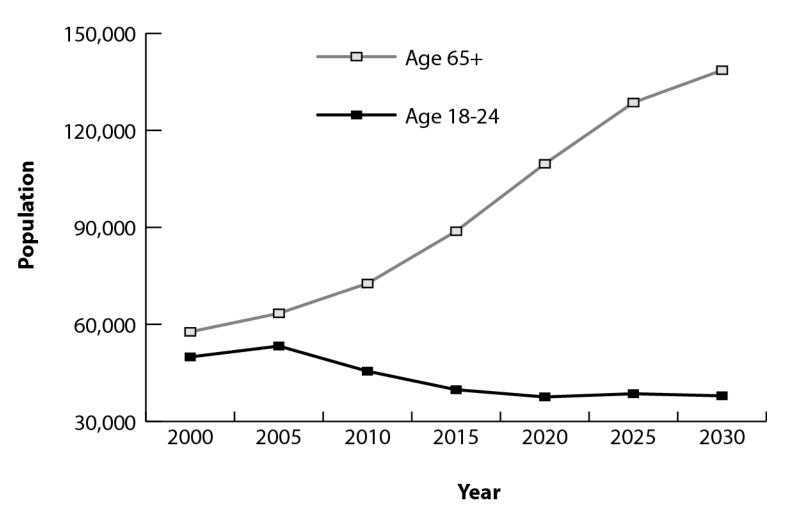
- WC Hours Worked (FTE)*
 - Licensed Occupation*
 - Projections
 - New Hires

Demand

Population

- Counts
- Estimates
- Characteristics

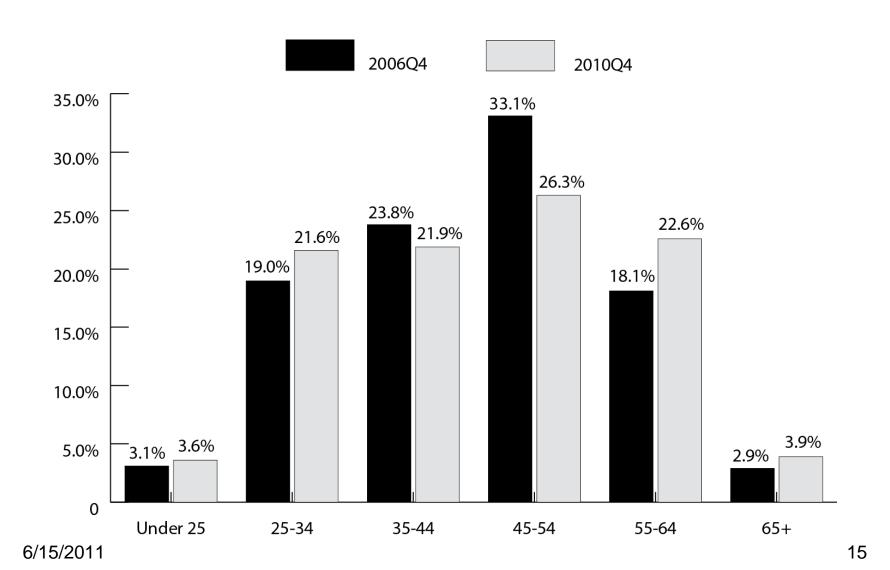
The Demographic Sledgehammer



Median Age of Registered Nurses Working in Wyoming

	Median Age							
County of Work	2006Q4	2010Q4						
Fremont	48.4	52.0						
Goshen	50.5	52.1						
Laramie	44.5	42.9						
Natrona	45.2	44.2						
Platte	35.6	51.4						
Sweetwater	57.3	58.5						
Sublette	44.4	41.7						
Uinta	40.2	40.3						
Albany/Carbon	44.8	43.2						
Big Horn/Park	47.9	47.2						
Converse/Campbell	44.8	45.1						
Crook/Weston/Niobrara	49.4	50.0						
Hot Springs/Washakie	50.3	48.4						
Johnson/Sheridan	50.3	48.3						
Teton/Lincoln	47.6	48.1						
Wyoming	46.5	46.4						

Age Distribution of Registered Nurses Working in Wyoming, 2006Q4 and 2010Q4





Licensed Nurses in Wyoming



In 2010, there were 1,979 registered nurses and advanced practice nurses licensed in Wyoming that were not licensed in 2008.

Where did these nurses come from?

