Wisconsin 2018 RN Workforce Survey







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In Appreciation,
Pat Keller, MSN, RN, NEA-BC
President – Wisconsin Center for Nursing, Inc.

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Executive Summary

Introduction

Registered nurses (RNs) comprise a large and essential component of the health professions workforce in Wisconsin. The practice of RNs is regulated by the State of Wisconsin, which requires renewal of the RN license every two years. Since 2010, RNs have been mandated by Wisconsin State Statute (WSS 106.30) to complete a survey to gather information important to health professions workforce planning as part of the RN license renewal process. This report presents the findings from the analysis of the *Wisconsin 2018 RN Workforce Survey* administered by the State of Wisconsin Department of Workforce Development (DWD).

Methods

By the end of February 2018, 90,143 RNs completed the survey. Of these, 88,932 completed the survey online and 1,211 completed the survey in paper format. Due to resource restrictions, data from the RNs who completed the survey in paper format were not included in the database used for the analyses reported here. After exclusion criteria were applied during data cleaning processes to assure data validity, the final sample for the 2018 report was 79,750 RNs living and/or working in Wisconsin. The sample size for analysis of the responses from specific questions may vary due to missing data or other parameters relevant to the specific analysis.

Key Findings – Overall

Demographics

- The number of nurses who renewed their RN licenses in Wisconsin increased by 2,699, from 87,444 in 2016 to 90,143 in 2018, a 3.1% increase.
- Consistent with previous surveys, the majority of RNs report being female (92.5%), White (94.2%), and Wisconsin resident status (96.7%).
- The number reporting being male (5,945) increased by 9.2% from 2016 (5,443). At 7.5% of the total, males continue to be substantially underrepresented in the workforce compared to the overall population.
- The average age of RNs completing the 2018 survey was 46.4 years, consistent with the average age in 2016 of 46.8 years.
- The number of RNs in the diverse race/ethnicity category increased to 5,642 from 4,795 in 2016, a 17.7% increase.
- The proportion of the Wisconsin RN workforce identified as racially or ethnically diverse was 7.1%, well below the national benchmark for diversity of 25% (National Advisory Council on Nurse Education and Practice [NACNEP], 2013).

Education

- The proportion of RNs who reported the bachelor's in nursing as their highest degree was 47.6%, a slight increase from 2016 (46.1%). In 2018, the proportion of RNs working as a nurse with a bachelor's or higher degree in nursing was reported at 60.4%, below the Institute of Medicine (IOM, 2011) target of 80% by 2020.
- Most (68.5%) RNs do not intend to further their education, similar to the 2016 survey (67.8%).
- The total number of RNs with doctoral degrees (any field) was 1,179, a 37.6% increase from 2016 (857). This number has more than doubled from 2010, when the number was

- 516, thus meeting the IOM (2011) recommendation to double the number of nurses with a doctorate by 2020.
- The increase in nurses with doctoral degrees is almost entirely due to the increase in RNs reporting having earned the Doctor of Nursing Practice (DNP) degree, which increased from 422 to 720 between 2016 and 2018, and not to other doctoral degrees (including the PhD), which only increased by 24 from 435 in 2016 to 459 in 2018.

Employment

- Overall, 89.5% of the respondents were employed, and 85.4% reported employment as a nurse, a small increase from 2016 (82.7%).
- The majority (52.0%) of nurses continue to report that their primary place of work is a hospital and 78.4% report working in a direct care position.
- The most notable shifts in employment between 2016 and 2018 were increases in the numbers employed as advanced practice registered nurses (APRN) (+ 497) and decreases in the numbers employed as nurse faculty (- 53) and in leadership positions, including nurse managers, administrators, and nurse executives (- 284).

Implications for Practice, Education, and Policy

Progress is being made in increasing the overall size and diversity of the workforce. However, the pace of progress in increasing diversity is slow, and it is not clear that the rate of increase is sufficient to keep up with increasing health care demands and increasing RN retirements over the next decade. To attain a more diverse workforce, academic programs should recruit and retain a diverse student body through the use of evidence-based, holistic admissions procedures; increase attention to climate and inclusion issues for men, first generation students, and racial/ethnically underrepresented students; and increase student financial supports. The low numbers of Wisconsin nurses prepared to teach is concerning and contributes to the challenges of graduating sufficient numbers of professional nurses who can become RNs. Special efforts are needed to increase the number of nurses attaining doctoral degrees with the intent to teach and do research. With the proportion of RN licensees working in nursing already very high, it is vital that employers support the workforce to keep nurses fully engaged using residency programs for new graduates, salary, benefits, and workplace climate initiatives as tools. Policymakers can assist academic programs and employers through financial supports and incentives, such as faculty and nurse scholarship and loan forgiveness programs.

Key Findings – State Regions

- RNs in the Northern region reported the highest average age (47.5 compared to 46.4 overall) and highest proportion of male gender (8.5% compared to 7.4% overall).
- The greatest racial/ethnic diversity was reported in the Southeast region (8.3% diverse compared to 5.1% overall).
- Employed RN to population ratios were highest in the Southern and Southeastern regions (11.8/1,000 population) and lowest in the Northeastern region (10.5/1,000).
- In all regions, 22.5% of the RN workforce report intentions to leave direct patient care in less than five years, and over 40% report that intention in less than 10 years.
- The proportion of RNs with a bachelor's or higher degree in nursing was highest in the Southeastern region (65.4%) and lowest in the Northern region (46.6%).

• The number of RNs enrolled in bachelor degree completion programs increased from 3,307 in 2016 to 3,723 in 2018; the increase was most notable in the Northeastern region, where the number increased by 56.5%, from 614 in 2016 to 961 in 2018.

Implications for Regional Practice, Education, and Policy

Geographic variation in characteristics of the RN workforce across regions in Wisconsin reflects the locations of employers and nursing education programs, as well as population demographics. Given the urban/rural disparity in RNs with bachelor level education, policymakers, educators, and employers will need to collectively find ways to improve access to bachelor education and RN to BSN completion programs for RNs living in more rural regions of the state. Some options to consider include education program expansion, technology enhancements, incentives, scholarships, and loan forgiveness programs. Employers may be able to improve recruitment and retention of bachelor-prepared nurses through raising salaries and benefits and by working with local communities to address housing issues.

Key Findings – Advanced Practice Registered Nurses

- There are 5,623 APRNs licensed in Wisconsin. Of those, 4,896 report working as an APRN in the state, representing 6.3% of the RN workforce in Wisconsin, up from 5.9% in 2016.
- 71.2% (3,557) of APRNs are advanced practice nurse prescribers (APNPs).
- The primary population focus areas for their care reported by APRNs were families/lifespan (44.4%), adult/older adults (36.7%), children (6.3%), women (6.6%), mental health (4.0%), and neonate/infants (1.9%).
- The average age of APRNs is 45.9; 89.2% are female; and 6.1% report racial/ethnic diversity.
- Regional variation in APRNs with prescriptive authority was reported, with the highest proportion in the Southeastern region (39.6%) and the lowest in the Northern region (8.3%).
- A notable change from 2016 was in the proportion of APRNs with DNP degrees, increasing from 6.6% in 2016 to 9.8% in 2018.

Implications for APRNs

While the overall number of APRNs working in Wisconsin continues to increase, the proportion of APRNs in the RN workforce still lags behind recommended national goals. The number of APRNs in some specialty areas, such as psychiatric/mental health, and in some regions of the state remains well below the number needed to address rising health care needs. Sustained effort will be required to increase the number of APRNs in order to meet health care demands. Scholarships and loan forgiveness programs can help increase access to the advanced education required for APRN roles. Policy barriers to full scope of practice for APRNs continue in Wisconsin, creating a disincentive for APRNs to migrate or remain in the state to practice. These barriers should be addressed in order to recruit and retain adequate numbers of APRNs, as well as to extend access to health care in the state. The increase in proportion of APRNs with a DNP reflects the increased number of DNP programs for advanced practice roles. Because DNP education program accreditation criteria require faculty providing clinical education in DNP programs be certified to practice, increased collaboration between education and practice institutions to allow more shared practice opportunities is needed. In addition, loan forgiveness programs for faculty with DNP can help support DNP who choose faculty positions at often

lower salary rates. Finally, collaboration among health workforce planning groups in the state is needed to adequately forecast demand for APRNs in the future.

Key Findings – Leadership Roles

- 47.2% of respondents reported holding one or more leadership role. Of those reporting a leadership role, 90.1% reported roles in their primary work area (e.g., charge nurse, team leaders, or unit manager), and 10.3% reported organizational level leadership roles (e.g., director, chief nursing officer, or dean).
- Leadership through serving on a governance board was reported by 546 (1.9%), as a public official by 162 (0.6%), and as a committee chairperson by 1,837 (6.3%).
- Higher proportions of RNs reporting leadership roles in their work areas hold bachelor's degrees (48.8%) compared to associate degrees (38.0%).
- Barriers to engaging in leadership include lack of interest (57.0%), having other personal priorities (24.9%), and lack of opportunity (16.6%).
- Over half (53.6%) of organizational level nurse leaders intend to work in their current type of employment for less than 10 years.
- A notable change from 2016 is the decline in nurses serving on governance boards (844 in 2016 compared to 546 in 2018).

Implications for Leadership

The findings point to the ongoing need for leadership development programs and leadership succession planning in organizations. Academic programs could ensure that nurses graduate from bachelor and associate degree programs with competency for leadership roles at the primary work area level, and nurse residency programs could ensure that leadership competencies are further developed and applied. Graduate faculty could include organization, system, and academic leadership concepts and content in higher level nursing education programs. Emphasis on formal succession planning is needed across organizations, given the high proportion of organizational level nurse leaders who intend to leave those positions in the near term. It is concerning that these data show that Wisconsin is not advancing toward meeting national recommendations for increasing the number of nurses on decision-making boards and commissions (IOM, 2011). More coordinated efforts to promote this type of leadership with nurses and organizations will be needed to make progress toward this national goal.

Key Findings – Nurse Faculty

- 1,057 respondents reported their primary position at their principal place of work was "nurse faculty." Working as nurse faculty in education settings (universities, technical colleges, or hospitals/health systems) was reported by 900 respondents.
- Of the 1,057 nurse faculty working in all settings, 95% reported being female, 7.2% were categorized as racial/ethnically diverse, and the mean age was 50.6 years.
- Most nurse faculty working in all settings are prepared at the master's level (57.8%), and 206 (19.5%) faculty hold a doctoral degree (any field).
- 32.7% of faculty in all settings intend to stay in their current type of employment for less than five years, and 56% reported the intent to stay for less than 10 years.
- Notable changes from 2016 to 2018 include small increases in the overall numbers of faculty in education settings (825 to 900), the number of faculty who are men (37 to 53), and in the proportion of faculty who are categorized as diverse (5.9% to 7.2%).

• The number of faculty with doctoral degrees increased from 2016 (171) to 2018 (206), with all the increase attributable to faculty with the DNP (57 in 2016 and 85 in 2018) compared to the PhD (81 in 2016 and 80 in 2018).

Implications for Faculty and Nursing Education

Recent investments in nursing education and faculty supports in Wisconsin may be beginning to have a positive impact on the size and diversity of nursing faculty. The increase in DNP-prepared faculty corresponds with the increase in programs preparing APRNs. Given that the focus of the DNP is on advanced practice rather than nursing education, schools may want to provide opportunities for DNP students to prepare for nurse educator roles in addition to advanced practice roles. The lack of any increase in PhD-prepared faculty in the state over two years is concerning, given the importance of research in addition to teaching roles for faculty. With more than half of current faculty intending to stay in their current positions for less than 10 years, considerable increased effort to support the faculty pipeline is needed. Such support could include scholarships, loan forgiveness programs, and more support for PhD education.

Recommendations for Future Surveys and Nurse Workforce Data

Data collected through the *Wisconsin RN Workforce Survey* are essential for developing strategic priorities for workforce planning. Data that are consistently collected over time can be used to understand trends, to forecast future needs, and to evaluate the effectiveness of efforts to strengthen the workforce. Although RN survey data have now been collected every two years since 2010, survey changes make trend analysis challenging. Making the survey datasets more readily available to researchers would increase the use of the data and enhance the value of the survey.

Reliability of data collected through the survey could be improved by adding more standard definitions. For example, the terms *nurse faculty* and *nurse educator* as used in the survey refer to different roles. Some respondents may understand these terms to mean the same thing. Having clear definitions and consistent use of terms in the survey would improve the quality of data collected and reduce errors in interpretation of the results. Improved survey administration technology could be employed to help reduce the potential for errors during survey completion and reduce the number of responses excluded from the analysis.

The Minimum Nurse Supply Dataset is published by the National Forum of State Nursing Workforce Centers. Questions on the *Wisconsin RN Workforce Survey* should be reviewed and potentially revised to align with the recently updated national dataset to allow for comparison of nursing workforce issues across states and at the national level.

Section I. Introduction

Registered nurses (RNs) comprise a large and essential component of the health professions workforce in Wisconsin. The practice of RNs is regulated by the State of Wisconsin, which requires renewal of the RN license every two years in order to practice in the state. Since 2010, RNs have been mandated by Wisconsin State Statute (WSS 106.30) to complete a survey to gather information important to health professions workforce planning as part of the RN license renewal process. This report presents the findings from the analysis of the *Wisconsin 2018 RN Workforce Survey* administered by the State of Wisconsin DWD. A copy of the survey can be found in Appendix A.

The Wisconsin Center for Nursing (WCN), in partnership with DWD, contracted with a research team from the University of Wisconsin-Madison (Principal Investigator, Dr. Susan Zahner) to complete an analysis of the survey data and to produce this report of the findings. The project was determined to be exempt from review by the UW-Madison Minimal Risk Institutional Review Board (Health Sciences).

By the end of February 2018, 90,143 RNs completed the biennial survey. Of these, 88,932 completed the survey online and 1,211 completed the survey in paper format. Due to resource restrictions, data from the RNs who completed the survey in paper format were not included in the analysis. Exclusion criteria were used to identify and remove from the analysis RNs who do not live or work in Wisconsin. In addition, questionable responses, such as dates of licensure or degree or certification receipt that were impossible or highly unlikely given the date of birth or number of hours in a day or week, were not included in the final analysis. Table 1 displays the exclusion criteria and effect on the sample after they were applied. After data cleaning was complete, the final sample for the analysis was responses from 79,750 RNs living and/or working in Wisconsin.

Table 1. Exclusion Criteria and Excluded Responses

Electronic Responses Received ($n = 88,932$)		
Exclusion Criteria	Excluded	
Does not live or work in Wisconsin	8,293	
Date U.S. or Wisconsin RN license obtained prior to or at date of birth	5	
RN license prior to first degree	252	
First U.S. or Wisconsin license prior to age 16	65	
Provided direct care for 10 or more years prior to first degree	153	
Received first degree prior to age 16	44	
Provided direct care prior to age 16	47	
Currently working more than 10 jobs	37	
Working excessive hours in primary job, secondary job, or both	257ª	
Received first degree after age 70	4	
First U.S. or Wisconsin license after age 75	12	
Working or looking for work after age 85	11 ^b	
Reports having one or more jobs but reports not working	369	
Usable Responses	79,750	

Note. Respondents may have reported data that met exclusion criteria in more than one category.

This report presents the 2018 survey results and analysis in the following sections:

- Section II: Wisconsin RN Workforce Demographics
- Section III: Geographic Distribution of Wisconsin RNs
- Section IV: Advanced Practice Registered Nurses
- Section V: Nurses in Leadership Roles
- Section VI: Nurse Faculty

Each section includes a short discussion of the results in light of state and national RN workforce issues and makes comparisons to the 2016 Wisconsin RN Survey report (Zahner, Pinekenstein, Henriques, & Rainbow, 2017), when possible, to highlight notable changes.

A summary of key findings is presented in the 2018 Wisconsin RN Survey At a Glance, included in Appendix B. Although some analyses in this full report are the same as those presented in the At a Glance summary report, many are not because they are based on different subsamples of respondents. A summary of key findings related to nurse faculty is included in Appendix C.

Data Management

Data are reported as the number of valid respondents, the percentage of valid responses, or the mean (average) as appropriate. When the number of valid responses was so small (five respondents or less) as to risk the identity of the respondent, results were not reported and an asterisk in used in the data field.

^aRespondents who selected that they worked more than 84 hours weekly in a primary job, 72 hours weekly in a secondary job, and/or 92 hours weekly in both primary and secondary jobs were excluded. ^bThe working or unemployment exclusion age was changed from 75 years of age to 85 years of age in the 2016 analysis; it provides an enriched view of the current state of the nurse workforce.

Limitations

Newly licensed RNs in Wisconsin are not included in this analysis because they did not complete the 2018 biennial RN re-licensure survey. The report also excludes RNs who completed the survey in paper form. Therefore, the total number of licensed RNs reported here undercounts all RNs living and/or working in the state. As with all surveys, errors made by respondents at time of completion of the survey may have led to missing, incorrect, or incomplete responses. Trend analysis was limited due to changes in survey questions over time and limited access to prior years' datasets.

Section II. Wisconsin RN Workforce Demographics

An overview of the demographics of Wisconsin's RN workforce is provided in Table 2. The majority of RNs licensed in Wisconsin live in the state (96.7%), are female (92.5%), and identify as White (94.2%). The average age of RNs who maintain a license in Wisconsin is 46.4 years. The majority (88.6%) of the RN workforce are between 25 years and 64 years of age. Less than half (47.5%) of RNs are 44 years and younger, while just over half (52.5%) are 45 years and older.

Table 2. Wisconsin RN Workforce Demographics (n = 79,750)

	n	%
Residence		
Wisconsin	77,111	96.7
Outside Wisconsin	2,639	3.3
Gender		
Female	73,805	92.5
Male	5,945	7.5
Age		
Mean age (SD)	46.4 ((13.4)
Range	21 to 89	9 years
Age Distribution (years)		
< 25	1,349	1.7
25 – 34	18,042	22.6
35 – 44	18,428	23.1
45 – 54	15,818	19.8
55 – 64	18,437	23.1
65 – 74	7,033	8.8
≥ 75	643	0.8
Primary Racial Identity		
White	75,118	94.2
Black	1,562	2.0
Asian	1,417	1.8
Native Hawaiian or other Pacific Islander	85	0.1
American Indian or Native Alaskan	303	0.4
Multiracial	1,265	1.6
Hispanic/Latino Ethnicity		
Yes	1,587	2.0
No	78,163	98.0

Note. Table 2 includes responses to survey questions 63 – 66 and 68.

Note. SD =standard deviation

Language Proficiency

Most nurses in Wisconsin speak only English (71,724, 89.9%), while 7,253 (9.1%) speak one other language, and 773 speak two or more other languages. The majority of RNs who are proficient in a second language report speaking Spanish (5.8%).

Table 3. Linguistic Ability*

	n	0/0
Language Proficiency		
English language only	71,724	89.9
One other language	7,253	9.1
Two or more other languages	773	1.0
Language Spoken		
Spanish	4,718	5.8
Filipino, Tagalog	400	0.5
German	624	0.8
French	446	0.6
Russian	225	0.3
Hmong	445	0.6
Hindi	162	0.2
Polish	150	0.2
American Sign Language	532	0.7
Other	1,251	1.6

Note. Table 3 includes responses to survey question 67.

^{*}Respondents could choose more than one response.

Employment Patterns of RNs in Wisconsin

Table 4 displays information pertaining to the employment status of Wisconsin RNs in 2018. The majority (89.5%) of respondents were employed, and of those employed, the majority worked as a nurse (85.4%). Over 3,000 RNs were not employed as a nurse and reported working in another health field (2,115, 2.7%) or outside of health care (1,105, 1.4%).

Just over 10% of RNs (8,398, 10.5%) were not employed at the time of the survey. The greatest proportion are retired (5,431, 6.8%), followed by RNs who were not seeking work (1,844, 2.3). The remaining RNs who were not employed were either seeking work in nursing (993, 1.2%) or in another field (130, 0.2%).

Table 4. Employment Status of RNs in Wisconsin (n = 79,750)

	n	%
Employed	71,352	89.5
Employed as a nurse	68,132	85.4
Employed in health field, not as a nurse	2,115	2.7
Employed in another field	1,105	1.4
Not Employed	8,398	10.5
Retired	5,431	6.8
Unemployed, seeking work in nursing	993	1.2
Unemployed, seeking work in another field	130	0.2
Unemployed, not seeking employment	1,844	2.3

Note. Table 4 includes responses to survey question 11.

Primary Position Characteristics

Table 5 displays characteristics of RNs' primary places of work. More than half of RNs work in a hospital (52.0%), with a permanent position (98.3%), as a staff nurse (61.9%), and provide direct patient care (78.4%). Nurses work on average 36 hours each week, and approximately 47 weeks in each year. Nearly 20% (12,737, 19.4%) of nurses work in ambulatory care settings, while 8.8% work in nursing homes or extended care, 5.4% in home health, 3.7% in public or community health, and 2.8% in education.

Survey responses show that RNs licensed in Wisconsin are employed in all states except Virginia and are also working in Puerto Rico and Guam. The largest group of RNs working outside the state are in Minnesota (4.4%; 3172) and Illinois (2.5%; 1834). A greater proportion of RNs employed with consulting firms work outside of Wisconsin (3.1%) than within the state (0.8%). Similarly, more RNs licensed in Wisconsin but working out of state are employed as nurse executives (2.5%) and nurse faculty (2.3%) than in state (executives 1.1%; nurse faculty 1.8%). Appendices D and E include additional information about where and types of roles for RNs with a Wisconsin license who are working outside the state.

For those RNs whose primary position was not a staff nurse, the three positions with the greatest number of nurses were nurse managers (6.8%), case managers (8.9%), and APRNs (7.5%). The proportion of RNs working as administrators (1.4%), nurse executives (1.1%), nurse faculty (1.8%), or nurse researchers (0.4%) were notably lower than other positions.

Over 1,000 RNs who live and work in Wisconsin are employed in a temporary position for a staffing or travel agency or similar position. Additional analyses examined patterns among RNs licensed in Wisconsin and who worked in telehealth or for call centers (Appendix F). Approximately two times the number of RNs in these positions work outside of Wisconsin, regardless of state of residence. Of the 618 who work in Wisconsin, 97.1% (600) also live in Wisconsin. For those working out of state (1,228), only 3.3% reside in Wisconsin. For additional details on RNs working in call centers or telehealth, see Appendix F.

A greater proportion of RNs are paid hourly (71.7%) than salaried (27.1%). Of those who reported working more than scheduled hours, the majority did so voluntarily (52.7%), while 22.0% did so as part of a salaried position. Most RNs reported they received benefits as part of their compensation packages (89.2%).

Table 5. Characteristics of Primary Position at Principal Place of Work (n = 65,828)

The event were some of the series of the ser	or remorphism to more or whom	(00,0=0)	
	n	%	
Principal Place of Work			
Hospital	34,199	52.0	
Ambulatory care	12,737	19.4	
Nursing home or extended care	5,816	8.8	
Home health	3,570	5.4	
Public health or community health	2,449	3.7	
Education	1,845	2.8	
Other	5,212	7.9	
Primary Position Description			
Staff nurse	40,736	61.9	
Nurse manager	4,452	6.8	
Case manager	5,855	8.9	
Advanced practice nurse	4,940	7.5	
Administrator	895	1.4	
Consultant or contract	716	1.1	
Nurse executive	735	1.1	
Nurse faculty	1,159	1.8	
Nurse researcher	255	0.4	
Staff, other non-medical	179	0.3	
Manager, other non-medical	108	0.2	
Other	5,798	8.8	
Primary Position is Temporary/External Pool/Travel/Staffing Placement			
Yes	1,104	1.7	
Primary Position is Self-Employment			
Yes	1,118	1.7	

n	%			
Compensation in Primary Position				
47,209	71.7			
17,847	27.1			
772	1.2			
55,668	84.6			
51,057	77.6			
46,342	70.4			
42,651	64.7			
7,080	10.8			
51,593	78.4			
14,473	22.0			
5,230	7.9			
3,988	6.1			
7,429	11.3			
34,708	52.7			
Mean	SD			
36.0	11.9			
47.6	10.4			
	47,209 17,847 772 55,668 51,057 46,342 42,651 7,080 51,593 14,473 5,230 3,988 7,429 34,708 Mean 36.0			

Note. Table 5 includes responses to survey questions 23, 25, 28-33, 35, 36

Future Intentions for Employment

Table 6 displays responses by the length of time RNs who work in direct patient care plan to continue providing direct patient care by mean age, mean years of direct care experience, and number of total weekly hours worked. Over fifty percent (56.6%) of respondents indicated they intend to remain in a direct care positions for 10 years or longer. However, 22.5% (25,118) of RNs plan to leave direct care in less than five years. On average, those nurses who intend to continue providing direct care for more years are younger, work more hours, and have fewer years of experience.

Table 6. Intent to Continue Providing Direct Patient Care (n = 59,090)

Years	n	%	Mean Age	Mean Years as RN in Direct Patient Care	Hours Worked between Primary and Secondary Job
< 2	4,516	7.6	52.1	22.0	32.5
2 - 4	8,825	14.9	49.7	19.6	33.8
5 – 9	12,357	20.9	48.1	17.8	35.9
10 – 19	15,318	25.9	43.9	14.0	36.3
20 – 29	9,911	16.8	37.8	9.6	36.3
\geq 30 or more	8,163	13.8	31.4	5.3	36.4

Note. Table 6 includes responses to survey questions 20, 21, 29, 30, 45, 46.

