

## Physicians

The health and well-being of Wyoming's population is dependent upon an adequate supply of physicians. This section provides a detailed analysis of the number, distribution, and selected characteristics of physicians currently practicing in Wyoming.

### Verification Data

#### Overview<sup>10</sup>

In 2007, 2,536 non-federal<sup>11</sup> physicians are licensed to practice medicine in Wyoming, according to the Wyoming Board of Medicine.<sup>12</sup> A list of these active licensees was used to conduct a Physician Workforce Survey, which gathered data on currently practicing physicians through various methods including paper survey, phone verification, and website searches. This approach resulted in a 99% *verification* rate of physicians currently practicing in Wyoming. While this process was ideal for obtaining basic practice information, it did not produce *complete* survey data on all physicians identified. **Therefore, the first part of this section presents overall data gathered through the full verification process (N=996), while the remainder of the section presents data collected only from returned surveys (N=693).**

As shown in Figure 8, 996 (39%) of Wyoming's 2,536 actively licensed physicians are currently practicing in Wyoming. These 996 represent 194 physicians per 100,000 population, only 69% of the national average (see Figure 9).<sup>13</sup>

Figure 8: Active Wyoming Physicians

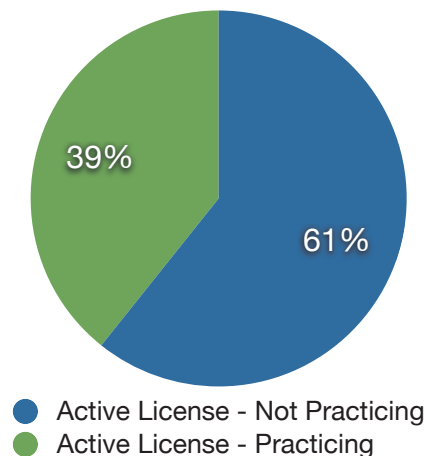
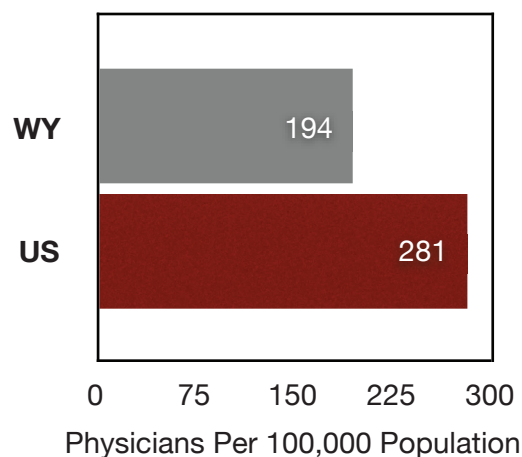


Figure 9: Physician to Population Ratio



<sup>10</sup> The Physician Overview section relies upon all collected data, including returned paper surveys, phone calls and other collection means.

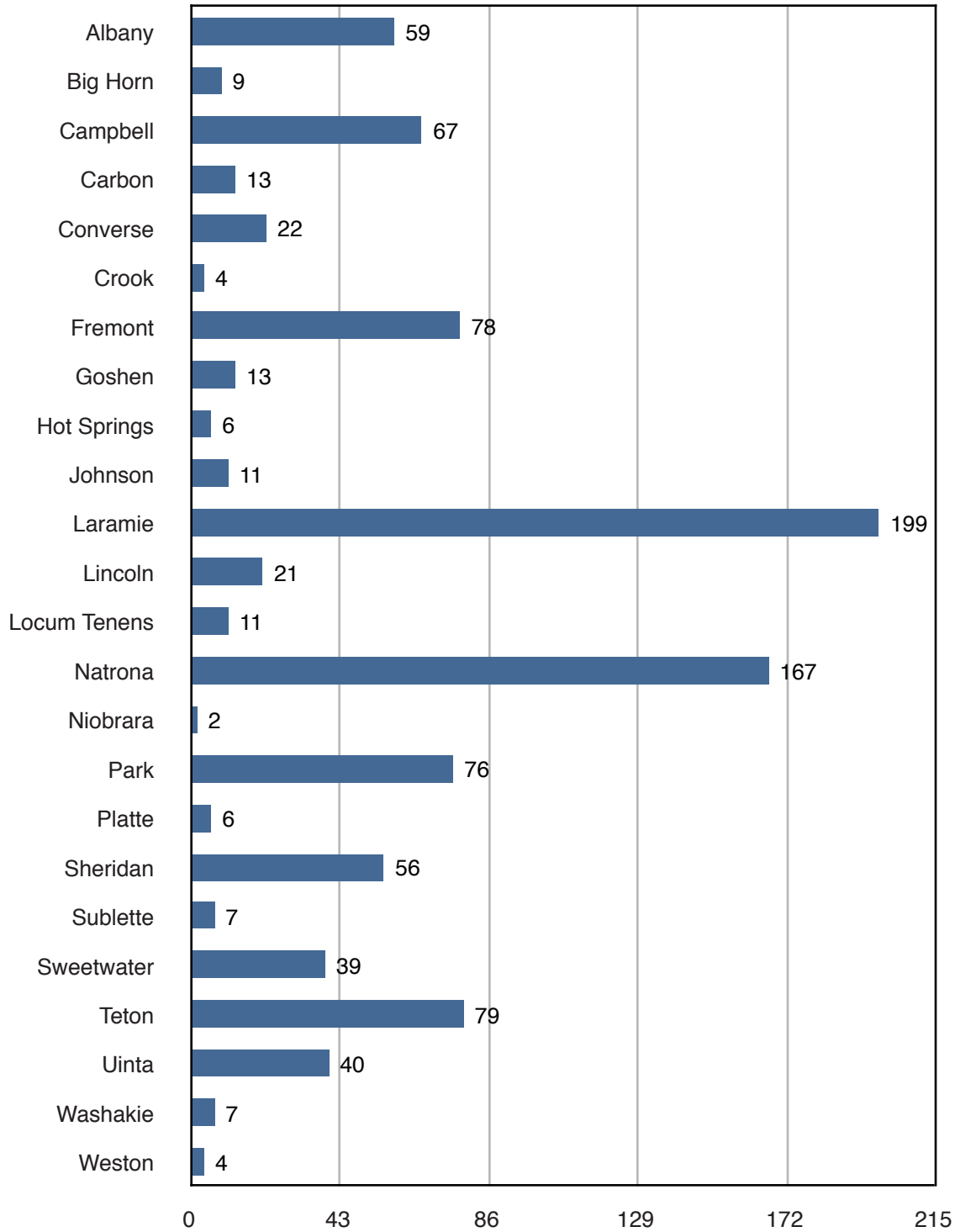
<sup>11</sup> There are currently 33 physicians who work solely in a federal facility in Wyoming--e.g. the Cheyenne VA Medical Center.

<sup>12</sup> Thirty-three physicians currently work solely in a federal facility. These physicians were excluded from the analysis so as to make the statistics comparable to national statistics.

<sup>13</sup> Data on non-federal physicians per 100,000 civilian population obtained from the Kaiser Family Foundation at <http://www.kff.org/insurance/7031/ti2004-5-8.cfm> on November 19, 2007. All Wyoming population data retrieved from the US Census Bureau at <http://quickfacts.census.gov/qfd/states/56000.html> on November 19, 2007.

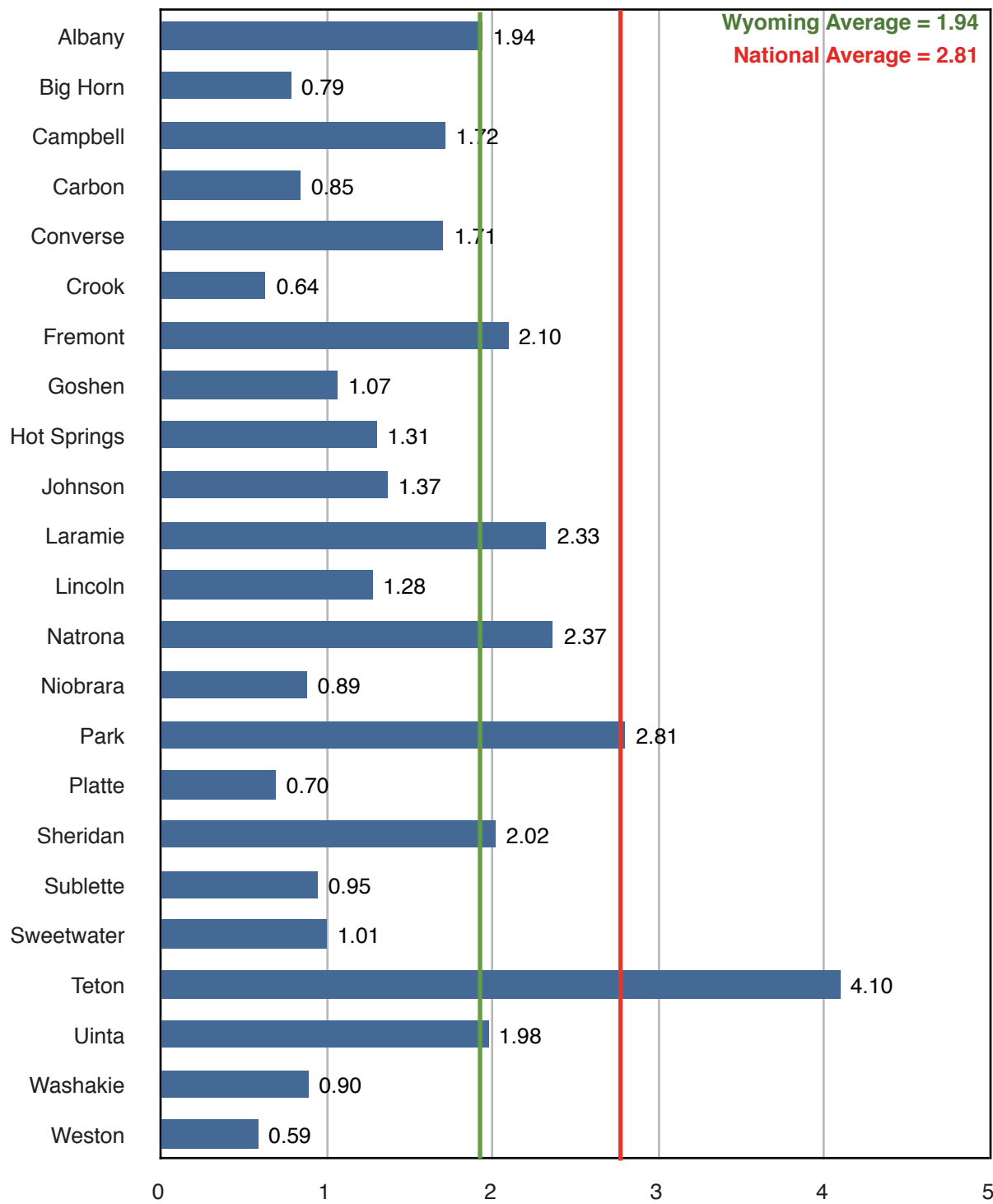
Figure 10 indicates the total number of physicians verified as practicing in each of Wyoming’s 23 counties, including the number of Locum Tenens working within the state. Laramie County has the most practicing physicians in the state (20% of the state total), while Niobrara County has the fewest (0.2% of the state total). Combined, Laramie and Natrona Counties employ 37% of Wyoming’s total physician workforce.