Licensed Nurses in Wyoming

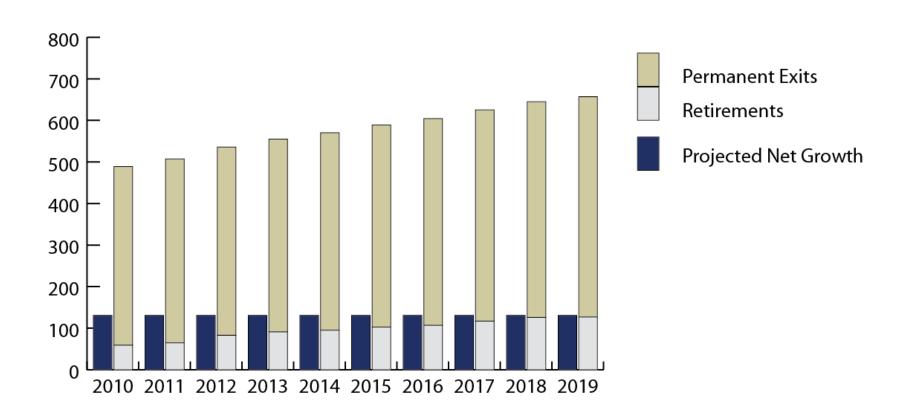
States of Origin for Registered Nurses and Advanced Practice Nurses Licensed in 2010 and Not Licensed in 2008

State of Origin	N	Percent
WY	210	10.6
NY	168	8.5
IL	117	5.9
CO	107	5.4
CA	93	4.7
IN	71	3.6
NE	71	3.6
TX	70	3.5
KS	67	3.4
ОН	61	3.1
All Other	944	47.7
Total	1,979	100.0

Who Will Fill These Jobs?

Occupation				2009 WY College Completers	2009 Employment	2010-2019 Annual Occupational Employment Projections							Average Annual Openings	College Completers Compared to Avg. Annual Completers	4		N New Hires Compared to 2010 Openings				
Code	Title	Category	License Required	N	N	Source of Openings	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	N		N	Wage (\$)	
29-1111	Registered Nurses	Primary Care Occupation	Yes	488	4985	Total Growth Exit Retirement	621 131 430 59	638 131 442 65		686 131 464 91	701 131 475 95	720 131 486 103	735 131 497 107	758 131 508 117	776 131 519 126	788 131 530 127	630	-142	772	23.05	151
29-1123	Physical Therapists	Primary Care Occupation	Yes	2	440	Total Growth Exit Retirement	59 13 40 5	61 13 42 6	64 13 43 7	65 13 44 8	67 13 45 8	69 13 47 9	71 13 48 10	73 13 49	74 13 50	76 13 51	60	-58	100	32.00	41
29-1124 & 29-2034	Radiation Therapists & Radiologic Technologists and Technicians	Primary Care Occupation	Yes	64	435	Total Growth Exit Retirement	55 13 37 5	56 13 38 6	50 13 30 7	61 13 40 8	62 13 41 8	64 13 42 9	65 13 44 9	67 13 45 10	69 13 46 11	70 13 47 11	58	8	38	N.D.	-17
31-9091	Dental Assistants	Primery Cere Occupation	No	0	521	Total Growth Exit Retirement	74 18 49 7	75 18 51 7	79 18 53	81 18 54 9	83 18 56 10	88 18 58 10	89 18 59 12	91 18 61 12	93 18 62 13	95 18 64 14	75	-75	384	12.50	290
31-9092	Medical Assistants	Primary Care Support Occupation	No	0	498	Total Growth Exit Retirement	70 16 48 7	72 16 49 7	75 16 51 8	77 16 52 9	79 16 54 10	81 18 55 10	84 16 56 11	16 58 12	87 16 59 12	90 16 61 13	71	-71	272	12.00	202

Projected Annual Job Openings for Registered Nurses in Wyoming, 2010-2019 by Source





Average Age and Quarterly Wage for Select Licensed Occupations

Occupation: Dentist

Number: 182

Average Quarterly Wage: \$35,430

Average Age: 48.1

Occupation: Physical Therapist

Number: 312

Average Quarterly Wage: \$15,775

Average Age: 42.5

Occupation: Respiratory Care Technicians

Number: 250

Average Quarterly Wage: \$12,547

Average Age: 44.7



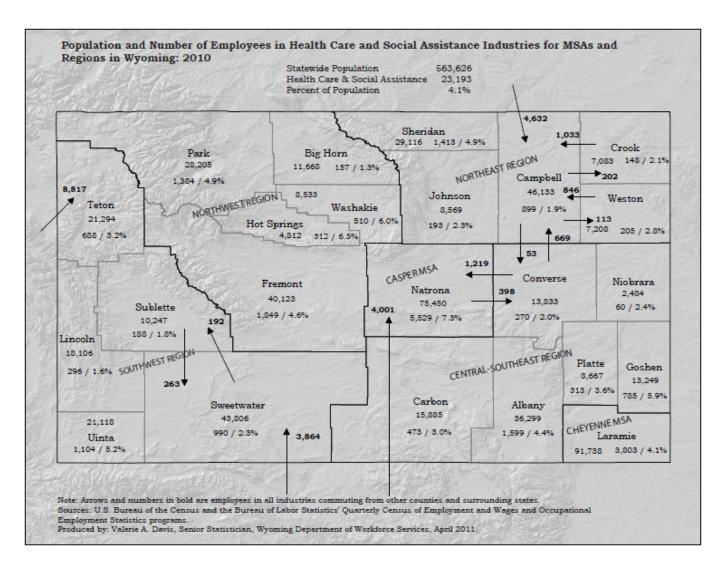
Employment Need based on National Staffing relative to the Population