Table 7 displays the responses of RNs asked about how long they intend to continue in their current type of employment. The number of nurses intending to continue in their current employment for less than two years is 9,487 (13.2%). Within nine years, over half (56.1%) of RNs could leave their current type of employment. The mean ages of those indicating intent to stay in their current employment less than 10 years ranges from 45.7 to 49.1 years.

Table 7. Intent to Continue in Current Employment (n = 71,664)

Years	n	%	Mean Age	Mean Years as RN in Direct Patient Care	Hours Worked between Primary and Secondary Job
< 2	9,487	13.2	45.7	14.9	33.9
2 – 4	15,631	21.8	45.9	15.0	35.0
5 – 9	15,125	21.1	49.1	17.3	36.8
10 – 19	15,396	21.5	47.1	15.4	37.6
20 – 29	9,365	13.1	39.7	10.6	37.3
≥ 30	6,660	9.3	32.7	6.1	37.1

Note. Table 7 includes responses to survey questions 17, 29, 30, 45, 46.

Specialized Clinical Knowledge Required in Primary Position

Table 8 displays the breadth of clinical specialty knowledge and experience respondents reported was required for their primary position. The areas of expertise most frequently reported by RNs were medical/surgical (30.4%), acute care/critical care/intensive care (24.8%), adult health (19.7%), and geriatrics/gerontology (19.5%). Eight specialty areas were represented by less than 5.0% of the RN workforce. These include: addiction, AODA, and substance abuse (4.2%);

anesthesia (2.4%); correctional health (2.2%); dialysis (4.0%); occupational or employee health (2.7%); parish and faith community (1/1%); public health (4.0%); and school health (2.7%). Certification data can be found in Appendix G.

Table 8. Clinical Specialty Knowledge and Experience (n = 79,750)

	n	%
Current Practice in Primary Position		
Acute care/critical care/intensive care	19,765	24.8
Adult health	15,708	19.7
Addiction/AODA/substance abuse	3,335	4.2
Anesthesia	1,934	2.4
Cardiac care	13,287	16.7
Community health	6,105	7.5
Correctional health	1,724	2.2
Dialysis	3,219	4.0
Emergency care	11,106	13.9
Family health	6,769	8.5
Geriatrics/gerontology	15,584	19.5
Home health	9,102	11.4
Hospice care or palliative care	9,611	12.1
Labor and delivery	5,553	7.0
Maternal and child health	5,349	6.7
Medical-surgical	24,243	30.4
Neonatal care	4,489	5.6
Obstetrics-gynecology	5,715	7.2
Occupational or employee health	2,143	2.7
Oncology	6,192	7.8
Pediatrics	8,628	10.8
Parish or faith community	852	1.1
Psychiatric or mental health	6,515	8.2
Public health	3,226	4.0
Rehabilitation	5,573	7.0
Respiratory care	2,645	3.3
School health	2,136	2.7
Surgery/pre-op/post-op/PACU	11,607	14.6
Women's health	4,914	6.2
Other	12,102	15.2
None of the above	4,614	5.8

Note. More than one response possible. Note. Table 8 includes responses from survey question 14.

Note. Percentages do not total 100 since respondents could select more than one category.

Educational Patterns of RNs in Wisconsin

Academic preparation for RN licensure can be achieved through a number of different educational pathways and degree programs. Table 9 displays the academic backgrounds reported by survey respondents. Most respondents (74.2%) received their most recent degree from a university or college located in Wisconsin.

The highest proportion of RNs reported earning a bachelor's in nursing (BSN, 47.6%) as their highest nursing degree. The remaining RNs reporting a diploma in nursing (5.2%), an associate degree in nursing (ADN, 34.7%), a master's in nursing (MSN, 11.1%), or a doctoral degree in nursing (1.2%) as their highest nursing degree. Of those with a doctoral degree in nursing (1,010), 71.3% have a DNP and 25.6% have a PhD in nursing. Overall, 1.5% of RNs (1,179) reported attaining a doctoral degree in any field.

The proportion of Wisconsin RNs who report attaining a bachelor's or higher degree in nursing was 59.9%. The proportion of Wisconsin RNs who report working as a nurse and attaining a bachelor's degree or higher in nursing was 60.4%, below the IOM (2011) goal of 80% of RNs with a bachelor's degree by 2020 (data not shown).

While most RNs do not plan to pursue further education (68.4%), 21.2% of respondents do plan to pursue further education within the next two years. Of those who are currently enrolled in a certificate or degree program (8,291), most are pursuing a BSN (3,868, 46.7%) or an MSN (2,289, 27.6%). Relatively few RNs reported enrollment in a PhD in nursing program (113, 1.4%) or a PhD in a related field (58, 0.7%).

The respondents reported a number of barriers to pursuing further education. The most frequently selected barriers were cost of tuition and fees (49.6%), family/personal reasons (33.2%), and cost of lost work time and benefits (24.3%). Commuting distance (2.3%) and limited access to online learning or other resources (0.9%) were reported by the fewest RNs as barriers to further education.

Table 9. Educational Preparation for Nursing Practice (n = 79,750)

	n	%
Location of Most Recent Educational Degree		
Wisconsin	59,179	74.2
Not Wisconsin	20,571	25.8
Highest Nursing Degree		
Practical or vocational nursing diploma	108	0.1
Diploma in nursing	4,121	5.2
ADN	27,617	34.7
BSN	37,884	47.6
MSN	8,811	11.1
DNP	720	0.9
DNS ^a or ND ^b	31	0.0
PhD in nursing	259	0.3
Highest Degree Earned		
Practical or vocational nursing diploma	97	0.1
Diploma	3,788	4.7
AD	26,503	33.2
BS	37,932	47.6
MS	10,260	12.9
Doctoral degree, any field	1,179	1.5
Plans for Further Education		
No plans	54,536	68.4
Enrolled in BSN	3,868	4.9
Enrolled in MSN	2,289	2.9
Enrolled in MS in related health field	372	0.5
Enrolled in DNP	885	1.1
Enrolled in PhD in nursing	113	0.1
Enrolled in PhD in related field	58	0.1
Enrolled in non-degree certificate program	706	0.9
Plan to pursue further education with next 2 years	16,923	21.2
Barriers to Pursuing Additional Education*		
Commuting distance	1,804	2.3
Cost of loss of work and benefits	19,381	24.3
Cost of tuition and fees	39,548	49.6
Family or personal reasons	26,449	33.2
Lack of flexibility in work schedule	8,014	10.0
Limited access to online learning or other resources	720	0.9

	n	%
Schedule of educational programs offered	2,030	2.5
None identified	20,698	26.0
Other	5,969	7.5

Note. Table 9 includes responses to questions 4-7.

Attaining graduate education in nursing has benefits to the RN and to society and is required for working in some nursing roles. Table 10 displays the average age of RNs when the first degree in nursing was earned and when subsequent nursing degrees were earned (if any). The largest proportion of RNs who attained a subsequent higher degree started by earning a BSN (42.3%), while the smallest proportion entered via a direct entry master's program (0.8%). The mean age at attainment of the first nursing degree varied by degree type; RNs who entered nursing through diploma (24.1 years) and BSN programs (25.2 years) were younger compared to those entering through associate (30.3 years) or master's level (30.8 years). The time to terminal degree completion was shortest for RNs who entered through direct entry master's programs (DNP in 11.2 years, PhD in 8.3 years), followed by BS (18.4 years to PhD and 13.1 years to DNP) and associate degree (19.2 years to PhD and 15.0 years to DNP). Given the substantial length of time it takes to complete advanced degrees, entry into these programs through BSN and direct entry master's programs and at younger ages could contribute to longer careers in advanced practice, research, or teaching.

Table 10. Mean Age at First Degree in Nursing and at Subsequent Degrees in Nursing (n = 79,750)

	n	%	Vocational Nursing Certificate	Diploma	ADN	BSN	MSN	DNP	PhD
Practical or vocational nursing diploma	9,041	11.3	27.7	30.9	32.6	36.4	41.5	42.5	47.2
Diploma in nursing	7,506	9.4	-	24.1	31.0	34.0	40.6	51.9	48.4
ADN	28,623	35.9	-	-	30.3	36.4	41.1	45.3	49.5
BSN	33,747	42.3	-	-	-	25.2	34.5	38.3	43.6
MSN	624	0.8	-	-	-	-	30.8	39.1	42.0

Note: Table 10 includes responses to survey question 4.

^aDoctor of Nursing Science. ^bNursing doctorate.

^{*}Respondents could check two challenges.

Racial and Ethnic Diversity of RNs in Wisconsin

Table 11 provides an overview of the diversity of the RN workforce in Wisconsin by demographic, educational, and employment characteristics. Less than 10% of RNs in Wisconsin identified as racially or ethnically diverse (7.1%). Of those who identify as racially or ethnically diverse, 28.1% are Hispanic or Latino, 27.7% identify as Black or African American, and 25.1% identify as Asian. A substantially higher proportion of RNs classified as diverse speak at least one language in addition to English (41.5% compared to 7.7% for non-diverse). The mean age of RNs who identified as diverse was 4.1 years less than the non-diverse (White) group.

A few notable differences in types of employment and positions were seen for RNs identifying as diverse compared to those identifying as non-diverse. Higher proportions of RNs classified as diverse reported employment in nursing homes or extended care, community or public health, and home health, and reported working as case managers and staff nurses. Higher proportions of RNs classified as non-diverse worked in ambulatory care settings and held positions as APRNs, nurse executives, and nurse managers. In addition, diverse RNs worked 1.9 hours, on average, more each week (37.8) compared to non-diverse RNs (35.9).

Some differences in educational attainment between diverse and non-diverse groups were identified. Slightly higher proportions of RNs classified as diverse had attained BSN and doctoral degrees, while a higher proportion of non-diverse RNs had achieved a master's degree.

Table 11. Demographics, Principal Place of Work, Position, Education, and Employment Sector Characteristics by Diversity Category (n = 79,750)

	Racia Ethnicall	lly or y Diverse	Non-Rac Ethnically	-
	n	%	n	%
All respondents	5,642	7.1	74,108	92.9
Hispanic or Latino Ethnicity				
Yes	1,587	28.1		
Race				
White	1,010	17.9	74,108	100.0
Black or African American	1,562	27.7		
Asian	1,417	25.1		
Native Hawaiian or Pacific Islander	85	1.5		
American Indian or Alaska Native	303	5.4		
Two or more races	1,265	22.4		
Age				
Mean (SD)	42.6 ((11.7)	46.7 (13.4)
Gender				
Female	5,045	89.4	68,760	92.8
Male	597	10.6	5,348	7.2
Proficient in Another Language				
English only	3,298	58.5	68,426	92.3
1 other language	2,100	37.2	5,153	7.0
2 or more other languages	244	4.3	529	0.7
Principal Place of Work				
Valid responses	4,6	510	61,2	218
Ambulatory care	641	13.9	12,096	19.8
Nursing home or extended care	516	11.2	5,300	8.7
Education	120	2.6	1,725	2.8
Public or community health	243	5.3	2,206	3.6
Home health	332	7.2	3,238	5.3
Hospital	2,432	52.8	31,767	51.9
Other	326	7.1	4,886	8.0
Position or Function at Principal Place of Work				
Valid responses	4,6	510	61,2	218
Administrator	50	1.1	845	1.4
Advanced practice nurse	282	6.1	4,658	7.6
Case manager	461	10.0	5,394	8.8

	Racia Ethnicall		Non-Rac Ethnically		
	n	%	n	%	
Consultant or contract	40	0.9	676	1.1	
Manager, other non-medical	*	*	105	0.2	
Nurse executive	33	0.7	702	1.1	
Nurse faculty	87	1.9	1,072	1.8	
Nurse manager	252	5.5	4,200	6.9	
Nurse researcher	17	0.4	238	0.4	
Staff nurse	3,061	66.4	37,675	61.5	
Staff, other non-medical	12	0.3	167	0.3	
Other	312	6.8	5,486	9.0	
Total Mean Hours/Week Primary/Secondary Posit	ion				
Valid responses	4,6	510	61,218		
Mean (SD)	37.8 ((12.3)	35.9 (11.8)		
Highest Nursing Degree					
Valid responses	5,6	519	73,9	932	
Practical or vocational nursing diploma	*	*	104	0.1	
Diploma in nursing	129	2.3	3,992	5.4	
ADN	1,989	35.4	25,628	34.7	
BSN	2,810	50.0	35,074	47.4	
MSN	575	10.2	8,236	11.1	
DNP	77	1.4	643	0.9	
DNS or ND	*	*	31	0.0	
PhD in nursing	35	0.6	224	0.3	
Highest Degree Earned (% within diverse)					
Valid responses	5,6	42	74,1	108	
Practical or vocational nursing diploma	*	*	94	0.1	
Diploma	124	2.2	3,664	4.9	
AD	1,925	34.1	24,578	33.2	
BS	2,821	50.0	35,102	47.4	
MS	645	11.4	9,615	13.0	
Doctorate, any field	124	2.2	1,055	1.4	

Note. Table 11 includes responses to survey questions 4, 29, 30, 36, 37, 45, 46, 64 - 67. *Too few to report

Comparing 2016 and 2018

- The Wisconsin RN workforce grew by approximately 3,000 RNs between 2016 and 2018.
- Men comprised 7.5% of the RN workforce in 2018, up from 7.1 % in 2016.
- Racial/ethnic diversity increased slightly from 6.2% of the RN workforce in 2016 to 7.1% in 2018.
- The proportion employed as an RN increased from 82.7% in 2016 to 85.4% in 2018.
- The proportion of RNs in Wisconsin with any bachelor's or higher degree remained nearly the same at 60.1% in 2016 and 60.4% in 2018.
- The number of RNs working as faculty decreased from 1,212 (1.9%) in 2016 to 1,159 (-1.8%) in 2018.
- Between 2018 and 2016, the number of RNs with a DNP increased from 422 to 720, a change of 70.6%.
- The number of RNs reporting having obtained a PhD in nursing went up by 8 (251 in 2016 to 259 in 2018).

Table 12 compares the change in educational attainment for diverse and non-diverse RNs in Wisconsin from 2016 to 2018. The numbers of RNs attaining a diploma as the highest degree declined for both groups, likely reflecting aging of the workforce. Attainment of the BSN rose for both groups, while attainment of the ADN rose for diverse RNs and declined for the non-diverse group. Attainment of graduate degrees also increased for both groups, with the exception of the PhD, which declined slightly among the non-diverse group. The direction of change is mostly promising and reflects increasing access to nursing education for and diversity among Wisconsin RNs.

Table 12. 2016 – 2018 Comparison of Educational Attainment by Racial or Ethnic Diversity

		D	iverse		Non-Diverse						
	2016 2018		2018 Difference 2016-2018		2016	2018	Difference 2016-2018	Change 2016- 2018			
	n	n	n	%	n	n	n	%			
Highest Nursi	ng Degree										
Diploma	133	129	- 4	- 3.0	4,948	3,992	- 956	- 23.9			
ADN	1,761	1,989	228	12.9	25,646	25,628	- 18	- 0.1			
BSN	2,341	2,810	469	20.0	33,093	35,074	1,981	5.6			
MSN	484	575	91	18.8	7,389	8,236	847	10.3			
DNP	28	77	49	175.0	394	643	249	63.2			
PhD in nursing	24	35	11	45.8	227	224	- 3	- 1.3			

Note. Table 12 includes responses to survey questions 4, 65, 66.

Discussion and Recommendations

The size and diversity of the Wisconsin RN workforce is increasing, and the average age of RNs is decreasing. These findings are encouraging and may reflect ongoing efforts in the state to increase the number and diversity of graduates from nursing programs. Despite these gains, the diversity of Wisconsin's RN workforce still lags well behind the U.S. nursing workforce and national benchmarks (Buerhaus, Skinner, Auerbach & Staiger, 2017; NACNEP, 2013; Smiley et al., 2018). Based on the 2017 national nursing workforce survey, men comprise 9.1% of the U.S. nursing workforce (Smiley et al., 2018), and in this study, Wisconsin men comprise 7.2% of the Wisconsin RN workforce. Racial and ethnic diversity was reported nationally by 19.3% of nurses, while in Wisconsin racial and ethnic diversity was reported by only 7.1% of nurses (Smiley et al., 2018). Only 2.0% of nurses in Wisconsin reported Hispanic or Latino ethnicity, which is less than the 5.3% reported for Hispanics or Latino ethnicity nationally (Smiley et al., 2018).

Over half of RNs reported they intend to continue in their current type of employment for less than 10 years. In addition, the data suggest that RNs leave nursing positions or transition to other types of work before they reach retirement age. Given the physically demanding nature of direct care nursing and the contribution that experienced nurses bring to clinical care, it is important to consider how these factors may affect the RN workforce in the future. The proportion of Wisconsin RNs who maintain their RN license but are not working due to retirement (4.5%) is

lower than for RNs in the United States (10.3%). This may indicate that nurses in Wisconsin are working for more years beyond retirement age than in other states or that more nurses in other states choose to maintain their RN license after retirement.

Employment patterns of RNs in Wisconsin are similar to those across the United States. Most RNs are employed as a nurse (Wisconsin 85.4%, U.S. 84.5%) and in a hospital setting (Wisconsin 52.0%, U.S. 55.7%) where they work as a staff nurse (Wisconsin 69.1%, U.S. 58.1%). Wisconsin has experienced declines in numbers of RNs in nursing home or extended care, home health, and public or community health. These changes are concerning given shorter lengths of hospital stays, increases in the aging population, and a growing interest in aging in place.

All states are making progress toward the 80% benchmark for RNs with a bachelor or higher degree, as the national average has reached 64.2% (Smiley et al., 2018). Even though the percentage of nurses with a bachelor or higher degree in nursing is increasing (60.1% in 2016 to 60.4% in 2018), Wisconsin still lags the national average and goal. Although the numbers of RNs who reported having a DNP have increased substantially, only eight more RNs reported having a PhD and five more reported enrollment in a PhD program in 2018 compared to 2016. In contrast, 298 additional RNs reported having a DNP in 2018 compared to 2016, and 171 reported they were enrolled in a DNP program. Wisconsin seems to be reflecting the nation, where attainment of a DNP is rising and the numbers of RNs earning a PhD in nursing is decreasing (Smiley et al., 2018).

State and federal funding is needed to invest in nursing program expansion to increase the number of bachelor-prepared nurses. Innovative recruitment strategies could help increase the racial, ethnic, and gender diversity of the workforce. Financial incentives, like loan forgiveness or funding support, are needed to increase the number of RNs with doctoral preparation in nursing.

Section III. Geographic Distribution of Wisconsin RNs

In this section, the characteristics of the Wisconsin RN workforce data are presented by DHS region and by rural-urban status (see Appendix H for map and listing of DHS regions). Tables in this section include only subsets of survey respondents who reported county of residence or county of employment, as this information was necessary for analyses of the data by geographic distribution. These findings may be useful in tailoring initiatives to meet regional workforce needs.

Wisconsin RN Workforce by DHS Region

Table 13 displays demographic information by state and DHS region in which the RN resides. Characteristics across regions were generally similar to the state. The mean age of nurses in the state was 46.4 years; however, in the Northern region, the mean age of RNs was slightly higher at 47.5 years. The gender diversity in nursing varied from a low of 6.6% men in the Northeastern region to a high of 8.5% in the Northern region. RNs from the Southern and Southeast regions have greater racial, ethnic, and linguistic diversity than the other regions of the state, which may reflect differences in regional population demographics.

Table 13. Demographic Information for RNs by DHS Region of Residence

	State		South		Southea		Northea		West	tern	Nortl	hern
	n = 77	,111	n = 15,662		n = 29		n = 15	,563	n = 9	,678	n=6	,777
	n	%	n	%	n	%	n	%	n	%	n	%
Mean age (years)	46.	4	46.2	2	46.	5	46.	0	46	.6	47	.5
Gender												
Female	71,439	92.6	14,410	92.2	27,382	92.9	14,536	93.4	8,910	92.1	6,201	91.5
Male	5,672	7.4	1,212	7.8	2,089	7.1	1,027	6.6	768	7.9	576	8.5
Diversity												
White	70,594	94.9	14,397	96.0	26,078	91.7	14,536	97.1	9,107	97.8	6,476	97.5
Black/ African American	1,504	2.0	180	1.2	1,237	4.2	48	0.3	24	0.2	15	0.2
American Indian/ Alaska Native	293	0.4	29	0.2	87	0.3	96	0.6	35	0.4	46	0.7
Asian	1,369	1.8	331	2.1	672	2.3	201	1.3	84	0.9	81	1.2
Native Hawaiian/ Other Pacific Islander	82	0.1	15	0.1	37	0.1	13	0.1	9	0.1	8	0.1
Multiracial	1,210	1.6	216	1.4	639	2.2	171	1.1	116	1.2	68	1.0
Hispanic Origin	1,528	2.0	234	1.5	976	3.3	171	1.1	76	0.8	71	1.0
Language Pro	oficiency											
English language only	69,370	90.0	13,937	89.2	25,806	87.6	14,337	92.1	8,996	93.0	6,294	92.9
One other language	7,004	9.1	1,486	9.5	3,344	11.3	1,128	7.2	617	6.4	429	6.3
Two or more other languages	737	1.0	199	1.3	321	1.1	98	0.6	65	0.7	54	0.8

Note. Table 13 includes survey questions 11, 27, 63 – 69.

Employment Status of RNs Residing in Wisconsin DHS Regions

Table 14 describes the employment characteristics of RNs in each of the five DHS regions. The percentage of nurses per region working as a nurse ranged from 83.7% in the Northern region to 86.6% in the Western region. The Southern and Southeastern regions have the most RNs per 1,000 residents (11.8) and the Northeastern region has the fewest (10.5 RNs per 1,000 residents, U.S. Census Bureau, 2017). See Appendix I for more information on the number of working RNs per 1,000 population by county.

The percentage of RNs providing direct care ranged from 77.3% in the Northern region to 79.8% in the Southern region. Most RNs were employed in a hospital (range 44.5% Northern to 56.4% Southeastern), worked as a staff nurse (range 60.0% Northern to 64.7% Southern), and were paid hourly (range 66.4% Southeastern to 71.1% Southern). The percentage of nurses paid per diem was similar across regions, with a range of 3.2% to 3.6%. The proportion of nurses reporting volunteering work hours was similar across regions and ranged from 1.0% to 1.4%. Total mean hours worked per week in primary and secondary positions ranged from 35.4 to 36.9 hours.

Regional variations in principal place of work were noted. Respondents who indicated extended care as their principal place of work ranged from 6.7% in the Southern region to 11.6% in the Western region. Hospitals as the primary place of work was indicated by a low of 44.5% in the Northern region and a high 56.4% Southeastern region.