**Figure 10: Total Verified Practicing Physicians by County N=996**



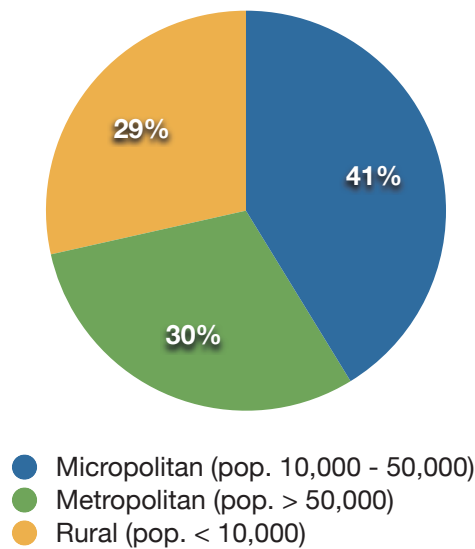
The shortage of physicians in Wyoming is partially a distributional problem. Figure 11 shows the number of verified physicians per 1,000 population in each of Wyoming's 23 counties. Although Wyoming has an average of 1.94 physicians per 1,000 inhabitants, it is clear that these physicians are not distributed proportionally across the state. Teton, Natrona, Sheridan, Park, and Laramie Counties maintain the highest physician to population ratios, with Teton County's ratio over twice the state average.

**Figure 11: Total Verified Physicians Per 1,000 County Population N=996**

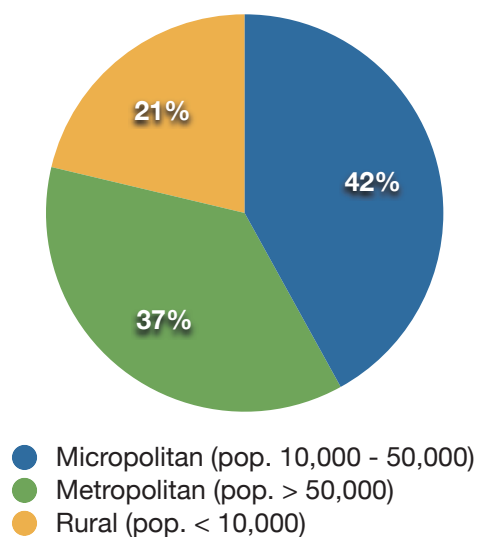


Wyoming is a frontier state, where an estimated 515,004 people live in 97,100 square miles (5.3 persons per square mile). The United States Census Bureau has designated Laramie and Natrona Counties as Metropolitan Statistical Areas and Albany, Campbell, Fremont, Sheridan, Sweetwater, Teton, and Unita Counties as Micropolitan Statistical Areas. A Metropolitan area contains a core urban area population greater than 50,000, and a Micropolitan Statistical Area contains a core urban area population between 10,000 and 50,000. All other Wyoming counties are designated as rural. Rural refers to any area containing a population of less than 10,000. Figures 12 and 13 break down Wyoming's population by Census designation and illustrate the geographic distribution of physicians in the state based upon the same criteria.<sup>14</sup> Figure 14 displays the geographic distribution of physicians in Wyoming topographically.

**Figure 12: Wyoming Population Distribution**

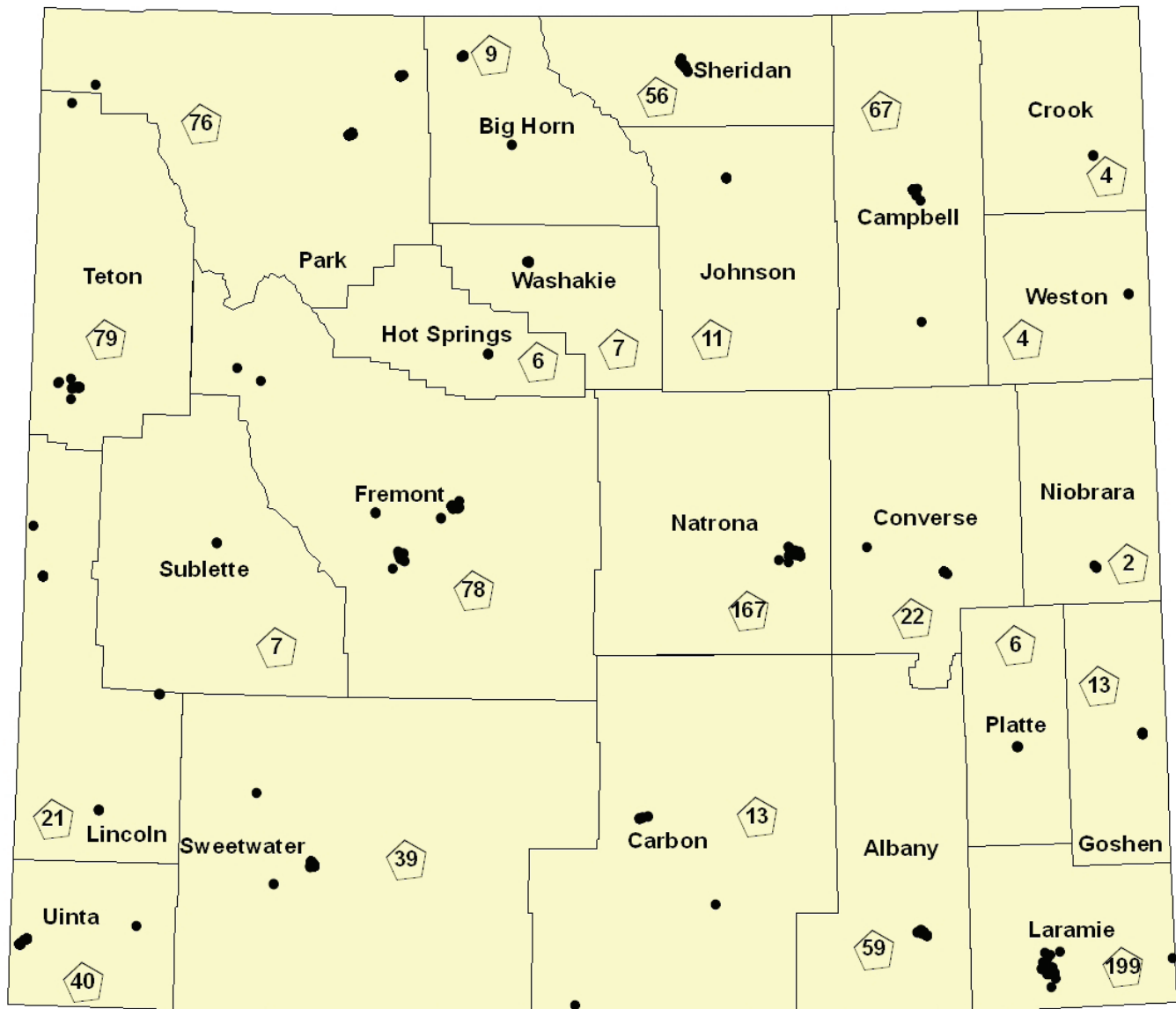


**Figure 13: Wyoming Physician Distribution N=996**



<sup>14</sup> US Census Bureau designations retrieved November 21, 2007 from [http://www.census.gov/population/www/estimates/metro\\_general/2006/List1.txt](http://www.census.gov/population/www/estimates/metro_general/2006/List1.txt).

Figure 14: Wyoming Physician Distribution Map N=996<sup>15</sup>



<sup>15</sup> **Note:** Points on the map indicate physician locations and shape surrounding numbers surrounded by pentagon indicate total number of physicians in the county.

## Survey Response Data

The remainder of the physician section reports data collected from returned Physician Workforce surveys, as well as supplemental data from sources such as the Kaiser Family Foundation, the US Census Bureau and the American Board of Medical Specialties.

### Work Status

Overall, 65% of Wyoming licensed and actively practicing physicians responded to the Physician Workforce Survey. As shown in Figure 15, the majority of those physicians (71%) work forty hours or more per week. However, nearly one fifth of Wyoming's physicians practice twenty-nine hours or less per week.

Figure 15: Physician Work Status N=693

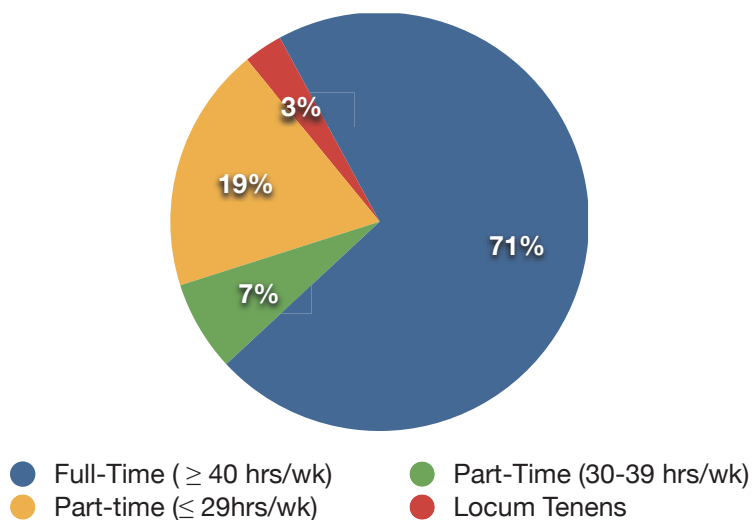


Figure 16 displays the percentage of physicians working full-time ( $\geq 40$  hrs/wk), part-time (30-39 hrs/wk), part-time ( $\leq 29$  hrs/wk), and as Locum Tenens in each of Wyoming's 23 counties. At least half of each county's physicians work full-time, except in Goshen County (30%) and Teton County (40%). In eleven counties, at least three-quarters of physicians work full-time. One full-time physician responded to the survey in Niobrara County, which explains the county's one-hundred percent full-time status.