(Occupational Employment Statistics/Bureau of Labor Statistics)

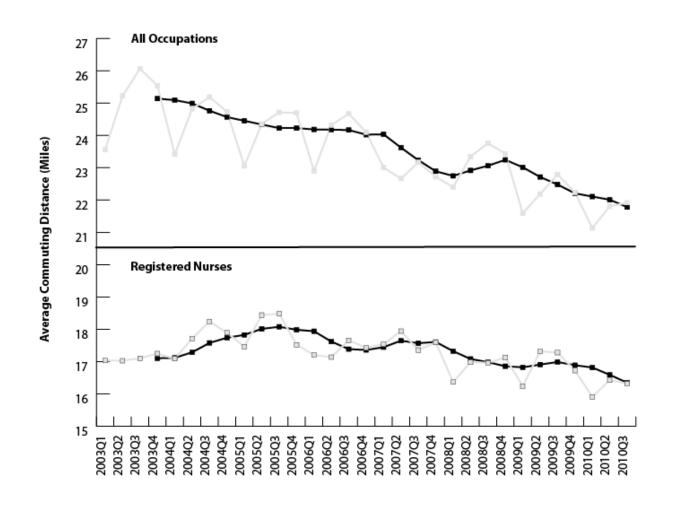
Select Healthcare Workforce Occupations by Area and Need Relative to National

			_	Red Positive
		1	US Rate per [–]	_
SOC CODE	SOC TITLE	US Employment	10,000	WY Need
21-1013	Marriage and Family			_
	Therapists	33,050	1.06	39
21-1014	Mental Health Counselors	110,300	3.53	17
21-1015	Rehabilitation Counselors	111,490	3.57	-22
29-1111	Registered Nurses	2,655,020	84.97	-1
29-1062	Family and General			
	Practitioners	97,820	3.13	-247
29-1065	Pediatricians, General	30,100	0.96	-6
29-1066	Psychiatrists	22,690	0.73	6
20_1067	Surabone	<i>ላ</i> የ ንረበ	1 32	_21

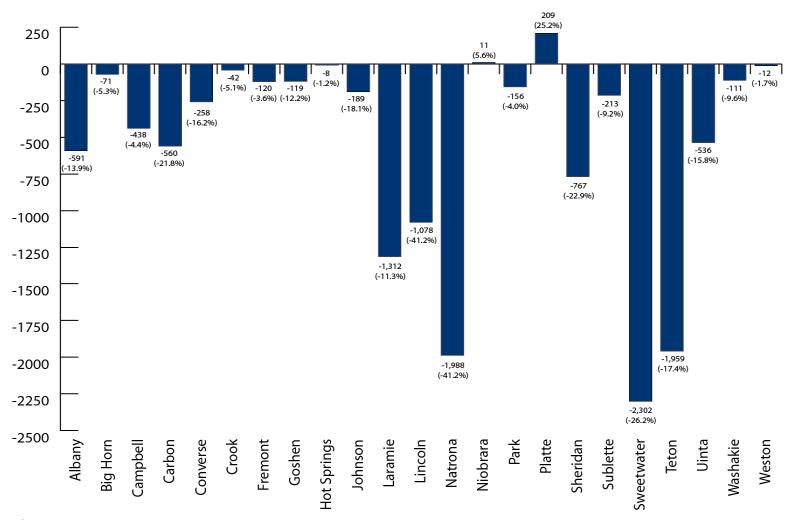
Health Care & Social Assistance (NAICS 62) and Population



Commuting: Average Commuting Distance Declines



Commuting: Inflow Declines with Economic Downturn



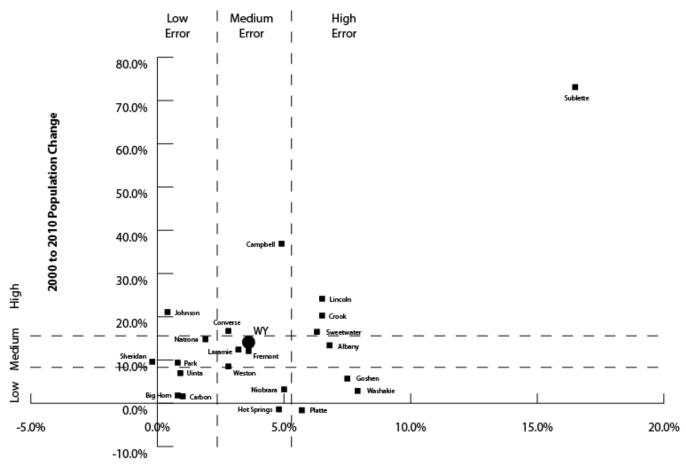


Four Proposals



- 1. Population-Based Deficit
- 2. Replacement Need (Age)
- 3. Track Graduates and Licensees into the Market
- 4. Premature Deaths

Population Changes and Estimates Error in Wyoming, 2000-2010





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