Table 14. Employment Characteristics of RNs by DHS Region of Employment

	Star $n = 77$		South $n = 15$		Southea $n = 29$		Northea $n = 15$		West $n = 9$			hern 5,777		
	n - 77	<u>%</u>	n-13	,002 %	$\frac{n-29}{n}$,4/1 %	$\frac{n-13}{n}$	<u>,505</u>	$\frac{n-9}{n}$	<u>%</u>	$\frac{n-0}{n}$	<u>%</u>		
Employed nurses per 1,000 population in primary employment	11.3		nployed rses per 100 pulation in mary		11.		11.		10.		10			1.4
Employed as a nurse	65,557	85.0	13,438	86.0	24,923	84.6	13,147	84.5	8,379	86.6	5,670	83.7		
Currently employed as a nurse providing direct patient care	49,535	78.4	10,349	79.8	18,670	78.1	10,018	78.5	6,270	77.4	4,228	77.3		
Mean years (SD) providing direct patient care as a nurse	15.1 (11.9)		15.2 (1	12.0)	0) 15.1 (12.0)		15.0 (11.7)		15.2 (12.0)		15.4 (11.8)			
Principal Place	e of Worl	ζ.												
Ambulatory care	12,238	19.4	2,569	19.8	4,204	17.6	2,729	21.4	1,475	18.2	1,261	23.0		
Nursing home or extended care	5,584	8.8	1,119	8.6	1,595	6.7	1,361	10.7	941	11.6	568	10.4		
Academia	1,746	2.8	348	2.7	666	2.8	356	2.8	237	2.9	139	2.5		
Public health or community health	2,383	3.8	467	3.6	915	3.8	452	3.5	324	4.0	225	4.1		
Home health	3,377	5.3	673	5.2	1,250	5.2	758	5.9	396	4.9	300	5.5		
Hospital	32,868	52.0	6,899	53.2	13,477	56.4	5,998	47.0	4,060	50.1	2,434	44.5		
Other	4,993	7.9	887	6.8	1,785	7.5	1,107	8.7	669	8.3	545	10.0		
Position or Fu	nction at	Princip	oal Place	of Wor	$\mathbf{k} \; (n = 63)$,189)								
	Star $n = 63$		South $n = 12$		Southean $n = 23$		Northeastern $n = 12,761$		West $n = 8$			thern 5,472		
Administrator	847	1.3	164	1.3	326	1.4	178	1.4	95	1.2	59	1.1		
Advanced practice nurse	4,638	7.3	873	6.7	1,771	7.4	1,008	7.9	587	7.2	399	7.3		
Case manager	5,622	8.9	1,076	8.3	2,159	9.0	1,103	8.6	737	9.1	547	10.0		
Consultant or contractor	677	1.1	141	1.1	255	1.1	126	1.0	96	1.2	59	1.1		

	n	%	n	%	n	%	n	%	n	%	n	%
Nurse executive	695	1.1	130	1.0	243	1.0	137	1.1	108	1.3	71	1.3
Nurse faculty	1,103	1.7	190	1.5	428	1.8	247	1.9	151	1.9	87	1.6
Nurse manager	4,289	6.8	868	6.7	1,433	6.0	951	7.5	682	8.4	355	6.5
Nurse researcher	247	0.4	62	0.5	128	0.5	32	0.3	15	0.2	10	0.2
Staff nurse	39,208	62.0	8,391	64.7	14,884	62.3	7,753	60.8	4,896	60.4	3,284	60.0
Staff, other non-medical industry	177	0.3	28	0.2	59	0.2	47	0.4	23	0.3	20	0.4
Manager, other non- medical	104	0.2	20	0.2	34	0.1	25	0.2	13	0.2	12	0.2
Other	5,582	8.8	1,019	7.9	2,172	9.1	1,154	9.0	706	8.7	531	9.7
Payment Basis	of Positi	on at P	rincipal	Place of	f Work							
Hourly	43,283	68.5	9,213	71.1	15,867	66.4	8,898	69.7	5,597	69.1	3,708	67.8
Salary	17,043	26.9	3,187	24.6	6,947	29.1	3,292	25.8	2,103	25.9	1,514	27.7
Per diem	2,108	3.3	412	3.2	785	3.3	425	3.3	292	3.6	194	3.5
Volunteer	755	1.2	150	1.2	293	1.2	146	1.1	110	1.4	56	1.0
Total mean hours worked per week, primary and secondary jobs	36.0		36.	0	36.	2	35.	5	35	.4	36	5.9
Primary employment through temporary employment agency or travel agency Note. Table 14 inc	971	1.5	157	1.2	395	1.6	209	1.6	99	1.2	111	1.2

Patterns of Employment in Nursing

Table 15 describes the employment status of nurses in each DHS region. The proportion of respondents reporting employment as a nurse was similar across regions, with a range of 83.7% in the Northern region to 86.0% in the Southern region. Employment in health care but not as a nurse ranged from 2.3% to 3.2%. There is little variability across regions in the total number of RNs who reported they were not working at the time of licensure renewal. The Southeastern region had the greatest percentage of unemployed RNs who were seeking work either in health care (1.5%) or another field (0.7%). The percentage of nurses reporting being retired ranged from 6.5% in the Western region to 7.9% in the Northern region.

Table 15. Employment Status in Nursing by DHS Region of Residence

	State $n = 77$		South <i>n</i> = 15	-	Southea $n = 29$		Norther <i>n</i> = 15		West $n = 9$,		Nort <i>n</i> = 6	_
	n	%	n	%	n	%	n	%	n	%	n	%
Employed												
Employed as a nurse	65,557	85.0	13,438	86.0	24,923	84.6	13,147	84.5	8,379	86.6	5,670	83.7
Employed in health care, not as a nurse	2,072	2.7	359	2.3	849	2.9	442	2.8	207	2.1	215	3.2
Employed in another field	1,100	1.4	187	1.2	424	1.4	251	1.6	120	1.2	118	1.7
Unemployed												
Retired	5,422	7.0	1,138	7.3	2,040	6.9	1,080	6.9	627	6.5	537	7.9
Unemployed, seeking work in nursing	988	1.3	184	1.2	438	1.5	185	1.2	106	1.1	75	1.1
Unemployed, seeking work in another field	130	0.2	17	0.1	60	0.2	30	0.2	11	0.1	12	0.2
Unemployed, not seeking employment	1,842	2.4	299	1.9	737	2.5	428	2.8	228	2.4	150	2.2

Note. Table 15 includes responses to survey questions 11, 69.

Note. Percentages are based on the valid responses in the category and may vary between categories.

Table 16 displays the responses by region to a survey question that asked respondents to choose a category that best described their jobs at their primary place of work. The majority of respondents in all regions categorized their jobs as "nursing."

Table 16. Description of Position at Principal Place of Work by DHS Region of Residence

	Star $n = 63$		South <i>n</i> = 12		Souther $n = 23$		Norther $n = 12$		West $n = 8$,		North $n = 5$	
	n	%	n	%	n	%	n	%	n	%	n	%
Nursing	55,243	87.4	11,507	88.8	20,833	87.2	11,077	86.6	7,127	88.0	4,699	85.9
Nurse educator	2,542	4.0	475	3.7	1,000	4.2	535	4.2	313	3.9	219	4.0
Retail sales and services	57	0.1	*	*	29	0.1	8	0.1	8	0.1	7	0.1
Health- related services outside of nursing	1,535	2.4	278	2.1	581	2.4	338	2.6	185	2.3	153	2.8
Financial, accounting, and insurance processing	419	0.7	79	0.6	151	0.6	91	0.7	37	0.5	61	1.1
Consulting	578	0.9	114	0.9	239	1.0	101	0.8	74	0.9	50	0.9
Other	2,815	4.5	504	3.91	1,059	4.4	611	4.8	358	4.4	283	5.2

Note. Table 16 includes responses to survey questions 23, 26.

^{*}Too few to report.

Specialized Clinical Knowledge

Table 17 provides an overview of areas for which RNs in each DHS region reported either specialized clinical knowledge or significant experience (defined as two or more years). Variation in reported clinical expertise across regions may reflect concentrations of health care facilities and the range of health services available in each region.

Table 17. Areas of Specialized Clinical Knowledge and Experience by DHS Region of Residence

	Stat $n = 77$		Soutl <i>n</i> = 15		Southe $n = 29$		Northe <i>n</i> = 15		West <i>n</i> = 9,		Nort <i>n</i> = 6	
	n	%	n	%	n	%	n	%	n	%	n	%
Acute/ critical/ intensive care	19,098	24.8	3,836	24.6	7,923	26.9	3,343	21.5	2,188	22.6	1,808	26.7
Addiction/ AODA/ substance abuse	3,223	4.2	575	3.7	1,314	4.5	589	3.8	436	4.5	309	4.6
Adult health	15,170	19.7	3,201	20.5	5,799	19.7	3,038	19.5	1,815	18.8	1,317	19.4
Anesthesia	1,821	2.4	377	2.4	583	2.0	369	2.4	276	2.9	216	3.2
Cardiac	12,849	16.7	2,342	15.0	5,335	18.1	2,539	16.3	1,482	15.3	1,151	17.0
Community health	5,781	7.5	1,100	7.0	2,255	7.7	1,105	7.1	788	8.1	533	7.9
Correctional health	1,671	2.2	426	2.7	485	1.6	466	3.0	180	1.9	114	1.7
Dialysis	3,103	4.0	556	3.6	1,293	4.4	614	3.9	354	3.7	286	4.2
Emergency care	10,682	13.9	2,222	14.2	3,657	12.4	2,058	13.2	1,680	17.4	1,065	15.7
Family health	6,531	8.5	1,392	8.9	2,098	7.1	1,458	9.4	917	9.5	666	9.8
Geriatrics or gerontology	15,061	19.5	3,079	19.7	4,886	16.6	3,314	21.3	2,210	22.8	1,572	23.2
Home health	8,783	11.4	1,658	10.6	3,346	11.4	1,844	11.8	1,159	12.0	776	11.5
Hospice or palliative care	9,271	12.0	1,897	12.1	3,310	11.2	1,996	12.8	1,255	13.0	813	12.0
Labor and delivery	5,346	6.9	1,058	6.8	1,634	5.5	1,268	8.1	873	9.0	513	7.6
Maternal-child health	5,161	6.7	1,063	6.8	1,805	6.1	1,173	7.5	687	7.2	423	6.2
Medical- surgical	23,476	30.4	4,752	30.4	8,642	29.3	4,747	30.5	3,169	32.7	2,166	32.0
Neonatal	4,331	5.6	803	5.1	1,774	6.0	898	5.8	504	5.2	352	5.2
Obstetrics- gynecology	5,525	7.2	1,167	7.5	1,861	6.3	1,248	8.0	767	7.9	482	7.1

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	Stat $n = 77$	-	Soutl <i>n</i> = 15		Southe $n = 29$		Northe <i>n</i> = 15		West $n = 9$,	-	North $n = 6$	-
	n	%	n	%	n	%	n	%	n	%	n	%
Occupational or employee health	2,071	2.7	354	2.3	666	2.3	566	3.6	234	2.4	251	3.7
Oncology	5,993	7.8	1,142	7.3	2,542	8.6	1,235	7.9	601	6.2	473	7.0
Pediatrics	8,315	10.8	1,789	11.5	3,443	11.7	1,444	9.3	883	9.1	756	11.2
Parish or faith community	829	1.1	150	1.0	342	1.1	193	1.2	86	0.9	76	1.1
Psychiatric or mental health	6,311	8.2	1,243	8.0	2,374	8.1	1,333	8.6	893	9.2	468	6.9
Public health	3,106	4.0	624	4.0	1,069	3.6	606	3.9	501	5.2	306	4.5
Rehabilitation	5,399	7.0	884	5.7	2,144	7.3	1,223	7.9	678	7.0	470	6.9
Respiratory care	2,564	3.3	575	3.7	1,019	3.5	424	2.7	322	3.3	224	3.3
School health	2,040	2.6	451	2.9	762	2.6	388	2.5	260	2.7	179	2.6
Surgery/pre- op/post-op/ PACU	11,274	14.6	2,284	14.6	4,069	13.8	2,394	15.4	1,427	14.7	1,100	16.2
Women's health	4,761	6.2	894	5.7	1,878	6.4	1,070	6.9	593	6.1	326	4.8
Other	11,720	15.2	2,339	15.0	4,588	15.6	2,319	14.9	1,424	14.7	1,050	15.5

Note. Table 17 includes responses to survey questions 14, 69. Note. Respondents could select more than one category.

Employment Status Change

Table 18 describes changes in employment status reported by respondents in the past year by DHS region. The most common type of employment status change across all regions was taking a new position with a new employer. The proportion of respondents reporting this change ranged from a low of 9.2% in the Southern region to a high of 11.2% in the Northern region. Across regions, the proportion of nurses who reported no longer working as a nurse was similar to the state (2.5%).

Table 18. Employment Status Change of RNs by DHS Region of Residence

	Stat $n = 77$		South $n = 15$		Southean $n = 29$		Norther $n = 15$		West $n = 9$,		North $n = 6$	
	n	%	n	%	n	%	n	%	n	%	n	%
No change	53,691	69.9	10,928	70.0	20,535	69.7	10,921	70.2	6,718	69.4	4,589	67.7
Changed number of hours worked	5,502	7.1	1,132	7.2	2,094	7.1	1,102	7.1	731	7.6	443	6.5
New position with same employer	5,471	7.1	1,103	7.1	2,117	7.2	1,067	6.9	668	6.9	516	7.6
New position with different employer	7,447	9.7	1,444	9.2	2,783	9.4	1,503	9.7	961	9.9	756	11.2
Working as nurse, previous employment not as nurse	1,523	2.0	338	2.2	584	2.0	287	1.8	186	1.9	128	1.9
No longer employed as nurse	1,918	2.5	384	2.5	716	2.4	386	2.5	243	2.5	189	2.8
Other	1,559	2.0	293	1.9	642	2.2	297	1.9	171	1.8	156	2.3

Note. Table 18 includes responses to survey questions 12, 69.

Table 19 describes the factors RNs cited that were most important in their change in employment by DHS region. The three most common reasons for an employment change across regions in the past year include promotion or career advancement, followed by dissatisfaction with previous position and seeking more convenient hours. Some regional differences were noted. RNs in the Southeastern reported dissatisfaction with prior employment (15.2%) more than RNs from other regions. In addition, more RNs in the Southern (8.1%) and Southeastern (8.0%) regions cited childcare responsibilities. In the Northeastern region, promotion or career advancement (16.4%) and retirement (11.4%) were reported more frequently than in other regions.

Table 19. Important Factors in Employment Change in the Past Year by DHS Region of Residence

	Sta	te	Sout	hern	Southe	eastern	North	eastern	Wes	tern	Nort	thern
	n = 25	,755	n=5	5,082	n = 9	,912	n = 3	5,133	n=3	,207	n=2	2,421
	n	%	n	%	n	%	n	%	n	%	n	%
Retirement	2,566	10.0	517	10.2	959	9.7	499	9.7	316	9.9	275	11.4
Childcare responsibilities	1,935	7.5	411	8.1	794	8.0	374	7.3	194	6.0	162	6.7
Other family responsibilities	1,315	5.1	253	5.0	507	5.1	266	5.2	180	5.6	109	4.5
Salary, medical, or retirement benefits	2,099	8.1	391	7.7	811	8.2	401	7.8	300	9.4	196	8.1
Laid off	380	1.5	55	1.1	173	1.7	80	1.6	45	1.4	27	1.1
Change in spouse or partner work situation	508	2.0	102	2.0	209	2.1	98	1.9	76	2.4	23	1.0
Change in financial situation	597	2.3	100	2.0	241	2.4	120	2.3	85	2.7	51	2.1
Relocation or moved to another area	1,531	5.9	377	7.4	467	4.7	307	6.0	211	6.6	169	7.0
Promotion or career advancement	3,962	15.4	737	14.5	1,550	15.6	844	16.4	463	14.4	368	15.2
Change in health status of RN	976	3.8	185	3.6	378	3.8	201	3.9	125	3.9	87	3.6
Seeking more convenient hours	3,130	12.2	633	12.5	1,146	11.6	643	12.5	398	12.4	310	12.8
Dissatisfaction with previous position	3,648	14.2	701	13.8	1,506	15.2	680	13.2	422	13.2	339	14.0
Other	3,108	12.1	620	12.2	1,171	11.8	620	12.1	392	12.2	305	12.6

Note. Table 19 includes responses to survey questions 13, 69.

Secondary Employment

The survey asked RNs to identify whether or not they have a secondary place of work, and if yes, the survey asked for more information about the secondary place of work. Table 20 shows patterns of employment in secondary positions by DHS region. Across all regions, the majority of nurses who worked a secondary position require an RN license for that position. The greatest percentage of those who work a secondary position worked in nursing education or a health-related field outside of nursing. Regional differences may reflect variations in local economies. For example, more RNs in the Southeastern region reported work as a nurse educator (10.3%), an area with greater density of nursing schools than other areas of the state, and RNs in the Northern region reported greater secondary employment in health-related services outside of nursing (8.1%), an area with few and more geographically distant tertiary care centers. The mean number of hours worked in the secondary position was similar to the state and ranged from 8.2 hours to 8.7 hours.

Table 20. Description of Position at Secondary Place of Work by DHS Region of Residence

	Sta $n = 9$,		Sout $n=1$		Souther $n=3$	eastern 3,567		eastern 1,840	West $n=1$			thern 827
	n	%	n	%	n	%	n	%	n	%	n	%
Secondary job requires RN licensure	7,695	81.7	1,527	80.9	2,987	83.7	1,472	80.0	1,046	81.0	663	80.2
Nursing	6,761	71.8	1,360	72.0	2,540	71.2	1,304	70.9	965	74.7	592	71.6
Nurse educator	818	8.7	155	8.2	367	10.3	151	8.2	91	7.0	54	6.5
Retail sales and services	103	1.1	29	1.5	31	0.9	24	1.3	13	1.0	6	0.7
Health-related services outside of nursing	596	6.3	114	6.0	209	5.9	120	6.5	86	6.7	67	8.1
Financial, accounting, and insurance processing staff	29	0.3	6	0.3	9	0.3	9	0.5	*	*	*	*
Consulting	184	9.8	35	1.9	80	2.2	34	1.8	23	1.8	12	1.5
Other	923	9.8	189	10.0	331	9.3	198	10.8	112	8.7	93	11.2
Mean number of hours worked per week (SD)	8.0 (8	8.5)	8.0 (8.2)	8.4 ((8.7)	7.8 ((8.6)	7.6 (8.6)	8.0	(8.6)

Note. Table 20 includes responses from survey questions 40 - 42, 44 - 46, 69.

^{*}Too few to report.

Employment Intentions

Table 21 shows the employment intentions of RNs who reported they were not working at the time of license renewal overall and by DHS region. Half of unemployed RNs in all regions were uncertain whether they would return to nursing. Across regions, the highest proportion of unemployed RNs seeking employment in nursing was in the Southeastern region (16.3%). Higher proportions of RNs in this same region also reported they were not retired and would not return to nursing (5.4%). Greater proportions of nurses from the Northern (23.0%) and Northeastern (23.1%) regions reported being either retired or unable to return to nursing compared to other regions. Variations in responses may reflect differences in regional or local economies, opportunities for employment, or demographic differences in RNs by region.

Table 21. Employment Intentions of Unemployed RNs by DHS Region of Residence

	Sta $n = 13$		South $n=2$		Souther $n = 5$	eastern 5,579		eastern 2,802	Wess $n = 1$			thern 1,305
	n	%	n	%	n	%	n	%	n	%	n	%
Currently seeking employment in nursing	2,074	14.9	376	14.1	912	16.3	365	13.0	248	15.7	173	13.3
Plan to return to nursing in the future	1,286	9.2	212	8.0	539	9.7	267	9.5	143	9.1	125	9.6
Retired or unable to return to nursing	3,006	21.6	602	22.6	1,147	20.6	647	23.1	310	19.7	300	23.0
Definitely will not return to nursing, but not retired	698	5.0	131	4.9	300	5.4	148	5.3	64	4.1	55	4.2
Undecided at this time	6,858	49.3	1,339	50.3	2,681	48.1	1,375	49.1	811	51.5	652	50.0

Note. Table 21 includes responses to survey questions 61, 69.

Table 22 shows the factors by DHS region that RNs reported would influence their return to nursing. Similarities across regions emerged, such as the need for affordable childcare at or near work, improved health benefits, and worksite location. The Western region reported the lowest proportion of RNs who would not consider a return to nursing (15.6%). Higher proportions of RNs in the Northern region cited modified physical job requirements (11.3%), improved health status (7.5%), and retirement benefits (9.4%) compared to other regions. A higher proportion of RNs in the Southeastern region cited the work environment (23.2%) as a factor that would influence a return to nursing. The greatest variability in factors cited across regions was seen in more or flexible hours (ranging from 23.1% in the Southern region to 26.0% in the Southeastern region), and improved pay (ranging from 17.4% in the Western region to 22.5% in the Southern region). Of note, nearly 30% of RNs across all regions selected *other* as a factor that would influence a return to nursing. Additional information would be useful to better understand those other factors that prompt RNs to return to the nursing workforce.

Table 22. Factors Influencing a Return to Nursing by DHS Region of Residence

	Sta $n = 13$			hern 2,660		eastern 4,589		eastern 2,268	Wes $n=1$			thern 1,305
	n	%	n	%	n	%	n	%	n	%	n	%
Would not consider returning to nursing	2,520	18.1	511	19.2	990	17.7	534	19.1	246	15.6	239	18.3
Modified physical job requirements	1,444	10.4	243	9.1	601	10.8	290	10.3	162	10.3	148	11.3
Affordable childcare at or near work	495	3.6	98	3.7	198	3.5	99	3.5	54	3.4	46	3.5
Improvement in health status	996	7.2	190	7.1	400	7.2	190	6.8	118	7.5	98	7.5
Improved health benefits	1,174	8.4	223	8.4	492	8.8	229	8.2	114	7.2	116	8.9
Retirement benefits	1,144	8.2	220	8.3	472	8.5	200	7.1	129	8.2	123	9.4
More or flexible hours	3,435	24.7	615	23.1	1,451	26.0	714	25.5	345	21.9	310	23.8
Opportunity for career advancement	1,076	7.7	197	7.4	478	8.6	186	6.6	111	7.0	104	8.0
Improved pay	2,815	20.2	488	18.3	1,253	22.5	543	19.4	274	17.4	257	19.7
Shift	2,074	14.9	371	13.9	866	15.5	438	15.6	234	14.8	165	12.6
Work environment	3,120	22.4	586	22.0	1,293	23.2	619	22.1	324	20.6	298	22.8
Worksite location	2,093	15.0	377	14.2	876	15.7	414	14.8	233	14.8	193	14.8
Other	4,156	29.9	782	29.4	1,608	28.8	852	30.4	506	32.1	408	31.3

Note. Table 22 includes responses from survey questions 62, 69.

Note. Respondents could choose two selections.

Future Employment Plans

Table 23 displays the intent of respondents to continue providing direct patient care in each DHS region. Slightly over 20% of the nursing workforce in every region intends to continue providing direct patient care for less than five years, and more than 40% for less than 10 years. Variation between regions may reflect differences in age distribution of RNs.

Table 23. Intent to Continue Providing Direct Patient Care by DHS Region of Residence

Years	Sta $n = 56$		South <i>n</i> = 11		Souther $n = 21$		North <i>n</i> = 1		Wes $n = 7$		North <i>n</i> = 4,	
	n	%	n	%	n	%	n	%	n	%	n	%
< 2	4,350	7.6	888	7.6	1,712	7.9	773	6.8	576	7.9	401	8.2
2 – 4	8,471	14.9	1,719	14.6	3,456	16.0	1,570	13.8	1,028	14.1	698	14.2
5 – 9	11,894	20.9	2,448	20.8	4,715	21.9	2,284	20.0	1,435	19.7	1,012	20.6
10 – 19	14,709	25.9	3,067	26.1	5,579	25.9	2,905	25.5	1,859	25.6	1,299	26.5
20 – 29	9,554	16.8	2,064	17.6	3,323	15.4	2,029	17.8	1,294	17.8	844	17.2
≥ 30	7,896	13.9	1,569	13.3	2,759	12.8	1,834	16.1	1,080	14.9	654	13.3

Note. Table 23 includes responses to survey questions 21, 26, 27.

Educational Preparation of RNs in Wisconsin by Region

Table 24 provides an overview of the educational preparation for nursing practice by DHS region where the respondent resides. Higher proportions of RNs in the Western (43.4%) and Northern (47.3%) regions have associate degrees compared to other regions. The Southeastern region has the highest proportion of RNs with bachelors' degrees (52.5%), followed by the Southern region (49.7%). The Southeastern region also had the highest proportion of nurses with a nursing bachelor degree or higher (65.4%). All regions remain well below the national targeted goal of 80% bachelor or higher nursing prepared RNs by 2020 (IOM, 2010).

Table 24. Highest Nursing Degree by DHS Region of Residence

	Stat $n = 76$		Sout l <i>n</i> = 15		Southea $n = 29$			eastern 5,524	West $n = 9$		Nort <i>n</i> = 6	hern 5,768
	n	%	n	%	n	%	n	%	n	%	n	%
Practical or vocational nursing diploma	104	0.1	27	0.2	22	0.1	21	0.1	27	0.3	7	0.1
Diploma in nursing	4,001	5.2	778	5.0	1,588	5.4	808	5.2	426	4.4	401	5.9
ADN	26,679	34.7	5,050	32.4	8,556	29.1	5,677	36.6	4,195	43.4	3,201	47.3
BSN	36,787	47.8	7,754	49.7	15,427	52.5	7,210	46.4	3,943	40.8	2,453	36.2
MSN	8,399	10.9	1,743	11.2	3,415	11.6	1,650	10.6	941	9.7	650	9.5
DNP	675	0.9	166	1.1	247	0.8	117	0.8	97	1.0	48	0.7
PhD in nursing	247	0.3	57	0.4	120	0.4	39	0.3	27	0.3	*	*
Total BSN or higher degree in nursing	46,108	57.7	9,720	62.4	19,209	65.4	9,016	58.1	5,008	51.8	3,155	46.6

Note. Table 24 includes responses from survey questions 4, 26 27.

^{*}Too few to report.

Future Educational Plans

Table 25 describes respondents' future educational plans in each DHS region. The majority of RNs in every region reported having no plans for further education, ranging from 67.4% in the Western region to 70.3% in the Northern region. Less than 22% of RNs in the state reported an intent to pursue further education in the next two years. The Northern region has the largest proportion of nurses enrolled in a bachelor's in nursing program (6.2%), and the Southeastern region has the largest proportion enrolled in a master's in nursing program (3.7%). Small numbers of nurses are enrolled in doctoral programs, with the lowest enrollment in the Northern region.

Table 25. Plans for Further Education in Nursing by DHS Region of Residence

	Star $n = 77$		South <i>n</i> = 15		Southea $n = 29$		Northe <i>n</i> = 15		West $n = 9$		Nort <i>n</i> = 6	
	n	%	n	%	n	%	n	%	n	%	n	%
No plans	52,903	68.6	10,819	69.2	19,950	67.7	10,853	69.7	6,519	67.4	4,762	70.3
Enrolled in BSN program	3,723	4.8	668	4.3	1,210	4.1	961	6.2	595	6.1	289	4.3
Enrolled in MSN program	2,201	2.9	340	2.2	1,095	3.7	417	2.7	212	2.2	137	2.0
Enrolled in MS degree program in a related field	356	0.5	63	0.4	147	0.5	60	0.4	58	0.6	28	0.4
Enrolled in DNP program	825	1.1	224	1.4	294	1.0	123	0.8	131	1.4	53	0.8
Enrolled in a nursing PhD program	110	0.1	31	0.2	50	0.2	17	0.1	6	0.1	6	0.1
Enrolled in a PhD program in a related field	54	0.1	10	0.1	25	0.1	11	0.1	*	*	*	*
Enrolled in a non-degree specialty certification program	672	0.9	148	0.9	277	0.9	124	0.8	62	0.6	61	0.9
Plan to pursue further nursing education in the next 2 years	16,267	21.1	3,319	21.2	6,423	21.8	2,997	19.3	2,090	21.6	1,438	21.2

Note. Table 25 includes responses to survey questions 6, 26, 27.