**Figure 16: Physician Work Status by County N=693**

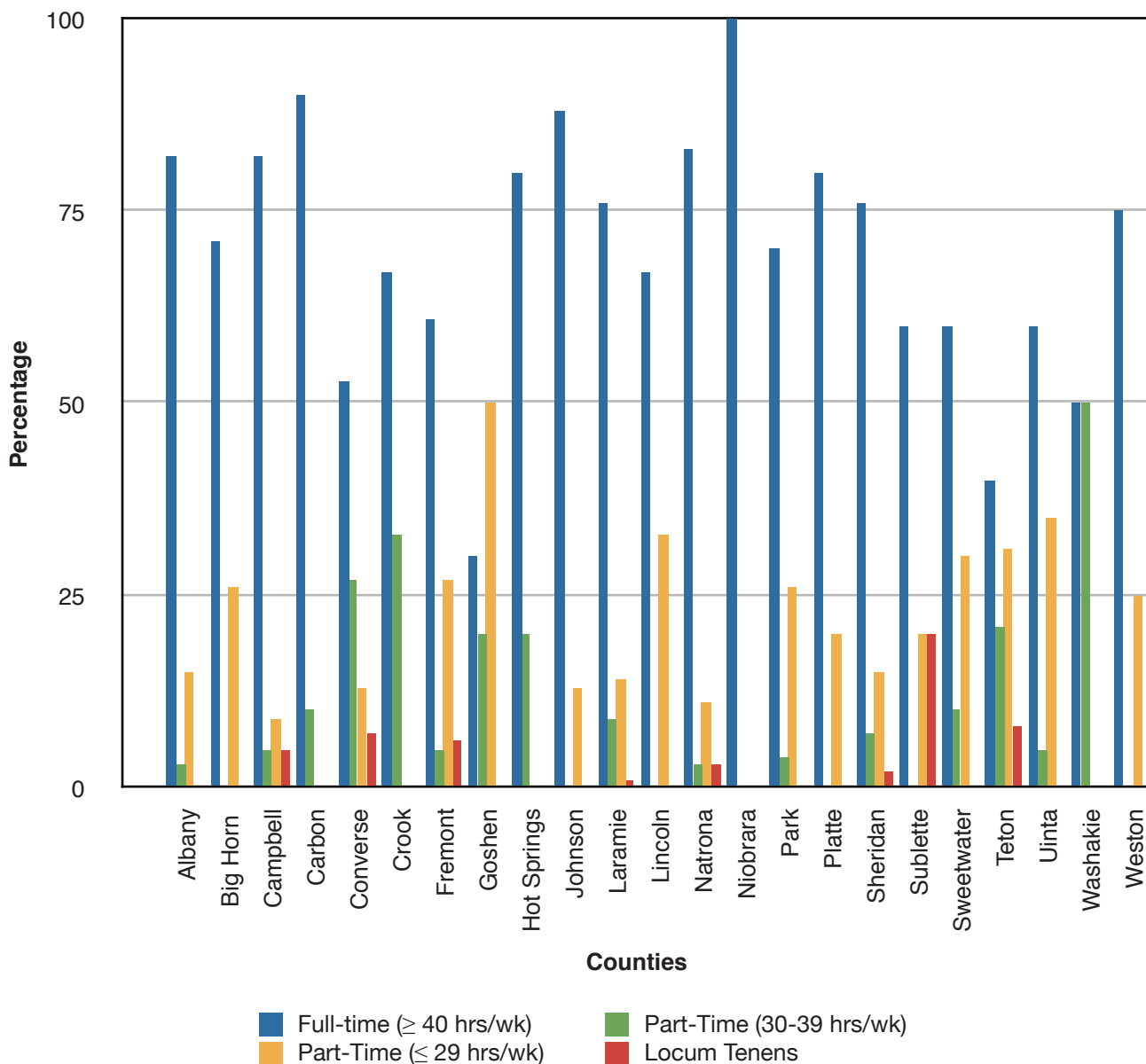


Table 6 provides a detailed analysis by county of the actual number of physicians who responded to the survey, including a breakdown of physician work status by total number of respondents and percentage of county total. Overall, 71% of physicians reported working at least forty hours per week, while 31% of Teton County, 26% of Park County and 27% of Fremont County physicians reported working twenty-nine hours or less per week.

**Table 6: Physician Work Status by County N=693**

County	Full-Time ( $\geq$ 40 hrs/wk)	Part-Time (30-39 hrs/wk)	Part-Time ( $\leq$ 29 hrs/wk)	Locum Tenens	Percentage of Verified Physicians	Total Number of Providers
Albany	28 (82%)	1 (3%)	5 (15%)		57.6%	34
Big Horn	5 (71%)		2 (26%)		77.8%	7
Campbell	36 (82%)	2 (5%)	4 (9%)	2 (5%)	65.7%	44
Carbon	9 (90%)	1 (10%)			77%	10
Converse	8 (53%)	4 (27%)	2 (26%)	1 (7%)	68.2%	15
Crook	2 (67%)	1 (33%)			75%	3
Fremont	38 (61%)	3 (5%)	17 (27%)	4 (6%)	79.5%	62
Goshen	3 (30%)	2 (20%)	5 (50%)		77%	10
Hot Springs	4 (80%)	1 (20%)			83.3%	5
Johnson	7 (88%)		1 (13%)		72.7%	8
Laramie	105 (76%)	12 (9%)	20 (14%)	2 (1%)	69.80%	139
Lincoln	10 (67%)		5 (33%)		71.40%	15
Locum Tenens				11 (100%)	100%	11
Natrona	98 (83%)	3 (3%)	13 (11%)	4 (3%)	70.70%	118
Niobrara	1 (100%)				50%	1
Park	40 (70%)	2 (4%)	15 (26%)		75%	57
Platte	4 (80%)		1 (20%)		83.30%	5
Sheridan	35 (76%)	3 (7%)	7 (15%)	1 (2%)	82.10%	46
Sublette	3 (60%)		1 (20%)	1 (20%)	71.40%	5
Sweetwater	12 (60%)	2 (10%)	6 (30%)		51.30%	20
Teton	19 (40%)	10 (21%)	15 (31%)	4 (8%)	60.80%	48
Uinta	12 (60%)	1 (5%)	7 (35%)		50%	20
Washakie	3 (50%)	3 (50%)			85.70%	6
Weston	3 (75%)		1 (25%)		100%	4
Wyoming	485 (71%)	51 (7%)	127 (19%)	29 (4%)		693

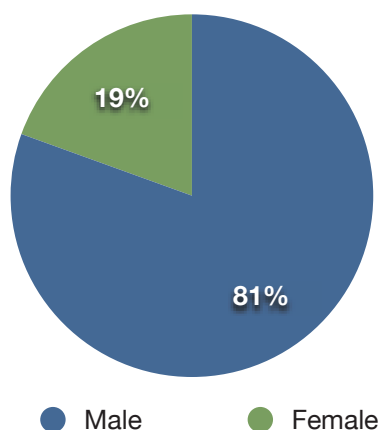


## Demographics

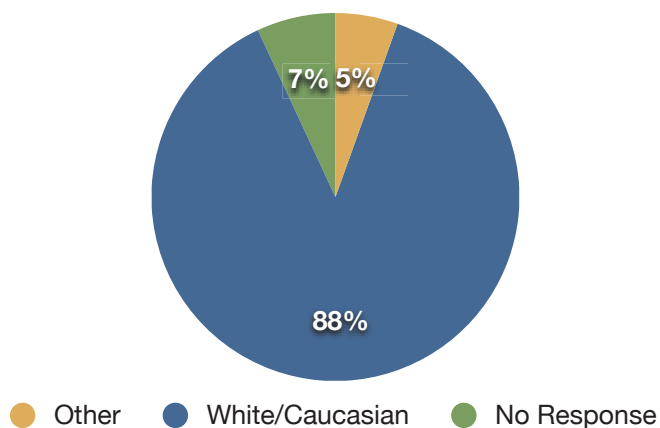
As seen in Figure 17, slightly less than one-fifth (19%) of Wyoming physicians are female, which is lower than the national average (28%).<sup>16</sup> The largest percentages of female physicians in Wyoming practice in Family Medicine (28%), Pediatrics (14%), and Internal Medicine (14%). The largest percentages of male physicians practice in Family Medicine (22%), Internal Medicine (8%), and Orthopedic Surgery (8%) (see Table 10 for breakdown of physician specialties by gender).

Figure 18 shows that the vast majority of Wyoming physicians (88%) report their ethnicity as White/Caucasian, much higher than the national average (45%).<sup>17</sup> The second highest response to the question regarding ethnicity was No Response (7%), followed by all other ethnicities (5%).

**Figures 17: Physician Gender N=693**



**Figure 18: Physician Ethnicity N=693**



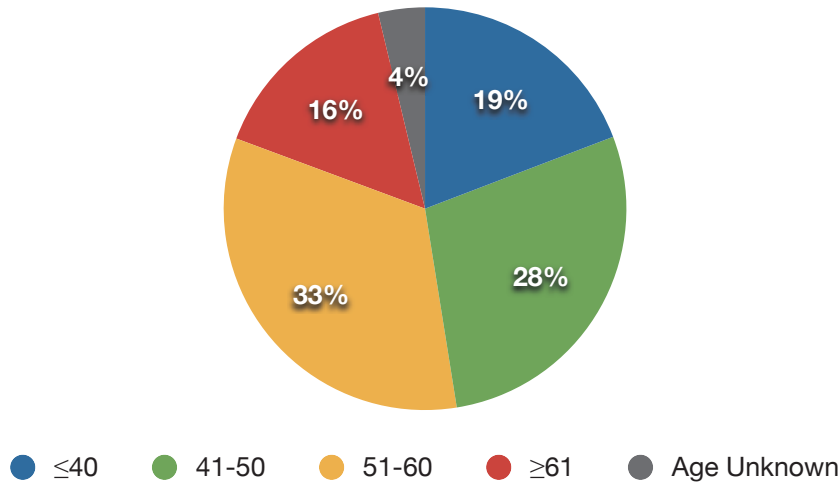
<sup>16</sup> National data on physician gender retrieved November 19, 2007 from the Kaiser Family Foundation at <http://www.statehealthfacts.org/comparebar.jsp?ind=430&cat=8>.

<sup>17</sup> National data on physician ethnicity retrieved November 19, 2007 from the Kaiser Family Foundation at <http://www.statehealthfacts.org/comparebar.jsp?ind=431&cat=8>.

