



2011
Healthcare Workforce Report

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Background

Recognizing the importance of a highly trained and available health care workforce, the South Dakota Department of Health established the Healthcare Workforce Center to help address the healthcare workforce needs of the State. The purpose of the Center is to function as a clearinghouse for healthcare workforce-related data and information. The Center is also designed to develop and implement programs and projects that assist individuals, agencies and facilities in their efforts to ensure a competent and qualified healthcare workforce to meet the health needs of all South Dakota residents.

Based on population and employment statistics, projections indicate that thousands of healthcare workers will be needed in the healthcare industry in the next decade. The report draws upon labor statistics, educational preparation data, and current health professions' licensing registries. The report profiles the healthcare workforce projected needs in the future and workforce distribution by geography, age, and profession. The report is designed to be used by policy-makers in the development and coordination of healthcare education and recruitment programs to meet the healthcare workforce needs of the future.

For more information contact the Healthcare Workforce Center at the Department of Health at (605) 773-3361.

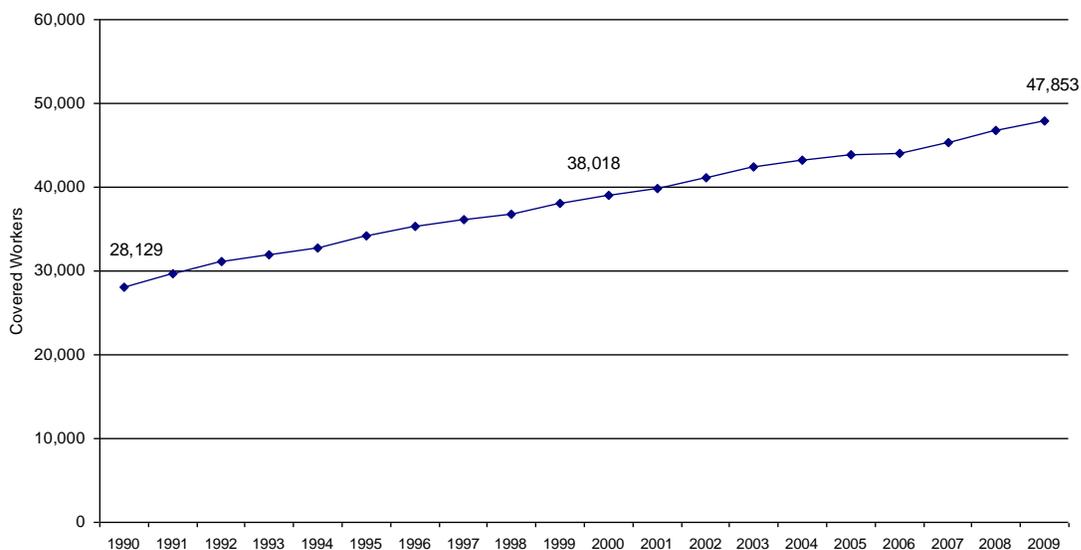
Employment in South Dakota's Healthcare Industry

South Dakota's healthcare industry has experienced substantial and steady growth since 1972 when record keeping began. Growth of the healthcare industry is projected to continue for the foreseeable future and is projected to be one of South Dakota's largest growth industries over the next decade. The industry's demand for workers is driven in part by:

- an aging patient population;
- an expanding population;
- technological advances in the workplace requiring additional staff;
- a growing emphasis on disease management; and
- an aging healthcare workforce who must be replaced as they retire.

The number of workers (covered by unemployment insurance) in South Dakota's healthcare industry increased by 25.9 percent from 1999 to 2009 as shown in Figure 1 below.

Figure 1: Growth in Number of Healthcare Covered Workers from 1999 to 2009



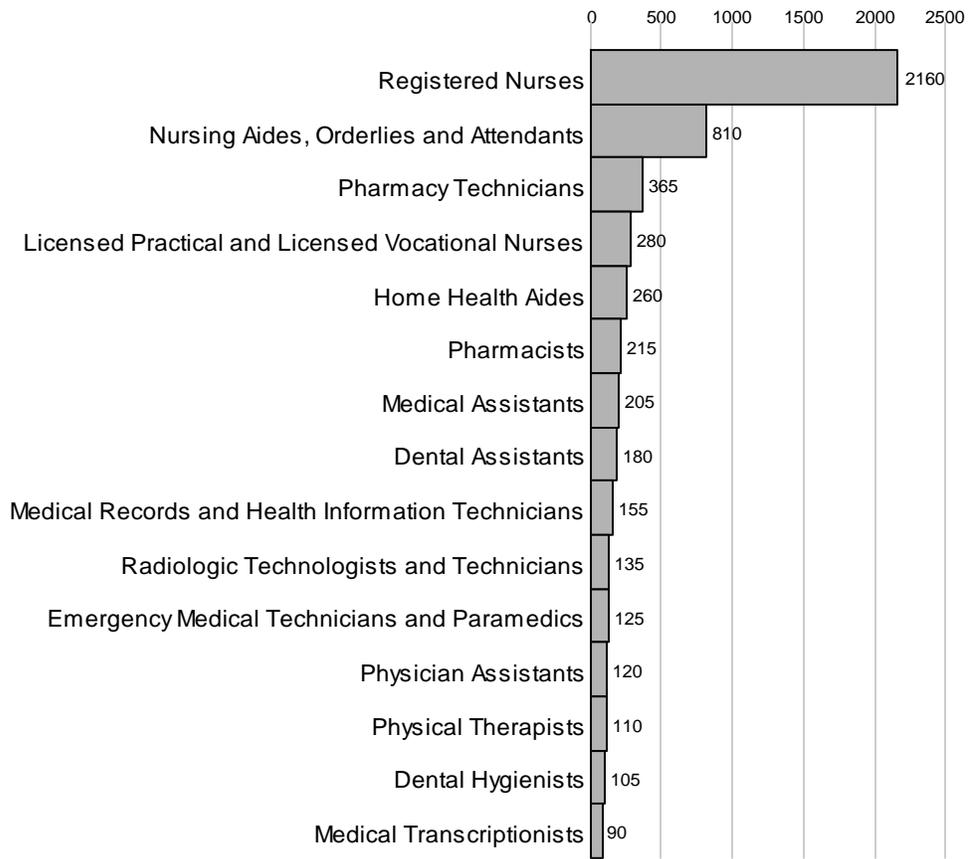
Source: South Dakota Department of Labor, Labor Market Information Center [Covered workers includes Ambulatory Health Care Services, Hospitals and Nursing/Residential Care Facilities]

Healthcare occupations that provide direct healthcare services are among the fastest growing professions in South Dakota and are projected to make up over ten percent of the state's projected new jobs between now and 2018.

There are many ways to analyze the demand for an occupation. Characteristics of demand include how fast an occupation is projected to grow, how many total job openings are projected through industry growth and the need to replace retiring workers. All of these factors can help evaluate whether an occupation is expected to encounter shortages, but no factor tells the entire story alone.

The South Dakota Department of Labor (see Table 1) projections of health occupation needs in the future are consistent with the needs of an aging population. Figure 2 summarizes fifteen healthcare occupations projected to have the highest change in number of new workers by 2018.

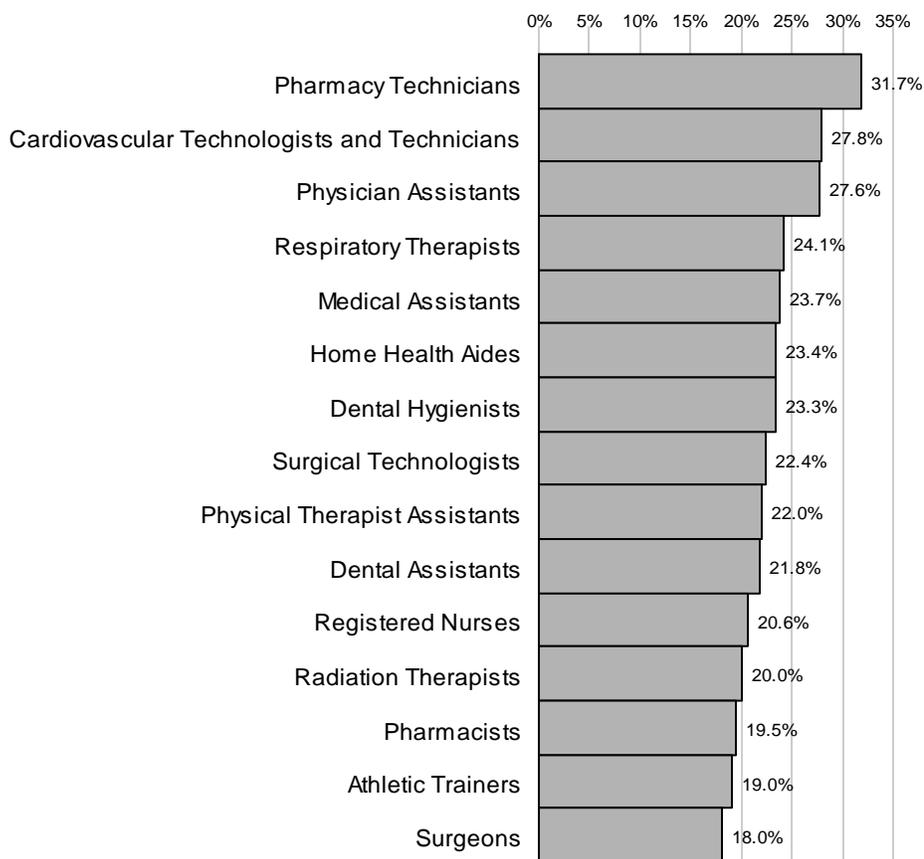
Figure 2: South Dakota Employment Projections 2008-2018 for Healthcare Occupations
Top 15: Actual Change



Source: Labor Market Information Center, South Dakota Department of Labor, December 2010.

In addition to actual change in number of positions, percent change in number of positions is also a helpful metric in identify emerging occupations which are projected to see growth in the future. Review of the top fifteen occupations to see the largest percent change in positions from 2008 to 2018 indicates a growth in many of the technical support occupations (Figure 3). Readers are encouraged to look at the percent change along with the projected actual change in positions to obtain a true sense of occupation needs in the future. See Table 1 and Figures 4 and 5 for a comparison of all the health professions for which projection data was available from the South Dakota Department of Labor.