^{*}Too few to report.

Challenges to Further Education

Table 26 provides an overview of the barriers RNs in each region identified to pursuing further education. At least a quarter of respondents in all regions reported no barriers to pursuing further education. Some regional variation in responses was noted. Commuting distance, cost of tuition/fees/materials, and access to online learning appeared to be less frequent barriers for RNs in the Southeastern region compared to other regions. Conversely, these same barriers were identified by a larger proportion of RNs in the Northern region. Across all regions, cost of lost work and benefits and family or personal reasons were the most commonly reported barriers to further education. With the exception of the Southeastern region, the largest proportions of RNs (nearly half) in all other regions reported that cost of tuition, fees, and materials was a challenge to pursuing higher nursing education.

Table 26. Challenges to Pursuing Additional Education by DHS Region of Residence

	State n = 77,111			hern 5,622	Southe $n = 29$			eastern 5,563	Wes $n = 9$			thern 5,777
	n	%	n	%	n	%	n	%	n	%	n	%
None	20,098	26.1	4,057	26.0	7,453	25.3	4,154	26.7	2,534	26.2	1,900	28.0
Commuting distance	1,731	2.2	371	2.4	336	1.1	378	2.4	294	3.0	352	5.2
Cost of lost work and benefits	18,730	24.3	3,968	25.4	7,101	24.1	3,622	23.3	2,311	23.9	1,728	25.5
Cost of tuition, fees, materials	38,170	49.5	7,592	48.6	15,121	51.3	7,478	48.0	4,776	49.3	3,203	47.3
Family or personal reasons	25,560	33.1	5,103	32.7	9,844	33.2	5,379	34.6	3,211	33.2	2,023	29.9
Lack of flexibility in work schedule	7,720	10.0	1,554	9.9	3,105	10.5	1,560	10.0	879	9.1	622	9.2
Limited access to online learning or other resources	695	0.9	154	1.0	187	0.6	142	0.9	111	1.1	101	1.5
Schedule of education programs offered	1,945	2.5	398	2.5	795	2.7	374	2.4	239	2.5	139	2.1
Other	5,802	7.5	1,274	8.2	2,218	7.5	1,130	7.3	715	7.4	465	6.9

Note. Table 26 includes responses to survey questions 7, 68, 69.

Emergency Response Training

Table 27 displays RNs who have received formal emergency preparedness education in each DHS region. Approximately 70% of Wisconsin RNs have received formal training, with most of the training provided by employers (range 62.9% to 69.2%). Regional differences in the proportion of RNs who received emergency preparedness and response training were noted. For example, 68.3% of RNs in the more densely populated Southeastern region reported emergency preparedness and response training compared to 75.3% in the more sparsely populated Western region.

Table 27. Formal Training in Emergency Preparedness and Response by DHS Region of Residence

	State <i>n</i> = 77,111		South <i>n</i> = 15		Southea $n = 29$		Northea <i>n</i> = 15		West $n = 9$			thern 5,777
	n	%	n	%	n	%	n	%	n	%	n	%
Have not received training	22,806	29.6	4,686	30.0	9,346	31.7	4,478	28.8	2,351	24.7	1,905	28.1
Received training	54,305	70.4	10,936	70.0	20,125	68.3	11,085	71.2	7,287	75.3	4,872	71.9
Organization	that prov	v ided e i	mergency	prepar	edness an	d respo	nse traini	ng*				
Employer	49,912	64.7	10,026	64.2	18,533	62.9	10,251	65.9	6,694	69.2	4,408	65.0
Voluntary organization	1,882	2.4	434	2.8	662	2.2	360	2.3	245	2.5	181	2.7
Other source	3,497	4.5	725	4.6	1,243	4.2	664	4.3	483	5.0	382	5.6

Note. Table 27 includes responses to survey questions 8, 26, 27.

Table 28 displays information about RNs who have applied emergency preparedness and response training by region of residence. The numbers of RNs who participated in a simulated or actual emergency or disaster ranges from a low of 2.7% (actual) and 30.9% (simulated) in the Southeastern region to a high of 4.1% (actual) and 38.7% (simulated) in the Northern and Western regions, respectively. It is concerning that less than half of RNs in all regions who have trained in emergency preparedness and response have used this training within the last two years. Small numbers of RNs report being in the Wisconsin Emergency Assistance Volunteer Registry of the Medical Reserve Corps (WEAVR). Because the nursing profession represents a large segment of health care professionals, "The effectiveness of the health care system's response to a public health emergency or disaster is largely dependent on the surge capacity of the nurse workforce" (NACNEP, 2009, p. 2). To protect the health and safety of our local communities, it is imperative that nurses have opportunities to practice emergency response skills, so they are prepared to respond to any local disaster or public health emergency (American Nurses Association [ANA], 2017; Veenema et al., 2016).

^{*}Respondents could select more than one response.

Table 28. Applied Training in Emergency Preparedness and Response by DHS Region of Residence

	State n = 77,111		South <i>n</i> = 15		Southea $n = 29$		Northea $n = 15$		West $n = 9$			thern 5,777
	n	%	n	%	n	%	n	%	n	%	n	%
Have not applied training	49,910	64.7	9,963	63.8	19,886	67.5	10,049	64.6	5,745	59.4	4,267	63.0
Have applied training	27,201	35.3	5,659	36.2	9,585	32.5	5,514	35.4	3,933	40.6	2,510	37.0
Applied emer	gency pre	paredn	ess and re	sponse t	raining*							
Participated in an emergency preparedness exercise in the past 2 years	25,817	33.5	5,355	34.3	9,120	30.9	5,236	33.6	3,749	38.7	2,357	34.8
Responded to an actual emergency, incident or disaster in the past 2 years	2,443	3.2	546	3.5	795	2.7	481	3.1	344	3.6	277	4.1
Member of WEAVR	1,453	1.9	257	1.6	561	1.9	248	1.6	247	2.6	140	2.1
Member of Medical Reserve Corps	157	0.2	22	0.1	53	0.2	18	0.1	50	0.5	14	0.2

Note. Table 28 includes responses to survey questions 9, 10, 26, 27. *Respondents could select more than one response.

Wisconsin RN Workforce by Rural-Urban Designation

Table 29 displays information about demographic characteristics of RNs by rural or urban location using zip codes of primary employer. Rural and urban areas were determined using AHEC Wisconsin Health Service Areas designations (Sugden, 2015). RNs who work in rural communities are, on average, 2.4 years older than RNs working in urban areas. Rural areas compared to urban areas had greater proportions of older RNs (40 years and older) and lower proportions of younger RNs (less than 40 years). Only 34.2% of rural RNs are less than 40 years of age, whereas 43.0% are less than 40 years of age in urban communities. Racial, ethnic and gender diversity in the RN workforce is also greater in urban communities compared to rural communities.

Table 29. Demographics by Rural-Urban Location of Employer

	Ru i n = 14		Urb: $n = 46$	
	n	%	n	%
Mean Age (SD)	46.3 (12.1)	43.9 (12.4)	
Gender				
Female	13,277	93.4	42,729	92.6
Male	940	6.6	3,409	7.4
Age Distribution (years)				
< 25	158	1.1	973	2.1
25 – 34	2,830	19.9	12,348	26.7
35 – 44	3,583	25.2	11,799	25.6
45 – 54	3,329	23.4	9,383	20.3
55 – 64	3,536	24.8	9,719	21.1
65 – 74	738	5.3	1,833	4.0
≥75	43	0.3	83	0.2
Primary Racial Identity				
White	13,828	97.3	43,107	93.4
Black or African American	43	0.3	1,162	2.5
American Indian or Alaska Native	81	0.6	133	0.3
Asian	83	0.6	913	2.0
Native Hawaiian or Other Pacific Islander	9	0.1	52	0.1
Two or more races	173	1.2	771	1.7
Hispanic or Latino Ethnicity				
Hispanic	172	1.2	1,062	2.3
Non-Hispanic	14,045	98.8	45,076	97.7
Language Proficiency				
Number of languages spoken	1.1	0.3	1.1	0.4

Note. Table 29 includes responses to survey questions 26, 63, 67, and 68.

Table 30 displays information pertaining to the employment of Wisconsin RNs by location of primary employer. RNs employed in rural communities work on average 30 minutes more each week and have approximately one additional year of direct patient care experience than RNs working in urban areas. There is no difference in the number of positions that rural and urban RNs work.

Table 30. Employment by Rural-Urban Status of Employer

	Ru n = 14			Urban n = 46,138		
	Mean	SD	Mean	SD		
Years providing direct patient care	15.1	11.4	14.0	11.3		
Hours worked per week in primary job	35.3	11.0	35.0	10.5		
Number of nursing jobs	1.2	0.6	1.2	0.5		
Total hours worked in primary and secondary jobs	36.7	11.7	36.1	11.1		

Note. Table 30 includes responses to survey questions 20, 22, 29, 30, 45, 46, 67 – 68.

Table 31 displays information about nurses' intent to continue providing direct patient care based on rural or urban location of their primary employer. Intent to continue to provide direct patient care was similar between rural and urban employer groups.

Table 31. Intent to Continue Providing Direct Patient Care by Rural-Urban Location of Employer

	Ru n = 12		Urban n = 39,034		
Years	n	n %		%	
< 2	922	7.5	2,845	7.3	
2-4	1,755	14.2	5,787	14.8	
5-9	2,544	20.6	8,222	21.0	
10 – 19	3,218	26.1	10,186	26.1	
20 – 29	2,233	18.1	6,569	16.8	
≥ 30	1,667	13.5	5,485	14.0	

Note. Table 31 includes responses to survey questions 21, 67 - 68.

Table 32 displays information about nurses' intent to continue in their current type of employment by employer location. The patterns of intent do not mirror the age distribution of RNs based on rural or urban employment. Rural RNs indicated they intended to stay in their current type of employment for more years than urban nurses. This may be related to a lower number of employment options available to rural nurses.

Table 32. Intent to Continue in Current Employment by Rural-Urban Status of Employer

	\mathbf{Ru} $(n=1)$		Urban (n = 45,824)		
Years	n	%	n	%	
< 2	1,635	11.6	5,976	13.0	
2-4	2,778	19.7	10,191	22.2	
5-9	2,958	20.9	9,660	21.1	
10 – 19	3,264	23.1	9,695	21.1	
20 – 29	2,056	14.6	6,023	13.1	
≥ 30	1,434	10.2	4,279	9.3	

Note. Table 32 includes responses to survey questions 17, 67 – 68.

Table 33 displays information about education preparation of RNs by rural or urban employment. There are noteworthy differences in degree attainment between rural and urban nurses. A greater proportion of urban nurses obtained either a bachelor's (51.8%) or master's (13.0%) as their highest degree compared to rural nurses (bachelor's 46.7%, master's 11.5%). Similar differences were noted with the highest nursing degree attained. Higher proportions of rural RNs compared to urban nurses reported having associate's degree (48.4% rural, 31.7% urban), while urban nurses were more likely to have a bachelor's degree (51.7% urban, 36.1% rural). Smaller differences were noted in attainment of a master's (rural 10.0%, urban 11.5%) and PhD (rural 0.1%, urban 0.4%). There were no differences in the proportion of RNs who obtained a DNP by rural or urban location of employer.

Table 33. Educational Preparation by Rural-Urban Status of Employer

1 0		1 .	'			
Highest Degree Earned	\mathbf{Ru} $n = 1$		Urban n = 46,138			
	n	%	n	%		
Diploma	536	3.8	1,523	3.3		
Practical or Vocational Degree	28	0.2	38	0.1		
AD	6,641	46.7	14,008	30.4		
BS	5,199	36.6	23,877	51.8		
MS	1,639	11.5	5,995	13.0		
Doctorate	174	1.2	697	1.5		
Highest Nursing Degree Earned	\mathbf{Ru} $n=1$			Urban $n = 46,025$		
Diploma	585	4.1	1,631	3.5		
Practical or Vocational Nursing	29	0.2	43	0.1		
ADN	6,871	48.4	14,588	31.7		
BSN	5,126	36.1	23,780	51.7		
MSN	1,420	10.0	5,352	11.5		
DNP	144	1.0	441	1.0		
DNS or Nursing Doctorate	*	*	22	0.0		
PhD in nursing	12	0.1	168	0.4		

Note. Table 33 includes responses to survey questions 4, 67 - 68.

Table 34 describes the DHS region where RNs work or live and the rural-urban status of their employer. The Western and Northern regions have the greatest proportion of nurses who both work for employers and live in rural communities. Conversely, the Southeastern region has the greatest proportion of nurses who both work for employers and live in urban communities. In the Southern region, approximately 4% more nurses work and live in rural communities, and the proportions are similar in the Northeastern region. These results suggest that RNs tend to live and work in the same type of community, whether rural or urban.

Table 34. Residence and Primary Position by DHS Region and Rural-Urban Status of Employer

		Rural <i>n</i> = 14,217		oan 5,138	
Region of Primary Position	n	%	n	%	
Southern	3,386	23.8	9,076	19.7	
Southeastern	1,571	11.1	21,407	46.4	
Northeastern	2,715	19.1	9,015	19.5	
Western	2,948	20.7	4,873	10.6	
Northern	3,597	25.3	1,767	3.8	
Region of Residence		tural 13,629		Urban n = 44,705	
Southern	3,128	23.0	8,905	19.9	
Southeastern	1,557	11.4	20,677	46.3	
Northeastern	2,739	20.1	9,241	20.7	
Western	2,863	21.0	4,160	9.3	
Northern	3,342	24.5	1,722	3.9	

Note. Table 34 includes responses to survey questions 26, 27, 67-68.

Comparing 2016 and 2018

- The regional distribution of RNs by race and ethnicity was similar to that in 2016, as was the level of language proficiency other than English.
- The percentage of RNs employed as a nurse increased over two percentage points in every region since 2016. The greatest change was in the Northern region, which saw an increase of 3.7 percentage points. The proportion of RNs not working as a nurse but employed in health care or another field decreased in all regions, as did the percentage of RNs who reported being retired.
- The numbers of RNs enrolled in BSN programs decreased in all but the Northeastern region, where the number increased from 614 in 2016 to 961 in 2018, a growth of 56.5%.
- Enrollment in DNP and PhD programs varied across regions, with the Western and Southern regions reporting the most significant growth in RNs pursuing a DNP and PhD, respectively. Only the Northern region reported growth in the numbers of RNs enrolled in all types of programs (BSN, DNP, and PhD). The Northern region also experienced a reduction in the number of RNs enrolled in an MSN program, though the numbers enrolled in a related master's program increased.
- In most regions, both the number and proportion of nurses in each region who indicated they are currently or are planning to pursue further education in nursing is declining.

• The number of nurses reporting participation as a member of the WEAVR increased from 967 in 2016 to 1,453 in 2018, an increase of 50.3%.

Discussion and Recommendations

Geographic variation is expected given the distribution of major health care centers, educational institutions, resources, and overall population across the state. More nurses with bachelor's degrees or higher are needed in all regions to meet national benchmarks and demands for health care access. This is particularly the case in rural communities, where the proportions of bachelor's degree prepared nurses is lower. The numbers of nurses reporting no plans to further their education is concerning, and the cost of higher education tuition and fees remains a significant challenge. Overall, the findings suggest declining interest or ability to enroll in BSN completion programs or pursue graduate training in most areas of the state.

Regional differences in training and practice for emergency preparedness indicate that RNs in less densely populated regions may play a more active role in emergency or disaster response. If this is the case, it is important to consider how greater involvement in these types of situations may affect the overall RN workforce in rural areas.

Building the RN workforce to meet the forecasted increase in demand for health services is required in all regions. The aging population in rural communities continues to grow, and innovative strategies are needed to recruit and retain RNs and APRNs to these areas. In addition, improved access to educational programs and financial support or loan repayment are needed to support nurses working in areas that are less resource dense.

The following recommendations could help address regional RN workforce challenges:

- Health care leaders, schools of nursing, and policymakers should continue to strive to increase the overall RN workforce size and address specialty gaps through expanded programming and innovation to increase access in every DHS region.
- All major health care organizations within each DHS region should implement a plan to increase the number of nurses with a bachelor's degree to 80% by 2020.
- Efforts to increase the number of RNs advancing their education should address major challenges through scholarship and loan forgiveness programs that assist with tuition and fees.
- Greater emphasis should be placed on strategies to recruit bachelors-prepared nurses and support continuing education for nurses in rural communities.
- Given the low numbers and percentage of nurses who have applied and actually used emergency preparedness training in the last two years, efforts to coordinate interdisciplinary emergency training through simulation should be considered to enhance the preparedness of the RN workforce.

Section IV. Advanced Practice Registered Nurses

Section IV provides information on the APRN workforce in Wisconsin. Findings from the state level are presented (Tables 35 - 38), then broken down by DHS regions (see Appendix H for map and listing of DHS regions) of the primary position of APRN (Tables 40 - 42). Tables in this section include results for only those respondents who are licensed as an APRN. For those tables that report data by geographic distribution, only those APRNs who included county of residence or county of employment are included, as this information was necessary for analysis.

APRNs are nurses who have advanced education and professional training at the master's, post-master's certificate, or DNP degree with one of four APRN certification roles. They include nurse practitioner (NP), clinical nurse specialist (CNS), certified nurse midwife (CNM), and certified registered nurse anesthetist (CRNA). If the APRN meets the criteria for an advanced practice nurse prescriber (APNP), they may prescribe medications, selected orders, and devices based on their specialty focus and national, state, and organizational requirements.

Demographics of APRN Workforce in Wisconsin

There are 5,623 APRNs, with 4,999 working as an APRN and 4,896 working in Wisconsin as an APRN. This represents 6.3% of the RN workforce. Almost all (98%) of the APRNs work in Wisconsin.

Table 35 describes demographic characteristics of the APRN workforce in Wisconsin. Males comprised 10.8% of APRNs. The age range of APRNs is 26 years to 80 years, with a mean age of 45.9 (SD = 11.0). The proportion of APRNs who reported racial/ethnic diversity is 6.1%. A master's or higher nursing degree is held by 92.8% of APRN.

Table 35. APRN Demographics (n = 4,999)

	n	%
Works in Wisconsin as APRN	4,896	98.0
Works out of Wisconsin as APRN	101	2.0
Did not report state where working as APRN	*	*
Male	541	10.8
Female	4,458	89.2
Mean age (SD)	45.9	(11.0)
Range (years)	26 -	- 80
Diverse	306	6.1
Not diverse	4,693	93.9
Highest Nursing Degree		
Diploma	31	0.6
ADN	37	0.7
BSN	292	5.9
MSN	4,073	81.7
DNP	490	9.8
DNS or nursing doctorate	17	0.3
PhD in nursing	48	1.0
Highest Degree Earned		
Diploma	21	0.4
AD	15	0.3
BS	85	1.7
MS	4,304	86.1
Doctorate, any field	574	11.5

Note. Table 35 includes responses to survey questions 4, 26, 27, 48, 63 - 67.

Certification, Employment Status, and Age of APRNs

Table 36 describes APRNs who work in Wisconsin by their certification type and age. There are four national certification types: NP, CNS, CNM, and CRNA. There are 3,557 APRNs who are APNPs. The mean age of APRNs varies by type of certification. The mean age for NP was 45.3 years, and for CNS the mean age 51.1 years. The majority (71.2%) of APRNs report certification as an APNP. Only 155 nurses reported being in a CNM role.

Table 36. APRN Age by Certification Type (n = 4,999)

Current National Certification as an APRN	n	%	Mean Age
NP	2,934	58.7	45.3
CNS	243	4.9	51.1
CNM	155	3.1	46.7
CRNA	577	11.5	47.1
APNP	3,557	71.2	45.6

Note. Table 36 includes responses to survey question 48, 63.

Note. Respondents could choose more than one response

Table 37 describes the APRN workforce by employment status, including primary place of employment and position or function at the primary place of employment. Most NPs work in ambulatory care (1,529, 52.1%), followed by hospitals (878, 29.9%). Other primary work settings for NPs include extended care (4.5%), public health (3.2%), education (2.7%), and home health (2.2%). Roles of NPs most frequently reported are APRN (2,734, 93.2%). Other reported positions of NPs include nurse faculty (69, 2.4%), staff nurse (23, 0.8%), administrator (15, 0.5%), and nurse manager (12, 0.4%). Providing direct care was reported by 86.9% of the NPs.

Most CNSs reported working in a hospital (154, 63.4%), followed by 45 (18.5%) working in ambulatory care, 16 (6.6%) working in education and 16 working in a mix of other locations. Most reported working as an APRN (202, 83.1%), followed by nurse faculty (10, 4.1%).

CNMs reported working in ambulatory care (74, 47.7%), followed by hospital (53, 34.2%) and public health (15, 9.7%). The number working in education was too low to report. Most identified their position as APRN (137, 88.4%), with eight working in other positions. Nearly all CNMs reported working in direct care (92.3%).

Most CRNAs reported working in the hospital setting (501, 86.8%), with 61(10.6%) working in ambulatory care. Most have an APRN position (519, 89.9%). Twenty-five (4.3%) reported working as a staff nurse, with 21 (3.6%) working in other positions. Direct care was reported by 98.8% of the CRNAs.

Most APNPs reported working in ambulatory care (1,830, 51.4%), followed by hospitals (1,140, 32.0%), extended care (136, 3.8%), public health (119, 3.3%), education (79, 2.0%), and home health (71, 2.0%). Nearly all APNPs reported their position or function at their principal place of work was NP (3,377, 94.9%), with the remainder indicating nurse faculty (68, 1.9%), staff nurse (20, 0.6%), other roles (45, 1.3%), and nurse manager (11, 0.3%) positions.

Table 37. Principal Place of Employment and Position by APRN Certification Type

	N			NM		RNA		NS	AP		
	n=2	•	n =	155	n =	577	n =	243	n=3	-	
	n	%	n	%	n	%	n	%	n	%	
Principal Place of	Employn	nent									
Ambulatory care	1,529	52.1	74	47.7	61	10.6	45	18.5	1,830	51.4	
Nursing home or extended care	133	4.5	*	*	*	*	*	*	136	3.8	
Academia	78	2.7	*	*	*	*	16	6.6	79	2.0	
Public or community health	95	3.2	15	9.7	*	*	*	*	119	3.3	
Home health	66	2.2	*	*	*	*	*	*	71	2.0	
Hospital	878	29.9	53	34.2	501	86.8	154	63.4	1,140	32.0	
Other	155	5.3	*	*	*	*	16	6.6	182	5.1	
Position or Function	Position or Function at Principal Place of Employment										
Administrator	15	0.5	*	*	*	*	*	*	18	0.5	
Advanced practice nurse	2,734	93.2	137	88.4	519	89.9	202	83.1	3,377	94.9	
Case manager	*	*	*	*	*	*	*	*	*	*	
Consultant or contract	*	*	*	*	*	*	*	*	*	*	
Nurse executive	*	*	*	*	*	*	*	*	*	*	
Nurse faculty	69	2.4	*	*	*	*	10	4.1	68	1.9	
Nurse manager	12	0.4	*	*	*	*	*	*	11	0.3	
Nurse researcher	*	*	*	*	*	*	*	*	*	*	
Staff nurse	23	0.8	*	*	25	4.3	*	*	20	0.6	
Staff, other non- medical industry	*	*	*	*	*	*	*	*	*	*	
Manager, other non-medical industry	*	*	*	*	*	*	*	*	*	*	
Other	61	2.1	8	5.2	21	3.6	10	4.1	45	1.3	

Note. Table 37 includes responses to survey questions 36, 37, 48.

^{*}Too few to report.

Table 38 describes the specialty certifications available to NPs and CNSs. For NP, the largest reported certification specialty area was family nursing (52.6%), followed by adult (22.1%). Only 247 (8.4%) hold a gerontology certification. Acute care certification was reported by 220 (7.5%). There were 67 who reported specialty certification as neonatal NP.

The number of CNSs with national certifications decreased from 363 in 2016 to 243 in 2018. Only 99 CNSs are certified in adult health, followed by 34 in adult psychiatric and mental health, 31 in gerontology, and only 24 in adult critical care. There are a number of certifications in which the numbers are too low to report, including medical-surgical and diabetes management.

In 2018, 2,563 (51.3%) APRNs held one specialty certification, while 2,405 (48.1%) held two national certifications and 31 (0.6%) held three national certifications.