Figure 19 breaks down Wyoming physicians by age. Nearly one half (49%) of physicians currently practicing in Wyoming are 51 years of age or older. There are slightly fewer physicians age 61 or older (16%) practicing in Wyoming than those aged 40 or younger (19%). The largest age group currently practicing in the state are those between the ages of 51 and 60 (33%).

The median age of female physicians is 43 years, compared with 52 years for male physicians: 38% percent of physicians 40 years of age or younger reported being female, while females represent only 15% of all physicians over the age of 40. These numbers underscore the growing number of women entering the field of medicine.

**Figure 19: Physician Age N=693**



As shown in Figure 20, over one-fifth of physicians (22%) age 51-60 reported working twenty-nine hours or less per week. Physicians 51-60 years of age represent 33.2% of all respondents, followed by physicians forty-one to fifty years old (28.3%), less than forty (19.2%), over sixty (15.6%), and age unknown (3.8%).

**Figure 20: Physician Age by Work Status N=693**

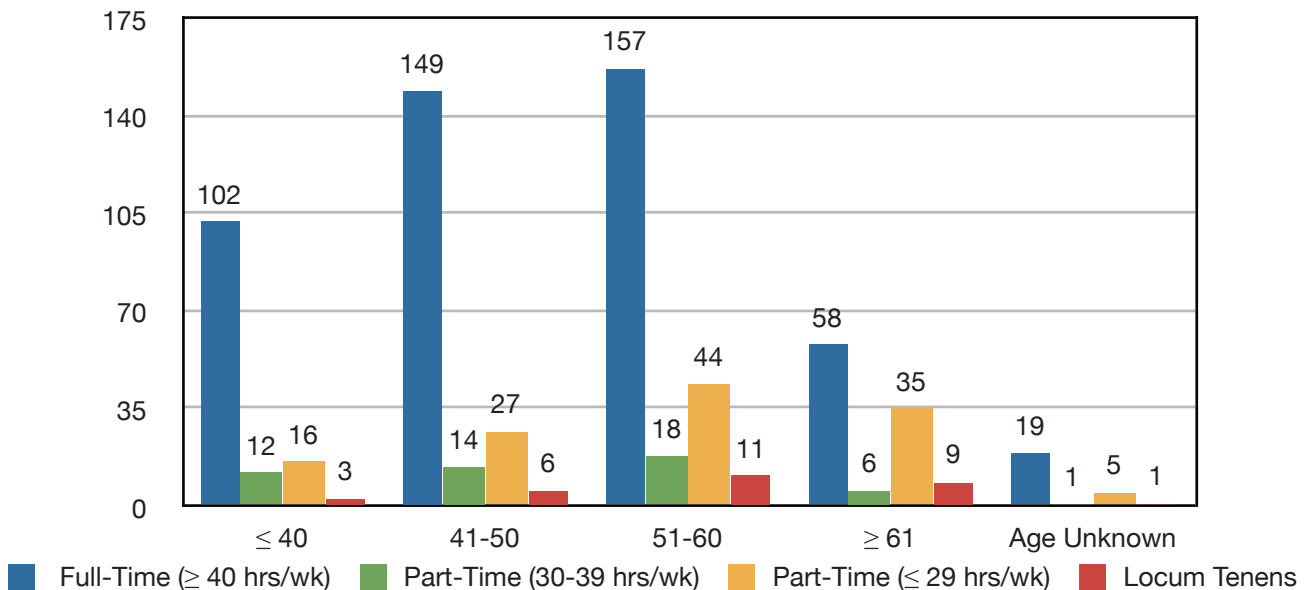


Table 7 breaks physician respondents down by age and gender and illustrates the increase in females entering the field of medicine: 37% of physicians forty years of age or younger are female compared to 12% age sixty-one years or older.

**Table 7: Physician Age and Gender Breakdown N=693**

Age Group	Female	Male	Total
≤ 40	50 (37.6%)	83 (62.4%)	133 (19.2%)
41-50	43 (21.9%)	153 (78.1%)	196 (28.3%)
51-60	32 (13.9%)	198 (86.1%)	230 (33.2%)
≥ 61	7 (6.5%)	101 (93.5%)	108 (15.6%)
age unknown	3 (11.5%)	23 (88.5%)	26 (3.8%)
<b>Total</b>	<b>135 (19.5%)</b>	<b>558 (80.5%)</b>	<b>693</b>

### Specialties<sup>18</sup>

Table 8 displays the specialties of physician respondents. The top five self-reported specialties in Wyoming are Family Medicine (23%), Internal Medicine (9%), Orthopedic Surgery (7%), Emergency Medicine (6%), and Pediatrics (6%). Table 9 displays self-reported physician specialties by county, including those of Locum Tenens.

**Table 8: Self-Reported Physician Specialties N=693**

Specialty	Number	Specialty	Number
Family Medicine	161	Hematology/Oncology	4
Internal Medicine	65	Plastic Surgery	4
Orthopedic Surgery	49	Radiation Oncology	4
Emergency Medicine	45	Medical Management	3
Pediatrics	41	Occupational Medicine	3
Anesthesiology	36	Allergy	2
Obstetrics and Gynecology	35	Child/Adolescent Psychiatry	2
Radiology	32	Endo/Meta/Diabetes	2
General Surgery	25	Infectious Diseases	2
Psychiatry	25	Medical Oncology	2
Cardiovascular Diseases	19	Physical Med and Rehab	2
Ophthalmology	18	Urology	2
Otolaryngology	15	Addiction Medicine	1
Anatomic/Clinical Pathology	14	Diagnostic Radiology	1
Neurological Surgery	12	Forensic Pathology	1
Dermatology	11	Hospitalist	1
Urological Surgery	9	Internal Medicine-Pediatrics	1
Nephrology	8	Interventional Cardiology	1
Neurology	6	Pathology	1
Pulmonary Diseases	6	Pediatric Endocrinology	1
Gastroenterology	5	Prev Med/Pub Heal/Gen Prev	1
General Practice	5	Pulmonary Critical Care Med	1
Cardiothoracic Surgery	4	Rheumatology	1
Gynecology	4	<b>Total</b>	<b>693</b>

<sup>18</sup> **Note:** Formal training and or certification for **self-reported** specialty designation has not been verified.

Table 9: Self-Reported Physician Specialty by County N=693

Specialty	Total	Albany	Big Horn	Campbell	Carbon	Converse	Crook	Fremont	Goshen	Hot Springs	Johnson	Laramie	Lincoln	Natrona	Niobrara	Park	Platte	Sheridan	Sublette	Sweetwater	Teton	Uinta	Washakie	Weston	Locums
Addiction Medicine	1																								
Allergy	2	1																							
Anatomic/Clinical Pathology	14	1	1					2				3		3		1	2				1				
Anesthesiology	36	1	3					3				8	7	7	2	2	4			2	4				2
Cardiothoracic Surgery	4											2		2											
Cardiovascular Diseases	19	1	2									3	2	5	1	1					3	1			
Child/Adolescent Psychiatry	2							1				3		1							1				
Dermatology	11	1										1		2		2					1	1			
Diagnostic Radiology	1											1													
Emergency Medicine	45	3	4	2	2		4	4			5	1	2	2		5	1	3		5	5	2		1	
Endo/Meta/Diabetes	2							1				1													
Family Medicine	161	2	3	8	4	3	3	19	6	4	6	28	6	26	16	2	8	5			3	2	3	3	1
Forensic Pathology	1																								
Gastroenterology	5											1		4											
General Practice	5		1									1	1	1	1										
General Surgery	25	1	1	2	1	2	2	2		1	1	3		3	2	2	1		2	2	1	1	1	1	
Gynecology	4		1					1				2													
Hematology/Oncology	4	1									1	1									1				
Hospitalist	1																								
Infectious Diseases	2											1		1											
Internal Medicine	65	5	3	1	1	1	5	1			16	9		9	6	10			1	1	6	1			
Internal Medicine-Pediatrics	1					1																			
Interventional Cardiology	1													1											
Medical Management	3					1		1						1											
Medical Oncology	2		1													1									
Nephrology	8		1					1			2		1	2	2	1									
Neurological Surgery	12										5		5	1	1	1									
Neurology	6							1			2		2	2	2	1									
Obstetrics and Gynecology	35	2	3				5				5		6	6	3	1	2		1	1	5	1		1	
Occupational Medicine	3													2						1					
Ophthalmology	18	1	1	1	1	1	1	1			5		2	2		2	2				1	1			
Orthopedic Surgery	49	4	5	1	2	3	3	1		1	5	1	6	6	4	4	4		2	2	8	1	2		
Otolaryngology	15	2	2					1			4	2	1			1									
Pathology	1											1													
Pediatric Endocrinology	1											1													
Pediatrics	41	5	3				6				9		7	7	2	2	2		1	1	4	1		1	
Physical Med and Rehab	2	1												1						1	1				
Plastic Surgery	4										1		1	1						1	1				
Prev Med/Pub Heal/Gen Prev	1																								
Psychiatry	25	1	1	1	1	1	2				8		3	3					1	1	6			1	
Pulmonary Critical Care Med	1										1														
Pulmonary Diseases	6										1	1	2	1	2	1					1				
Radiation Oncology	4		1								1		1	1		1									
Radiology	32		4		1	4		4			6	1	5	1	5	1	2		2	2	3	1		2	
Rheumatology	1										1														
Urological Surgery	9	1						1			1		3	1	1	1				1					
Urology	2											1													

Table 10 displays the total number of Board Certifications held by Wyoming physicians. Please note that one physician may hold multiple certifications.

**Table 10: Total Number of Board Certifications in Wyoming<sup>19</sup>**

American Board of	General Certificates	Number
<b>Allergy and Immunology</b>		3
<b>Anesthesiology</b>		58
<b>Colon and Rectal Surgery</b>		2
<b>Dermatology</b>		6
<b>Emergency Medicine</b>		43
<b>Family Medicine</b>		206
<b>Internal Medicine</b>		137
<b>Medical Genetics</b>		0
<b>Neurological Surgery</b>		8
<b>Nuclear Medicine</b>		5
<b>Obstetrics and Gynecology</b>		59
<b>Ophthalmology</b>		23
<b>Orthopaedic Surgery</b>		56
<b>Otolaryngology</b>		15
<b>Pathology -- total</b>		38
	<i>Anatomic Pathology</i>	7
	<i>Anatomic Pathology and Clinical Pathology</i>	29
	<i>Clinical Pathology</i>	2
<b>Pediatrics</b>		60
<b>Physical Medicine and Rehabilitation</b>		4
<b>Plastic Surgery</b>		6
<b>Preventive Medicine -- total</b>		4
	<i>Aerospace Medicine</i>	2
	<i>Occupational Medicine</i>	1
	<i>Public Health and General Preventive Medicine</i>	1
<b>Psychiatry and Neurology -- total</b>		42
	<i>Child Neurology</i>	1
	<i>Neurology</i>	12
	<i>Psychiatry</i>	29
<b>Radiology -- total</b>		59
	<i>Diagnostic Radiology</i>	54
	<i>Radiation Oncology</i>	1
	<i>Radiologic Physicians</i>	4
<b>Surgery -- total</b>		63
	<i>Surgery</i>	61
	<i>Vascular Surgery</i>	2
<b>Thoracic Surgery</b>		6
<b>Urology</b>		17
<b>Grand Total</b>		<b>920</b>

<sup>19</sup> Source: American Board of Medical Specialties. "ABMS 2007 Certificate Statistics." Totals reflect the number of certificates issued and not the number of individuals because a physician may be certified in multiple locations. The Board of Radiology has issued certificates which are no longer active and those have been grouped within the presently active certificates.

Table 11 displays the total number of Board Subspecialty Certifications held by Wyoming physicians. Please note that one physician may hold multiple certifications.

**Table 11: Total Number of Board Subspecialty Certificates in Wyoming<sup>20</sup>**

American Board of	Subspecialty Certificates	Number
<b>Allergy and Immunology</b>		
	<i>Clinical and Laboratory Immunology</i>	0
	<i>Diagnostic Laboratory Immunology</i>	0
<b>Anesthesiology</b>		
	<i>Critical Care Medicine</i>	2
	<i>Pain Medicine</i>	2
<b>Dermatology</b>		
	<i>Clin and Lab Dermatological Immunology</i>	0
	<i>Dermatological Immunology/Diagnostic Lab</i>	1
	<i>Dermatopathology</i>	2
	<i>Pediatric Dermatology</i>	0
<b>Emergency Medicine</b>		
	<i>Medical Toxicology</i>	0
	<i>Pediatric Emergency Medicine</i>	0
	<i>Sports Medicine</i>	0
	<i>Undersea and Hyperbaric Medicine</i>	0
<b>Family Medicine</b>		
	<i>Adolescent Medicine</i>	0
	<i>Geriatric Medicine</i>	2
	<i>Sports Medicine</i>	3
<b>Internal Medicine</b>		
	<i>Adolescent Medicine</i>	0
	<i>Allergy and Immunology</i>	0
	<i>Cardiovascular Disease</i>	17
	<i>Clinical and Laboratory Immunology</i>	0
	<i>Clinical Cardiac Electrophysiology</i>	0
	<i>Critical Care Medicine</i>	3
	<i>Diagnostic Laboratory Immunology</i>	0
	<i>Endocrinology and Metabolism</i>	1
	<i>Endocrinology, Diabetes and Metabolism</i>	2
	<i>Gastroenterology</i>	7
	<i>Geriatric Medicine</i>	7
	<i>Hematology</i>	3
	<i>Infectious Disease</i>	3
	<i>Interventional Cardiology</i>	5
<i>Medical Oncology</i>	4	
<i>Nephrology</i>	3	

<sup>20</sup> Source: American Board of Medical Specialties. "ABMS 2007 Certificate Statistics." Totals reflect the number of certificates issued and not the number of individuals because a physician may be certified in multiple locations.

<b>American Board of</b>	<b>Subspecialty Certificates</b>	<b>Number</b>
	<i>Pulmonary Disease</i>	8
	<i>Rheumatology</i>	2
	<i>Sports Medicine</i>	0
	<i>Transplant Hepatology</i>	0
<b>Medical Genetics</b>		0
	<i>Molecular Genetic Pathology</i>	0
<b>Obstetrics and Gynecology</b>		
	<i>Critical Care Medicine</i>	0
	<i>Gynecologic Oncology</i>	0
	<i>Maternal-Fetal Medicine</i>	1
	<i>Reproductive Endocrinology/Infertility</i>	0
<b>Orthopaedic Surgery</b>		
	<i>Surgery of the Hand</i>	1
<b>Otolaryngology</b>		
	<i>Neurotology</i>	0
<b>Pathology</b>		
	<i>Blood Banking</i>	0
	<i>Blood Banking/Transfusion Medicine</i>	0
	<i>Chemical Pathology</i>	0
	<i>Cytopathology</i>	0
	<i>Dermatopathology</i>	0
	<i>Forensic Pathology</i>	0
	<i>Hematology</i>	1
	<i>Immunopathology</i>	0
	<i>Medical Microbiology</i>	0
	<i>Molecular Genetic Pathology</i>	0
	<i>Neuropathology</i>	0
	<i>Pediatric Pathology</i>	1
	<i>Radioisotopic</i>	2
<b>Pediatrics</b>		
	<i>Adolescent Medicine</i>	0
	<i>Allergy and Immunology</i>	0
	<i>Clinical and Laboratory Immunology</i>	0
	<i>Developmental-Behavioral Pediatrics</i>	0
	<i>Diagnostic Laboratory Immunology</i>	
	<i>Medical Toxicology</i>	0
	<i>Neonatal-Perinatal Medicine</i>	0
	<i>Neurodevelopmental Disabilities</i>	0
	<i>Pediatric Cardiology</i>	0
	<i>Pediatric Critical Care Medicine</i>	0
	<i>Pediatric Emergency Medicine</i>	0
	<i>Pediatric Endocrinology</i>	0
	<i>Pediatric Gastroenterology</i>	0
	<i>Pediatric Hematology-Oncology</i>	0

<b>American Board of</b>	<b>Subspecialty Certificates</b>	<b>Number</b>
	<i>Pediatric Infectious Diseases</i>	1
	<i>Pediatric Nephrology</i>	0
	<i>Pediatric Pulmonology</i>	0
	<i>Pediatric Rheumatology</i>	0
	<i>Pediatric Transplant Hepatology</i>	0
	<i>Sports Medicine</i>	0
<b>Physical Medicine and Rehabilitation</b>		
	<i>Pain Medicine</i>	1
	<i>Pediatric Rehabilitation Medicine</i>	0
	<i>Spinal Cord Injury Medicine</i>	0
<b>Plastic Surgery</b>		6
	<i>Surgery of the Hand</i>	1
<b>Preventive Medicine</b>		
	<i>Medical Toxicology</i>	0
	<i>Undersea and Hyperbaric Medicine</i>	0
	<i>Undersea Medicine</i>	0
<b>Psychiatry and Neurology</b>		
	<i>Addiction Psychiatry</i>	2
	<i>Child and Adolescent Psychiatry</i>	3
	<i>Child Psychiatry</i>	1
	<i>Clinical Neurophysiology</i>	0
	<i>Forensic Psychiatry</i>	3
	<i>Geriatric Psychiatry</i>	2
	<i>Neurodevelopmental Disabilities</i>	0
	<i>Neuromuscular Medicine</i>	0
	<i>Pain Medicine</i>	1
	<i>Psychosomatic Medicine</i>	0
	<i>Vascular Neurology</i>	0
<b>Radiology</b>		
	<i>Neuroradiology</i>	4
	<i>Nuclear Radiology</i>	1
	<i>Pediatric Radiology</i>	0
	<i>Vascular and Interventional Radiology</i>	1
<b>Surgery</b>		
	<i>Pediatric Surgery</i>	0
	<i>Surgery of the Hand</i>	0
	<i>Surgical Critical Care</i>	2
<b>Grand Total</b>		<b>106</b>

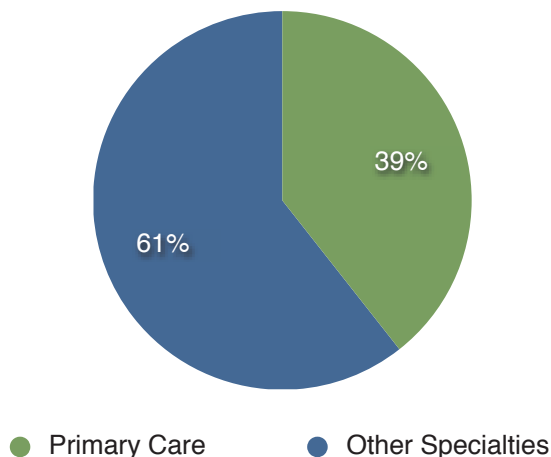


**Table 12: Self-Reported Physician Specialty by Gender N=693**

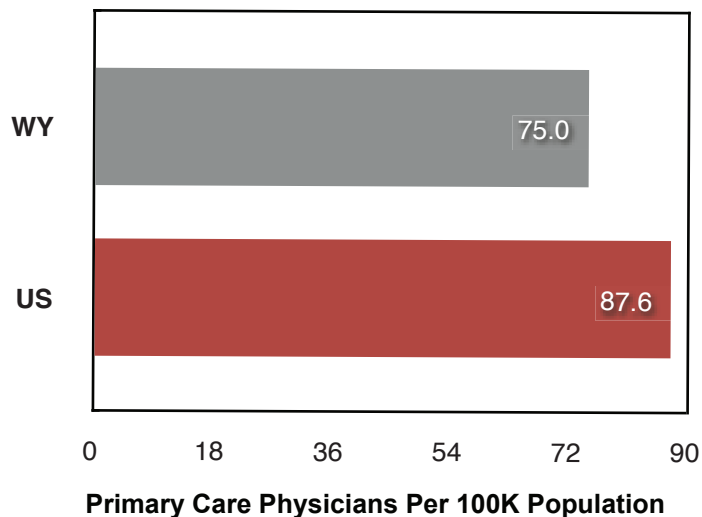
Specialty	Total	Female	Male
<b>Total</b>	<b>693</b>	<b>135 (19.5%)</b>	<b>558 (80.5%)</b>
Family Medicine	161	38 (23.6%)	123 (76.4%)
Internal Medicine	65	18 (27.7%)	47 (72.3%)
Orthopedic Surgery	49	4 (8.2%)	45 (91.8%)
Emergency Medicine	45	5 (11.1%)	40 (88.9%)
Pediatrics	41	19 (46.3%)	22 (53.7%)
Anesthesiology	36	4 (11.1%)	32 (88.9%)
Obstetrics and Gynecology	35	11 (31.4%)	24 (68.6%)
Radiology	32	2 (6.3%)	30 (93.8%)
Psychiatry	25	6 (24%)	19 (76%)
General Surgery	25	4 (16%)	21 (84%)
Cardiovascular Diseases	19	1 (5.3%)	18 (94.7%)
Ophthalmology	18	1 (5.6%)	17 (94.4%)
Otolaryngology	15	3 (20%)	12 (80%)
Anatomic/Clinical Pathology	14	3 (21.4%)	11 (78.6%)
Neurological Surgery	12	1 (8.3%)	11 (91.7%)
Dermatology	11	2 (18.2%)	9 (81.8%)
Urological Surgery	9		9 (100%)
Nephrology	8	1 (12.5%)	7 (87.5%)
Pulmonary Diseases	6	1 (16.7%)	5 (83.3%)
Neurology	6	1 (16.7%)	5 (83.3%)
Gastroenterology	5		5 (100%)
General Practice	5		5 (100%)
Radiation Oncology	4	1 (25%)	3 (75%)
Gynecology	4	2 (50%)	2 (50%)
Plastic Surgery	4		4 (100%)
Hematology/Oncology	4	1 (25%)	3 (75%)
Cardiothoracic Surgery	4		4 (100%)
Occupational Medicine	3		3 (100%)
Medical Management	3	1 (33.3%)	2 (66.7%)
Medical Oncology	2		2 (100%)
Endo/Meta/Diabetes	2	1 (50%)	1 (50%)
Child/Adolescent Psychiatry	2	1 (50%)	1 (50%)
Infectious Diseases	2		2 (100%)
Allergy	2		2 (100%)
Physical Med and Rehab	2		2 (100%)
Urology	2	1 (50%)	1 (50%)
Pediatric Endocrinology	1		1 (100%)
Pulmonary Critical Care Med	1	1 (100%)	
Rheumatology	1		1 (100%)
Forensic Pathology	1		1 (100%)
Pathology	1		1 (100%)
Hospitalist	1		1 (100%)
Interventional Cardiology	1		1 (100%)
Diagnostic Radiology	1		1 (100%)
Internal Medicine-Pediatrics	1	1 (100%)	
Addiction Medicine	1		1 (100%)
Preventive Medicine/Public Health/ General Prevention	1		1 (100%)

Figure 21 displays the percentage of Wyoming's physicians practicing in primary care, and Figure 22 compares the ratio of Wyoming's primary care physicians to the national average. As shown, Wyoming is well below the national average for primary care physicians per capita. Primary care specialty designations were based upon the Association of American Medical College's definition, which includes the specialties of adolescent medicine, family medicine, general practice, geriatric medicine, internal medicine, internal medicine/pediatrics and pediatrics. Table 13 displays Wyoming primary care specialties by age and county, and Table 14 breaks down primary care physicians by age and gender. Figure 23 illustrates the narrowing of the gender gap in the primary care field.

**Figure 21: Wyoming Primary Care Physicians Compared to Other Physician Specialties N=693<sup>21</sup>**



**Figure 22: Wyoming Primary Care Physicians Compared to National Average N=693**



<sup>21</sup>Association of American Medical Colleges. 2007 State physician workforce data book. (November, 2007). Center for Workforce Studies, Association of American Medical Colleges, 9-10.

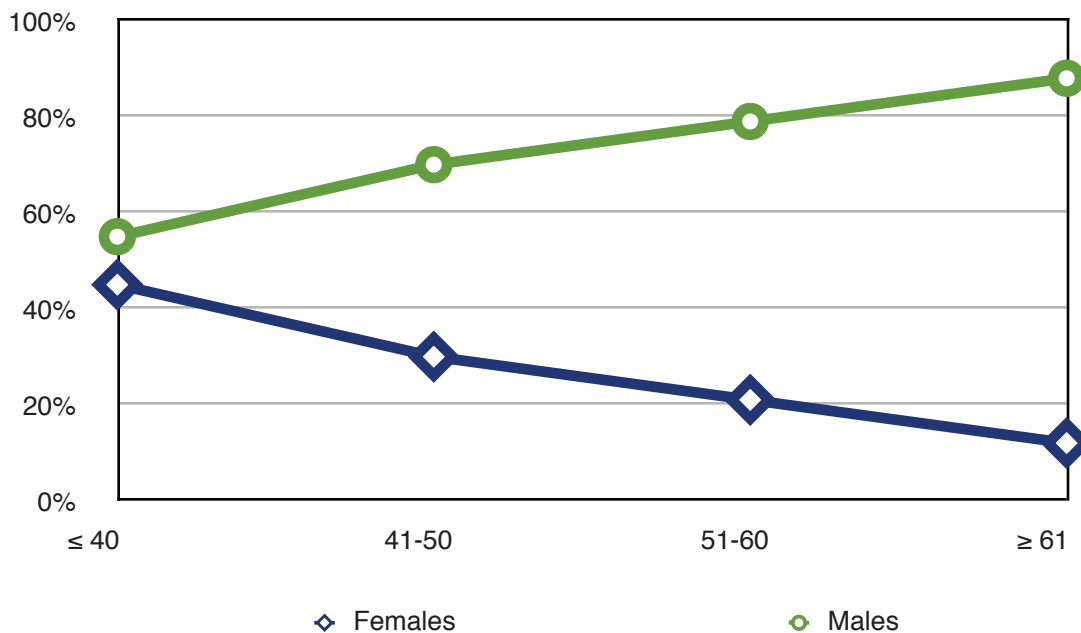
Table 13: Self-Reported Primary Care Specialists by Age and County N=693

Specialty	Age		Total	Albany	Big Horn	Campbell	Carbon	Converse	Crook	Fremont	Goshen	Hot Springs	Johnson	Laramie	Lincoln	Natrona	Niobrara	Park	Platte	Sheridan	Sublette	Sweetwater	Teton	Uinta	Washakie	Weston	Locums
	Total	≤ 40																									
<b>All Primary Care</b>	Total	4	306	14	4	17	5	4	3	35	7	4	6	69	7	3	49	1	27	3	21	5	3	18	5	3	3
	≤ 40	4	83	4	2	5	1	2	1	10	3	2	1	14	1	1	17	1	8	2	1	1	4	1	2	2	
	41-50	4	77	4	2	3	1	1	1	11	2	2	4	15	4	1	9	1	7	4	4	2	2	2	1	1	1
	51-60	5	94	5	2	7	3	2	1	14	3	1	1	14	1	1	12	1	9	1	13	4	1	4	3	3	3
≥ 61	1	43	1	2	2			1	3	1			10	1		9		2		3	2		8				
age unknown		9											6			2			1								
<b>Family Medicine</b>	Total	3	161	2	3	8	4	3	3	19	6	4	6	28	6	1	26		16	2	8	5		3	2	3	3
	≤ 40	1	53	1	2	2	1	2	1	5	3	2	1	8	1	1	11		7	2	1	1		1	2	2	
	41-50	1	43	1	1	1	1	1	1	4	2	2	4	10	4	1	5		3	2	2	2		1	1	1	1
	51-60	1	46	1	1	3	2	1	1	9	2	1	1	6	1	6	6		6		4	2		2	2	1	1
≥ 61	15	15		2	2			1	1	1	1		1	1	3	3			6		2	2	2			3	
age unknown		4											3			1											
<b>General Practice</b>	Total	1	5		1									1	1		1	1									
	≤ 40																										
	41-50		2		1													1									
	51-60																										
≥ 61		3												1	1		1										
age unknown																											
<b>Internal Medicine</b>	Total	5	64	5	5	3	1	1	5	5	1		16			9		6		9	1	6	1	0			
	≤ 40	1	12	1	1	2			2	2			3			3		1		1	1	1	1	0			
	41-50	1	14	1	2	2			1	1			2			3		1		1	2	1	1	1			
	51-60	2	23	2	1	1	1	1	1	1	1		5			2		2		1	5	1	2	1			
≥ 61	13	13	1					1	1			1			1		1		2	1	1	2	2				
age unknown		2											1							1							
<b>Pediatrics</b>	Total	3	23	5	3	3			6	6			9		1	7		2		2	2	1	4	1			
	≤ 40	1	1	2	1	1			2	2			2		1	1		1		1	1	1	1	1			
	41-50	1	1	1	1	1			1	1			1		1	1		1		1	1	1	1	1			
	51-60	1	11	2	2	2			4	4			2		2	2		2		1	2	2	3	1			
≥ 61	8	8											3		2		2		1			3					
age unknown		2											1			1											

**Table 14: Wyoming Primary Care Physicians by Age and Gender N=693**

Counties	All Ages		≤ 40		41-50		51-60		≥ 61		Age Unknown	
	F	M	F	M	F	M	F	M	F	M	F	M
<b>Total</b>	<b>86</b> (28.%)	<b>220</b> (72%)	<b>37</b> (45%)	<b>46</b> (55%)	<b>23</b> (30%)	<b>54</b> (70%)	<b>20</b> (21%)	<b>74</b> (79%)	<b>5</b> (12%)	<b>38</b> (88%)	<b>1</b> (11%)	<b>8</b> (89%)
Albany	6 (43%)	8 (57%)	1 (25%)	3 (75%)	2 (50%)	2 (50%)	3 (60%)	2 (40%)		1 (100%)		
Big Horn		4 (100%)		2 (100%)		2 (100%)						
Campbell	7 (41%)	10 (59%)	3 (60%)	2 (40%)	2 (67%)	1 (33%)	2 (29%)	5 (71%)		2 (100%)		
Carbon	1 (20%)	4 (80%)	1 (100%)			1 (100%)		3 (100%)				
Converse	2 (50%)	2 (50%)	1 (50%)	1 (50%)			1 (50%)	1 (50%)				
Crook	2 (67%)	1 (33%)	1 (100%)			1 (100%)			1 (100%)			
Fremont	10 (29%)	25 (71%)	5 (50%)	5 (50%)	3 (27%)	8 (73%)	2 (18%)	9 (82%)		3 (100%)		
Goshen	2 (29%)	5 (71%)	1 (33%)	2 (66%)			1 (33%)	2 (66%)		1 (100%)		
Hot Springs		4 (100%)		2 (100%)		2 (100%)						
Johnson	1 (17%)	5 (83%)		1 (100%)	1 (25%)	3 (75%)		1 (100%)				
Laramie	17 (29%)	42 (71%)	8 (57%)	6 (43%)	5 (33%)	10 (67%)	3 (21%)	11 (79%)		10 (100%)	1 (17%)	5 (83%)
Lincoln		7 (100%)		1 (100%)		4 (100%)		1 (100%)		1 (100%)		
Locums	2 (67%)	1 (33%)	1 (100%)		1 (100%)			1 (100%)				
Natrona	16 (33%)	33 (67%)	8 (47%)	9 (43%)	3 (33%)	6 (67%)	4 (33%)	8 (67%)	1 (11%)	8 (89%)		2 (100%)
Niobrara		1 (100%)				1 (100%)						
Park	6 (22%)	21 (78%)	3 (38%)	5 (63%)	1 (14%)	6 (86%)	2 (22%)	7 (78%)		2 (100%)		1(100%)
Platte		3 (100%)		2 (100%)				1 (100%)				
Sheridan	5 (24%)	16 (74%)		1 (100%)	3 (75%)	1 (25%)	2 (15%)	11 (85%)		3 (100%)		
Sublette		5 (100%)		1 (100%)		2 (100%)				2 (100%)		
Sweetwater		3 (100%)				2 (100%)		1 (100%)				
Teton	8 (44%)	10 (66%)	4 (100%)		1 (50%)	1 (50%)		4 (100%)	3 (38%)	5 (63%)		
Uinta	1 (20%)	4 (80%)		1 (100%)	1 (100%)			3 (100%)				
Washakie		3 (100%)		2 (100%)		1 (100%)						
Weston		3 (100%)						3 (100%)				

**Figure 23: Wyoming Primary Care Physicians by Age and Gender N=693**



### Educational Background

Figure 24 displays the location of the high schools from which Wyoming physicians graduated: 21% of all physician respondents reported graduating from a Wyoming high school and 17% reported graduating from a high school in the Wyoming Area (i.e., a Wyoming border state)<sup>22</sup>.

**Figure 24: Wyoming Physician High School Location N=693**

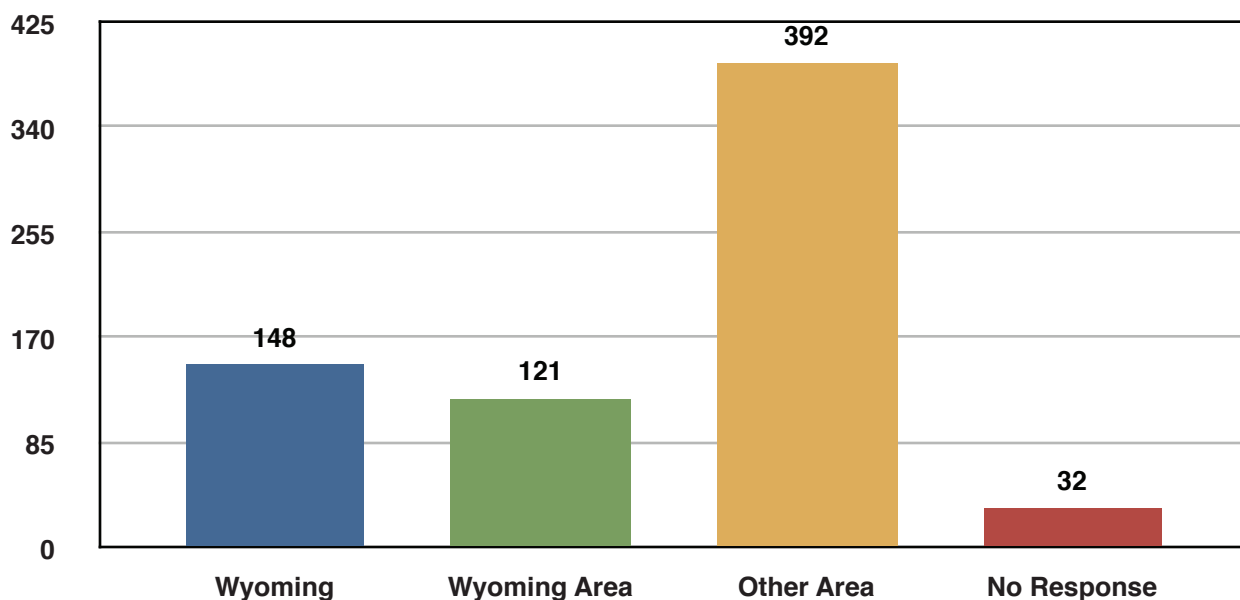


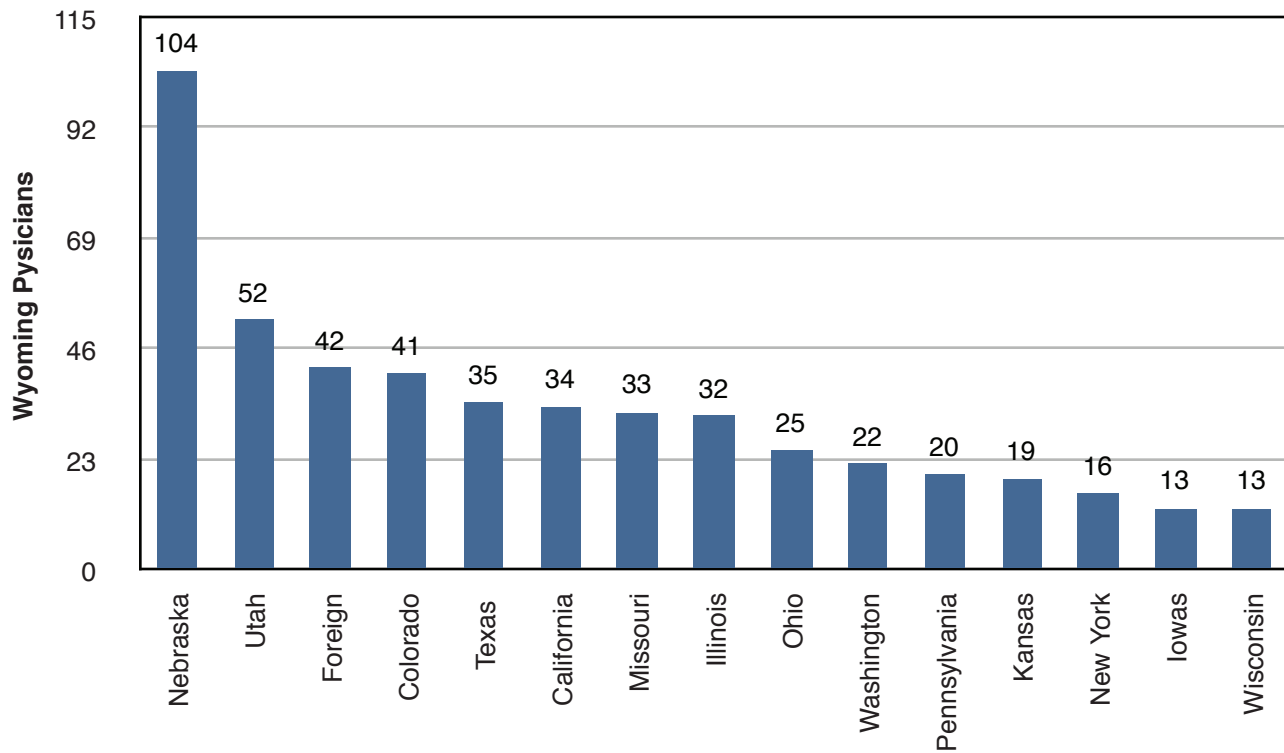
Table 15 details the education of WY physicians by state, including states where physicians completed internships, fellowships, medical school and residencies. Figures 25 and 26 break down the top fifteen states where Wyoming physicians completed medical school and residency.

<sup>22</sup> Wyoming Area includes Colorado, Idaho, Montana, Nebraska, South Dakota, and Utah.

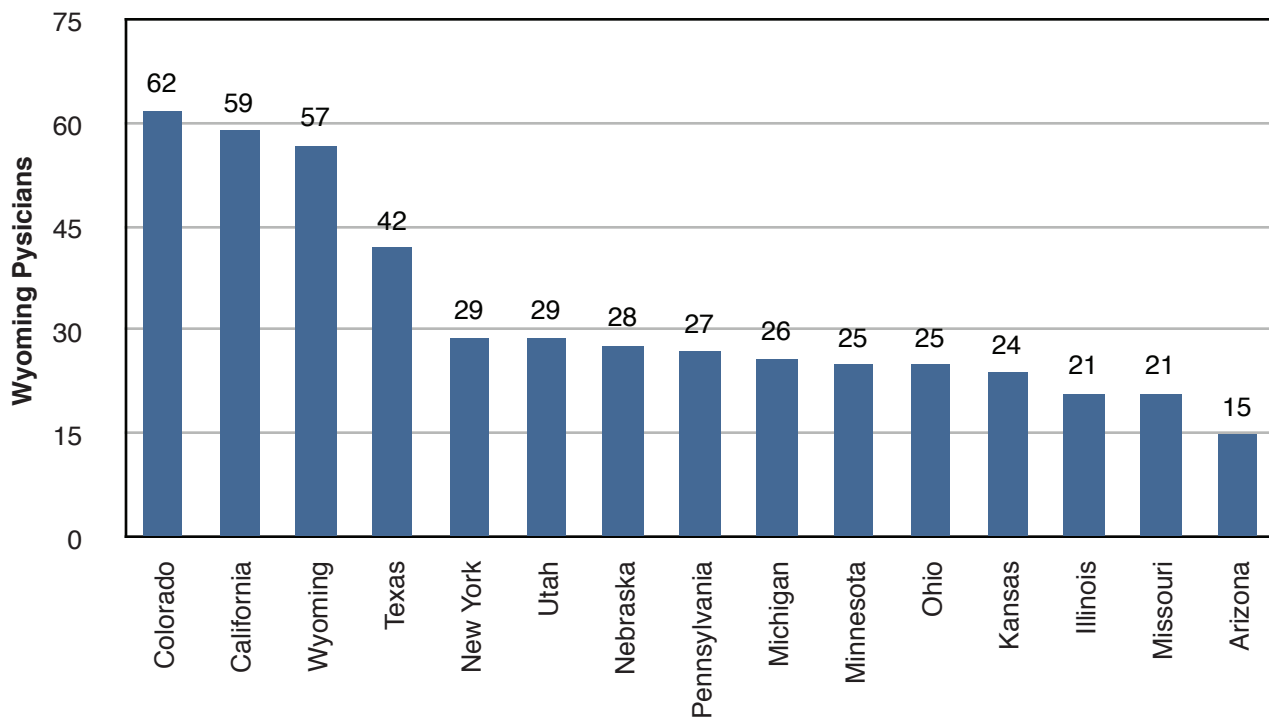
**Table 15: Wyoming Physician Medical Education by State N=693**

State	Fellowship	Internship	Medical School	Residency
Alabama	3	4	5	4
Arizona	2	10	12	15
Arkansas		2	4	1
California	24	48	34	59
Colorado	12	22	41	62
Connecticut	1	1		4
Delaware		1		
District Of Columbia	1	2	9	3
Florida	3	3	6	12
Foreign	2	5	42	7
Georgia	4	4	2	6
Hawaii		6		3
Idaho				1
Illinois	2	13	32	21
Indiana	2	8	9	7
Iowa	3	12	13	14
Kansas	3	10	19	24
Kentucky	2	4	5	11
Louisiana	1	5	12	5
Maine		1		1
Maryland	6	7	9	7
Massachusetts	6	5	10	11
Michigan	3	20	11	26
Minnesota	8	6	11	25
Mississippi		3	1	4
Missouri	6	11	33	21
Montana				1
Nebraska	1	14	104	28
Nevada	1		4	1
New Hampshire		1	1	2
New Jersey	2	5	5	5
New Mexico	4	4	9	13
New York	7	19	16	29
North Carolina	4	2	7	7
North Dakota		1	8	2
Ohio	2	13	25	25
Oklahoma	3	5	11	10
Oregon	1	6	4	8
Pennsylvania	6	14	20	27
Rhode Island		1	1	
South Carolina	2	1	1	3
South Dakota		3	5	4
Tennessee	3	6	12	8
Texas	20	20	35	42
Utah	8	12	52	29
Vermont		2	4	4
Virginia	1	3	8	1
Washington	5	5	22	15
West Virginia		3	1	6
Wisconsin	1	8	13	15
Wyoming	2	10		57

**Figure 25: Top Fifteen States Where WY Physicians Completed Medical School N=693**



**Figure 26: Top Fifteen State Where WY Physicians Completed Medical Residency N=693**



**Retirement/Relocation Plans**

As shown in Figure 27, 8 physicians (1%) reported plans to retire within the next year, while 32 (5%) reported plans to retire within the next two years; 43% of all physician respondents did not plan to retire for ten years or more.

**Figure 27: Self-Reported Physician Retirement Timeframes N=693**

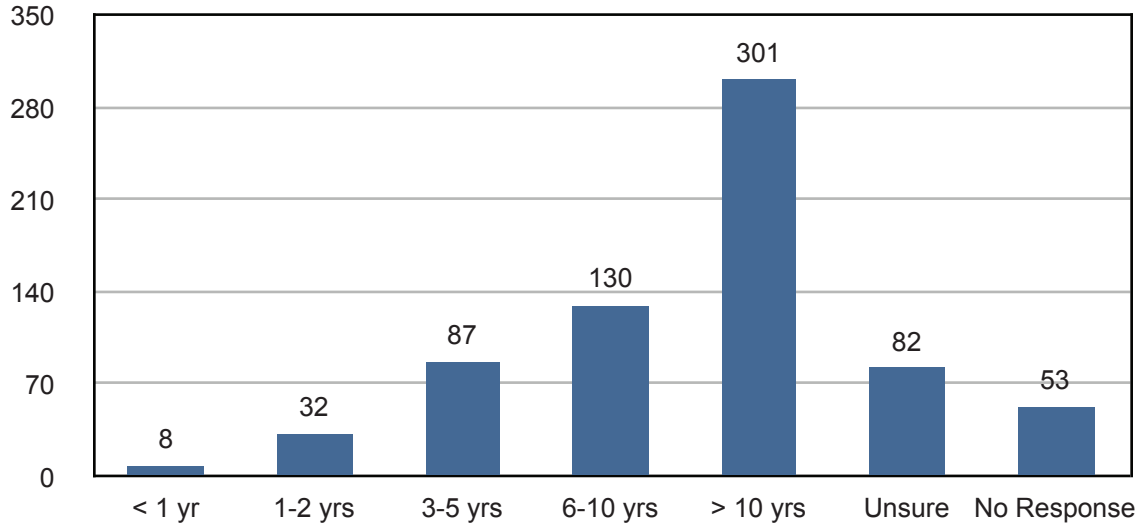
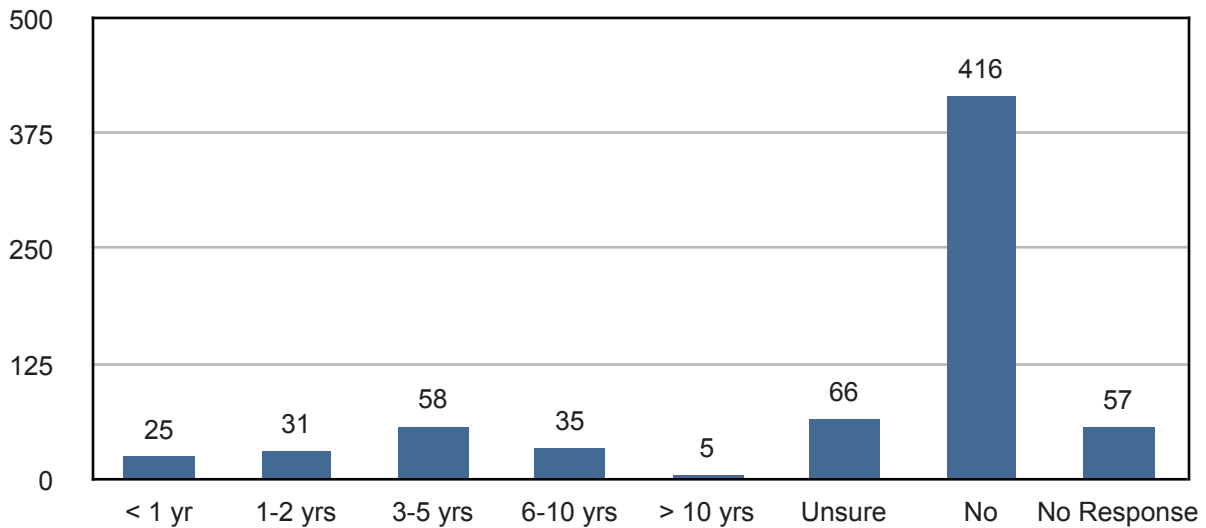


Figure 28 displays physician relocation plans. The majority of Wyoming physicians have no plans to relocate within ten years. Twenty-five (3.6%) reported plans to relocate within the next year, thirty-one (4.5%) within the next two years.

**Figure 28: Self-Reported Physician Relocation Timeframes N=693**

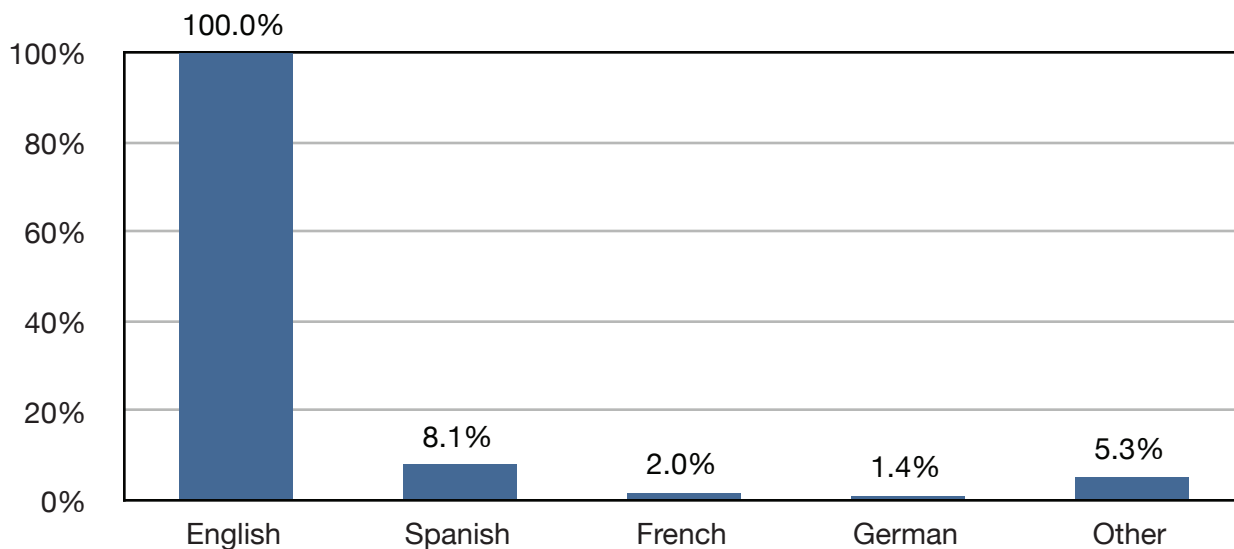




### Languages Capabilities

All physicians practicing in Wyoming (100%) reported speaking English. Many physicians are bilingual. As shown in Figure 29, following English, 8.1% of physicians speak Spanish, 2% speak French, 1.4% speak German, and 5.3% speak one of twenty-five other languages.<sup>23</sup>

**Figure 29: Self-Reported Physician Language Capabilities N=693**



<sup>23</sup> In order by percentage reported: Italian, Hindi, Czech, Tamil (Indian dialect), Arabic, Dutch, Gujrati (Indian dialect), Japanese, Polish, Telugu, Afrikaans, Filipino, Greek, Hebrew, Norwegian, Persian, Punjabi, Romanian, Russian, Slovak, Swedish, Tagalog (Filipino), Ukranian, Urdu (Indian dialect), and Xhosa.

**Openings**

Table 16 details the number of physician openings (both replacement openings and expansion openings) self-reported by practice locations.

**Table 16: Physician Openings by County N=473**

County	Total	Replacement	Practice Expansion
<b>Total</b>	<b>169</b>	68	101
<b>Albany</b>	<b>5</b>	1	4
<b>Big Horn</b>			
<b>Campbell</b>	<b>22</b>	6	16
<b>Carbon</b>	<b>6</b>	4	2
<b>Converse</b>	<b>1</b>		1
<b>Crook</b>	<b>4</b>		4
<b>Fremont</b>	<b>17</b>	12	5
<b>Goshen</b>	<b>4</b>	1	3
<b>Hot Springs</b>			
<b>Johnson</b>			
<b>Laramie</b>	<b>30</b>	8	22
<b>Lincoln</b>	<b>1</b>		1
<b>Natrona</b>	<b>29</b>	13	16
<b>Niobrara</b>			
<b>Park</b>	<b>9</b>	5	4
<b>Platte</b>	<b>3</b>		3
<b>Sheridan</b>	<b>6</b>	4	2
<b>Sublette</b>	<b>2</b>		2
<b>Sweetwater</b>	<b>16</b>	7	9
<b>Teton</b>	<b>6</b>	3	3
<b>Uinta</b>	<b>3</b>	3	
<b>Washakie</b>	<b>2</b>		2
<b>Weston</b>	<b>3</b>	1	2
<b>Locum Tenens</b>			