Figure 3: South Dakota Employment Projections 2008-2018 for Healthcare Occupations
Top 15: Percent Change



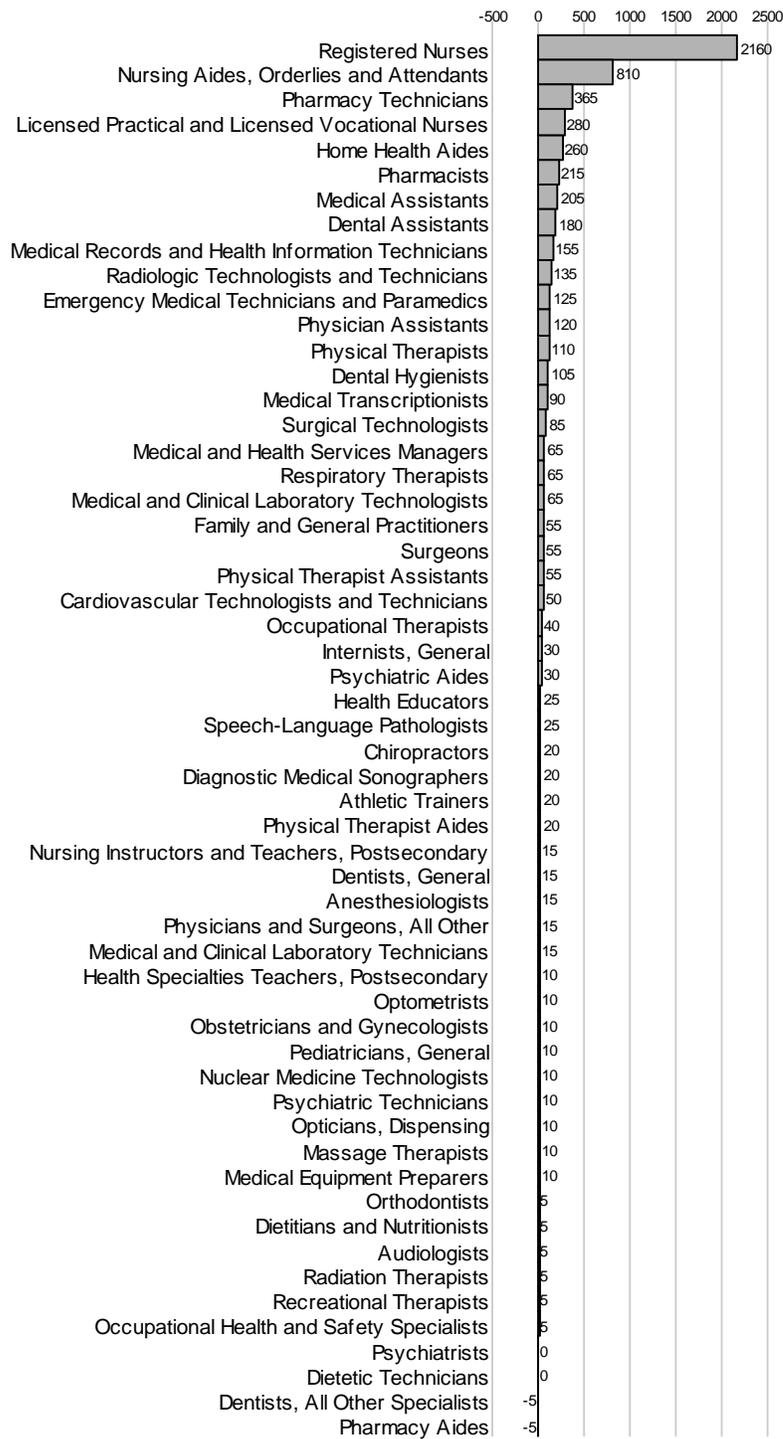
Source: Labor Market Information Center, South Dakota Department of Labor, December 2010.

Table 1: South Dakota Employment Projections 2008 - 2018 for Healthcare Occupations

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Anesthesiologists	145	160	15	10.3%	5
Athletic Trainers	105	125	20	19.0%	6
Audiologists	60	65	5	8.3%	2
Cardiovascular Technologists and Technicians	180	230	50	27.8%	8
Chiropractors	325	345	20	6.2%	8
Dental Assistants	825	1,005	180	21.8%	34
Dental Hygienists	450	555	105	23.3%	20
Dentists, All Other Specialists	30	25	-5	-16.7%	1
Dentists, General	275	290	15	5.5%	9
Diagnostic Medical Sonographers	130	150	20	15.4%	4
Dietetic Technicians	30	30	0	0.0%	1
Dietitians and Nutritionists	160	165	5	3.1%	5
Emergency Medical Technicians and Paramedics	815	940	125	15.3%	29
Family and General Practitioners	420	475	55	13.1%	13
Health Educators	150	175	25	16.7%	6
Health Specialties Teachers, Postsecondary	140	150	10	7.1%	3
Home Health Aides	1,110	1,370	260	23.4%	37
Internists, General	180	210	30	16.7%	6
Licensed Practical and Licensed Vocational Nurses	2,075	2,355	280	13.5%	93
Massage Therapists	155	165	10	6.5%	3
Medical and Clinical Laboratory Technicians	395	410	15	3.8%	10
Medical and Clinical Laboratory Technologists	870	935	65	7.5%	23
Medical and Health Services Managers	615	680	65	10.6%	19
Medical Assistants	865	1,070	205	23.7%	31
Medical Equipment Preparers	120	130	10	8.3%	2
Medical Records and Health Information Technicians	1,080	1,235	155	14.4%	38
Medical Transcriptionists	800	890	90	11.3%	18
Nuclear Medicine Technologists	115	125	10	8.7%	3
Nursing Aides, Orderlies and Attendants	6,365	7,175	810	12.7%	144
Nursing Instructors and Teachers, Postsecondary	185	200	15	8.1%	5
Obstetricians and Gynecologists	95	105	10	10.5%	3
Occupational Health and Safety Specialists	155	160	5	3.2%	5
Occupational Therapists	275	315	40	14.5%	9
Opticians, Dispensing	390	400	10	2.6%	9
Optometrists	225	235	10	4.4%	9
Orthodontists	35	40	5	14.3%	1
Pediatricians, General	60	70	10	16.7%	2
Pharmacists	1,100	1,315	215	19.5%	45
Pharmacy Aides	20	15	-5	-25.0%	0
Pharmacy Technicians	1,150	1,515	365	31.7%	65
Physical Therapist Aides	115	135	20	17.4%	4
Physical Therapist Assistants	250	305	55	22.0%	10
Physical Therapists	630	740	110	17.5%	19
Physician Assistants	435	555	120	27.6%	20
Physicians and Surgeons, All Other	260	275	15	5.8%	7
Psychiatric Aides	510	540	30	5.9%	8
Psychiatric Technicians	155	165	10	6.5%	5
Psychiatrists	55	55	0	0.0%	1
Radiation Therapists	25	30	5	20.0%	2
Radiologic Technologists and Technicians	995	1,130	135	13.6%	28
Recreational Therapists	60	65	5	8.3%	2
Registered Nurses	10,490	12,650	2,160	20.6%	399
Respiratory Therapists	270	335	65	24.1%	11
Speech-Language Pathologists	270	295	25	9.3%	8
Surgeons	305	360	55	18.0%	11
Surgical Technologists	380	465	85	22.4%	19

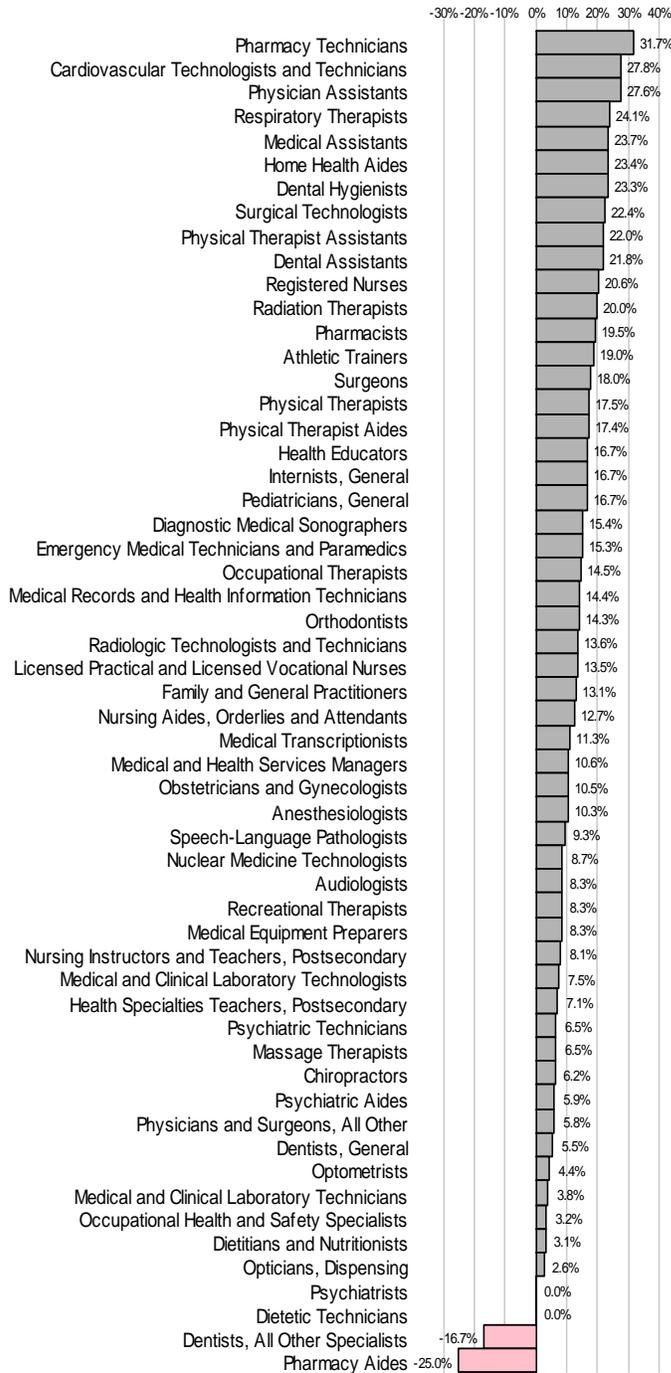
Source: Labor Market Information Center, South Dakota Department of Labor, December 2010

Figure 4: South Dakota Employment Projections 2008-2018 for Health Care Occupations
Actual Change



Source: Labor Market Information Center, South Dakota Department of Labor, December 2010.

Figure 5: South Dakota Employment Projections 2008-2018 for Health Care Occupations Percent Change



Source: Labor Market Information Center, South Dakota Department of Labor, December 2010.

Notes Related to South Dakota Department of Labor Employment Projections Data: Data for occupations with less than 20 jobs in 2008 not included. Data presented for occupations will not sum to totals due to data for additional occupations and non-publishable data for additional occupations being included in totals. Demand data is the summation of job openings estimated due to projected employment growth (for those occupations for which the 2008 to 2018 actual change is positive) and job openings projected to be created due to replacement need of current workers. Replacement need is estimated by multiplying occupational employment estimates by national replacement rates supplied by the U.S. Bureau of Labor Statistics (BLS). These rates estimate the number of job openings, by occupation, which will be attributed to a worker permanently leaving an occupation (e.g. retirement, death, exits the workforce, etc.). Average annual demand data are calculated by dividing by ten, the number of years in the projection period. For more information, see http://dol.sd.gov/lmic/projections_methodology.aspx.

Educational Supply

Many of the healthcare occupations included in this report require some level of postsecondary education. Training programs exist in South Dakota for many of the major occupations. Data on program completers summarized in Table 2 and Table 3 was drawn from the South Dakota Board of Regents and from the National Center for Educational Statistics' Integrated Postsecondary Education Data System (IPEDS) for private universities, tribal colleges and universities, and postsecondary technical institutes.