Table 38. Specialty Certification Nurse Practitioner and Clinical Nurse Specialist

Acute care Adult Adult psychiatric and mental health	220 649 28	7.5 22.1
		22.1
Adult psychiatric and mental health	28	
r-J		1.0
Clinical nurse leader	*	*
College health	*	*
Diabetes management	16	0.5
Emergency nursing	23	0.8
Family	1,544	52.6
Family planning	10	0.3
Family psychiatric and mental health	48	1.6
Gerontology	247	8.4
Neonatal	67	2.3
OB-Gyn/women's health	128	4.4
Pediatric	228	7.8
School	*	*
No specialty designation	*	*
Other	165	5.6
Certification as CNS (current) (n = 243)		
Acute/critical care – Adult	24	9.9
Acute/critical care – Pediatric	*	*
Acute/critical care – Neonatal	*	*
Adult health	99	40.7
Adult psychiatric and mental health	34	14.0
Child/adolescent psychiatric and mental health	*	*
Diabetes management – Advanced	*	*
Home health	*	*
Gerontology	31	12.8
Medical-Surgical	*	*
OB-Gyn/women's health	*	*
Palliative care – Advanced	*	*
Pediatric	13	5.3
Community/public health	*	*
No specialty designation	*	*
Other	34	14.0

Note. Table 38 includes responses to survey questions 48 - 50. *Too few to report.

APRNs with Prescriptive Authority

Table 39 provides a summary of the number and percentage of APRNs who reported prescriptive authority and are identified as APNP. Most NPs (97.8%) and CRNAs (98.7%) reported holding prescriptive authority, while lower proportions of CNMs (75.9%) and CNSs (20.6%) are prescribers. Overall, NPs make up 60.9% of all APNPs.

Table 39. APNPs with Prescriptive Authority by Specialty Certification

	NP <i>n</i> = 2,214			NS 339		NM = 83	$ \begin{array}{l} \mathbf{CRNA} \\ n = 153 \end{array} $		
	n %		n	%	n	%	n	%	
APRNs within specialty with prescriptive authority	2,166	97.8	70	20.6	63	75.9	151	98.7	
APRNs across specialties with prescriptive authority $(n = 3,557)$		60.9		2.0		1.8		4.2	

Note. Table 39 includes responses to survey question 48.

APRNs by Setting and Population

Table 40 displays data on primary care or outpatient mental health services provided by APRNs. In 2018, 2,329 APRNs provided primary care or outpatient mental health services. This represents 46.6% of all certified APRNs working in Wisconsin. Those providing outpatient primary care reported working an average across all settings of 37.9 hours per week (SD = 14.3) for their primary position. A small number of APRNs (59) reported providing direct care at a secondary position for an average of 7.6 hours per week (SD = 8.2) (data not shown).

Table 40. Certified APRNs Providing Primary Care or Outpatient Mental Health Services (n = 2,329)

	n	%
Family	1,043	44.8
Women's health	640	27.5
Certified nurse midwife	109	4.7
Pediatric	529	22.7
Adult	1,088	46.7
Geriatric	745	32.0
Mental health	494	21.2
Other	184	7.9

Note. Table 40 includes responses to survey questions 48, 53, 54.

Note. Respondents could select multiple options.

Table 41 provides a summary of the reported population focus areas for APRNs. Family health (44.4%) and adult-gerontology (36.7%) were the most frequently reported population focus areas. Only 202 (4.0%) reported a focus on psychiatric-mental health nursing, with only 94 (1.9%) reporting a focus in neonatal care.

Table 41. APRN Population Focus Areas (n = 4,999)

	n	%
Family/individual across the lifespan	2,222	44.4
Adult-gerontology	1,835	36.7
Neonatal	94	1.9
Pediatric	317	6.3
Women's health/gender-related	329	6.6
Psychiatric-mental health	202	4.0

Note. Table 41 includes responses to survey questions 51, 52.

APRNs by Wisconsin DHS Regions

The DHS region of the primary position could be identified for 5,448 APRNs, as reported in Table 42. The Southeastern region has the highest proportion of APRNs (2,113, 38.8%); the Northern region has the lowest proportion of APRNs (463, 8.5%). APRNs from the Southeastern region reported the highest proportion in the racial/ethnic diverse category (9.6%). The number of working APRNs per 1,000 population ranges from 0.67 in the Southern region to a high of 1.55 in the Western region. Across all regions, 527, 9.7% of APRNs, have a doctoral degree (DNP or PhD) as their highest degree. Most hold a master's in nursing degree.

Table 42. Demographics of APRN Workforce in DHS Region

	Sta $n = 5$		Sout <i>n</i> = 1		Souther $n=2$,		Northe $n = 1$		Wes	tern 745		thern 463
	n	%	n	%	n	%	n	%	n	%	n	%
Employed APRNs/ 1,000 population	0.94		0.6	0.67 1.00		0	0.09		1.55		1.06	
Demographic	es											
Employed in region as APRN	4,847	89.0	868	8.5	1,884	89.2	1,023	92.0	659	88.5	412	89.2
Not employed as APRN	601	11.0	147	14.5	229	10.8	89	8.0	86	11.5	50	10.8
Male	528	10.9	95	10.9	129	6.8	130	12.7	100	15.2	74	17.9
Female	4,319	89.1	773	89.1	1,755	93.2	893	87.3	559	84.8	339	82.1
Diverse	296	6.1	42	4.8	180	9.6	36	3.5	18	2.7	20	4.8
Not diverse	4,551	93.9	826	95.2	1,704	90.4	987	96.5	641	97.3	393	95.2

	Sta $n = 5$		Sout $n = 1$		Souther $n=2$,		Northe $n = 1$		Wes	tern 745		thern 463
	n	%	n	%	n	%	n	%	n	%	n	%
Mean age (SD)	45.9 (11.0)	46.1 (11.2)	44.7 (11.1)	45.6 (10.8)	47.7	(10.9)	48.2	(10.2)
Highest nursi	ing degre	e										
Diploma in nursing	30	0.6	*	*	9	0.5	*	*	*	*	*	*
ADN	36	0.7	7	0.8	6	0.3	*	*	10	1.5	8	1.9
BSN	279	5.8	69	8.0	58	3.1	52	5.1	67	10.2	33	8.0
MSN	3,964	82.0	661	76.3	1,598	85.0	866	84.9	505	76.9	334	80.9
DNP	464	9.6	107	12.4	176	9.4	88	8.6	62	9.4	31	7.5
DNS or ND	17	0.4	*	*	8	0.4	*	*	*	*	*	*
PhD in nursing	46	1.0	12	1.4	25	1.3	*	*	6	0.9	*	*
Highest degre	ee earned											
Diploma	20	0.4	*	*	*	*	*	*	*	*	*	*
AD	15	0.3	*	*	*	*	*	*	7	1.1	*	*
BS	82	1.7	20	2.3	22	1.2	10	1.0	19	2.9	11	2.7
MS	4,185	86.3	718	82.7	1,638	86.9	909	88.9	556	84.4	364	88.1
Doctorate, any field	545	11.2	126	14.5	217	11.5	96	9.4	72	10.9	34	8.2

Note. Table 42 includes responses to survey questions 4, 27, 51, 63-67.

Certification of APRN Workforce by Region

Table 43 shows the distribution of working APRNs across the DHS regions by their primary position. The Southeastern and the Northeastern regions have the largest distribution of APRNs.

Table 43. APRN Certification Type by DHS Region

Certification	State n = 4,847		Southern n = 868		Southeastern $n = 1,884$		Northeastern $n = 1,023$		Western <i>n</i> = 659		Northern $n = 413$	
	n	%	n	%	n	%	n	%	n	%	n	%
NP	2,847	58.7	515	59.3	1,159	61.5	569	55.6	378	57.4	226	54.7
CNS	232	4.8	41	4.7	145	7.7	19	1.9	16	2.4	11	2.7
CNM	148	3.1	24	2.8	50	2.7	27	2.6	46	7.0	*	*
CRNA	552	11.4	121	13.9	103	5.5	117	11.4	127	19.3	84	20.3
APNP	3,474	71.7	611	70.4	1,378	73.1	789	77.1	405	61.5	291	70.5

Note. Table 43 includes responses to survey questions 27, 48.

Note. Could select more than one.

^{*}Too few to report.

^{*}Too few to report.

Table 44 shows the distribution of APRNs with prescriptive authority across the DHS regions. The Southeastern region has 1,457 (39.6%) APNPs, with only 307 (8.3%) in the Northern region.

Table 44. Prescriptive Authority of APRNs by DHS Region (n = 3,682)

	State	South	Southern		Southeastern		Northeastern		Western		thern
		n	%	n	%	n	%	n	%	n	%
Prescriptive authority (APNP)	3,682	658	17.9	1,457	39.6	821	22.3	439	11.9	307	8.3

Note. Table 44 includes response to survey questions 27, 48.

Table 45 displays the distribution of NPs in the most frequently reported specialty certification. The Southeastern region has a higher concentration of NP specialty certification. Family health is the most frequently reported specialty focus across all regions.

Table 45. Nurse Practitioner Specialty Certification by DHS Region

			-									
	Sta		Sout			eastern	Northe			stern		thern
	n=2	2843	n =	515	n=1	,156	n =	569	n =	377	n =	= 226
	n	%	n	%	n	%	n	%	n	%	n	%
Certified	2,833	99.6	515	99.6	1,155	99.9	564	99.1	375	99.5	226	100.0
Specialty cer	tification	1										
Acute care	217	7.6	46	8.9	118	10.2	21	3.7	22	5.8	10	4.4
Adult	631	22.2	164	31.8	254	22.0	83	14.6	85	22.5	45	19.9
Clinical nurse leader	*	*	*	*	*	*	*	*	*	*	*	*
College health	*	*	*	*	*	*	*	*	*	*	*	
Diabetes management	16	0.6	6	1.2	*	*	*	*	*	*	*	*
Emergency nursing	21	0.7	*	*	7	0.6	*	*	7	1.9	*	*
Family	1,500	52.8	183	35.5	579	50.1	377	66.3	23	56.5	148	65.5
Family planning	9	0.3	*	*	*	*	*	*	*	*	*	*
Adult psychiatric and mental health	26	0.9	9	1.7	8	0.7	*	*	*	*	*	*
Family psychiatric and mental health	44	1.5	13	2.5	13	1.1	7	1.2	9	2.4	*	*
Gerontology	239	8.4	59	11.5	91	7.9	35	6.2	37	9.8	17	7.5
Neonatal	61	2.1	9	1.7	34	2.9	12	2.1	*	*	*	*
OB-Gyn/ women's health	123	4.3	26	5.0	43	3.7	26	4.6	19	5.0	9	4.0
School	*	*	*	*	*	*	*	*	*	*	*	*
Pediatric	223	7.8	58	11.3	126	10.9	15	2.6	18	4.8	6	2.7
Other	161	5.7	29	5.6	43	3.7	49	8.6	24	6.4	16	7.1

Note. Table 45 includes responses to survey questions 27, 49.

^{*}Too few to report.

Future Work Intentions

Understanding the future work intentions of APRNs is critical to planning for the necessary advanced practice resources for Wisconsin. APRNs have an essential role in access, direct care, population health, and system redesign initiatives. Table 46 summarizes the age, percentage of APRNs reporting direct care in their role, and future work intentions related to providing direct patient care by certification level. Across the state, 86.7% of APRNs report providing direct care. Across the certification roles, 12.3% of APRNs report an intent to continue providing direct care in less than five years and 28.0% in less than 10 years. Variation across roles was noted, with 34.2% of CNSs who provide direct care reporting an intent to provide direct care 10 years or less.

Table 46. APRN Intent to Continue Providing Direct Patient Care

	State n = 4,999		NP $n = 2,934$		$ \begin{array}{l} \mathbf{CNS} \\ n = 243 \end{array} $		$ \begin{array}{l} \mathbf{CNM} \\ n = 155 \end{array} $		$ \mathbf{CRNA} \\ n = 577 $			PNP 3,557
Mean age	45	.9	45	5.3	5	1.2	46.7		4	7.1	45	5.6
(range)	(26 - 80)		(26	- 75)	(29	− 76)	(27	-69)	(28 - 74)		(26	– 80)
% in direct care	86.7		80	5.9	3	9.5	9:	2.3	98	8.8	87	7.8
Years	n	%	n	%	n	%	n	%	n	%	n	%
Not applicable	618	12.4	366	12.5	96	39.5	9	5.8	8	1.4	420	11.8
< 2	202	4.0	108	3.7	14	5.8	10	6.5	26	4.5	134	3.8
2 - 4	413	8.3	244	8.3	27	11.1	14	9.0	47	8.1	288	8.1
5 – 9	785	15.7	457	15.6	42	17.3	28	18.1	100	17.3	556	15.6
10 - 19	1,315	26.3	743	25.3	41	16.9	47	30.3	174	30.2	934	26.3
20 - 29	1,093	21.9	644	21.9	18	7.4	31	20.0	101	31.4	777	21.8
\geq 30 or more	573	11.5	372	12.7	*	*	16	10.3	41	7.1	448	12.6

Note. Table 46 includes responses to survey questions 21, 48, 63.

Note. Could check more than one category.

Table 47 displays the responses to a question about how much longer the APRN plans to work in their current type of employment. Among CNSs, 31.3% reported their intent to stay in their current type of employment for less than five years and 58% for less than 10 years, and among CNMs, 21.3% reported plans to stay less than five years and 41.3% for less than 10 years.

Table 47. APRN Plans to Stay in Current Type of Employment

	State n = 4,972			N P 2,919	_	NS 241	_	NM = 155		NA 574		PNP 3,541
Years	n	%	n	%	n	%	n	%	n	%	n	%
Not Applicable	27	0.5	15	0.5	*	*	*	*	*	*	16	0.4
< 2	368	7.4	219	7.5	31	12.8	15	9.7	28	4.9	256	7.2
2 - 4	674	13.5	402	13.7	45	18.5	18	11.6	58	10.1	480	13.5
5 – 9	989	19.8	580	19.8	65	26.7	31	20.0	104	18.0	699	19.7
10 – 19	1,305	26.1	738	25.2	57	23.5	44	28.4	174	30.2	909	25.6
20 - 29	1,076	21.5	625	21.3	28	11.5	31	20.0	170	29.5	769	21.6
\geq 30 or more	560	11.2	355	12.1	15	6.2	16	10.3	40	6.9	428	12.0

Note. Table 47 includes responses to survey questions 17, 48.

Note. Respondents could check more than one category. *Too few to report.

Comparing 2016 and 2018

- The size of the APRN workforce working in Wisconsin increased from 4,395 in 2016 to 4,896 in 2018, an 11.4% increase in two years. The largest increase was in the NP role.
- Overall, the number of APRNs in each DHS region increased from 2016, as did the ratio per 1,000 population.
- The number of APRNs who hold a master's degree in nursing increased from 3,705 in 2016 to 4,073 in 2018, and the number who hold a doctoral degree in nursing increased from 354 in 2016 to 555 in 2018.
- The percentage of APRNs with DNP preparation has been rising in all DHS regions. In 2016, the percentage of DNP prepared APRNs ranged from 5.5% to 7.5%, and in 2018, this increased to 7.5% to 12.4% across DHS regions.
- CRNAs decreased 20.4%, from 725 in 2016 to 577 in 2018. CNMs decreased 15.8%, from 184 in 2016 to 155 in 2018. CNSs had the largest decrease of 33.2%, from 364 in 2016 to 243 in 2018.

Discussion and Recommendations

The majority of APRNs are nurse practitioners. There are similarities in the type and distribution of APRNs across the DHS regions. The Southeastern region has the highest overall proportion of APRNs, with low numbers in the Western and Northern regions. Fewer than 50% of APRNs provide primary care or outpatient mental health care. In addition, there are declines in the number of CNSs, CNMs and CRNAs. Most concerning was the number and intent of APRNs intending to leave direct care within the next four to nine years.

The shifts in health care as a result of health care reform are expected to require more APRNs, particularly NPs in primary care and mental health (IOM, 2011), to meet the health care needs of the citizens of Wisconsin. There continues to be a need to increase the number of APRNs in the state, especially in the rural areas. The APRN percentage in the nurse workforce in Wisconsin is 6.3%, which is well below the national average of 8.8% NP, 2.1% CNS, 1.6% CRNA, and 0.5% CNM (Smiley et al., 2018). Due to the need for improved access for care and the key role that advanced practice nurses provide, Wisconsin established the goal of at least 10% of the RN workforce being APRNs by 2020 (WCN, 2013). Significant effort is needed to address the shortage in the APRN workforce.

Health care organizations, in partnership with schools of nursing and communities, should establish targeted goals to increase the number and specialty focus of APRNs to meet the needs across employment settings and primary positions. Emphasis should be on recruitment, retention, and succession planning of APRNs across the four roles (NP, CNS, CNM, CRNA). Given the small number (24) of APRNs with adult psychiatric and mental health specialty certification and the significant community needs in this area due to the opioid crisis, efforts should be made to accelerate APRN training in psychiatric and mental health and substance abuse treatment. Innovative models of care that utilize APRNs to their full scope of practice should be explored to promote effective and efficient team care, with a focus on improving access and decreasing health care disparities. Wisconsin should enact legislation to assure that APRNs can practice to their full scope based on national recommendations for scope of practice (APRN Consensus Group, 2008). Finally, additional research is needed to identify barriers to APRN practice.

Section V. Nurses in Leadership Roles

In 2011, the IOM strongly endorsed the expansion of leadership roles for nurses. In alignment with this recommendation, nursing leadership characteristics in Wisconsin have been included on the RN workforce survey since 2014. This section presents the results from the 2018 survey related to nurses in leadership roles. Tables in this section include results for only those respondents who reported county of residence or county of employment, as this information was necessary for analyses of the data by geographic distribution.

Characteristics of Nurses in Leadership Roles

Table 48 provides information about RNs working in Wisconsin who engage in leadership roles by DHS region and type. Of the 61,427 respondents to the 2018 survey working as RNs in Wisconsin, 29,023 (47.2%) reported they held one or more leadership role(s). Among those who reported being in a leadership role, 26,158 (90.1%) reported that the role was within their primary work area (e.g., charge nurse, team leader, or unit manager) and 2,986 (10.3%) reported serving in leadership roles such as director, chief nursing officer (CNO), or dean at the organizational level. The number of nurses who reported serving on a governance board in 2018 was 546 (1.9%), while the number who reported serving as public officials was 162 (0.6%). There were 1,837 (6.3%) nurses who reported serving as a chair of a committee.

Small regional differences in leadership engagement were noted. The proportion of RNs engaged in leadership was highest in the Western region (49.4%) and lowest in the Northeastern region (45.5%). Leadership through chairing committees was reported by the highest proportion of RNs in the Southern region (7.3%) and lowest in the Northern region (4.2%). The Southeastern region had the largest number of nurses participating in leadership roles. The proportion of nurses with leadership roles in their work area was similar across all regions. The proportion of RNs engaged in organizational leadership was highest in the Western region (11.8%) and lowest in the Southeastern region (9.7%). Nurses in the Southeastern region reported participating on governance boards in greater numbers (259) and at a higher proportion (2.3%) than in other regions. This may reflect greater opportunity in an urban area with more hospitals with Magnet status, greater numbers of organizations, and higher overall population.

Table 48. Employed Nurses in Leadership Positions by DHS Region and Role Type

	Sta	te	South	iern	Southea	stern	Northe	astern	West	ern	North	iern
	n	%	n	%	n	%	n	%	n	%	n	%
Engaged in leadership role	29,023	47.2	5,793	45.7	11,191	48.0	5,390	45.5	4,044	49.4	2,605	48.0
Not engaged in leadership role	32,404	528	6,877	54.3	12,111	52.0	6,458	54.5	4,136	50.6	2,822	52.0
Total	61,4	27	12,6	570	23,3	02	11,8	48	8,18	30	5,42	27
Type of Role F	Reported	by Nur	ses Enga	aged in	Leadersl	nip Rol	es (n = 29)	9,023)				
Work area ^a	26,158	90.1	5,181	89.4	10,105	90.3	4,853	90.0	3,659	90.5	2,360	90.6
Organization level ^b	2,986	10.3	571	9.9	1,083	9.7	583	10.8	477	11.8	272	10.4
Governance board ^c	546	1.9	97	1.7	259	2.3	114	2.1	44	1.1	32	1.2
Public official ^d	162	0.6	41	0.7	33	0.3	34	0.6	25	0.6	29	1.1
Chair of major committee in organization	1,837	6.3	423	7.3	763	6.8	345	6.4	196	4.8	110	4.2

Note. Table 48 includes responses to survey questions 18, 26.

Note. Respondents could select more than one leadership role.

^aExamples include charge nurse, team leader, unit manager. ^bExamples include dean, CNO, director. ^cExamples include board of trustees. ^dExamples include county board of supervisors, state legislator.

Demographics of Nursing Leadership in Wisconsin

Table 49 displays the age, gender, diversity, and education characteristics of nurses reporting engagement in leadership roles. The mean age of nursing leadership roles was 44.7 years, while the mean age of organizational leaders and public officials was 47.2 years and 47 years, respectively. The percentage of males (7.7%) and females (92.7%) in leadership roles mirrored the overall percentages of male (7.5%) and female (92.5%) RNs in the state, except among nurses who report being public officials, which included a higher proportion of males (13%) nurses.

The percentage of nurse leaders across the state who identified as racially and ethnically diverse was 7.3%. The greatest diversity was among RNs with leadership roles in their work areas (7.5%) and governance boards (7.3%), while the least racial and ethnic diversity was among RNs who serve as committee chairs within their organization (5.6%).

Although diploma, associate, or bachelor's degree programs prepare nurses for the same level of licensure, the proportion of bachelor-prepared RNs engaged in leadership roles was much higher than for RNs with a diploma or associate degree. For example, among leaders in work areas, 3.4% earned a diploma, 38.0% earned an associate degree, and 48.8% earned a bachelor's degree as their highest nursing degree. Of note, RNs with a bachelor's as their highest nursing degree reported the greatest engagement in leadership across all roles.

The greatest proportion of nurses with a diploma as their highest nursing degree (3.4%) or an associate degree (38.0%) reported a leadership role in their work area. This leadership role was also highest for nurses with a DNP as their highest nursing degree, with 8.5% holding a leadership role in their work area. Among RNs with a bachelor's as their highest nursing degree who engaged in leadership, most (53.1%) reported a role as a chair of a major committee within their organization. This was also the case for RNs with a master's (24.8%) and a PhD or DNS (4.1%) as their highest nursing degree. The distribution in leadership roles by degree was similar among RNs when comparing highest nursing degree and highest degree (any field).

Table 49. Age, Diversity, Gender, and Education Reported by Currently Employed Nurses with Leadership Role(s)

	Sta n = 29		Work <i>n</i> = 20		Organi Le n = 2	vel	Gover Boa n =	ard	Public (Cha Ma Comm Organ n = 1	ittee in ization
	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean
Age	23-84	44.7	23-84	44.3	23-84	47.2	24-74	44.2	24-77	47.0	23-79	45.0
	n	%	n	%	n	%	n	%	n	%	n	%
Racially or ethnically diverse	2,129	7.3	1,961	7.5	178	6.0	40	7.3	10	6.2	103	5.6
Gender												
Female	26,794	92.7	24,121	92.5	2,765	92.6	503	92.1	141	87.0	1,713	93.2
Male	2,229	7.7	2,037	7.5	221	7.4	43	7.9	21	13.0	124	6.8
Highest Nursing	g Degree											
Practical or vocational nursing diploma	37	0.1	33	0.1	*	*	*	*	*	*	*	*
Diploma in nursing	958	3.3	884	3.4	66	2.2	*	*	*	*	44	2.4
ADN	10,549	36.4	9,952	38.0	790	26.5	108	19.8	46	28.4	332	2.4
BSN	14,005	48.4	12,776	48.8	1,251	42.0	225	46.8	77	47.5	973	53.1
MSN	2,971	10.3	2,207	8.4	701	23.5	135	24.8	25	15.4	387	21.1
DNP	296	1.0	189	8.5	96	3.2	19	3.5	*	*	54	2.9
PhD in nursing or DNS	136	0.5	55	0.2	70	3.4	22	4.1	*	*	42	2.1
Highest Degree												
Practical or vocational diploma	34	0.1	31	0.1	*	*	*	*	*	*	*	*
Diploma	885	3.0	823	3.1	56	1.9	*	*	*	*	39	2.1
AD	10,164	3.0	9,614	36.8	742	1.9	101	18.5	43	26.5	313	17.0
BS	13,974	48.1	12,869	49.2	1,123	37.6	225	41.2	75	46.3	931	50.7
MS	3,476	12.0	2,556	9.8	863	28.9	163	29.9	29	17.9	445	24.2
Doctorate, any field	490	1.7	265	1.0	199	6.7	51	9.3	11	6.8	108	5.9

Note. Table 49 includes responses to survey questions 4, 18, 63 – 66. *Note*. Respondents could select more than one role.

^{*}Too few to report.

Leadership Roles by Position and Principal Place of Work

Respondents reported leadership roles in all categories of positions and principal work settings. Overall, the largest number of nurses reporting leadership roles were staff nurses (17,138). Table 50 displays data from respondents who reported engagement in leadership compared to those who did not by position at the principal place of work. Nurses reporting working in direct care reported lower engagement in leadership roles than nurses in management types of positions. Among staff nurses, 43.6% indicated they held some type of leadership role at work (e.g., charge nurse, team leader, unit manager). Less than one-third of APRNs reported having a leadership role (30.5%). Role categories generally associated with leadership responsibilities (nurse manager, administrator, nurse executive, and manager – non-medical industry) all demonstrated high proportions of respondents reporting leadership roles (87.0% to 98.3%). The findings for nurse faculty and nurse researchers were similar to the direct care roles, with 47.6% of nurse faculty and 40.8% of nurse researchers reporting serving in leadership roles.

Table 50. Leadership Roles of Employed Nurses by Position at Principal Place of Work

	State Total <i>n</i> = 61,427	Report Lo Ro n = 29	ole	Did Not Report Leadership Role $n = 32,404$	
Principal Work Role	n	n	%	n	%
Staff nurse	39,281	17,138	43.6	22,143	56.4
Nurse manager	4,232	4,137	97.8	95	2.2
Case manager	5,559	2,167	39.0	3,392	61.0
Advanced practice nurse	4,572	1,394	30.5	3,178	69.5
Administrator	669	643	96.1	26	3.9
Nurse executive	637	262	98.3	11	1.7
Nurse faculty	1,057	503	47.6	554	52.4
Consultant or contractor	523	210	40.2	313	59.8
Nurse researcher	213	87	40.8	126	59.2
Staff, other non-medical industry	144	55	38.2	89	61.8
Manager, other non-medical industry	54	47	87.0	7	13.0
Other	4,486	2,016	44.9	2,470	55.1

Note. Table 50 includes responses to survey questions 18, 36.

Table 51 displays the work settings reported by nurses in leadership and non-leadership roles. The highest proportion of nurses who reported serving in a leadership role worked in hospital settings (55.5%), with much lower proportions who reported working in education (2.9%) and public health (3.1%).

Table 51. Principal Work Setting of Employed Nurses with Leadership Roles (n = 29,589)

	Rep Leadersl <i>n</i> = 29	nip Role	Did Not Report Leadership Role n = 32,404		
	n	%	n	%	
Hospital	16,111	55.5	16,552	51.1	
Long term or extended care	4,013	13.8	1,465	4.5	
Ambulatory care	4,319	14.9	7,742	23.9	
Other ^a	1,444	5.0	2,710	8.4	
Home health ^b	1,383	4.8	1,951	6.0	
Community or public health ^c	899	3.1	1,190	3.7	
Education	854	2.9	794	2.5	

Note. Table 51 includes responses to survey questions 18, 37.

^aIncludes telehealth, call center, insurance. ^bIncludes hospice. ^cIncludes community, occupational, and school health.

Employment Status – Nurse Leaders

Table 52 displays leadership role reported by employment status of the respondent. Although most RNs who reported any leadership role are currently employed as nurses, there were RNs employed in other settings and fields who reported being in all types of leadership roles. Organizational leaders had the highest percentage (11.7%) of nurses who indicated they are working in health care but not in nursing. Nearly 400 retired nurses reported engagement in leader roles, with 7.1% (54) serving as governance level leaders and 6.6% (15) as public officials. Further research related to engagement of retired nurses in the workforce would be important to fully understand these findings.

Table 52. Employment Status among Nurses with Leadership Roles

	Work Area Leaders n = 30,599		Lev Lead	Organizational Level Leaders n = 4,046		Governance Level Leaders n = 761		Public Officials n = 226		Committee Chairs n = 2,206	
	n	%	n	%	n	%	n	%	n	%	
Employed											
Employed as a nurse	29,151	95.3	3,326	82.2	602	79.1	181	85.4	1,998	90.6	
Employed in health care, not nursing	479	1.6	475	11.7	58	7.6	12	5.3	85	3.9	
Employed in another field	165	0.5	89	2.2	29	3.8	7	3.1	41	1.9	
Not employed											
Retired	398	1.3	83	2.1	54	7.1	15	6.6	40	1.8	
Unemployed, seeking employment in nursing	233	0.8	37	0.9	8	1.1	*	*	19	0.9	
Unemployed, seeking employment in another field	16	0.1	7	0.2	*	*	*	*	*	*	
Unemployed, not seeking employment	157	0.5	29	0.7	9	1.2	6	0.3	20	0.9	

Note. Table 52 includes response to survey questions 11, 18.

^{*}Too few to report.

Barriers to Leadership Roles

Table 53 provides an overview of barriers to leadership identified by employed RNs. Respondents not in leadership roles were asked to indicate their two most important barriers to engaging in leadership roles. The most frequently reported barrier overall and in every region was a lack of interest in leadership (57.0%), followed by having other personal priorities (24.9%) and lack of opportunity (16.6%).

Table 53. Barriers to Leadership Roles for Employed RNs by DHS Region

	State $n = 61$		South <i>n</i> = 12		Souther $n = 23$		Northe <i>n</i> = 11		West $n = 8$		North $n = 5$,	
	n	%	n	%	n	%	n	%	n	%	n	%
Not engaged in leadership role	32,404	52.8	6,877	21.1	12,111	37.4	6,458	19.9	4,136	12.8	2,822	8.7
Barriers to Engagement in Leadership Roles												
	n = 32	,404	n=6	,877	n = 12	,111	n=6	,456	n=4	,136	n=2	,822
Lack of leadership development or preparation	1,993	6.2	471	6.8	788	6.5	343	5.3	229	5.5	162	5.7
Lack of opportunity	5,366	16.6	1,218	17.7	1,922	15.9	1,091	16.9	665	16.1	470	16.7
Other personal priorities	8,069	24.9	1,774	25.8	3,156	26.1	1,511	23.4	983	23.8	645	22.9
Not interested	18,476	57.0	3,882	56.4	6,802	56.2	3,742	57.9	2,454	59.3	1,596	56.6

Note. Table 53 includes responses to survey questions 18, 19, 26.

Note. Could select two options.

Future Work Intentions

Table 54 displays leaders' intentions to remain in their current positions. Nearly a third (32.6%, 9,459) of current nurse leaders across leadership roles intend to work in their current positions for less than five years, and over half (54%) for less than 10 years. In less than five years, 30.1% of organizational level nurse leaders are expected to leave their positions. The number of RNs across all leadership roles who plan to continue in their current positions for under 10 years adds to over 15,000 nurse leaders.

Table 54. Currently Employed Nurse Leaders' Intent to Stay in Current Position

	To Nurse I n = 28	Leaders	Wo Lead n = 26	ders	Lea	izational evel iders 2,975	Le Lea	rnance vel ders 542	Off	ıblic ïcials = 162	Ch	mittee airs 1,830	Did Rep Leade Ro n = 32	ort rship de
Years	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Not Applicable	167	0.6	156	0.6	11	0.4	*	*	*	*	7	0.4	247	0.8
< 2	3,456	11.9	3,144	12.0	360	12.1	83	15.2	27	16.7	196	10.7	4,278	13.2
2 - 4	6,003	20.7	5,455	20.9	537	18.0	102	18.7	28	17.3	395	21.5	7,206	22.2
5 – 9	6,166	21.2	5,426	20.7	702	23.5	126	23.1	33	20.4	423	23.0	6,668	20.6
10 – 19	6,654	22.9	5,916	22.6	744	24.9	107	19.6	39	24.1	440	24.0	6,578	20.3
20 - 29	4,046	13.9	3,681	14.1	411	13.8	70	12.8	22	13.6	253	13.8	4,170	12.9
≥ 30	2,531	8.7	2,380	9.1	221	7.4	54	9.9	13	8.0	123	6.7	3,247	10.1

Note. Table 54 includes responses to survey questions 17, 18.

Note. Not all nurse leaders responded to this question.

Comparing 2016 and 2018

- The number of nurses reporting leadership roles was 29,589 (49.6%) in 2016 and decreased by 566 in 2018 to 29,023 (47.2%).
- Although the number of RNs in leadership roles overall decreased, there was a 10.1% increase in the number of nurses reporting leadership positions at the organizational level (e.g., dean, CNO, or director), from 2,711 (9.2%) in 2016 to 2,986 (10.3%) in 2018.
- The proportion of organizational level leaders intending to remain in their current type of employment less than five years increased by 3.4% since 2016.
- A noticeable change is the number of nurses who reported serving on a governance board decreased 35.3% from 2016. Similarly, there was a 17.3% decrease in the number of nurses serving as public officials from 2016 (196, 0.7%) to 2018 (162, 0.6%).
- The number of nurses with a doctoral degree in work area leadership roles increased from 68 in 2016 to 244 in 2018, a 259% increase. There was a similar increase in nurses with doctoral degrees who reported organizational leadership roles, from 132 to 166, a 25.8% increase from 2016 to 2018.

Discussion and Recommendations

The results of the survey identified variation between leadership roles by position at the primary place of work. As expected, nurses in direct care roles reported lower engagement in leadership roles than nurses in management positions did. Many staff nurses currently have some type of leadership role at work (e.g., charge nurse, team leader, unit manager), as do RNs in faculty and

research roles. Key barriers to engaging in leadership roles continue to be the lack of interest and other personal priorities, followed by lack of leadership opportunities.

Turnover among leaders can be a serious problem for all types of organizations. With almost one-third of current nurse organizational leaders planning to leave their positions in less than five years, and over half of nurses in Wisconsin indicating no interest in becoming a leader, there is an urgent need for succession planning and leadership development for nurses in many settings. Given that the most frequently reported barriers to leadership were lack of interest and other personal priorities, efforts to build a pipeline of nurse leaders will have to address opportunities to make leadership more attractive and allow for nurses in these roles to balance both work and life. Further analysis of leadership roles within job types is needed to increase understanding of nurses as leaders. Health care organizations, in partnership with schools of nursing and professional organizations, should develop robust leadership pipelines, succession planning programs, and mentoring opportunities. Organizations should proactively assess and implement leadership development opportunities to prepare for the emerging leadership shortage. In addition, health care organizations should evaluate innovative leadership structures and coverage models to make leadership opportunities more attractive to millennial and other generations of nurses.

Another area of concern is the decrease in the number of nurses on boards. Given the national initiative to place 10,000 nurses on boards by 2020, further exploration of Wisconsin nurses' barriers to serving on boards and as public officials would provide additional information on how to ensure a pipeline for the future.

The increasing prevalence of DNP programs that include opportunities to build skills in leadership is likely to contribute to improving qualifications of nurses for leadership positions. Further work to increase opportunities for associate degree staff nurses to complete a bachelor's degree, which includes leadership skill development, will also help support nurses in leadership roles.

Section VI. Nurse Faculty

Nurse educators are essential to the basic education and ongoing development of the RN workforce. Among the survey respondents, 1,648 (2.7%) nurses reported working in education as their principal work setting. There were 1,057 nurses who identified nurse faculty as their primary position or function at their principal work setting. Working as nurse faculty in education at universities, technical colleges, and hospitals and health systems in Wisconsin was reported by 900 nurses. In addition, 818 nurses reported working a secondary position as nurse educator. Tables 55 - 57, 60 - 61, and 63 - 64 include results for respondents who reported working as nurse faculty across all settings (n = 1,057). Tables 58 - 59 and 62 include results from nurse faculty with a primary position working in education (university, technical colleges, and hospitals and health systems). The *Nurse Faculty at a Glance* summary is found in Appendix C.

Demographic Patterns among Nurse Faculty

Table 55 describes the demographics of the 1,057 nurse faculty in Wisconsin. Nurse faculty are predominantly female (95%) and reported their primary racial identity as White (992, 93.9%). The racial and ethnic diversity of nurse faculty is 7.2%. Small proportions report racial/ethnic identities in these categories: African American (35, 3.3%), Hispanic (21, 2.0%), Asian (10, 0.9%), and American Indian or Alaska Native (4, 0.4%). The mean age of all nurse faculty was 50.6 years, with a range from 23 years to 81 years.

The survey asked respondents to report their highest degree in nursing, as well as their highest degree in any field. Most nurse faculty reported their highest nursing degree was at the master's level (634, 60%), with 85 (8%) reporting the DNP and 80 (7.6%) reporting the PhD in nursing. A total of 206 (19.5%) nurse faculty respondents have attained a doctoral level degree in any field.

Table 55. Nurse Faculty Demographics (n = 1,057)

	n	%
Male	53	5.0
Female	1,004	95.0
Mean age (SD)	50.6 (11.9)
Diverse	76	7.2
Not diverse	981	92.8
Highest Nursing Degree		
Diploma in nursing	7	0.7
ADN	94	8.9
BSN	150	14.2
MSN	634	60.0
DNP	85	8.0
DNS or ND	6	0.6
PhD in nursing	80	7.6
Highest Degree Earned		
Diploma	*	*
AD	90	8.5
BS	146	13.8
MS	611	57.8
Doctorate, any field	206	19.5

Note. Table 55 includes responses to survey questions 4, 26, 36, 63 – 66.

Table 56 displays nurse faculty respondents by all degree types and mean age. Nurse faculty prepared at a doctoral level report a mean age of 54.6 years.

Table 56. Nurse Faculty Age by Degree (n = 1,057)

Highest Degree Earned	n	Mean	SD	Range
Diploma	*	61.5	11.5	48 - 76
AD	90	43.0	13.3	23 - 71
BS	146	45.3	12.4	23 - 73
MS	611	51.6	10.7	25 - 80
Doctorate, any field	206	54.6	11.9	30 - 81

Note. Table 56 includes responses to survey questions 4, 36, 63.

Employment Patterns for Nurse Faculty by Setting and Region

Table 57 describes the primary work settings reported by nurse faculty respondents. Of the 1,057 nurse faculty, the majority (900, 85.1%) reported working in education as their primary work setting. There were 71 nurse faculty who reported working in hospitals.

Table 57. Nurse Faculty Principal Place of Work (n = 1,057)

Principal Place of Work	n	%
Hospital	71	6.7
Ambulatory care	23	2.2
Nursing home or extended care	31	2.9
Home health	6	0.6
Public health or community health	8	0.8
Education	900	85.1
Other	18	1.7

Note. Table 57 includes responses to survey questions 36, 37.

Table 58 describes faculty working in education by type of education setting. The majority of nurse faculty working in education report working in a university, followed by technical college.

Table 58. Education Work Setting of Nursing Faculty (n = 900)

Education Setting	n	%
University	467	51.9
Technical College	388	43.1
Hospitals and Health System	45	5.0

Note. Table 58 includes responses to survey questions 36, 37.

Table 59 displays the number of nurse faculty working in education by DHS region. The Southeastern region has the highest number of nurse faculty (376), while only 67 nurse faculty reported working in the Northern region. This finding may reflect the differences of geographic distribution of nursing schools in each region, with fewer schools in the Northern region.

Table 59. Nurse Faculty in Education by DHS Region (n = 900)

DHS Region	Total Nursing $n = 900$		University $n = 467$			al College 388	Hospital/Health System n = 45	
	n	%	n	%	n	%	n	%
Southern	135	15.0	59	12.6	63	16.2	13	28.9
Southeastern	376	41.8	236	50.5	127	32.7	13	28.9
Northeastern	192	21.3	103	22.1	82	21.1	7	15.9
Western	130	14.4	61	13.1	59	15.2	10	22.2
Northern	67	7.4	8	1.7	57	14.7	*	*

Note. Table 59 includes responses to survey questions 26, 36.

Faculty Intentions Regarding Future Work and Education

Table 60 displays nurse faculty plans to stay in current type of employment. A concerning finding of this survey is that 32.7% of nurse faculty reported an intent to stay in their current employment for less than five years, and 56% reported an intent to stay in their current employment for less than 10 years.

Table 60. Nurse Faculty Intent to Stay in Current Type of Employment – All Degrees (n = 1,057)

Years	п	%
Not applicable	6	0.6
< 2	124	11.7
2 – 4 5 – 9	222	21.0
5-9	246	23.3
10 – 19	270	25.5
20 – 29	124	11.7
≥ 30	65	6.1

Note. Table 60 includes responses to survey questions 17, 36.

The intent to continue in current employment is more concerning when considering only nurse faculty with the PhD. Table 61 displays the intent to work in current type of employment for nurse faculty who reported a PhD in nursing and other fields. Of nurse faculty with a PhD, 37.8% report an intent to work in current type of employment for less than five years, while 65.9% reported this intent for less than 10 years.

Table 61. Nurse Faculty with PhD in Nursing or Other Fields Intent to Stay in Current Type of Employment (n = 135)

Years	n	%
Not applicable	*	*
< 2	21	15.6
2 – 4	30	22.2
5 – 9	38	28.1
10 – 19	29	21.5
20 – 29	11	8.1
≥ 30	*	*

Note. Table 61 includes response to survey questions 4, 17, 36.

^{*}Too few to report.

Table 62 displays the intention of nurse faculty in education settings (universities, technical colleges, and hospitals) to continue working in their current type of employment. There were 106 nurse faculty in education who reported intentions to work in their positions for less than two years, with another 185 less than five years. This represents one-third of the nurse faculty intending to work in their positions for five years or less and 57% for less than 10 years

Table 62. Nurse Faculty in Education to Stay in Current Type of Employment (n = 900)

	Total		University		Technical College Hospital/Health System			
Years	n	%	n	%	n	%	n	%
< 2	106	11.8	53	11.4	48	12.4	*	*
2-4	185	20.6	94	20.2	79	20.4	12	27.3
5 – 9	221	24.6	112	24.0	100	25.8	9	20.5
10 – 19	237	25.7	119	25.5	108	27.9	10	22.7
20 – 29	101	11.2	57	12.2	39	10.1	*	*
≥ 30	47	5.2	31	6.7	13	3.4	*	*

Note. Table 62 includes responses to survey questions 17, 36, 37.

78

^{*}Too few to report.

Table 63 displays the intent of nurse faculty to pursue further education. Of the 1,057 faculty, 37 are enrolled in PhD in nursing programs and 46 are enrolled in DNP programs. In addition, 206 nurse faculty have an intent to pursue further education in the next two years. The cost of tuition and fees was reported as the most frequent barrier to pursuing further education.

Table 63. Nurse Faculty Plans for Further Education and Barriers to Pursue Education

Plans for Further Education (n = 1,057)	n	%
No plans	686	64.9
Enrolled in BSN	16	1.5
Enrolled in MSN	32	3.0
Enrolled in MS in related field	*	*
Enrolled in DNP	46	4.4
Enrolled in PhD in nursing	37	3.5
Enrolled in PhD in related field	11	1.0
Enrolled in specialty certificate	18	1.7
Plan to pursue further education within next 2 years	206	19.5
Barriers to Pursuing Additional Education ^a (n = 1,057)		
Commuting distance to education program	29	1.8
Cost of loss of work time and benefits	195	12.1
Cost of tuition and fees	533	33.1
Family or personal reasons	311	19.3
Lack of flexibility in work schedule	106	6.6
Limited access to online learning or other resources	7	0.4
Schedule of educational programs offered	39	2.4
None identified	308	29.1
Other	82	5.1

Note. Table 63 includes responses to survey questions 6, 7, 36.

^aRespondents could check two challenges.

^{*}Too few to report.

Nurse Faculty Clinical Specialty Knowledge

Certification as a nurse educator was reported by 174 (0.2%) of all respondents. Among nurse faculty (900), 337 (37.4%) reported holding at least one current national board certification. The proportion of nurse faculty holding national certification was higher for nurse faculty in university settings (217, 46.5%) than in technical college settings (104, 26.8%) (See Appendix C). Table 64 displays the clinical specialty knowledge of nurse faculty with more than two years of professional experience. Medical-surgical nursing, adult health, and critical care were the most frequently reported specialties.

Table 64. Areas of Clinical Specialty Knowledge and Experience (n = 1,057)

Current Practice in Primary Position	n	0/0
Acute care/critical care/intensive care	335	31.7
Adult health	364	34.4
Addiction/AODA/substance abuse	69	6.5
Anesthesia	21	2.0
Cardiac care	230	21.8
Community health	192	18.2
Correctional health	23	2.2
Dialysis	35	3.3
Emergency care	134	12.7
Family health	128	12.1
Geriatrics/gerontology	273	25.8
Home health	131	12.4
Hospice or palliative care	136	12.9
Labor and delivery	111	10.5
Maternal-child health	136	12.9
Medical-surgical	470	44.5
Neonatal care	62	5.9
Obstetrics-gynecology	81	7.7
Occupational or employee health	43	4.1
Oncology	80	7.6
Pediatrics	130	12.3
Parish or faith community	36	3.4
Psychiatric or mental health	119	11.3
Public health	116	11.0
Rehabilitation	72	6.8
Respiratory care	34	3.2
School health	80	7.6
Surgery/pre-op/post-op/PACU	110	10.4
Women's health	101	9.6

Current Practice in Primary Position	n	%
Other	194	18.4
None of the above	26	2.5

Note. Table 64 includes responses to survey questions 14, 36.

Comparing 2016 and 2018

- The number of male faculty increased from 37 (3.6%) in 2016 to 53 (5.0%) in 2018.
- The racial diversity of faculty increased from 5.9% diverse in 2016 to 7.2% diverse in 2018.
- The mean age of faculty was stable from 2016 (50.8 years) to 2018 (50.6 years).
- The DNP as the highest nursing degree reported by nurse faculty respondents increased from 5.6% (57) in 2016 to 8.0% (85) in 2018. The PhD as the highest nursing degree was stable between the two surveys (7.9%, 81 in 2016 and 7.6%, 80 in 2018).
- The number of MSN faculty increased from 590 (57.6%) in 2016 to 634 (60%) in 2018.
- The proportion of nurse faculty who reported the intent to continue with their present type of employment for less than five years dropped slightly from 2016 (33.8%) to 2018 (32.7%).
- The number of RNs in Wisconsin working as nurse faculty in education increased from 825 in 2016 to 900 in 2018.

Discussion and Recommendations

The proportion of nurse faculty who reported male gender continues to be lower than the overall proportion of the state nursing workforce reported to be male (7.5%), as well as the proportion of the national nursing workforce reported to be male (9.1%) (Smiley et al., 2018). Small gains in racial diversity among faculty were noted over the last survey. Additional efforts to recruit men into faculty positions and to increase the racial and ethnic diversity of faculty are essential.

The overall increase in faculty prepared at the master's and doctoral level is a positive finding. However, there are only 206 nurse faculty members prepared at a doctoral level in the state. The low number prepared with the PhD is particularly concerning given the importance of nursing research and the preparation of future nurse faculty and nurse researchers. The finding that over half (56.6%) of all nurse faculty and 65.9% of nurse faculty prepared at the PhD level reported an intent to stay in their positions less than 10 years is a concern. While this reflects the high mean age of nurse faculty (50.6 years), it also points to the urgent need to continue to invest in preparation of the next generation of nurse faculty. Current master's prepared faculty could be an important future source of faculty with doctoral preparation. However, the number of faculty reporting plans to continue their education to obtain doctoral degrees is low. Cost of tuition and fees are the most frequently reported barriers for pursuing additional education.

The American Association of Colleges of Nursing (AACN, 2017) reported that faculty shortages and budget constraints are key factors limiting nursing school capacity. A special survey on vacant faculty positions reported a national faculty vacancy rate of 8.0% in public schools, with a Midwest regional vacancy rate of 6.8% (Li, Turinetti, & Fang, 2019). An earned doctorate in nursing or allied field is required in 56.1% of the full-time vacant positions (Li et al., 2019). The AACN suggests faculty retirements are increasing nationally.

Given that two-thirds of faculty reported plans to stay in nursing education for less than 10 years, the faculty vacancy rate in Wisconsin is likely to worsen. Faculty shortage is a major contributor

to overall nurse shortage. Given the length of time to educate and prepare nurse faculty, immediate efforts to mitigate the shortage are needed. Schools of nursing, based on mission and programming, should carefully determine the appropriate size and educational mix of faculty and develop targeted recruitment and retention plans. Wisconsin nursing schools, in partnership with health care organizations and policy makers, should develop robust plans to recruit and retain nurse faculty. Continued efforts to increase the faculty pipeline should focus on innovative programming to decrease time to degree, increase educational scholarships and loan forgiveness programs, and support competitive salaries. A shortage of faculty at a time when increasing numbers of nurses are needed due to changing population demographics could result in significant bottlenecks to educating the future nurse workforce and meeting the care demands for Wisconsin.

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Appendix A: 2018 Wisconsin RN Survey



2018 Registered Nurse Workforce Survey Information to Grow Wisconsin's Workforce!

The Registered Nurse Workforce Survey was created to collect critical information on the nursing profession in Wisconsin. Your careful survey responses will be used to help plan future nursing care for the people of Wisconsin.

The Survey is designed to be as **simple and quick** as possible while gathering **critical information** about the RN Workforce. Your responses are important for an accurate representation of nursing in Wisconsin.

Thank you for taking the time to participate in this important survey

The survey may take between 10 to 20 minutes. You will not be asked every question in the survey. The information you provide will determine the questions asked.

No personal information or information from your license is attached to your survey responses.

Please have the following information available before you begin:

- 1. The year you received your **first RN license**. To find this date, go to https://app.wi.gov/LicenseSearch/
- 2. The year(s) you received your **diploma(s)**
- 3. Country or county and zip code of your current place(s) of work.

Complete, and return the survey and signed affidavit to DSPS:

Fax: 608-251-3036

Email: DSPSRenewal@wisconsin.gov

Mail: DSPS - Renewal Unit

PO Box 8935

Madison, WI 53708-8935

If you have questions concerning your license renewal, payment or you are experiencing technical difficulties while taking the survey, please contact the Department of Safety and Professional Services (DSPS) at DSPSRenewal@wisconsin.gov or by calling 608-266-2112. Please allow 2-3 business days for assistance. **Please note that making multiple requests for assistance slows down agency response time.**

Use the email address NursingSurvey@dwd.wisconsin.gov if you need help answering the survey questions, or have additional comments or suggestions.