Table 2: Selected Healthcare Occupations – Degrees Conferred by Public Universities, FY06- FY2010

Major Description	Univ.	Degree	2005-06	2006-07	2007-08	2008-09	2009-10	5-Year Total	5-Year Average
Athletic Training	SDSU	B	15	19	14	14	12	74	14.8
Audiology	USD	AuD	0	1	1	3	3	8	1.6
Dental Hygiene	USD	A	25	34	31	32	30	152	30.4
	USD	B	22	19	33	32	38	144	28.8
Dietetics specialization	SDSU	B	8	8	16	7	14	53	10.6
Health Information Technology	DSU	A	7	6	8	8	8	37	7.4
Health Information Administration	DSU	B	3	5	4	6	5	23	4.6
Medical Technology/ Clinical & Laboratory Sciences	NSU	B	1	1	1	0	0	3	0.6
	SDSU	B	8	14	13	10	8	53	10.6
	USD	B	4	5	2	8	8	27	5.4
Medicine (MD)	USD	MD	51	48	53	47	46	245	49.0
Nursing									
AS Nursing	USD	A	258	279	249	271	272	1,329	265.8
Nursing RN Upward Mobility	SDSU	B	41	49	55	65	56	266	53.2
BS Nursing	SDSU	B	204	197	229	246	229	1,105	221.0
MS Nursing, Family Nurse Practitioner	SDSU	M	22	16	20	18	32	108	21.6
MS Nursing, Neonatal Nurse Practitioner	SDSU	M	1	2	0	2	1	6	1.2
MS Nursing, Psychiatric Nurse Practitioner	SDSU	M	2	1	1	2	0	6	1.2
MS Nursing, Nursing Administrator	SDSU	M	0	1	1	3	6	11	2.2
MS Nursing, Nursing Educator	SDSU	M	1	4	5	5	4	19	3.8
Occupational Therapy	USD	M	11	8	11	19	18	67	13.4
Pharmacy	SDSU	PharmD	59	54	62	60	70	305	61.0
Physical Therapy	USD	M/DPT	15	21	21	27	26	110	22.0
Physician Assistant Studies	USD	B	12	1	0	1	0	14	2.8
	USD	M	7	21	19	19	20	86	17.2
Respiratory Care	DSU	A	12	19	18	20	13	82	16.4
	DSU	B	4	3	3	3	4	17	3.4
Speech-Language Pathology	USD	M	8	11	17	15	19	70	14.0

Table 3: Selected Health Care Occupations Graduates Reported by Private Universities/Other Institutions in South Dakota for Academic Year 2008-2009 as Reported in the National Center for Educational Statistics' Integrated Postsecondary Education Data System (IPEDS)

Discipline Field	Institution	Year	Completers
Athletic Training	Augustana College	2008-2009	8
	Dakota Wesleyan University	2008-2009	3
	National American University – Rapid City	2008-2009	4
Dental Assistant	Lake Area Technical Institute	2008-2009	42
Massage Therapy	National American University – Sioux Falls	2008-2009	9
	Headlines Academy – Rapid City	2008-2009	26
Medical Assistant	Presentation College, Aberdeen	2008-2009	5
	Colorado Technical University	2008-2009	25
	Lake Area Technical Institute	2008-2009	16
	Mitchell Technical Institute	2008-2009	9
	National American University – Sioux Falls	2008-2009	9
Medical Laboratory Technician	Lake Area Technical Institute	2008-2009	10
	Mitchell Technical Institute	2008-2009	10
	Southeast Technical Institute	2008-2009	16
	Western Dakota Technical Institute	2008-2009	18
Medical Laboratory Sciences	Mount Marty College	2008-2009	1
Nursing (LPN)	Lake Area Technical Institute	2008-2009	54
Nursing (LPN)	Southeast Technical Institute	2008-2009	75
Nursing (LPN)	Western Dakota Technical Institute	2008-2009	21
Nursing – Bachelor (RN)	Augustana College	2008-2009	51
Nursing – Associate (RN)	Dakota Wesleyan University	2008-2009	60
Nursing – Bachelor (RN)	Dakota Wesleyan University	2008-2009	5
Nursing – Bachelor (RN)	Mount Marty College	2008-2009	19
Nursing – Bachelor (RN)	National American University – Rapid City	2008-2009	12
Nursing – Bachelor (RN)	National American University – Sioux Falls	2008-2009	4
Nursing – Associate (RN)	Oglala Lakota College	2008-2009	7
Nursing – Associate (RN)	Presentation College	2008-2009	2
Nursing – Bachelor (RN)	Presentation College	2008-2009	57
Nursing – Associate (RN)	Sisseton Wahpeton Co	2008-2009	9
Master's Nurse Anesthesia	Mount Marty College	2008-2009	40
Occupational Therapy Assistants	Lake Area Technical Institute	2008-2009	10
Pharmacy Technician	National American University – Sioux Falls	2008-2009	5
	Southeast Technical Institute	2008-2009	20
	Western Dakota Technical Institute	2008-2009	24
Physical Therapy Assistants	Lake Area Technical Institute	2008-2009	16

Profiles for Individual Occupations

Data Sources

In addition to employment projection data provided by the South Dakota Department of Labor, data from the licensing and certification boards was also obtained. The intent of collecting information from the licensing and certification boards was to expand upon the South Dakota Department of Labor data by providing a summation of the current licensed/certified workforce using geographic and age descriptors.

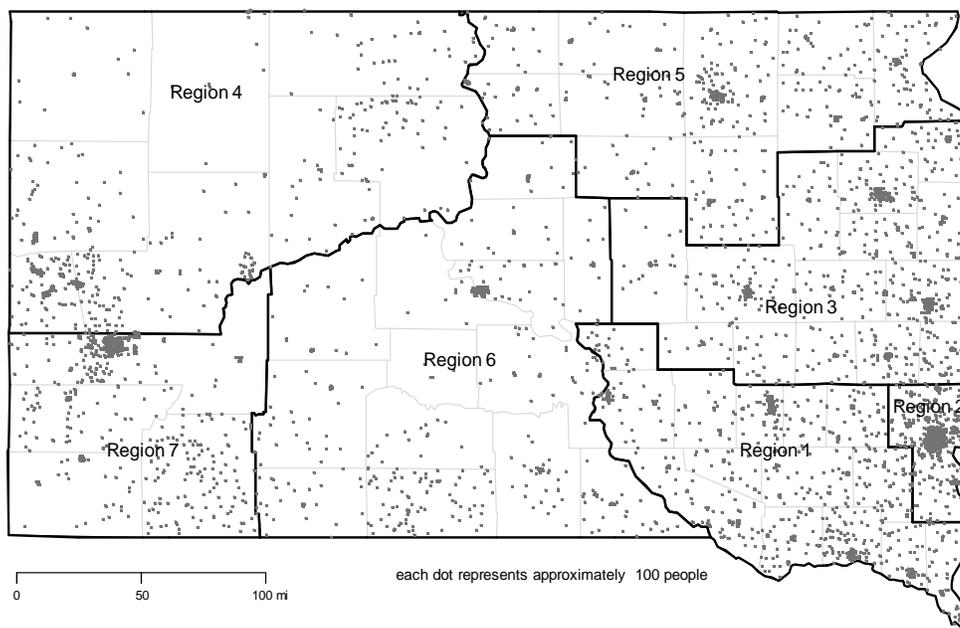
Table 4: Professional Licensing Boards and Professions Data Sources

Professional Licensing Board	Professions
South Dakota Board of Chiropractic Examiners	<ul style="list-style-type: none"> • Chiropractors
South Dakota Board of Dentistry	<ul style="list-style-type: none"> • Advanced Dental Assistants • Dental Hygienists • Dentists
South Dakota Board of Massage Therapy	<ul style="list-style-type: none"> • Massage Therapists
South Dakota Board of Medical and Osteopathic Examiners	<ul style="list-style-type: none"> • Athletic Trainers • Dietitians and Nutritionists • Emergency Medical Technicians (EMTs) • Medical Assistant/Registration • Occupational Therapists • Occupational Therapy Assistants • Paramedics • Physical Therapists • Physical Therapy Assistants • Physicians • Physician Assistants • Respiratory Therapists
South Dakota Board of Nursing	<ul style="list-style-type: none"> • Certified Nurse Practitioners (CNPs) • Licensed Practical Nurses • Nurse Anesthetists (CRNAs) • Registered Nurses
South Dakota Board of Optometry	<ul style="list-style-type: none"> • Optometrists
South Dakota Board of Pharmacy	<ul style="list-style-type: none"> • Pharmacists

Geographic Distribution

The distribution of providers was examined by regions. The map of South Dakota illustrates the population distribution and the seven regions.

Region	Counties
Region 1	Aurora, Brule, Bon Homme, Buffalo, Charles Mix, Clay, Davison, Douglas, Hanson, Hutchinson, McCook, Turner, Union, Yankton
Region 2	Minnehaha, Lincoln
Region 3	Beadle, Brookings, Clark, Codington, Deuel, Grant, Hamlin, Hand, Jerauld, Kingsbury, Lake, Miner, Moody, Sanborn
Region 4	Butte, Corson, Dewey, Harding, Lawrence, Meade, Perkins, Ziebach
Region 5	Brown, Campbell, Day, Edmunds, Faulk, Marshall, McPherson, Roberts, Spink, Walworth
Region 6	Bennett, Gregory, Haakon, Hughes, Hyde, Jackson, Jones, Lyman, Mellette, Potter, Stanley, Sully, Tripp, Todd
Region 7	Custer, Fall River, Pennington, Shannon



Advanced Dental Assistants

Description: Assists dentist in provision of dental care, sets up patient and equipment.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 34 new Dental Assistants per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Dental Assistants	825	1,005	180	21.8%	34

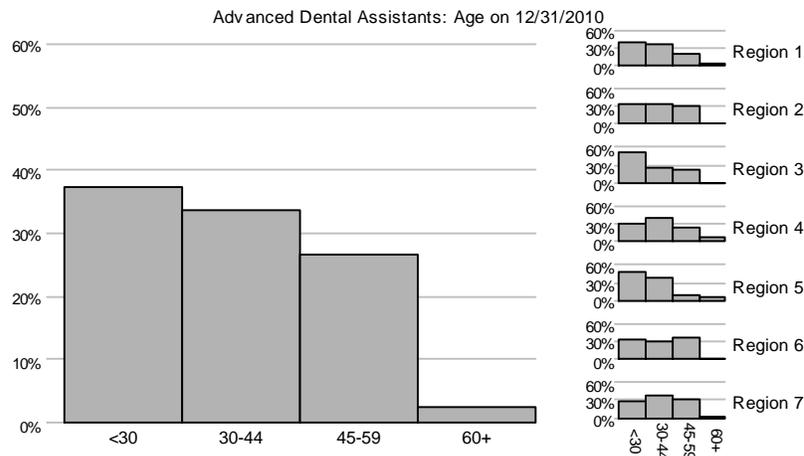
* The Department of Labor statistics do not distinguish between a dental assistant and an advanced dental assistants.

Current Workforce Information: The statewide median age of Advanced Dental Assistants is 34.5 years of age.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	64	35.8	11.8	33.5	25%	4.7%
2	223	37.1	12.0	35	31.8%	2.2%
3	143	33.6	11.3	29	23.1%	0%
4	51	38.2	11.7	37	29.4%	5.9%
5	43	33.5	12.1	30	14%	4.7%
6	27	38.1	12.4	38	37%	0%
7	124	39.0	11.4	39	35.5%	3.2%
Not SD*	25	37.3	10.9	36	32%	0%
Total	700	36.5	11.8	34.5	29%	2.4%

*Licensure/certification data included individuals with addresses not located in South Dakota. Data above includes advanced dental assistants only.



Supply: During the 2008-2009 academic year, there were 42 graduates reported from the Dental Assistant program in South Dakota.

Athletic Trainers

Description: Athletic Trainers assess sports injuries, provide appropriate treatment, and educate athletes on injury-prevention programs as well as healthy lifestyles. Athletic Trainers keep athletes rehabilitated, injury free and able to perform at their highest potential.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 6 new athletic trainers per year.

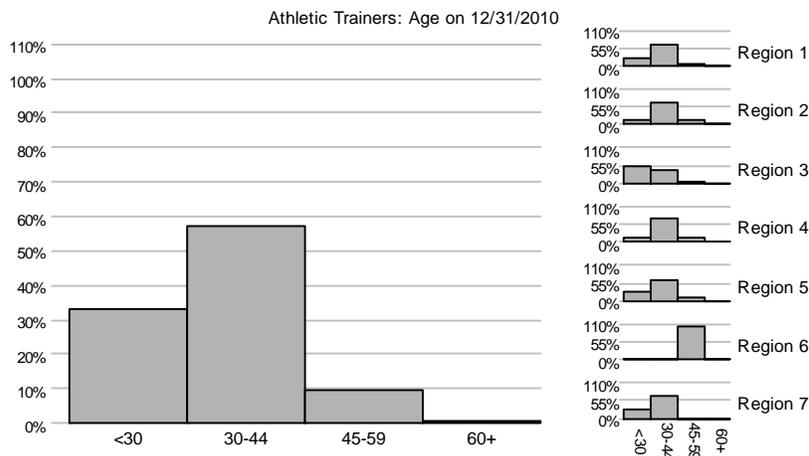
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Athletic Trainers	105	125	20	19.0%	6

Current Workforce Information: The statewide median age of Athletic Trainers is 32 years of age and 10% of trainers are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	34	34.2	6.9	33.5	5.9%	0%
2	48	37.2	9.1	36	18.8%	2.1%
3	28	30.3	6.3	28.5	3.6%	0%
4	8	35.3	7.5	32	12.5%	0%
5	11	34.1	7.0	32	9.1%	0%
6	1	51.0	-	51	100%	0%
7	10	32.2	5.7	32.5	0%	0%
Not SD*	30	30.9	7.3	28.5	6.7%	0%
Total	170	33.9	8.0	32.0	10%	1%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 29 graduates reported from Athletic Trainer programs in South Dakota.

Chiropractors

Description: Chiropractors use natural, non-surgical treatments such as heat, ultrasound, massage, light, diet, water, exercise, and rest to treat patient's overall health and well-being. Postural and spinal analysis, involving correct alignment of the vertebrae, is unique to Chiropractors.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 8 new Chiropractors per year.

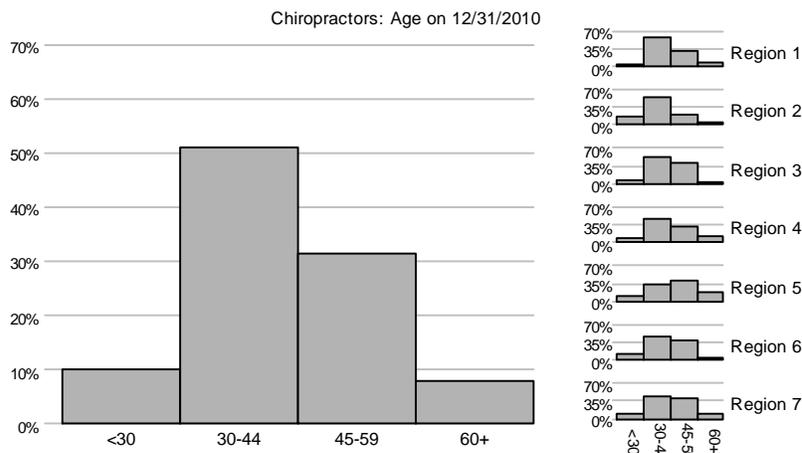
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Chiropractors	325	345	20	6.2%	8

Current Workforce Information: The statewide median age of Chiropractors is 40 years of age and 39.1% of Chiropractors are age 45 or older. The percent of Chiropractors age 45 and older is greater than 56.5% in Region 5 which could lead to greater need for Chiropractors in that region of the state over the next 10 years.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	65	43.3	10.8	40.0	40.0%	9.2%
2	118	40.0	12.2	36.0	28.8%	6.8%
3	55	42.4	9.7	40.0	41.8%	1.8%
4	22	44.1	12.7	42.5	45.5%	13.6%
5	23	47.3	13.0	45.0	56.5%	17.4%
6	18	43.1	11.4	41.0	44.4%	5.6%
7	52	45.1	12.9	42.5	48.1%	9.6%
Not SD*	10	40.6	10.6	39.0	30.0%	0%
Total	363	42.5	11.8	40.0	39.1%	7.7%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: There are currently no Chiropractic education programs in South Dakota.

Certified Nurse Practitioners (CNPs)

Description: Nurse Practitioners take medical histories, conduct physical exams, make diagnoses, and implement treatment plans. Nurse Practitioners order and interpret lab tests and x-rays as well as write prescriptions. Nurse Practitioners have completed advanced training in nursing.

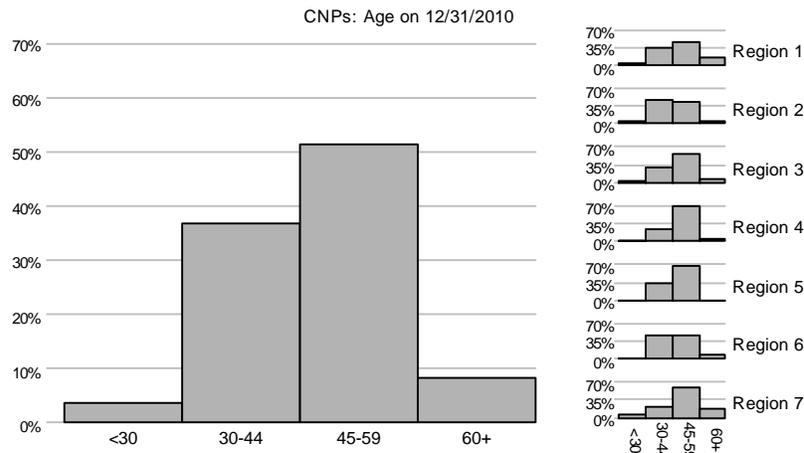
Demand: Employment projection data specific for Certified Nurse Practitioners was not included in the South Dakota Department of Labor projections.

Current Workforce Information: The statewide median age of Certified Nurse Practitioners (CNPs) is 48 years of age and 59.8% of CNPs are age 45 and older. The percent of CNPs age 45 and older is greater than 50% in six of seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	39	46.6	10.5	48.8	61.5%	15.4%
2	146	43.6	9.8	43.0	47.9%	5.5%
3	41	47.6	9.8	51.0	65.9%	7.3%
4	36	50.0	8.7	51.5	75.0%	5.6%
5	18	45.7	8.5	48.0	66.7%	0%
6	15	45.2	9.0	45.0	53.3%	6.7%
7	77	50.8	9.4	53.0	75.3%	15.6%
Not SD*	53	45.4	10.5	46.0	52.8%	5.7%
Total	425	46.5	10.0	48.0	59.8%	8.2%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year there were 22 graduates and during the 2009-2010 academic year there were 33 graduates from CNP programs in South Dakota (includes Family Nurse Practitioners, Neonatal Nurse Practitioners, and Psychiatric Nurse Practitioners). For more information on the nursing workforce please refer to:

- South Dakota Center for Nursing Workforce, South Dakota Nursing Workforce Supply and Employment Characteristics: 2011.
- South Dakota Board of Nursing, South Dakota Annual Report of Nursing Education Programs: 2010

Both reports can be found at: <http://doh.sd.gov/Boards/Nursing/RandP.aspx>

Dental Hygienists

Description: Dental Hygienists evaluate the patients' dental health and teach patients how to practice good oral hygiene. Dental Hygienists clean the patients' teeth, take x-rays and apply fluorides and sealants to teeth.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 20 new Dental Hygienists per year.

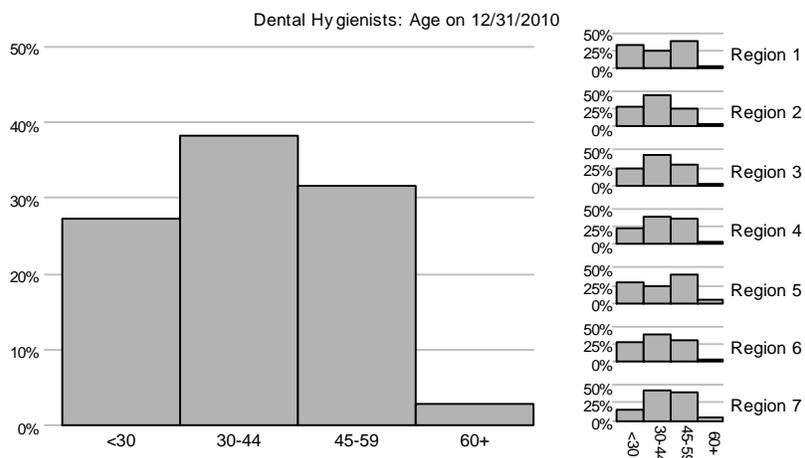
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Dental Hygienists	450	555	105	23.3%	20

Current Workforce Information: The statewide median age of Dental Hygienists is 37.5 years of age and 34.4% of Dental Hygienists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	101	39.8	13.3	38.0	41.6%	4.0
2	184	37.9	10.6	35.0	29.3%	2.7
3	60	39.0	10.6	38.5	31.7%	1.7
4	41	39.9	11.3	38.0	39.0%	2.4
5	40	39.8	11.5	43.0	45.0%	5.0
6	29	39.2	11.8	36.0	34.5%	3.4
7	88	41.9	11.0	41.0	42.0%	3.4
Not SD*	117	37.0	11.2	35.0	26.5%	1.7
Total	660	39.0	11.4	37.5	34.4%	2.9

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 32 associate degree program graduates and 32 baccalaureate degree program graduates reported from the Dental Hygiene program in South Dakota.

Dentists

Description: Dentists diagnose, prevent, and treat problems with teeth or mouth tissue. They remove decay, fill cavities, examine x-rays, place protective plastic sealants on teeth, and repair fractured teeth. Dentists perform corrective surgery on gums and supporting bones to treat gum disease.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that each year South Dakota will need an average of 9 new Dentists (General) per year and 1 Orthodontist and 1 Dentist in a specialty area.

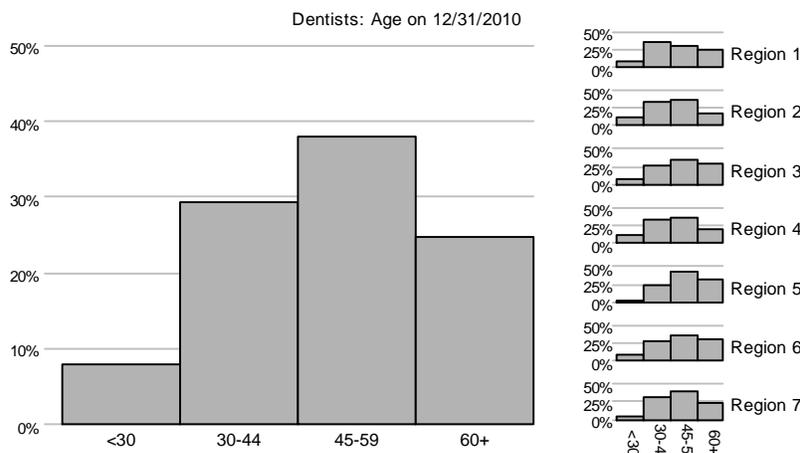
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Dentists, General	275	290	15	5.5%	9
Orthodontists	35	40	5	14.3%	1
Dentists, All Other Specialists	30	25	-5	-16.7%	1

Current Workforce Information: The statewide median age of Dentists is 51 years of age and 62.8% of Dentists are age 45 or older. The percent of Dentists age 45 and older is greater than 50% in all seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	54	48.5	14.6	49.0	55.6%	25.9%
2	135	46.9	13.3	48.0	56.3%	18.5%
3	64	50.8	14.9	55.5	64.1%	29.7%
4	27	47.6	14.2	49.0	55.6%	18.5%
5	35	52.4	13.0	53.0	74.3%	31.4%
6	26	51.0	15.4	54.5	65.4%	30.8%
7	90	49.8	12.9	51.0	63.3%	23.3%
Not SD*	104	51.2	13.0	53.5	71.2%	27.9%
Total	535	49.5	13.7	51.0	62.8%	24.7%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: There are currently no Dental programs in South Dakota.

Dietitians and Nutritionists

Description: Dietitians assess the nutritional needs of patients after consulting with physicians and other health care professionals. Nutritionists plan patient menus and meals as well as instruct patients on proper nutrition and/or dietary restrictions. They help to prevent and treat illnesses by promoting healthy eating habits and recommending dietary modifications.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 5 new Dietitians and Nutritionists per year.

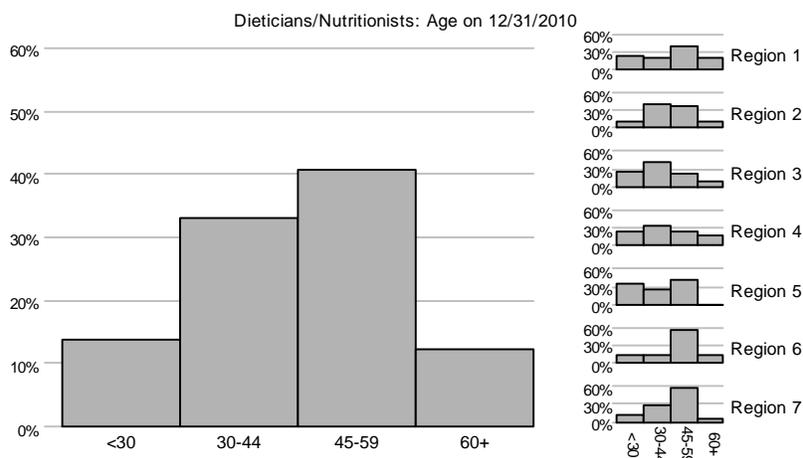
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Dietitians and Nutritionists	160	165	5	3.1%	5

Current Workforce Information: The statewide median age of Dietitians and Nutritionists is 47 years of age and 53.0% of Dietitians and Nutritionists are age 45 or older. The percent of Dietitians and Nutritionists age 45 and older is greater than 50% in four out of the seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	22	44.8	14.0	47.0	59.1%	18.2%
2	79	44.0	12.1	43.0	48.1%	11.4%
3	22	40.0	12.6	37.5	31.8%	9.1%
4	12	41.7	12.9	38.5	41.7%	16.7%
5	12	39.8	12.2	33.5	41.7%	0%
6	7	49.9	13.6	54.0	71.4%	14.3%
7	29	46.2	10.0	49.0	62.1%	3.4%
Not SD*	83	47.0	11.8	48.0	60.2%	16.9%
Total	266	44.8	12.2	47.0	53.0%	12.4%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were seven graduates and during the 2009-2010 academic year there were fourteen graduates from Dietetics and Nutritional programs in South Dakota.

Emergency Medical Technician (EMT)

Description: EMTs treat seriously ill or injured patients before the patient reaches the hospital. EMTs are trained to recognize, assess, and manage medical and trauma emergencies of acutely ill patients and give immediate care to the patient. EMTs transport the sick or injured patient to medical facilities.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 29 new EMTs and Paramedics per year.

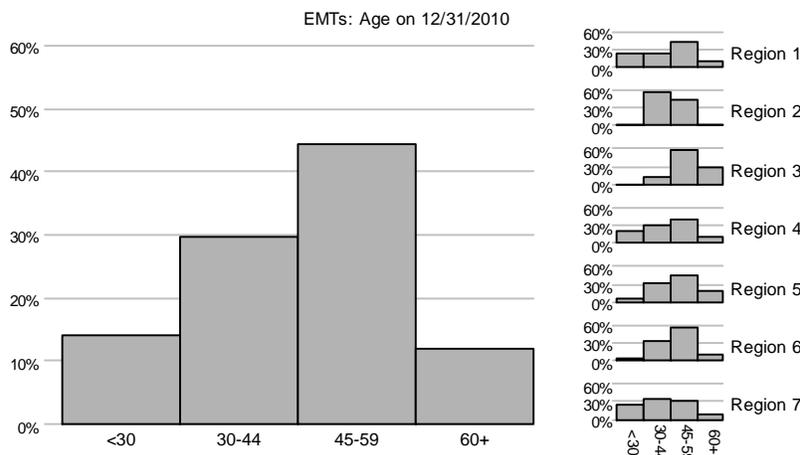
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Emergency Medical Technicians and Paramedics	815	940	125	15.3%	29

Current Workforce Information: The statewide median age of EMTs is 47 years of age and 56.1% of EMTs are age 45 or older. The percent of EMTs age 45 and older is greater or equal to 50% in five out of the seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	29	42.9	13.4	46.0	51.7%	10.3%
2	9	44.3	7.4	43.0	44.4%	0%
3	17	51.5	8.5	52.0	88.2%	29.4%
4	52	43.2	12.8	44.5	50.0%	9.6%
5	22	48.8	11.6	50.5	63.6%	18.2%
6	31	48.4	9.5	50.0	64.5%	9.7%
7	45	40.7	12.4	41.0	40.0%	8.9%
Not SD*	23	49.6	10.5	51.0	69.6%	13.0%
Total	228	45.2	12.0	47.0	56.1%	11.8%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: Training for EMTs is provided through hospital and community education programs located throughout the state.

Licensed Practical Nurses (LPNs)

Description: LPNs measure and record patients' vital signs such as height, weight, temperature, blood pressure, pulse and respiration. They prepare and give injections, monitor catheters, and dress wounds. Licensed Practical Nurses assist with bathing, dressing and personal hygiene, moving in bed, standing and walking.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 93 Licensed Practical Nurses per year.

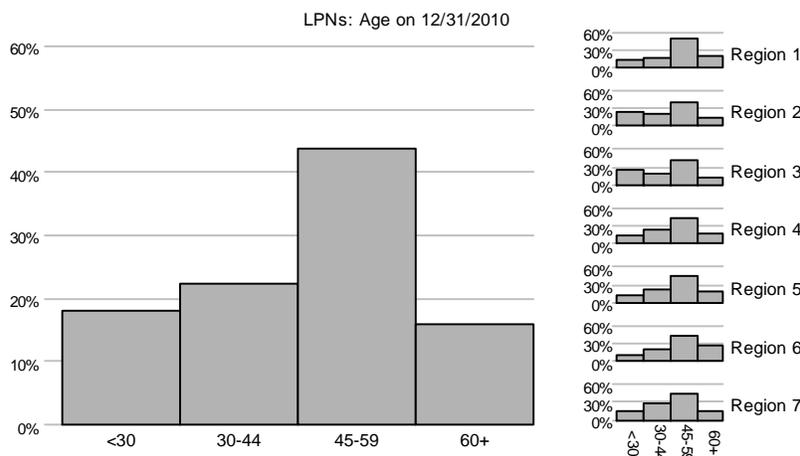
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Licensed Practical and Licensed Vocational Nurses	2,075	2,355	280	13.5%	93

Current Workforce Information: The statewide median age of Licensed Practical Nurses is 48 years of age and 59.6% of licensed practical nurses are age 45 or older. The percent of Licensed Practical Nurses age 45 and older is greater than 50% in all seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	292	48.0	12.8	50.0	69.2%	18.5%
2	625	44.6	14.2	47.0	55.2%	15.7%
3	387	43.0	14.3	46.0	54.3%	12.1%
4	195	46.7	13.4	48.0	61.5%	16.9%
5	240	47.5	13.7	51.0	63.3%	17.1%
6	123	50.7	13.3	53.0	71.5%	27.6%
7	372	45.6	12.9	48.0	57.3%	13.2%
Not SD*	113	45.5	12.9	48.0	60.2%	13.3%
Total	2347	45.8	13.7	48.0	59.6%	15.8%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 150 individuals who completed LPN programs. (See Table 3). For more information on the nursing workforce please refer to:

- South Dakota Center for Nursing Workforce, South Dakota Nursing Workforce Supply and Employment Characteristics: 2011.
- South Dakota Board of Nursing, South Dakota Annual Report of Nursing Education Programs: 2010

Both reports can be found at: <http://doh.sd.gov/Boards/Nursing/RandP.aspx>

Massage Therapists

Description: Massage Therapists use hands-on techniques to manipulate soft tissue – the skin, muscles, tendons, ligaments, and fascia (membranes surrounding muscles) to help restore health and well-being.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that each year South Dakota will need an average of 3 new Massage Therapists per year.

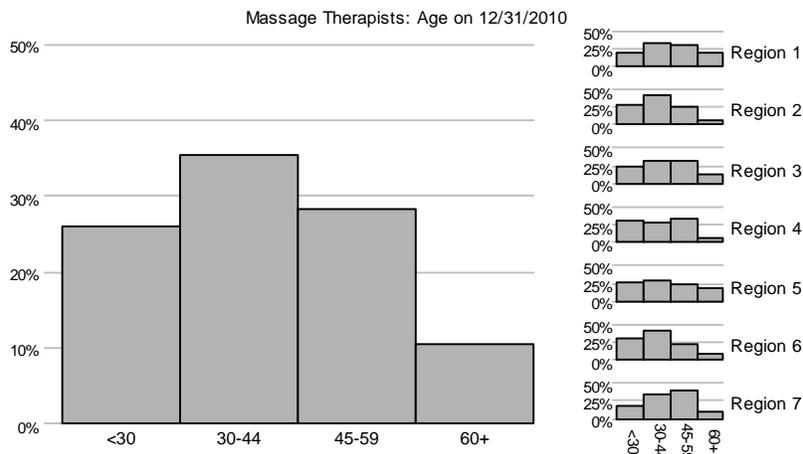
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Massage Therapists	155	165	10	6.5%	3

Current Workforce Information: The statewide median age of Massage Therapists is 37 years of age and 38.8% of massage therapists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	80	44.1	15.1	42.5	47.5%	18.8%
2	166	38.8	12.8	34.0	30.7%	6.0%
3	67	41.5	13.9	40.0	44.8%	13.4%
4	69	39.4	12.6	36.0	40.6%	7.2%
5	81	42.8	15.0	41.0	43.2%	18.5%
6	24	39.8	14.4	36.5	29.2%	8.3%
7	143	43.2	12.6	42.0	47.6%	8.4%
Not SD*	112	37.8	12.7	33.0	27.7%	8.0%
Total	742	40.8	13.5	37.0	38.8%	10.4%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 35 graduates reported from Massage Therapy programs in South Dakota.

Medical Assistant/Registration

Description: Medical Assistant/Registration performs clinical and administrative duties to keep health care delivery settings running smoothly. They assist physicians, physician assistants and nurse practitioners during exams and treatments. Medical Assistants also may give injections, take blood for testing, perform simple lab tests and evaluation testing including electrocardiography.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 31 new Medical Assistants per year.

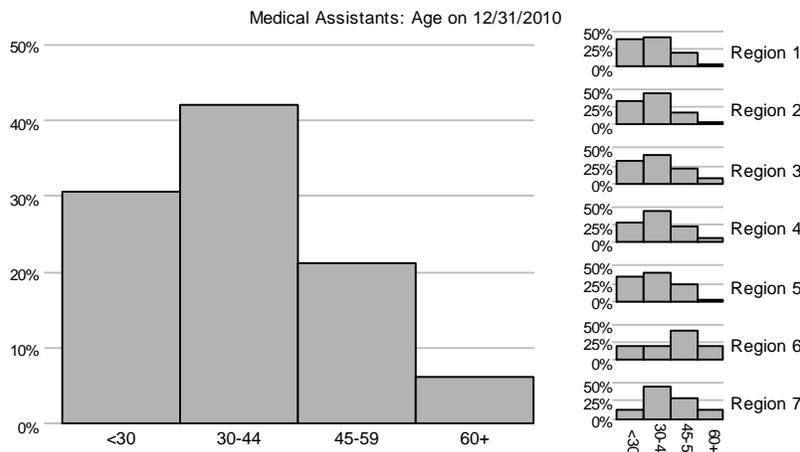
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Medical Assistants	865	1,070	205	23.7%	31

Current Workforce Information: The statewide median age of Medical Assistants is 34 years of age and 27.2% of Medical Assistants are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	61	35.4	11.5	31.0	21.3%	3.3%
2	154	36.4	10.5	33.0	22.1%	3.9%
3	70	37.3	13.0	33.0	28.6%	7.1%
4	18	38.0	10.9	34.5	27.8%	5.6%
5	35	37.0	10.9	33.0	25.7%	2.9%
6	10	45.5	14.8	46.5	60.0%	20.0%
7	39	41.9	12.9	37.0	41.0%	12.8%
Not SD*	69	38.9	13.4	35.0	30.4%	8.7%
Total	456	37.6	11.9	34.0	27.2%	6.1%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 64 program completers reported from Medical Assistant programs in the state.

Medical Laboratory Scientists

Description: Medical Laboratory Scientists perform complex medical laboratory tests for diagnosis, treatment, and prevention of disease. They may train or supervise staff.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 23 new Medical Laboratory Scientists per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Medical and Clinical Laboratory Technologists	870	935	65	7.5%	23

Current Workforce Information: Information on the age and geographic distribution of the current Medical and Clinical Laboratory Technology workforce is not currently available.

Supply: During the 2008-2009 academic year, there were 19 graduates reported from Medical and Clinical Laboratory Technology programs in South Dakota.

Medical Laboratory Technicians

Description: Medical Laboratory Technicians provide support for and perform medical laboratory tests for diagnosis, treatment, and prevention of disease.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 10 new Medical Laboratory Technicians per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Medical and Clinical Laboratory Technicians	395	410	15	3.8%	10

Current Workforce Information: Information on the age and geographic distribution of the current medical laboratory technician workforce is not currently available.

Supply: During the 2008-2009 academic year, there were 70 completers reported from Medical and Clinical Laboratory Technician programs in South Dakota.

Medical Records and Health Information Technicians

Description: Medical Records and Health Information Technicians assemble patients' health information including medical history, symptoms, examination results, diagnostic tests, treatment methods, and all other healthcare provider services. They ensure that all the necessary forms are present, properly identified, signed and filed. Technicians organize and manage health information data by ensuring its quality, accuracy, accessibility, and security. They regularly communicate with physicians and other healthcare professionals to clarify diagnoses or to obtain additional information.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 38 new Medical Records and Health Information Technicians per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Medical Records and Health Information Technicians	1,080	1,235	155	14.4%	38

Current Workforce Information: Information on the age and geographic distribution of the current Medical Records and Health Information Technician workforce is not currently available.

Supply: During the 2008-2009 academic year, there were eight graduates reported from Medical Records and Health Information training programs in South Dakota.

Nurse Anesthetist (CRNA)

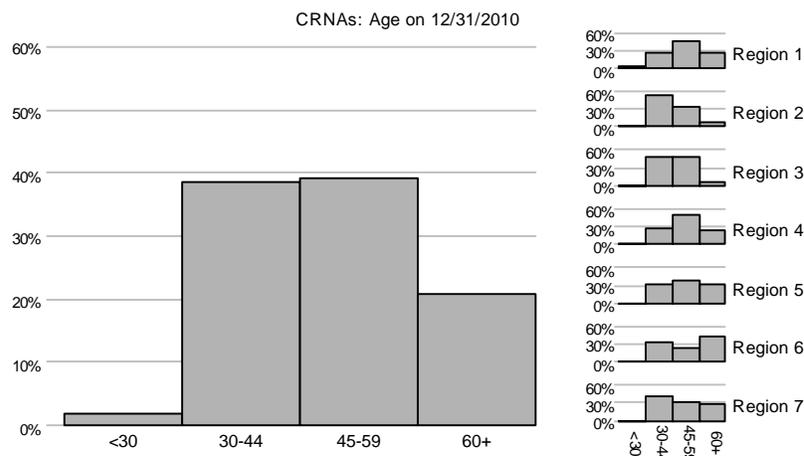
Description: Nurse Anesthetists monitor important body functions and individually modify the anesthetic to ensure maximum safety and comfort during surgery. CRNAs oversee recovery from anesthesia after surgery in the recovery room to the patient care unit. CRNAs stay with their patients through the entire surgical procedure.

Demand: The South Dakota Department of Labor data does not include projections specific to Certified Registered Nurse Anesthetists.

Current Workforce Information: The statewide median age of CRNAs is 49 years of age and 59.7% of CRNAs are age 45 or older. The percent of CRNAs age 45 and older is greater than 50% in six out of the seven regions of the state.

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	45	51.7	11.4	57.0	71.1%	26.7%
2	139	44.2	10.1	42.0	43.9%	9.4%
3	19	45.3	10.5	47.0	52.6%	5.3%
4	22	50.1	10.0	52.0	72.7%	22.7%
5	19	51.9	12.5	51.0	68.4%	31.6%
6	9	52.6	11.9	56.0	66.7%	44.4%
7	56	49.1	10.9	48.0	58.9%	28.6%
Not SD*	73	52.8	9.9	53.0	78.1%	30.1%
Total	382	48.5	11.0	49.0	59.7%	20.7%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 40 graduates from the CRNA program in South Dakota. For more information on the nursing workforce please refer to:

- South Dakota Center for Nursing Workforce, South Dakota Nursing Workforce Supply and Employment Characteristics: 2011.
- South Dakota Board of Nursing, South Dakota Annual Report of Nursing Education Programs: 2010

Both reports can be found at: <http://doh.sd.gov/Boards/Nursing/RandP.aspx>

Occupational Therapists

Description: Occupational Therapists help patients regain their independence and good health through the use of toys, games, computers, work simulation, leisure activities, self-care tasks, and other methods. They are trained to work with people of all ages to learn or regain skills they need to live productive, independent lives.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of nine Occupational Therapists per year.

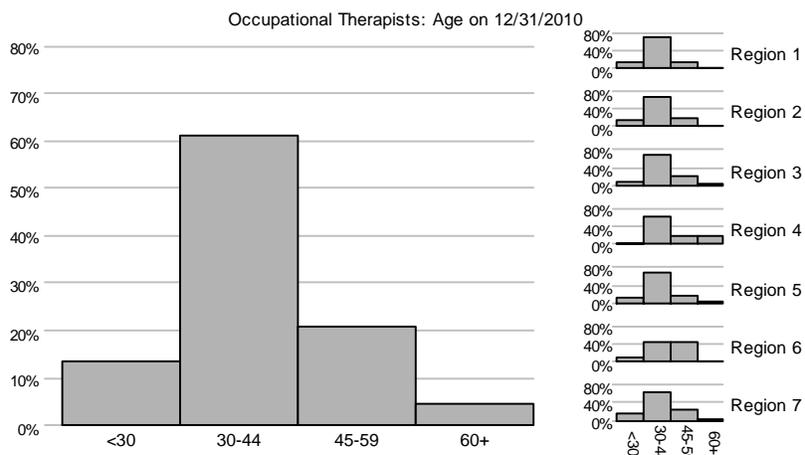
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Occupational Therapists	275	315	40	14.5%	9

Current Workforce Information: The statewide median age of Occupational Therapists is 38 years of age and 25.4% of occupational therapists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	43	38.6	7.2	39.0	16.3%	2.3%
2	115	38.8	8.1	39.0	20.0%	2.6%
3	25	40.0	9.8	38.0	24.0%	4.0%
4	15	43.9	11.1	43.0	40.0%	20.0%
5	30	39.4	9.3	37.0	20.0%	3.3%
6	9	40.4	10.4	38.0	44.4%	0%
7	54	39.0	9.0	38.0	24.1%	1.9%
Not SD*	114	40.6	11.4	38.0	33.3%	7.0%
Total	405	39.6	9.5	38.0	25.4%	4.4%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 19 graduates and during the 2009-2010 academic year there were 18 graduates reported from the Occupational Therapy program in South Dakota.

Occupational Therapy Assistants

Description: Occupational Therapy Assistants treat the patient through exercises, provide skill practice with artificial limbs, provide therapeutic activities and perform many other activities. They carry out treatment plans as directed by the Occupational Therapist.

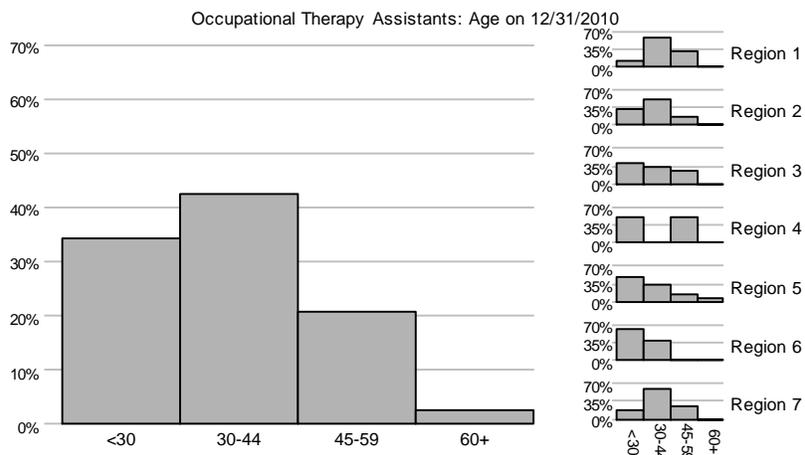
Demand: The South Dakota Department of Labor data does not include projections specific to Occupational Therapy Assistants.

Current Workforce Information: The statewide median age of Occupational Therapist Assistants is 34 years of age and 23.4% of Occupational Therapist Assistants are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	16	39.3	10.3	38.5	31.2%	0%
2	16	35.7	8.6	37.5	18.8%	0%
3	20	34.9	11.6	31.0	25.0%	0%
4	2	35.0	17.0	35.0	50.0%	0%
5	16	35.8	14.0	30.0	18.8%	6.2%
6	5	28.4	2.4	27.0	0%	0%
7	12	39.5	9.9	39.0	25.0%	0%
Not SD*	24	37.1	13.2	33.0	25.0%	8.3%
Total	111	36.4	11.4	34.0	23.4%	2.7%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were ten graduates reported from the Occupational Therapy Assistants program in South Dakota.

Optometrists

Description: Optometrists examine the eyes to diagnose vision problems and eye diseases. They test the patient's visual acuity; depth and color perception; ability to focus and coordinate the eyes. They analyze test results and develop treatment plans. Optometrists prescribe eyeglasses and contact lenses.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of nine new Optometrists per year.

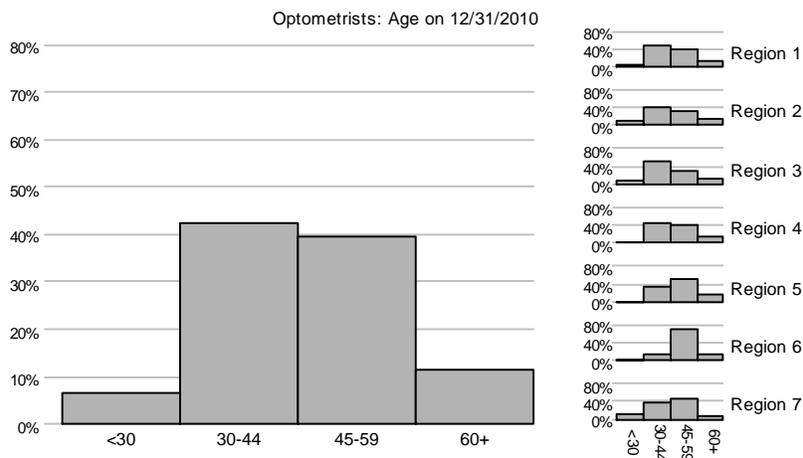
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Optometrists	225	235	10	4.4%	9

Current Workforce Information: The statewide median age of Optometrists is 45 years of age and 51.0% of Optometrists are age 45 or older. The percent of Optometrists age 45 and older is greater than or equal to 50% in five out of the seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	26	44.9	10.2	45.0	50.0%	11.5%
2	54	44.7	12.4	44.0	48.1%	14.8%
3	26	44.0	13.0	39.5	42.3%	11.5%
4	15	46.7	10.8	46.0	53.3%	13.3%
5	12	50.6	13.1	48.5	66.7%	16.7%
6	7	52.6	10.2	54.0	85.7%	14.3%
7	34	45.0	11.8	45.5	52.9%	5.9%
Not SD*	30	44.0	11.4	43.0	46.7%	6.7%
Total	204	45.3	11.8	45.0	51.0%	11.3%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: There are currently no Optometry programs in South Dakota.

Paramedics

Description: Paramedics use advanced life support to treat seriously ill or injured patients before the patient reaches the hospital. Paramedics are trained to recognize, assess, and manage medical and trauma emergencies of acutely ill patients and give immediate care to the patient.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 29 new EMTs and Paramedics per year.

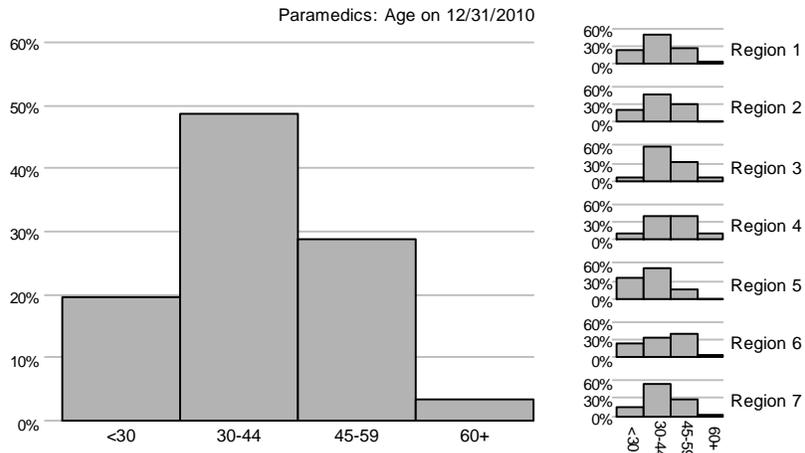
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Emergency Medical Technicians and Paramedics	815	940	125	15.3%	29

Current Workforce Information: The statewide median age of Paramedics is 40 years of age and 32.1% of Paramedics are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	31	39.3	11.0	39.0	29.0%	3.2%
2	99	39.2	9.2	40.0	31.3%	0%
3	43	42.4	10.0	41.0	37.2%	4.7%
4	28	43.4	11.5	44.0	50.0%	10.7%
5	45	35.7	9.0	35.0	15.6%	0%
6	21	41.4	11.2	41.0	42.9%	4.8%
7	69	39.6	9.2	39.0	30.4%	1.4%
Not SD*	54	40.6	12.1	39.5	33.3%	9.3%
Total	390	39.8	10.2	40.0	32.1%	3.3%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: Training for Paramedics is provided through hospital and community education programs located throughout the state.

Pharmacists

Description: Pharmacists distribute prescription drugs to individuals. They also advise patients and health practitioners on the selection, dosages, interaction and side effects of medications as well as monitor patients' health to ensure that they are using their medications safely and effectively. They may counsel hospitalized patients on the use of drugs. Some Pharmacists specialize in specific drug therapy areas, such as intravenous nutrition support, oncology (cancer), nuclear pharmacy (used for chemotherapy), geriatric pharmacy, and psychiatric pharmacy (the use of drugs to treat mental disorders).

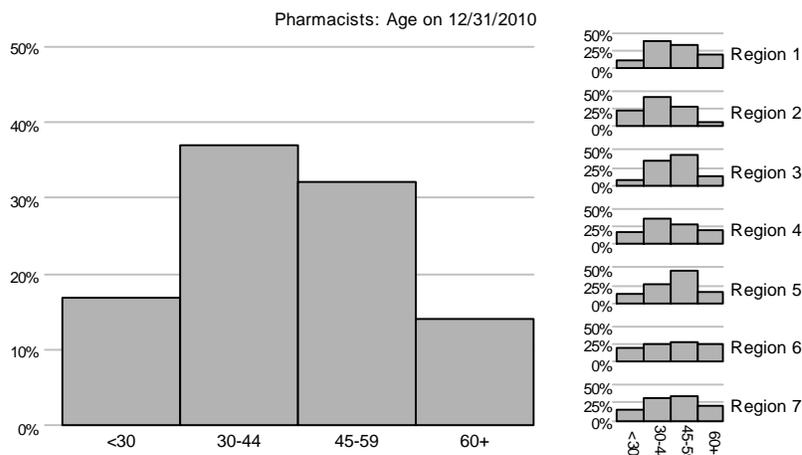
Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 45 new Pharmacists per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Pharmacists	1,100	1,315	215	19.5%	45

Current Workforce Information: The statewide median age of pharmacists is 42 years of age and 46.2% of Pharmacists are age 45 or older. The percent of Pharmacists age 45 or older is greater than 50% in five out of the seven regions of the state which could lead to greater need for Pharmacists in those regions of the state over the next ten years.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	133	47.1	14.4	46.0	52.6%	18.8%
2	421	40.5	11.8	38.0	34.9%	7.8%
3	115	47.3	12.2	48.0	56.5%	13.9%
4	59	44.1	13.2	43.0	47.5%	18.6%
5	71	47.6	13.2	48.0	60.6%	15.5%
6	46	46.6	15.1	45.0	54.3%	26.1%
7	142	46.7	13.4	47.0	54.9%	21.8%
Total	987	44.1	13.2	42.0	46.2%	14.1%



Supply: During the 2008-2009 academic year there were 60 graduates and during the 2009-2010 academic year, there were 70 graduates reported from the Pharmacy program in South Dakota.

Pharmacy Technicians

Description: Pharmacy Technicians work under the supervision of a licensed pharmacist and perform tasks related to the preparation and dispensing of prescription drugs and other pharmacy products.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 65 new Pharmacy Technicians per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Pharmacy Technicians	1,150	1,515	365	31.7%	65

Current Workforce Information: Demographic information on the current workforce is not currently available.

Supply: During the 2008-2009 academic year there were 49 graduates reported from Pharmacy Technician programs in South Dakota.

Physical Therapists

Description: Physical Therapists treat patients with exercise, light, heat, cold, water, electricity, ultrasound, and massage. Physical Therapists help improve a patient's strength and mobility, relieve pain, and take a personal and a direct approach to meeting an individual's health goals.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 19 Physical Therapists per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Physical Therapists	630	740	110	17.5%	19

Current Workforce Information: The statewide median age of Physical Therapists is 40 years of age and 32.6% of Physical Therapists are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number of Physical Therapists	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	94	38.7	9.0	37.0	22.3%	3.2%
2	193	41.4	9.7	40.0	35.2%	4.7%
3	60	37.6	7.2	37.0	16.7%	0%
4	35	42.4	9.3	41.0	40.0%	5.7%
5	52	38.3	8.0	38.0	19.2%	0%
6	22	41.1	7.9	38.0	31.8%	0%
7	96	42.3	10.2	42.0	40.6%	5.2%
Not SD*	260	42.1	11.3	41.0	36.9%	7.7%
Total	812	41.0	10.0	40.0	32.6%	4.8%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year there were 27 graduates and during the 2009-2010 academic year there were 26 graduates reported from the Physical Therapy program in South Dakota.

Physical Therapy Assistants

Description: Physical Therapy Assistants assist the Physical Therapist in implementing treatment programs for patients. Physical Therapy Assistants train patients in exercises and activities of daily living, conduct treatments, use special equipment, and other treatment procedures.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of ten Physical Therapy Assistants per year.

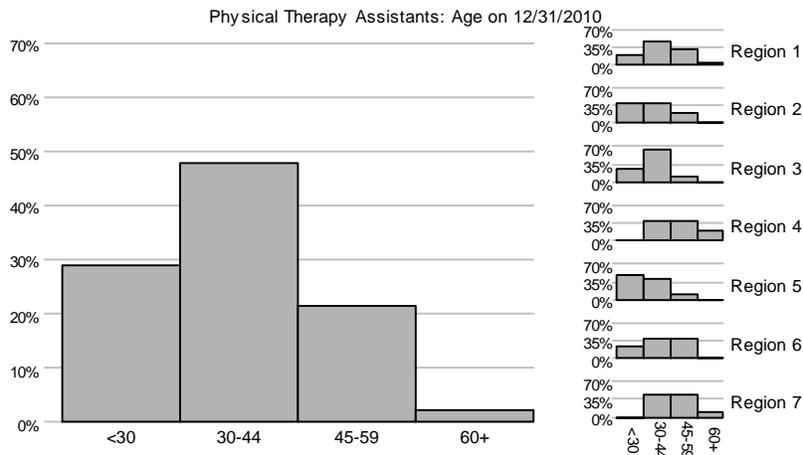
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Physical Therapist Assistants	250	305	55	22.0%	10

Current Workforce Information: The statewide median age of Physical Therapy Assistants is 33 years of age and 23.4% of Physical Therapy Assistants are age 45 or older.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	25	38.1	11.5	34.0	36.0%	4.0%
2	25	34.6	11.4	31.0	20.0%	0%
3	43	33.5	7.5	32.0	9.3%	0%
4	5	46.6	14.0	47.0	60.0%	20.0%
5	25	32.0	10.0	30.0	12.0%	0%
6	8	38.0	12.1	36.5	37.5%	0%
7	9	44.7	9.6	45.0	55.6%	11.1%
Not SD*	57	37.0	11.8	35.0	24.6%	1.8%
Total	197	36.1	10.9	33.0	23.4%	2.0%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 16 graduates reported from the Physical Therapy Assistant program in South Dakota.

Physicians

Description: Physicians diagnose and treat human illness, disease and injury. They perform analysis of patient histories, physical examinations, and interpretations of diagnostic tests. They help patients through life-threatening situations and severe illnesses. Physicians work as leaders and coordinators of the health care team, referring patients to appropriate resources for care.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 13 Family and General Practitioners and 11 Surgeons per year. See the table below for projections on other Physician/Medical specialties.

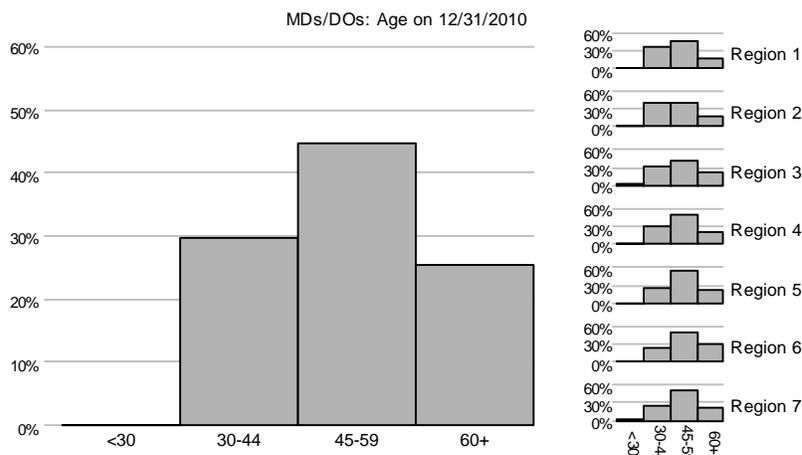
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Family and General Practitioners	420	475	55	13.1%	13
Surgeons	305	360	55	18.0%	11
Physicians and Surgeons, All Other	260	275	15	5.8%	7
Internists, General	180	210	30	16.7%	6
Anesthesiologists	145	160	15	10.3%	5
Obstetricians and Gynecologists	95	105	10	10.5%	3
Pediatricians, General	60	70	10	16.7%	2
Psychiatrists	55	55	0	0.0%	1

Current Workforce Information: The statewide median age of Physicians is 52 years of age and 70.2% of Physicians are age 45 or older. The percent of Physicians age 45 and older is greater than 50% in all seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	240	49.8	10.7	51.5	64.6%	17.9%
2	791	48.4	10.8	48.0	59.2%	17.7%
3	147	50.6	11.8	52.0	65.3%	23.1%
4	70	52.0	11.2	51.0	70.0%	20.0%
5	119	51.5	9.9	51.0	76.5%	22.7%
6	53	53.2	11.7	53.0	77.4%	28.3%
7	331	51.6	10.6	51.0	74.0%	22.7%
Not SD*	1521	54.3	12.1	54.0	75.7%	31.8%
Total	3272	51.9	11.7s	52.0	70.2%	25.4%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year there were 47 graduates and during the 2009-2010 academic year there were 46 medical graduates reported in South Dakota.

Physician Assistants

Description: Physician Assistants perform routine examinations, run diagnostic tests, provide rehabilitative and preventive health care, perform health screenings, manage therapy for chronic health problems, perform minor surgical procedures, assist with surgery and issue prescription orders and medications.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 20 new Physician Assistants per year.

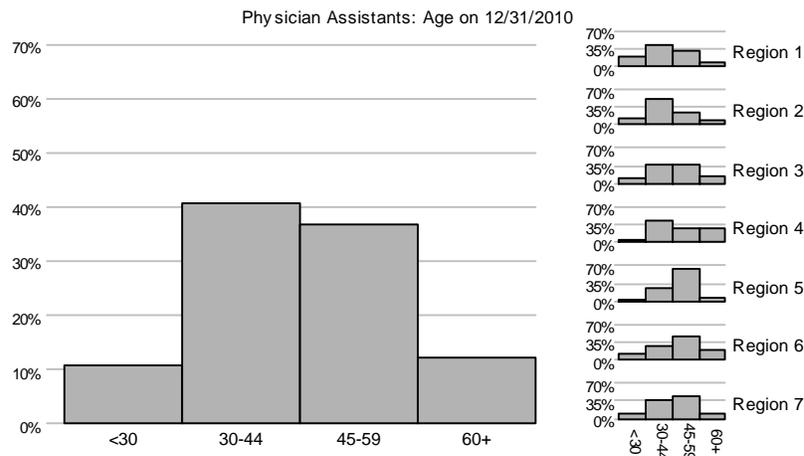
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Physician Assistants	435	555	120	27.6%	20

Current Workforce Information: The statewide median age of Physician Assistants is 44 years of age and 48.8% of Physician Assistants are age 45 or older. The percent of Physician Assistants age 45 and older is greater than 50% in five out of the seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	69	42.2	11.1	40.0	39.1%	7.2%
2	114	41.3	11.1	38.0	35.1%	8.8%
3	42	46.0	12.4	45.5	52.4%	14.3%
4	30	47.2	12.8	47.5	53.3%	26.7%
5	37	48.4	7.7	49.0	70.3%	8.1%
6	27	48.8	12.8	51.0	63.0%	18.5%
7	66	44.0	11.1	45.5	53.0%	9.1%
Not SD*	49	48.4	12.4	50.0	59.2%	18.4%
Total	434	44.6	11.7	44.0	48.8%	12.0%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year there were 20 graduates and during the 2009-2010 academic years there were 20 graduates reported from the Physician Assistant program in South Dakota.

Radiologic Technologists and Technicians

Description: Radiologic Technologists and Technicians perform diagnostic imaging examinations like x rays, computed tomography, magnetic resonance imaging, and mammography. Some Radiologic Technologists and Technicians, referred to as Radiographers, produce x-ray films (radiographs) of parts of the human body for use in diagnosing medical problems. They prepare patients for radiologic examinations by explaining the procedure, removing jewelry and other articles through which x-rays cannot pass, and positioning patients so that the parts of the body can be appropriately radiographed.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 28 new Radiologic Technologists and Technicians per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Radiologic Technologists and Technicians	995	1,130	135	13.6%	28

Current Workforce Information: Demographic information on the current workforce is not currently available.

Supply: Radiologic Technologists and Technicians training programs exist at institutions of higher education, technical training schools, and within healthcare systems across the state. Data on the number of program completers was inconsistent within the IPEDS data system and thus a total number of Radiologic Technologists and Technicians program completers was not available for the 2008-2009 academic year.

Registered Nurses (RNs)

Description: Registered Nurses record patients' medical history and symptoms, help perform diagnostic tests, and analyze the results. RNs treat and educate patients about various medical conditions. They operate medical machinery, administer treatment and medications, and help with patient follow-up and rehabilitation. Registered Nurses provide advice and emotional support to patient's family members.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 399 Registered Nurses per year.

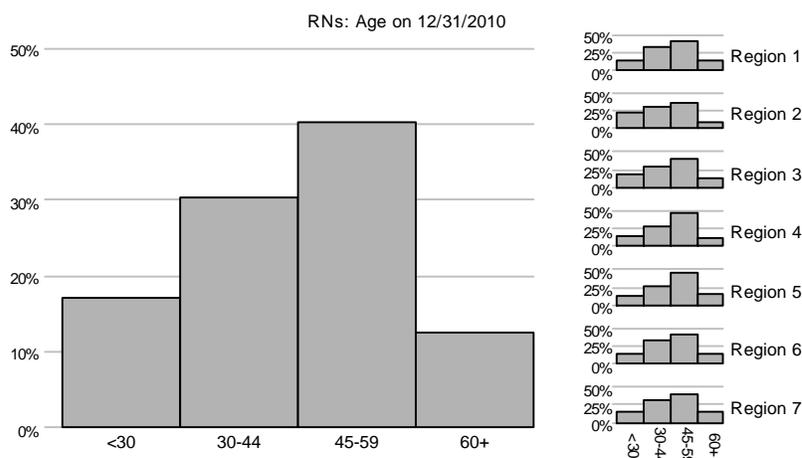
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Registered Nurses	10,490	12,650	2,160	20.6%	399

Current Workforce Information: The statewide median age of Registered Nurses is 46 years of age and 52.6% of Registered Nurses are age 45 or older. The percent of Registered Nurses age 45 and older is greater than 50% in six of seven regions of the state.

Current Workforce Distribution by Age and Geographic Region:

Region	Number of Registered Nurses	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	1,987	44.9	12.7	46.0	53.8%	12.4%
2	4,458	42.3	13.1	42.0	45.9%	10.0%
3	1,428	44.5	13.0	46.0	53.3%	12.4%
4	786	46.4	12.4	48.0	59.8%	12.3%
5	1,017	45.5	12.9	48.0	59.7%	15.0%
6	591	45.8	12.5	46.0	54.1%	14.4%
7	1,955	45.8	12.9	47.0	55.0%	15.5%
Not SD*	1,375	45.8	12.1	47.0	58.1%	12.8%
Total	13,597	44.5	12.9	46.0	52.6%	12.4%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year, there were 271 graduates reported from associate degree programs and 246 graduates from bachelor nursing programs at state universities. Non-public institutions reported 226 graduates from nursing programs in the 2008-2009 academic year in South Dakota (See Table 3). For more information on the nursing workforce please refer to:

- South Dakota Center for Nursing Workforce, South Dakota Nursing Workforce Supply and Employment Characteristics: 2011
- South Dakota Board of Nursing, South Dakota Annual Report of Nursing Education Programs: 2010

Both reports can be found at: <http://doh.sd.gov/Boards/Nursing/RandP.aspx>

Respiratory Therapists

Description: Respiratory Therapists evaluate, treat and care for patients, especially those with asthma, COPD or heart failure, with breathing or other cardiopulmonary disorders. Respiratory Therapists assume primary responsibility for all respiratory care, therapeutic treatments, and diagnostic procedures.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of 11 Respiratory Therapists per year.

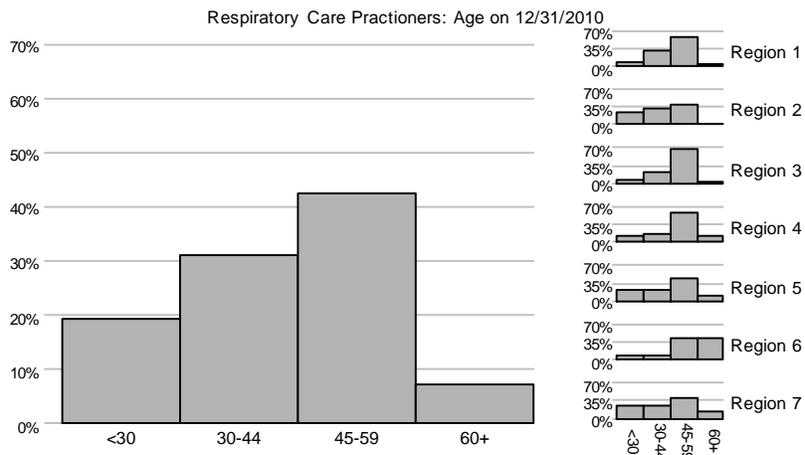
Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Respiratory Therapists	270	335	65	24.1%	11

Current Workforce Information: The statewide median age of Respiratory Therapists is 44 years of age and 49.7% of Respiratory Therapists are age 45 or older. In six of seven regions greater than 50% of respiratory therapists are over the age of 45.

Current Workforce Distribution by Age and Geographic Region:

Region	Number of Respiratory Therapists	Mean/Average Age	Standard Deviation	Median	Percent Age 45 and older	Percent Age 60 and older
1	34	46.6	10.3	48.5	61.8%	2.9%
2	195	40.9	12.0	42.0	43.1%	3.6%
3	28	47.2	9.8	49.0	71.4%	3.6%
4	17	48.2	12.2	49.0	70.6%	11.8%
5	28	44.0	14.1	46.0	57.1%	10.7%
6	12	53.5	12.9	54.0	83.3%	41.7%
7	60	4.9	13.7	45.5	51.7%	11.7%
Not SD*	105	41.8	12.0	40.0	41.9%	7.6%
Total	479	43.0	12.4	44.0	49.7%	7.1%

*Licensure/certification data included individuals with addresses not located in South Dakota.



Supply: During the 2008-2009 academic year there were 23 graduates and during the 2009-2010 academic year there were 17 graduates reported from Respiratory Therapy programs in South Dakota.

Speech-Language Pathologists

Description: Speech-Language Pathologists may assess and treat persons with speech, language, voice, and fluency disorders. They may select alternative communication systems and teach their use. They may also perform research related to speech and language problems.

Demand: Between 2008 and 2018, the South Dakota Department of Labor projects that South Dakota will need an average of eight Speech-Language Pathologists per year.

Occupational Title	2008 Base Number of Jobs	2018 Projected Number of Jobs	Actual Change	Percent Change	Average Annual Demand for Workers
Speech-Language Pathologists	270	295	25	9.3%	8

Current Workforce Information: Information on the current speech-language pathologist workforce was not available at time of report completion.

Supply: During the 2008-2009 academic year there were 15 graduates and during the 2009-2010 academic year there were 19 graduates reported from speech-language pathology programs in South Dakota.