This email address is active only during the open renewal period.

LICENSING, EDUCATION, AND TRAINING INFORMATION

Licensing

1.	In what country were you initially licensed as a nurse?
	U.S.
	Another Country
2.	In what year did you obtain your initial U.S. licensure as an RN?
	Enter a 4-digit year between 1930 and 2018
3.	In what year did you obtain your first Wisconsin license as an RN?
	Enter a 4-digit year between 1930 and 2018 (To look up first year of licensure go to https://app.wi.gov/LicenseSearch/)
E	ducation
4.	For each of the following nursing diplomas or degrees you have received, please enter the year you received the diploma or degree.
	Enter a 4-digit year between 1930 and 2018 for all that apply:
	Practical Nursing or Vocational Nursing Diploma
	Diploma in Nursing
	Associate Degree in Nursing
	Bachelor Degree in Nursing
	Bachelor Degree in a related field
	Master's Degree in Nursing or related health field
	Master's Degree in a related health field
	Doctor of Nursing Practice
	Doctor of Nursing Science or Nursing Doctorate (DNSc, DSN, ND or DN)
	PhD in Nursing
	PhD in a related field
5.	For your most recent degree, did you receive the degree from a Wisconsin based college or university?
	Yes
	No
	

Please indicate your plans for further education: (Select only one response)	
I have no plans for additional nursing studies Currently enrolled in a BSN program Currently enrolled in a Master's degree program in nursing Currently enrolled in a Master's degree program in a related health field Currently enrolled in a Doctor of Nursing Practice program Currently enrolled in a Nursing PhD program Currently enrolled in a PhD program in a related field Currently enrolled in a non-degree specialty certification program Plan to pursue further education in nursing in the next two years	
7. What are the two greatest challenges you face or anticipate in pursuing higher nursing (Select at most only two responses)	education?
 None Commuting distance to educational program Cost of lost work time and benefits Cost of tuition, materials, books etc. Family/personal reasons Lack of flexibility in work schedule Limited access to online learning or other online resources Scheduling of educational programs offered Other, not listed 	
Training	
8. Have you received training in emergency preparedness and response (such as Incident System (ICS) 100, 200, 700; Hazardous Materials, etc.)? (Check all that apply)	Command
 No Yes I have received this training from my employer. Yes I have received this training from a voluntary organization (e.g. Red Cross Yes other. 	5)
9. Have you applied training in emergency preparedness and response? (Check all that a	pply)
No Yes, I have participated in an emergency preparedness and response exercise years Yes, I have responded to an actual emergency, incident, or major disaster with years	
10. Are you a member of the following: (Check all that apply)	
Wisconsin Emergency Assistance Volunteer registry (WEAVR)Medical Reserve Corps (MRC) unitNo, I am not a member	

CURRENT EMPLOYMENT INFORMATION

Please take into account **only your current employment status** while answering the following questions. **Do not include unpaid volunteer work.**

11.	Please indicate your employment status: (Select only one response)
	Actively working as a nurse (receiving compensation for work requiring licensure or educational preparation as a nurse)
	Actively working in health care, not nursing
	Actively working in another field
	Unemployed, seeking work in nursing
	Unemployed, seeking work in another field
	Unemployed, not seeking work
	Retired
12.	Has your employment status changed during the past year? (If you have experienced more than one change, please select the most significant change .)
	No change in employment status
	Yes I changed the number of hours worked
	New position with the same employer
	New position with a different employer
	I was not working as a registered nurse, but am now in a registered nursing job
	I was working as a registered nurse but I am no longer working as a registered nurse Other
	Which of the following factors was the most important in your change in employment during the past year? (Select only one response)
	Not applicable
	I retired
	Childcare responsibilities
	Other family responsibilities
	Salary/medical or retirement benefits
	Laid off
	Change in spouse/partner work situation
	Change in financial status
	Relocation/moved to a different area
	Promotion/career advancement
	Change in my health status
	Seeking more convenient hours
	Dissatisfaction with previous position
	Other

NURSING CAREER INFORMATION

Please take into account **all your nursing work experiences**, **including unpaid volunteer nursing work**, when answering the questions in this section.

14. Please indicate any o experience of two or r (Check all that apply)	f the clinical areas listed below in which you have specialized knowledge and/or nore years:
None	
	Critical Care/Intensive Care
	DDA/Substance Abuse
Adult Health	DA Substance Abuse
Anesthesia	
Cardiac Care	
Cardiac Care	
Corrections	Gaitti
Dialysis/Rena	al .
Emergency/T	
Emergency/1	
Geriatrics/Ge	
Home Health	
	e/ Palliative Care
Labor and De	
Maternal-Chil	•
Medical-Surg	
Neonatal Car	
Obstetrics/Gy	
	Health/Employee Health
Oncology	Tioditi // Employee Tioditi
Pediatrics	
Parish/Faith (Community
Public Health	•
Psychiatric/M	
Rehabilitation	
Respiratory C	
	n (K-12 or post-secondary)
	pp/Post-op/ PACU
Women's Hea	
Other, not list	
15. Please indicate the sp (Check all that apply)	pecialties in which you hold current national board certification:
I am not certi	ïed
Acute Care/C	ritical Care
Addiction/AO	DA
Adult Health	
Ambulatory C	are Nursing
Anesthesia (0	-
	abilitation Nursing
Cardiac-Vasc	-
	ement Nursing
College Healt	

 Community Health
Diabetes Management - Advanced
Domestic Violence/Abuse Response
Emergency Nursing (CEN®, CFRN®)
Family Health
Family Planning
Gastroenterology (CGRN)
General Nursing Practice
Gerontological Nursing
 High-Risk Perinatal Nursing
Home Health Nursing
Hospice and Palliative Nursing (CHPN®, ACHPN®)
Informatics Nursing
Infusion Nursing (CRNI)
Legal Nurse Consultant (LNCC®)
Medical-Surgical Nursing
Medical-Surgical Nursing (CMSRN®)
Neonatal
Nephrology (CNN, CDN)
Neurology (CNRN)
Nurse Educator (CNE)
Nurse Executive (CENP)
Nurse Executive - Advanced
Nurse Manager and Leader (CNML)
Nursing Case Management
Nursing Professional Development
OB/GYN/Women's Health Care
Occupational Health (COHN)
Orthopedic Nursing (ONC®)
Oncology Nursing (OCN®, CPON®, CBCN, AOCNP®, AOCNS®)
Parish Nurse
Perianesthesia (CPAN®, CAPA®)
Peri-Operative (CNOR®)
Pain Management
Pediatric Nursing
Perinatal Nursing
Public/Community Health
Public Health Nursing-Advanced (APHN)
Psychiatric & Mental Health Nursing
Psychiatric & Mental Health Nursing-Advanced (APMHN)
Radiology/Invasive Procedures Lab
Rehabilitation (CRRN®)
 Respiratory/Pulmonary Care
School Nursing
School Nursing (NCSN®)
Transplant
Wound/Ostomy Nursing (CWOCN, CWCN, COCN, CCCN, CWON)
Other, not listed

decisions today?	
I am retired/not working	
Level of personal satisfaction/ collegial relationships	
Family/personal issues	
Pay	
Medical Benefits	
Retirement benefits	
Hours/shift availability	
Potential for advancement	
Employer supported education options	
Worksite location	
Physical work requirements	
Physical disability	
Other	
17. How much longer do you plan to work in your present type of employment? (Select only one response)	
Not applicable	
Less than 2 years	
2-4 years	
5-9 years	
10-19 years	
20-29 years	
30 or more years	
18. In which setting(s) do you have a designated/appointed/ or elected formal leadership role? (Chec all that apply)	ж
Work Area (e.g. Charge Nurse, Team Leader, Unit Manager)	
Organizational Level (e.g. Dean, CNO, Director)	
Governance Board (e.g. Board of Trustees)	
Public Official (e.g. County Board of Supervisors, state legislator)	
Chair of major committee in the organization of your primary position	
None	
19. If you are not engaged in a leadership role, what are the two most significant barriers? (Select at most two responses)	
Does not apply (If you check this please continue to the next question)	
Lack of leadership development/preparation	
Lack of opportunity	
Other personal priorities	
Presently, I am not interested in a leadership role	

20. In your career, how many years have you worked as a Registered Nurse providing direct patient care?
Direct patient care (DPC) is defined as, "To administer nursing care one-on-one to patients, the ill the disabled, or clients, in the hospital, clinic or other patient care setting." Examples include providing treatments, counseling, patient education or administration of medication.
Number of years
21. If you presently provide direct patient care, how much longer do you plan to work providing direct patient care?
Does not apply
Less than 2 years
2-4 years
5-9 years
10-19 years
20-29 years
30 or more years
22. How many separate nursing jobs do you currently have? (Including unpaid volunteer nursing work)
Number of jobs
If you answered 0 jobs to this question, please skip to the UNEMPLOYED SECTION, Question 61.
PRINCIPAL PLACE OF WORK
Please respond to the following questions by referring to your principal place of work (the place where you work the most hours), even if this work is unpaid or voluntary.
23. Which of the following categories best describes your job at your principal place of work? (Select only one response)
Nursing
Health related services outside of nursing
Retail sales and services
Nursing education
Financial, accounting, and insurance processing staff
Consulting
Other
I am not working at the present time.
If not working, please skip to the UNEMPLOYED SECTION, Question 61.
24. Does this job require licensure as a Registered Nurse?
Yes
No
25. Which of the following categories best describes your employment at this job? (Select only one response)
A regular employee

	Self-employed
	Employed through a temporary employment service agency
	Travel nurse or employed through a traveling nurse agency
	Volunteer
26.	What is the zip code of your principal place of work ?
	(If you travel to more than one location during a normal day or week of work, please provide the zip
	code of your headquarters.)
	Zip code (if in the U.S.)(5 digits only)
	Outside of U.S.
-	
27.	If you work in Wisconsin, in what county is your principal place of work located?
	Does not apply
	Specify name of Wisconsin county:
00	
28.	What is your current employment basis for this principal position? (Select only one response)
	(Golder Grilly Gric Tosponico)
	Full time, salaried
	Full time, hourly wage
	Part time, salaried
	Part time, hourly wage
	Per diem (called as needed)
	Volunteer
20	In this job, how many hours do you work in a typical day?
29.	In this job, how many hours do you work in a typical day ? (Do not include time spent on-call.)
	Number of hours
30	In this job, on average how many days do you work in a two week time period ?
00.	(Do not include time spent on-call.)
	Number of days
	Number of days
31.	For what reason would you work more than your scheduled hours for the two week time period?
	(Select only one response)
	I am salaried
	I have agreed to this as part of my employment
	I am required to work the additional hours (not on-call)
	I am required to work the additional hours (on-call)
	I may voluntarily agree to work the additional hours
32.	How many weeks did you work (including paid vacations) in calendar year 2015?
	Number of weeks
22	Does your componentian from your principal wealting position in all day
აა.	Does your compensation from your principal working position include: (Check all that apply)

	Retirement plan
	Dental insurance
	Personal health insurance
	Family health insurance
	None
34.	How long have you worked in your principal job?
	Number of years (please round up to the nearest year)
35.	In your current role, is your primary function to provide direct patient care ?
	Direct patient care (DPC) is defined as, "To administer nursing care one-on-one to patients, the ill, the disabled, or clients, in the hospital, clinic or other patient care setting." Examples include providing treatments, counseling, patient education or administration of medication.
	(Select only one response)
	Yes
	No
36.	Which one of the following best _describes your position or function at your principal place of work? (Select only one response)
	Staff Nurse
	Case manager/Care Coordinator
	Staff Other Non-Medical Industry
	
	Nurse Manager
	Manager Other Non-medical industry
	Advanced Practice Nurse
	Consultant/Contractor
	Administrator
	Nurse Executive
	Nurse Faculty
	Nurse Researcher
	Other
37.	Please select only one in the categories below as best describing your principal place of work . (The headings are intended as guides only)
	Hospital (Medical/Surgical, AODA/Psychiatric, Long-Term Acute Care)
	Hospital, emergency/urgent care
	Hospital, 24 hour inpatient unit (other than intensive care or obstetrics)
	Hospital, outpatient/ambulatory care
	Hospital, obstetrics
	Hospital, intensive care
	Hospital, inpatient mental health/substance abuse
	Hospital, long-term acute care
	Hospital, perioperative services (OR, PACU, and others)
	Hospital other departments

Hospital, I work in several/all hospital units	
Extended Care (Nursing, Hospice, CBRF, RCAC, and AFH	Facilities)
Nursing Facility	,
Skilled Nursing Facility (nursing care to residents that require continuous skilled nursing observation)	e some medical attention and
Hospice facility	
Intermediate Care Facility of the Intellectually Disabled (ICF-	·ID)
Assisted Living Facility (CBRF, Community Based Residenti	al Facility)
Assisted Living Facility (RCAC, Residential Care Apartment	Complexes)
Adult Family Homes (AFH/Group Home)	
Ambulatory Care (Employee Health, Outpatient Care, Clinic	cs, Surgery Center)
Medical practice, clinic, physician office,	
Surgery center, dialysis center	
Urgent care, not hospital-based	
Outpatient mental health/substance abuse	
Correctional facility, prison or jail (federal, state or local)	
Occupational health or employee health service	
Home Health (Private Home)	
Home health agency	
Home health service	
Hospice	
Public/Community Health	
Public health (governmental: federal, state, or local)	
Community health centers, agencies and departments	
Parish nurse services	
School health services (K-12, college and universities)	
Nurse/Educator	
Education- Universities	
Education Technical Colleges	
Education Hospital/Health System	
Other (Insurance, call center etc.)	
Call center/tele-nursing center	
Government agency other than public/community health or c	
Non-governmental health policy, planning or professional or	ganization
Insurance Company Claims/Benefits	
Sales (pharmaceutical, medical devices, software, etc.)	
Self-employed/consultant	
Other	
s this a federally owned facility?	
Yes	
No	

39. Is this a tribal facility?	
Yes	
No	
SECONDARY PLACE OF WORK	
40. Do you have a secondary place of work?	
Yes	
No	
If No, please skip this section and go to the ADVANCED PRACTICE NURSING section, an with Question 48.	d start
Please respond to the following questions by referring to your secondary place of work eve this is unpaid voluntary work.	n if
41. Which of the following categories best describes your job at your secondary place of work?	
Nursing	
Health related services outside of nursing	
Retail sales and services	
Nurse Education	
Financial, accounting, and insurance processing staff	
Consulting	
Other	
42. Does this job require licensure as a Registered Nurse?	
Yes	
No	
43. What is the zip code of your secondary place of work ? (If you travel to more than one location during a normal day or week of work, please provide the zip code of your headquarters.)	n
Zip code (if in the U.S.)(5 digits only)	
Outside of U.S.	
44. If your secondary place of work is in Wisconsin, what county is your secondary place of work located?	
Does not apply	
Specify name of Wisconsin county:	
• •	
45. In your secondary job, how many hours do you work in a typical day ? (Do not include time spent on-call.)	
Number of hours	

46. In your **secondary** job, on average how many days do you work in a **two week time period**?

ADVANCED PRACTICE NURSING In Wisconsin, Advanced Practice Nurses (APNs) are legally defined. (1) "Advanced practice nurse" means a registered nurse who possesses the following qualifications: (a) The registered nurse has a current license to practice professional nursing in this state, or has a current license to practice professional nursing in this state, or has a current license to practice professional nursing in this state, or has a nurse practitioner, certified nurse—midwife, certified registered nurse anesthetist or clinical nurse specialist; and, (c) For applicants who receive national certification as a nurse practitioner, certified nurse—midwife, certified registered nurse anesthetist or clinical nurse specialist; and, (c) For applicants who receive national certification as a nurse practitioner, certified nurse—midwife, certified registered nurse anesthetist or clinical nurse specialist after July 1, 1998, the registered nurse holds a master's degree in nursing or a related health field granted by a college or university accredited by a regional accrediting agency approved by the board of education in the state in which the college or university is located. 1 "Doctor of Nursing Practice is acceptable alternative to the master's degree (DSPS position statement) (2) "Advanced practice nurse prescriber" means an advanced practice nurse who has been granted a certificate to issue prescription orders under s. 441.16 (2), Stats. For more information refer to the Wisconsin Legislative Documents for Nursing N 8.02 Definitions: https://docs.legis.wisconsin.gov/code/admin.code/n/8/02/1 48. Indicate if you currently have national certification as an APN by the definition given in this survey. (Check all that apply) — Nurse Practitioner (NP) — Certified Registered Nurse Anesthetist (CRNA) — Cilnical Nurse Specialist (CNS) — Advanced Practice Nurse Prescriber (APNP) — None of the above. If None of the above, please go to the DEMOGRAPHIC INFORMATION section, and start with Question 63.		(Do not include time spent on-call.)
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In Wisconsin, Advanced Practice Nurses (APNs) are legally defined. (1) "Advanced practice nurse" means a registered nurse who possesses the following qualifications: (a) The registered nurse has a current license to practice professional nursing in this state, or has a current license to practice professional nursing in another state which has adopted the nurse licensure compact; (b) The registered nurse is currently certified by a national certifying body approved by the board as a nurse practitioner, certified nurse—midwife, certified registered nurse anesthetist or clinical nurse specialist; and, (c) For applicants who receive national certification as a nurse practitioner, certified nurse—midwife, certified registered nurse anesthetist or clinical nurse specialist after July 1, 1998, the registered nurse holds a master's degree in nursing or a related health field granted by a college or university accredited by a regional accrediting agency approved by the board of education in the state in which the college or university is located. **Doctor of Nursing Practice is acceptable alternative to the master's degree (DSPS position statement) (2) "Advanced practice nurse prescriber" means an advanced practice nurse who has been granted a certificate to issue prescription orders under s. 441.16 (2), Stats. For more information refer to the Wisconsin Legislative Documents for Nursing N 8.02 Definitions: https://docs.legis.wisconsin.gov/code/admin.code/n/8/02/1 48. Indicate if you currently have national certification as an APN by the definition given in this survey. (Check all that apply) — Nurse Practitioner (NP) — Certified Registered Nurse Anesthetist (CRNA) — Clinical Nurse Specialist (CNS) — Advanced Practice Nurse Prescriber (APNP) None of the above, please go to the DEMOGRAPHIC INFORMATION section, and start with Question 63. 49. If you are a currently certified Nurse Practitioner (NP), please indicate your specialty(s): (Check all that apply)		Number of weeks
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Question 63. 49. If you are a currently certified Nurse Practitioner (NP) , please indicate your specialty(s): (Check all that apply) Does not Apply		None of the above
(Check all that apply) Does not Apply		
		
		Does not Apply
		

	Not currently certified
	Acute Care NP
	Adult NP
	Adult Psychiatric & Mental Health NP
	College Health NP
	Diabetes Management NP – Advanced
	Emergency Nursing NP
	Family NP
	Family Planning NP
	Family Psych & Mental Health NP
	Gerontological NP
	Neonatal NP
	OB-Gyn / Women's Health Care NP
	Pediatric NP
	School NP
	Clinical Nurse Leader (CNL)
	Other Specialty NP
	Other openiaty M
50.	If you are a currently certified Clinical Nurse Specialist (CNS) , please indicate your specialty(s): (Check all that apply)
	Does not Apply
	No specialty designation
	Not currently certified
	Acute and Critical Care CNS-Adult
	Acute and Critical Care CNS-Pediatric
	Acute and Critical Care CNS-Neonatal
	Adult Health CNS
	Adult Psychiatric & Mental Health CNS
	Child & Adolescent Psych & Mental Health CNS
	Diabetes Management CNS – Advanced
	Home Health CNS
	Gerontological CNS
	Medical-Surgical CNS
	OB-Gyn / Women's Health Care
	Palliative Care - Advanced
	Pediatric CNS
	Community /Public Health CNS
	Other Specialty CNS
51.	Are you currently working as an Advanced Practice Nurse (APN)?
	Yes
	If No, please go to the DEMOGRAPHIC INFORMATION section, and start with Question 63.
	1.15, placed go to the Democratino in order from coolidit, and start with Question 00.
52.	Please indicate your population focus as an Advanced Practice Nurse: (Select only one response)
	Family/Individual Across Lifespan

	Adult-Gerontology
	Neonatal
	Pediatric
	Women's Health/Gender-related
	Psychiatric-Mental Health
53	. Do you provide outpatient primary care* or outpatient mental health services at your principal place of work ? (Where you spend the most time providing primary care or outpatient mental health services)
	*Primary Care is defined as providing first contact and continuing care, including basic or initial diagnosis and treatment, health supervision, management of chronic conditions, preventive health services, and appropriate referral(s)
	Yes
	No No
	If No, please go to Question 57
	11 No, please go to Question 57
54.	What type of care do you provide at this location? (Check all that apply)
	Family
	Women's health
	Certified Nurse Midwife services
	Pediatric
	Adult
	Geriatric
	Mental health services
	Other
	34161
55.	If you provide primary care on an outpatient basis , what is the <i>average number of hours per week</i> you provide direct patient care at this practice location? (Do not include on-call time, administrative, teaching or research time):
	Number of hours
56.	If you provide mental health services on an outpatient basis , what is the <i>average number of hours per week</i> you provide direct patient care at this practice location? (Do not include on-call time, administrative, teaching or research time):
	Number of hours
57.	Do you provide primary care or outpatient mental health services at your secondary place of work ?
	Yes
	No
	If No, please go to the DEMOGRAPHIC INFORMATION section, and start with Question 63.
58.	What type of care do you provide at this second location? (Check all that apply)
	Family
	Women's health

	Certified Nurse Midwife services
	Pediatric
	Adult
	Geriatric
	Mental health services
	Other
59.	If you provide primary care on an outpatient basis , what is the <i>average number of hours per week</i> you provide direct patient care at this second practice location? (Do not include on-call time, administrative, teaching or research time)
	Number of hours
60.	If you provide mental health services on an outpatient basis , what is the <i>average number of hours per week</i> you provide direct patient care at this second practice location? (Do not include on-call time, administrative, teaching or research time):
	Number of hours
	Please go to the DEMOGRAPHIC INFORMATION section, and start with Question 63.
UN	IEMPLOYED SECTION
C4	Which of the fallowing heat describes your support intentions are usually assessed in according
01.	Which of the following best describes your current intentions regarding work in nursing? (Select only one response)
	Currently seeking employment in nursing
	Plan to return to nursing in the future
	I am retired/unable to return to nursing
	Definitely will not return to nursing, but not retired
	Undecided at this time
62.	What factors would influence you to return to nursing? (Check all that apply)
	I would not consider returning
	Modified physical requirements of job
	Affordable childcare at or near work
	Improvement in my health status
	Improved health care benefits
	Retirement benefits
	More or flexible hours
	Opportunity for career advancement
	Improved pay
	Shift
	Work environment
	Worksite location
	Other
	Please continue to the DEMOGRAPHIC INFORMATION section, and start with Question 63.
	. 1333 33. Lind to the Believe of the first of the transfer of the state with Quotient to.

DEMOGRAPHIC INFORMATION

63. What is your year of birth?

	Enter a 4-digit year between 1915 and 1995.
64.	What is your gender?
	Female
	Male
65.	Are you of Hispanic, Latino, or Spanish ethnicity?
	Yes
	No
66.	Which of the following would you use to describe your primary racial identity? (Select the most appropriate)
	White
	Black or African American
	American Indian or Alaska Native
	Asian
	Native Hawaiian or Other Pacific Islander
	Two or more races
67.	Please indicate languages, other than English, in which you can communicate with patients and pose questions about their condition:
	No other languages
	Spanish
	Filipino, Tagalog
	German
	French
	Russian
	Hmong
	Hindi
	Polish
	American Sign Language
	Other
68.	Please enter the zip code of your primary residence :
	Zip code (if in the U.S.)(5 digits only)
	Outside of U.S.
69.	If you reside in Wisconsin, please indicate the county of your primary residence :
	Does not apply
	Specify name of Wisconsin county:

You have successfully completed the survey. Thank you!

Wisconsin Department of Safety and Professional Services

REGISTERED NURSE WORKFORCE SURVEY ATTESTATION FORM

(Must Return with Paper Copy of Survey)

Name:			redential #:		
Last	First	MI			
as required by law.	npleted the enclosed wo I understand that failur by of my renewal and co	re to provide	the reques	sted inf	formation
Signature:			Date:	/	/

Note: This form will be retained by the Department of Safety and Professional Services as documentation that the completed survey was submitted for renewal requirement purposes. If this attestation is not completed and returned with the survey, the renewal requirement cannot be met and renewal of the license will be delayed until the attestation and complete survey are returned together.

Appendix B: 2018 Wisconsin RN Survey At a Glance Summary

TECHNICAL NOTES:

The data reported in this publication reflect the results of a survey mandated under Chapter 106.30 of the Wisconsin Statutes for all registered nurses (RNs) in Wisconsin. The survey was conducted as an element in the biannual license renewal requirement for the year 2018. The mandate was communicated to nurses through numerous venues and organizations, as well as to employers.

Two forms of the Wisconsin 2018 RN Workforce Survey were utilized, an online and paper version. The responses from both forms totaled 90.415. Data summarized in this overview include only responses from the online survey (n=8,93.2). It does not include responses from the paper survey (n=1,211) or responses of RNs who neither lived nor worked in the state of Wisconsin (n=8,293). The results summarized in this overview (n=7,97.50) are based only on data from the online responses after exclusionary criteria were applied to remove any questionable or misleading data. This was done in order to strengthen the validity of the data and to focus on RNs who live and/or work in Wisconsin.

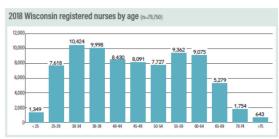
The 2018 survey instrument was constructed and processed by the Wisconsin Department of Workforce Development. Members of the Data Collaborative of the Wisconsin Council on Medical Education and Workforce (WCMEW) and experts from nursing organizations contributed to the survey design and questions. The survey was administered by the Wisconsin Department of Safety and Professional Services.

The survey encompasses multiple characteristics of the RN workforce and contains data elements of the National Nursing Workforce Minimum Dataset: Supply, as developed by The National Forum of State Nursing Workforce Centers, www.nursingworkforcecenters.org.

Detailed analysis of the Wisconsin 2018 RN Workforce Survey was carried out by nurse researchers from the University of Wisconsin-Madison, School of Nursing: Susan I. Zahner, DrPH, MPH, RN, FAAN; Barbara Pinekenstein, DN, RN, BC, FAAN PhO students: lennifer Kowalkowski, MS, MPH, RN, Project Assistant and Sarah Brzozowski, MBA, BSN, RN, NEA-BC. The statistician for the project was betting V. Bendiques, PhD. For complete reports and more information on the nursing workforce and nursing education in Wisconsin go to www.wicenterfornursing.org.

On behalf of the Wisconsin Center for Nursing and the many partners involved with the design, implementation, and analysis of the Wisconsin 2018 M Workforce Survey, we wish to thank all who assisted with the survey and the nurses of Wisconsin for completing the survey. The cooperation and dedication of all involved will aid policy makers and others in assuring a sufficient, competent, and diverse nursing workforce for the people of Wisconsin.

To receive additional copies of this publication, send your request to info@wicenterfornursing.org.





Data Source: Labor Market Information, Wisconsin Department of Workforce Development, 2018.



Wisconsin 2018 RN Workforce Survey







	79,750 (n=79,750) 73,805 5,945 (n=79,750) 13,349 18,042 15,818 18,437 7,676 (n=79,750) 75,118 1,562 1,587 1,417 1,417 1,653 (n=79,750)	92.5 7.5 1.7 22.6 23.1 19.8 23.1 9.6 94.2 2.0 2.0 1.8 2.1
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	1,587 1,417 1,653	2.0 1.8
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	1,653	
		2.1
	(n=79.750)	
	4,121	5.2
	27,617	34.6
	37,884	47.5
	8,811	11.0
	720	0.9
	31	0.0
	259	0.3
arned r	most recent nu	reina
		ising
7,17	7//4.2/0	(n=79,750)
	(n=79,750)	
	68.132	85.4
	2,115	2.7
	1,105	1.4
	993	1.2
	130	0.2
	1,844	2.3
	5,431	6.8
7.9%)	55 & over (%)	Average Age
806	43.7	51
3,748	29.4	46
1,234	34.6	48
7,281	21.3	42
		48
		49 50
	7.9%) 806 3,748 1,234	1,105 993 130 1,844 5,431 7.7%) 55 & over (%) 806 43.7 3,748 29.4 1,234 34.6 7,281 213 2,120 36.5 955 39.0

Niscons Labor N	arket	Total valid	ov -f l: - ! !
	arket	online survey respondents	% of applicable respondents
Registered nurse wor	kforce	(n=79,750)	
Working in healthcare		70,247	88.1
Working in healthcare in	n Wisconsin	62,642	78.5
Primary place of work	in current Wisconsin labor mark	ket (n=63,680)	
Academic education		1.761	2.8
Ambulatory care		12,403	19.5
Home health		3,451	5.4
Hospital		33,165	52.1
Nursing home/extende	d care	5,638	8.9
Public/community healt	h	2,382	3.7
Other	4,880	7.7	
	Numerican positions at animony	lana	
Serves in a	Nursing positions at primary p of work in Wisconsin	(n=63,680)	
Leadership Position	Staff Nurse		(2.1
Governance Boards		39,572	62.1 8.9
761 / 1.0%	Case Manager	5,664 4.313	6.8
	Nurse Manager Advanced Practice Nurse	4,313	7.5
Public Officials	Advanced Practice Nurse Administrator	4,/9/ 863	1.4
226 / 0.3%	Nurse Executive	682	1.1
	Nursing Faculty	1,111	1.7
(n=79,750)	Other	6,678	10.5
Plans to leave Direct	Patient Care (DPC) in Wisconsin	(n=50,062)	
Less than 2 years		3.260	6.5
2-4 years		7,060	14.1
5-9 years		10,102	20.2
10 or more years		28,255	56.4
Current DPC provide	prescriber in Wisconsin	an APN in V	
in Wisconsin 50,062 / 78.6%	3,682 / 67.6%	4,850 /	1.0/0
in Wisconsin		4,850 /	(n=63,680)
in Wisconsin 50,062 / 78.6% (n=63,680	(n=5,448)	.,	
in Wisconsin 50,062 / 78.6% (n=63,680) Advanced Practice No.	(n=5,448) urse (APN) Workforce	(n=79,750)	(n=63,680)
in Wisconsin 50,062 / 78.6% (n=63,680) Advanced Practice No Certified to practice as	(n=5,448) urse (APN) Workforce APN	(n=79,750) 5,623	(n=63,680)
in Wisconsin 50,062 / 78.69 (n=63,680 Advanced Practice Not Certified to practice as Certified to practice as	(n=5,448) urse (APN) Workforce APN APN and working in Wisconsin	(n=79,750) 5,623 4,847	7.1 6.1
in Wisconsin 50,062 / 78.69 (n=63,680 Advanced Practice Not Certified to practice as Certified to practice as	(n=5,448) urse (APN) Workforce APN	(n=79,750) 5,623 4,847	7.1 6.1
in Wisconsin 50,062 / 78.6% (n=63,680 Advanced Practice N: Certified to practice as Certified to practice as Advanced Practice N: Nurse Practitioner	(n=5,448) urse (APN) Workforce APN APN and working in Wisconsin urses in Wisconsin with master's	(n=79,750) 5,623 4,847 or higher (n=4, 2,771	7.1 6.1 491)
in Wisconsin 50,062 / 78.6% (n=63,60) Advanced Practice Note that the practice as Certified to practice as Advanced Practice Note Practitioner Clinical Nurse Specialist	(n=5,448) urse (APN) Workforce APN APN and working in Wisconsin urses in Wisconsin with master's	(n=79,750) 5,623 4,847 or higher (n=4, 2,771 226	7.1 6.1 491) 61.7 5.0
in Wisconsin 50,062 / 78.6% (n=63,680 Advanced Practice N: Certified to practice as Certified to practice as Advanced Practic N: Nurse Practitioner Clinical Nurse Specialis Certified Nurse Michwife	(n=5,448) urse (APN) Workforce APN APN and working in Wisconsin urses in Wisconsin with master's	(n=79,750) 5,623 4,847 or higher (n=4, 2,771 226 140	7.1 6.1 491) 61.7 5.0 3.1
in Wisconsin 50,062 / 78.6% (n=63,60) Advanced Practice Note that the practice as Certified to practice as Advanced Practice Note Practitioner Clinical Nurse Specialist	(n=5,448) urse (APN) Workforce APN APN and working in Wisconsin urses in Wisconsin with master's	(n=79,750) 5,623 4,847 or higher (n=4, 2,771 226	7.1 6.1 491) 61.7 5.0

*Online responses = 88,932 Paper responses = 1,211
Online responses from RN's who do not live or work in Wisconsin = 8,293
Data Source: Labor Market Information, Wisconsin Department of Workforce Development, 2018

Appendix C: Wisconsin RN Survey Faculty At a Glance Summary

TECHNICAL NOTES:

The data reported in this publication reflect the results of a survey mandated under Chapter 106.30 of the Wisconsin Statutes for all registered nurses (RNs) in Wisconsin. The survey was conducted as an element in the biennial license renewal requirement for the year 2018. The mandate was communicated to nurses through numerous venues and organizations, as well as to employers.

Two forms of the Wisconsin 2018 RN Workforce Survey were utilized, an online and paper version. The responses from both formats totaled 90.43. Data summarized in this overview include only responses from the online survey (n=8,932). It does not include responses from the paper survey (n=1,21), or responses of RNs who neither lived nor worked in the state of Wisconsin (n=8,293). The results summarized in this overview (n=7,9750) are based only on data from the online responses after exclusionary criteria were applied to remove any questionable or misleading data. This was done in order to strengthen the validity of the data and to focus on RNs who love and RNs who live and/or work in Wisconsin.

The 2018 survey instrument was constructed and processed by the Wisconsin Department of Workforce Development. Members of the Data Collaborative of the Wisconsin Council on Medical Education and Workforce (WCMEW) and experts from nursing organizations contributed to the survey design and questions. The survey was administered by the Wisconsin Department of Safety and Professional Services.

The survey encompasses multiple characteristics of the RN workforce and contains data elements of the National Nursing Workforce Minimum Dataset: Supply, as developed by The National Forum of State Nursing Workforce Centers, nursingworkforcecenters.org.

Detailed analysis of the Wisconsin 2018 RN Workforce Survey was carried out by nurse researchers from the University of Wisconsin-Madison. School of Nursing: Susan J. Zahner, PhD, MPH, RN, FAAN; Barbara Pinekenstein, DNP, RN-Bc, FAAN; PhD students: Jennifer Kowalkowski, MBA, BSN, RN, NEA-9C. The statistician for the project was Jeffrey B. Henriques, PhD. This At Glance for faculty summarizes key nurse faculty data. For complete reports and more information on the nursing workforce and nursing education in Wisconsin go to www.wicenterformursing.org.

On behalf of the Wisconsin Center for Nursing and the many partners involved with the design, implementation, and analysis of the Wisconsin 2018 Rt Workforce Survey, we wish to thank all who assisted with the survey and the nurses of Wisconsin for completing the survey. The cooperation and dedication of all involved will aid policy makers and others in assuring a sufficient, competent, and diverse nursing workforce for the people of Wisconsin.

To receive additional copies of this publication, send your request to info@wicenterfornursing.org.



Highest degree earned	n	Mean age (SD)	Age range
Diploma	**	61.5 (11.5)	48 – 76
Associate degree	90	43.0 (13.3)	23 - 71
Bachelor's degree	146	45.3 (12.4)	23 – 73
Master's degree	611	51.6 (10.7)	25 – 80
Doctorate, any field	206	54.6 (11.9)	30 - 81



Data Source: Labor Market Information, Wisconsin Department of Workforce Development, 2018.



Wisconsin 2018 Faculty Workforce Survey







At a Glance Information Total valid online survey respondents Total survey response (n=90,143)* 79,750 100 77.0% Works as a nurse in Wisconsin (n=79,750) 61,427 Works in education as a principal work setting Certification as a nurse educator 1,648 174 2.7% 0.2% (n=61,427) Nurse faculty Primary position is nurse faculty Primary position is nurse faculty and works in education 1,057 900 Nurse with a secondary position Nurse with a secondary position as a nurse educator (n=9,414) 8.7% Principal place of work of nurse faculty (n=1,057) Education Ambulatory care Home health Hospital Nursing home/extended care Public/community health Other 900

1,057 respondents reported their position at their principal place of work was nurse faculty. 900 of nurse faculty reported working in education settings (universities, technical colleges, or hospitals/health systems).

3.8%
1.2%
1.8%
1.2%
2.7%
0.9%
54.6%
1.2%
32.7%
51.9%
43.1%

Of the 1,057 faculty: **95%** were female, **7.2%** were categorized as racial/ethnically diverse.

Hospital/Health setting

The mean age was 50.6 years with a range from 23 to 81 years.

			lotal valid online survey respondents	% of applicable respondents
Gender of nurse faculty work	ing in educ	ation	(n=900)	
Female	_		857	95.2%
Male			43	4.8%
Age distribution of nurse face	ilty working	a in aduc	ation (n=900)	
25-34	arty Working	y iii educe	65	7.2%
35-44			178	19.8%
45-54			234	26.0%
55-64			317	35.2%
65 and older			106	11.8%
Race/Ethnicity			(n=900)	
White			(H=900) 849	94.3%
Black/African American			29	3.2%
Hispanic			16	1.8%
Asian			10	1.8%
Other			12	1.3%
,				1.070
Highest degree held	(n=900)	**		
Diploma in nursing		2.9%	The number	ar of
Associate degree in nursing	26 98	10.9%		
Bachelor degree	571	63.4%	faculty wit	
Master degree Doctorate	203	22.6%	degrees in	
Doctorate	203	22.0%	from 2016 (17	1) to 2018
Highest degree held in nursir	ng (n=900)		(206), with the	
Diploma in nursing	*rike	**	attributable to	faculty with
Associate degree in nursing	30	3.3%	the DNP (57 i	n 2016 and
Bachelor degree in nursing	101	11.2%	85 in 2018) co	
Master degree in nursing	595	66.1%	the PhD (81 in	
Doctorate of nursing practice	84	9.3%	80 in 2018).	1 20 10 and
Doctorate of nursing science/			60 III 2016).	
nursing doctorate	6	0.7%	*	
PhD in nursing	78	8.7%		
DHS region of employment			(n=900)	
Southern			135	15.0%
Southeastern			376	41.8%
Northeastern			192	21.3%
Western			130	14.4%
Northern			67	7.4%
32.4% of faculty work current type of employ 57% reported the inte	ment for I ent to stay	ess than for less t	tend to stay in th five years and han ten years.	neir (n=900)
How long do you plan to wor	k in your p	resent typ		
Less than 2 years			106	11.8%
2-4 years			185	20.6%
			221	24.6%
5-9 years 10 or more years			385	42.8%

*Online responses = 88,932 Paper responses = 1,211 Online responses from RNs who do not live or work in **Less than five responses ork in Wisconsin = 8,293

Appendix D: State of Employment of RNs Licensed in Wisconsin in 2018

Appendix D provides an overview of the states in which RNs who are licensed in the State of Wisconsin are practicing. These numbers include all licensed RNs, regardless of their state of residence (n = 72,531).

State	n	%	State	n	%
Alabama	22	0.0%	Nebraska	29	0.0%
Alaska	36	0.0%	Nevada	64	0.1%
Arizona	97	0.1%	New Hampshire	11	0.0%
Arkansas	*	*	New Jersey	31	0.0%
California	357	0.5%	New Mexico	10	0.0%
Colorado	51	0.1%	New York	313	0.4%
Connecticut	20	0.0%	North Carolina	47	0.1%
Delaware	*	*	North Dakota	11	0.0%
District of Columbia	12	0.0%	Ohio	246	0.3%
Florida	331	0.5%	Oklahoma	21	0.0%
Georgia	286	0.4%	Oregon	47	0.1%
Hawaii	30	0.0%	Pennsylvania	91	0.1%
Idaho	11	0.0%	Rhode Island	*	*
Illinois	1,834	2.5%	South Carolina	15	0.0%
Indiana	140	0.2%	South Dakota	14	0.0%
Iowa	245	0.3%	Tennessee	45	0.1%
Kansas	49	0.1%	Texas	100	0.1%
Kentucky	28	0.0%	Utah	15	0.0%
Louisiana	27	0.0%	Vermont	9	0.0%
Maine	6	0.0%	Washington	124	0.2%
Maryland	31	0.0%	West Virginia	32	0.0%
Massachusetts	42	0.1%	Wisconsin	63,797	88.0%
Michigan	428	0.6%	Wyoming	11	0.0%
Minnesota	3,172	4.4%	Military Base	9	0.0%
Mississippi	*	*	Puerto Rico	6	0.0%
Missouri	87	0.1%	Guam	*	*
Montana	19	0.0%			

^{*}Too few to report

Appendix E: Place of Work and Role by State of Employment in 2018

Appendix E describes whether RNs who hold a license in Wisconsin are working in Wisconsin or another state, by their place of work and their functional role.

	Works Outside of Wisconsin $(n = 2,047)$		Works in Wisconsin $(n = 62,867)$	
Primary Place of Work	n	%	n	%
Nursing	1,685	82.3	55,345	88.0
Health related services outside of nursing	63	3.1	1,407	2.2
Retail sales and services	8	0.4	42	0.1
Nurse educator	101	4.9	2,511	4.0
Financial, accounting and insurance processing	14	0.7	412	0.7
Consulting	63	3.1	487	0.8
Other	113	5.5	2,663	4.2
Position or Functional Role	n	%	n	%
Staff nurse	1,131	55.3	39,319	62.5
Case manager/Care coordinator	188	9.2	5,629	9.0
Staff – Other non-medical industry	*	*	169	0.3
Nurse manager	136	6.6	4,299	6.8
Manager – Other non-medical industry	*	*	103	0.2
Advanced Practice Nurse	138	6.7	4,777	7.6
Consultant/Contractor	67	3.3	608	1.0
Administrator	32	1.6	855	1.4
Nurse executive	52	2.5	674	1.1
Nurse faculty	48	2.3	1,101	1.8
Nurse researcher	21	1.0	230	0.4
Other	225	11.0	5,103	8.1

^{*}Too few to report

Appendix F: RNs Working in Telehealth or Call Centers in 2018

Appendix F describes the state where RNs employed in telehealth or call centers work and reside.

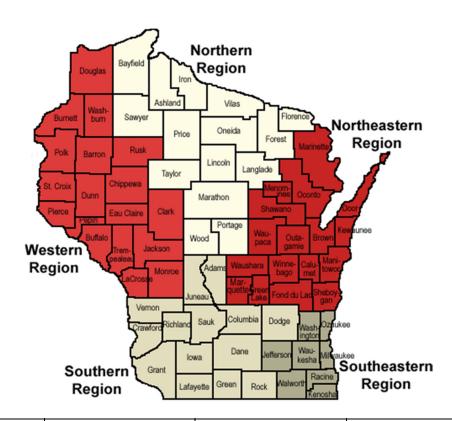
	Works Outside of Wisconsin $(n = 1,228)$		Works in Wisconsin $(n = 618)$	
State of Employment	n	%	n	%
Resides in Wisconsin	41	3.3	600	97.1
Does not reside in Wisconsin	1,187	96.7	18	2.9

Appendix G: Certification Data for the Wisconsin Nursing Workforce in 2018

Certification	n	%
I am not certified	60,364	75.7
Acute care/Critical Care	1,723	2.2
Addiction/AODA	44	0.1
Adult health	732	0.9
Ambulatory care nursing	142	0.2
Anesthesia (CRNA)	834	1.0
Cardiac rehabilitation nursing	30	0.0
Cardiac-vascular nursing	382	0.5
Case management nursing	648	0.8
College health nursing	12	0.0
Community health	29	0.0
Diabetes management - Advanced	172	0.2
Domestic violence/Abuse response	19	0.0
Emergency nursing (CEN®, CFRN®)	859	1.1
Family health	1,416	1.8
Family planning	14	0.0
Gastroenterology (CGRN)	111	0.0
General nursing practice	369	0.5
Gerontological nursing	549	0.7
High-risk perinatal nursing	34	0.0
Home health nursing	161	0.2
Hospice and palliative nursing (CHPN®, ACHPN®)	458	0.6
Informatics nursing	65	0.1
Infusion nursing (CRNI)	44	0.1
Legal nurse consultant (LNCC®)	71	0.1
Medical-surgical nursing	708	0.9
Medical-surgical nursing (CMSRN®)	539	0.7
Neonatal	440	0.5
Nephrology (CNN, CDN)	108	0.1
Neurology (CNRN)	108	0.1
Nurse educator (CNE)	174	0.2
Nurse executive (CENP)	103	0.1
Nurse executive - Advanced	93	0.1
Nurse manager and leader (CNML)	72	0.1

Nursing case management	133	0.2
Nursing professional development	75	0.1
OB/GYN/Women's health care	725	0.9
Occupational health (COHN)	155	0.2
Orthopedic nursing (ONC®)	171	0.2
Oncology nursing (OCN®, CPON®, CBCN, AOCNP®, AOCNS®)	1,108	1.4
Parish nurse	147	0.2
Perianesthesia (CPAN®, CAPA®)	247	0.3
Peri-operative (CNOR®)	657	0.8
Pain management	137	0.2
Pediatric nursing	791	1.0
Perinatal nursing	78	0.1
Public/Community health	145	0.2
Public Health Nursing-Advanced (APHN)	21	0.0
Psychiatric & mental health nursing	249	0.3
Psychiatric & mental health nursing-Advanced (APMHN)	176	0.2
Radiology/Invasive procedures lab	35	0.0
Rehabilitation (CRRN®)	205	0.3
Respiratory/Pulmonary care	209	0.3
School nursing	102	0.1
School nursing (NCSN®)	55	0.1
Transplant	123	0.2
Wound/Ostomy nursing (CWOCN, CWCN, COCN, CCCN, CWON)	875	1.1
Other, not listed	4,285	5.4

Appendix H: DHS Regions of the State



Southern	Southeastern	Northeastern	Western	Northern
Adams	Jefferson	Brown	Barron	Ashland
Columbia	Kenosha	Calumet	Buffalo	Bayfield
Crawford	Milwaukee	Door	Burnett	Florence
Dane	Ozaukee	Fond du Lac	Chippewa	Forest
Dodge	Racine	Green Lake	Clark	Iron
Grant	Walworth	Kewaunee	Douglas	Langlade
Green	Washington	Manitowoc	Dunn	Lincoln
Iowa	Waukesha	Marinette	Eau Claire	Marathon
Juneau		Marquette	Jackson	Oneida
Lafayette		Menominee	La Crosse	Portage
Richland		Oconto	Monroe	Price
Rock		Outagamie	Pepin	Sawyer
Sauk		Shawano	Pierce	Taylor
Vernon		Sheboygan	Polk	Vilas
		Waupaca	Rusk	Wood
		Waushara	St. Croix	
		Winnebago	Trempealeau	
			Washburn	

Appendix I: Wisconsin RNs by County in 2018

	Number of RNs working in county	Number of RNs per 1,000 population in county	Mean age of RNs working in each county
Adams	61	3.0	50.9
Ashland	239	14.9	48.9
Barron	472	10.2	47.3
Bayfield	46	3.0	52.4
Brown	3,771	14.5	43.3
Buffalo	24	1.8	47.8
Burnett	90	5.8	47.3
Calumet	174	3.3	44.8
Chippewa	442	6.9	46.5
Clark	139	4.0	47.3
Columbia	386	6.8	44.7
Crawford	88	5.3	45.5
Dane	8,318	15.9	43.5
Dodge	651	7.2	46.3
Door	227	8.0	48.3
Douglas	294	6.6	49.7
Dunn	228	5.1	46.8
Eau Claire	2,108	20.6	43.5
Florence	16	3.6	53.4
Fond du Lac	1,021	9.8	44.9
Forest	53	5.7	48.3
Grant	355	6.7	45.9
Green	329	8.9	46.2
Green Lake	153	8.0	46.0
Iowa	193	8.1	47.2
Iron	34	5.7	43.4
Jackson	151	7.3	46.2
Jefferson	385	4.6	47.7
Juneau	172	6.4	48.5
Kenosha	1,368	8.1	45.1
Kewaunee	53	2.6	45.5
La Crosse	2,511	21.2	44.4

Lafayette	49	2.9	41.9
Langlade	165	8.2	47.1
Lincoln	180	6.2	48.3
Manitowoc	646	8.0	46.9
Marathon		14.3	44.2
	1,936		
Marinette	404	9.8	45.7
Marquette	21	1.4	50.0
Menominee	35	8.2	48.5
Milwaukee	14,322	15.1	44.0
Monroe	460	10.0	46.2
Oconto	146	3.8	47.5
Oneida	547	15.1	49.0
Outagamie	2,146	11.7	43.7
Ozaukee	1,052	11.9	44.3
Pepin	42	5.7	50.1
Pierce	106	2.6	49.5
Polk	373	8.4	46.2
Portage	475	6.7	45.1
Price	119	8.5	47.5
Racine	1,557	8.0	46.6
Richland	120	6.7	48.5
Rock	1,503	9.4	46.2
Rusk	93	6.3	49.4
St. Croix	633	7.2	46.1
Sauk	629	10.1	46.6
Sawyer	132	7.9	50.1
Shawano	229	5.5	47.9
Sheboygan	900	7.8	45.5
Taylor	147	7.1	45.8
Trempealeau	177	6.0	43.6
Vernon	228	7.6	46.2
Vilas	111	5.1	50.0
Walworth	610	5.9	47.5
Washburn	114	7.2	50.7
Washington	867	6.4	45.4
Waukesha	4,014	10.1	46.8
11 aureona	7,017	10.1	TU.U

Waupaca	372	7.1	47.3
Waushara	89	3.7	49.3
Winnebago	1,920	11.4	44.1
Wood	1,459	19.6	45.2
State of WI	63,680	11.0	44.9

Note. Wisconsin county population information can be found at U.S. Census Bureau. (2017). Annual estimates of the resident population: April 1, 2017 to July 1, 2017.

https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF