

IOWA ADVANCED PRACTICE NURSE TRACKING SYSTEM

**ADVISORY COMMITTEE MEETING
March 4, 2019**

Meeting Agenda & Participant List

Iowa Advanced Practice Nurse Tracking System
Advisory Committee Meeting
Monday March 4, 2019
10:00 A.M. – 12:00 P.M.

Carver College of Medicine
100 CMAB

— **Agenda** —

- Welcome and Introductions
- Meeting Agenda and Participant List
 - 2017 Annual Report
 - Geographic Distribution
 - Access Summary
 - Trends
 - Workforce Summary
- Open Discussion Items

Iowa Advanced Practice Nurse Tracking System
Advisory Committee Meeting
Monday, March 1, 2019
10:00 A.M. – 12:00 P.M.

Advisory Committee

Lorinda Inman, MSN, RN
Chair, Iowa Nurses Foundation
Iowa Nurses Association

Diana L. Huber, PHD, RN, FAAN, NEA-BC
Associate Professor
University of Iowa College of Nursing

Kathy Weinberg, MSN, RN
Executive Director
Iowa Board of Nursing

Jimmy Reyes, DNP, AGNP, RN
Associate Director of Practice and Education
Iowa Board of Nursing

Laura Hudson, MSN, RN
Associate Director, CE/Workforce
Iowa Board of Nursing

Kendra Williams-Perez, EdD, RN, CNE
Professor and Dean
Allen College of Nursing

Iowa Advanced Practice Nurse Tracking System
Advisory Committee Meeting
Monday, March 4, 2019
10:00 A.M. – 12:00 P.M.

Iowa Health Professions Tracking Center

Greg Nelson
Assistant Dean for Clinical Education Programs

Theresa Dunkin
Program Manager/Assistant Director

Nibras Elnour
Data Analyst/Assistant Manager

Linda Thiesen
Data Analyst/Assistant Manager

Francisco Olalde
Data Analyst/Assistant Manager

Annual Benchmarks

IOWA APNs Annual Workforce Report*

<u>Date</u>	<u>APNs</u>
• December 2017	2326
• January 2017	<u>2180</u>
Gain	+ 146

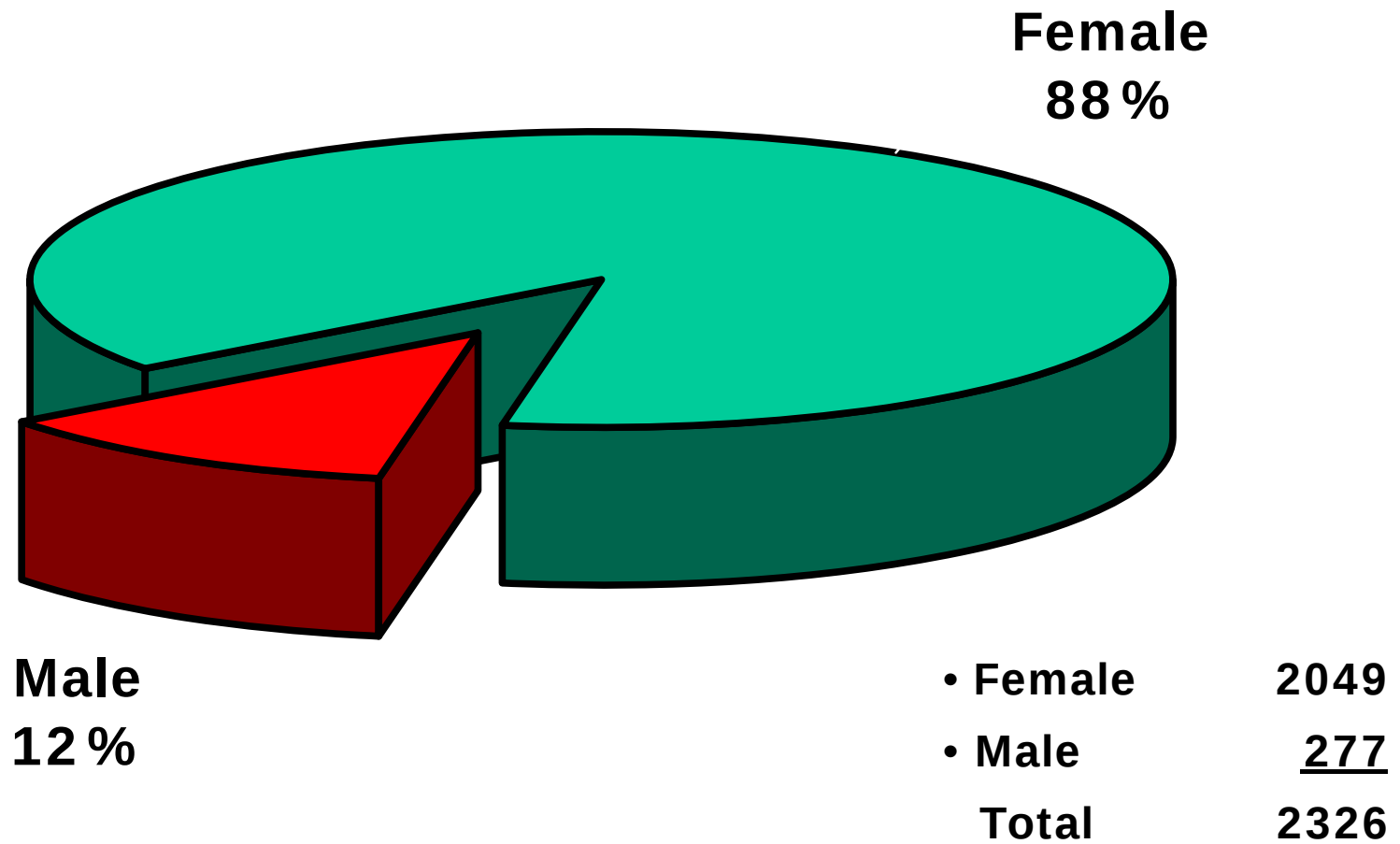
*** For year ending 12-31-2017**

IOWA APNs

Entering vs. Terminating Practice

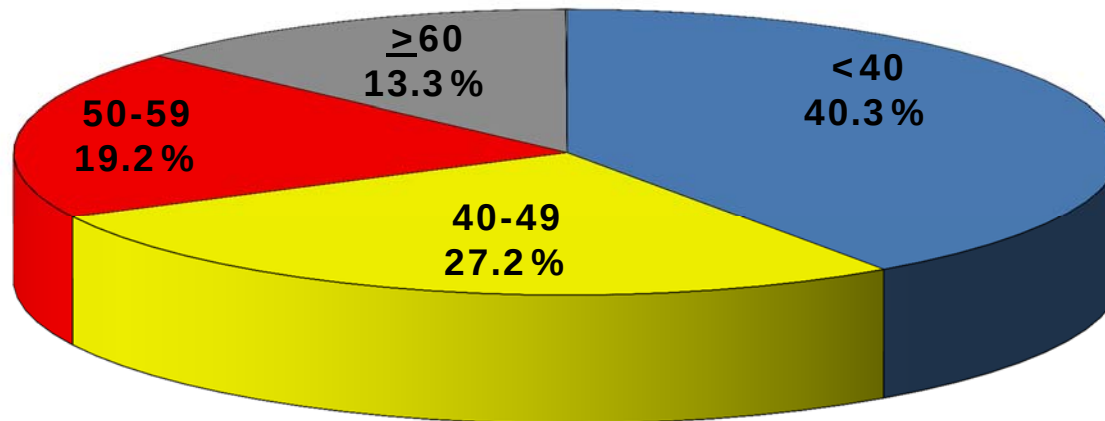
	<u>2017</u>	<u>Prior Year</u>	<u>Prior Ten-Year Average</u>
APNs Entering	281	308	208
APNs Terminating	<u>-135</u>	<u>-147</u>	<u>- 94</u>
Net Gain / Loss	+146	+161	+114

IOWA APNs Gender Distribution 2017



IOWA APNs Age Distribution 2017

<u>Age Category</u>	<u>No.</u>	<u>%</u>	<u>Cumulative %</u>
< 40	938	40.3 %	40.3 %
40-49	633	27.2 %	67.5 %
50-59	447	19.2 %	86.7 %
<u>≥ 60</u>	<u>308</u>	<u>13.3 %</u>	<u>99.9 %</u>
	2326	100 %	100.0 %



IOWA APNs

Full Time vs. Part Time*

2017

	<u>APNs</u>	<u>Percent</u>
Full Time	2189	94 %
Part Time	<u>137</u>	<u>6 %</u>
Total	2326	100 %

*PT = < 32 hours/week

IOWA APNs

Age Distribution

Full Time vs. Part Time

2017

<u>Age</u>	<u>FT</u>	<u>%</u>	<u>PT</u>	<u>%</u>	<u>Cumulative %</u>
< 40	904	38.9	34	1.5	40.4
40-49	597	25.7	36	1.5	67.6
50-59	416	17.9	31	1.3	86.8
<u>≥ 60</u>	<u>272</u>	<u>11.7</u>	<u>36</u>	<u>1.5</u>	100 %
	2189	94.2	137	5.8	

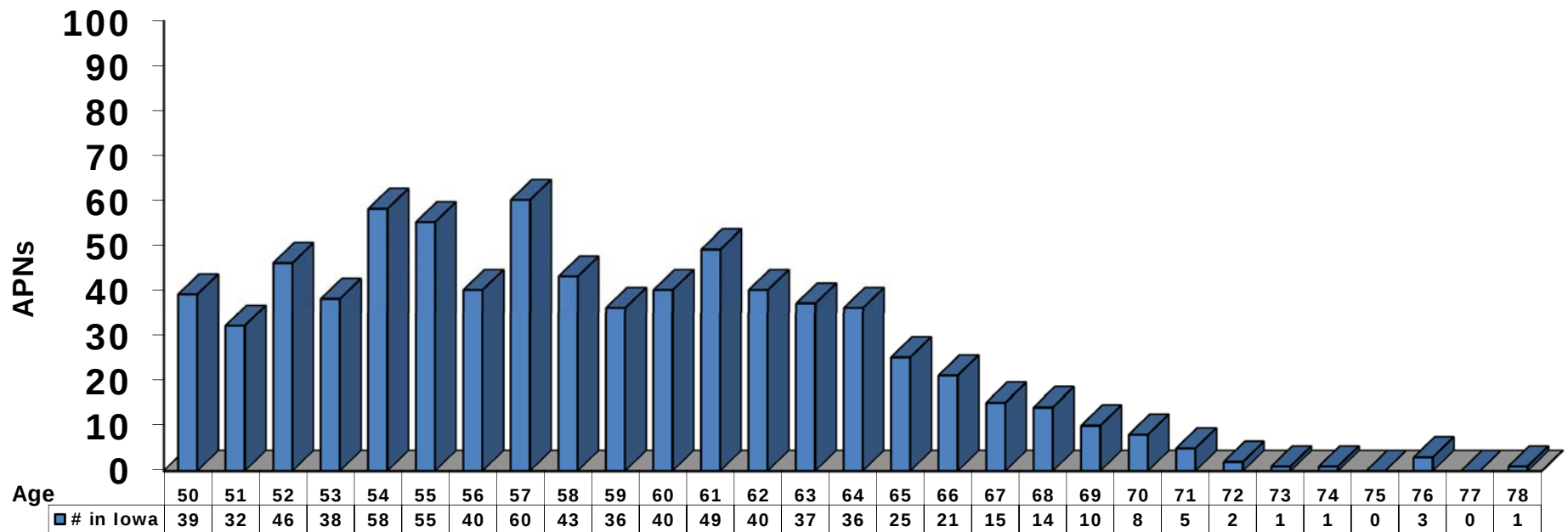
FT = ≥ 32

PT = < 32

IOWA APNs

Detail of Age ≥ 50

2017



Total number of APNs age 50 and over = 755 (32%)

IOWA APNs

Principal Professional Activity

2017

	<u>Number</u>	<u>Percent</u>
• Private Practice	1677	72.1 %
• State Facility	273	11.7 %
• Public/Community Health	120	5.2 %
• Federal	74	3.2 %
• Hospital Medicine	73	3.1 %
• Urgent Care	55	2.4 %
• Teaching/Research	34	1.5 %
• Student Health	14	0.6 %
• Administration	6	0.2 %
Total	2326	100 %

IOWA APNs Certifications 2017

	<u>Number</u>	<u>Percent</u>
• Family NP (FNP)	1201	51.6 %
• RN Anesthetist (CRNA)	347	14.9 %
• Pediatric NP (PNP)	162	7.0 %
• Adult NP (ANP)	145	6.2 %
• Psychiatric NP (PSNP)	120	5.2 %
• Ob/Gyn (ONP) / Women's Health (WHNP)	106	4.6 %
• Nurse Midwife (NMW)	67	2.9 %
• Acute Care NP (ACNP)	60	2.6 %
• Neonatal NP (NNP)	40	1.7 %
• Gerontological NP (GNP) / CGE	37	1.6 %
• CNS Adult Psych (CAP)	16	0.7 %
• Other*	<u>25</u>	<u>1.0 %</u>
Total	2326	100 %

***CNS, CNS Med Surg, School NP, CNS Oncology, CNS Adult Health
CNS Child / Adolescent Psych, Perinatal NP**

DISTRIBUTION OF APNs By City Population Ranges* 2017

<u>Population</u>	<u>Cities in Iowa</u>	<u>% of population*</u>	<u># of Cities with APNs</u>	<u># of APNs</u>	<u>Percent</u>	<u>Cumulative Percent</u>
< 5,000	867 (62CDP)**	27 %	158	334	14.4 %	14.4 %
5,000-9,999	42	12 %	39	264	11.3 %	25.7 %
10,000-24,999	17	10 %	17	192	8.3 %	34.0 %
25,000-49,999	11	14 %	11	238	10.2 %	44.2 %
50,000-99,999	8	23 %	8	891	38.3 %	82.5 %
100,000 ≥	<u>2</u>	<u>14 %</u>	<u>2</u>	<u>407</u>	<u>17.5 %</u>	100.0 %
Totals	947	100 %	235	2326	100.0 %	

66 % of Iowa's APNs are in the 21 cities with > 25,000 residents

*Population Source: US Census City Population Estimates 2010

**CDP: Census Designated Place

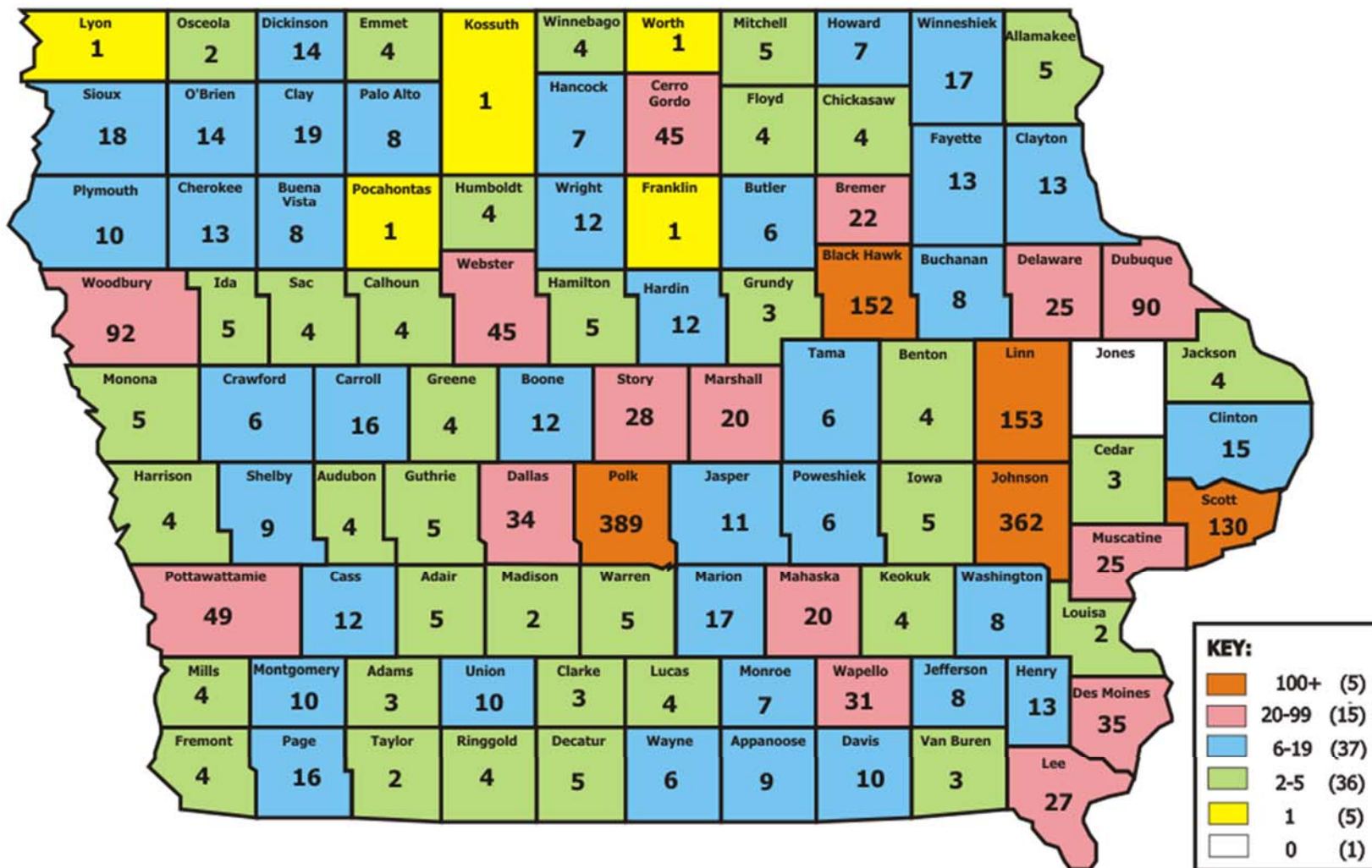
IOWA APNs

Communities Gaining/Losing APNs 2017

<u>Community Size</u>	<u># Entering</u>	<u># Leaving</u>	<u>Net</u>
< 5,000	36	21	+ 15
5,000 - 9,999	29	12	+ 17
10,000 - 24,999	19	11	+ 8
25,000 - 49,999	29	26	+ 3
50,000 - 99,999	118	39	+ 79
<u>≥100,000</u>	<u>50</u>	<u>26</u>	<u>+ 24</u>
Total	281	135	+ 146

Geographic Distributions

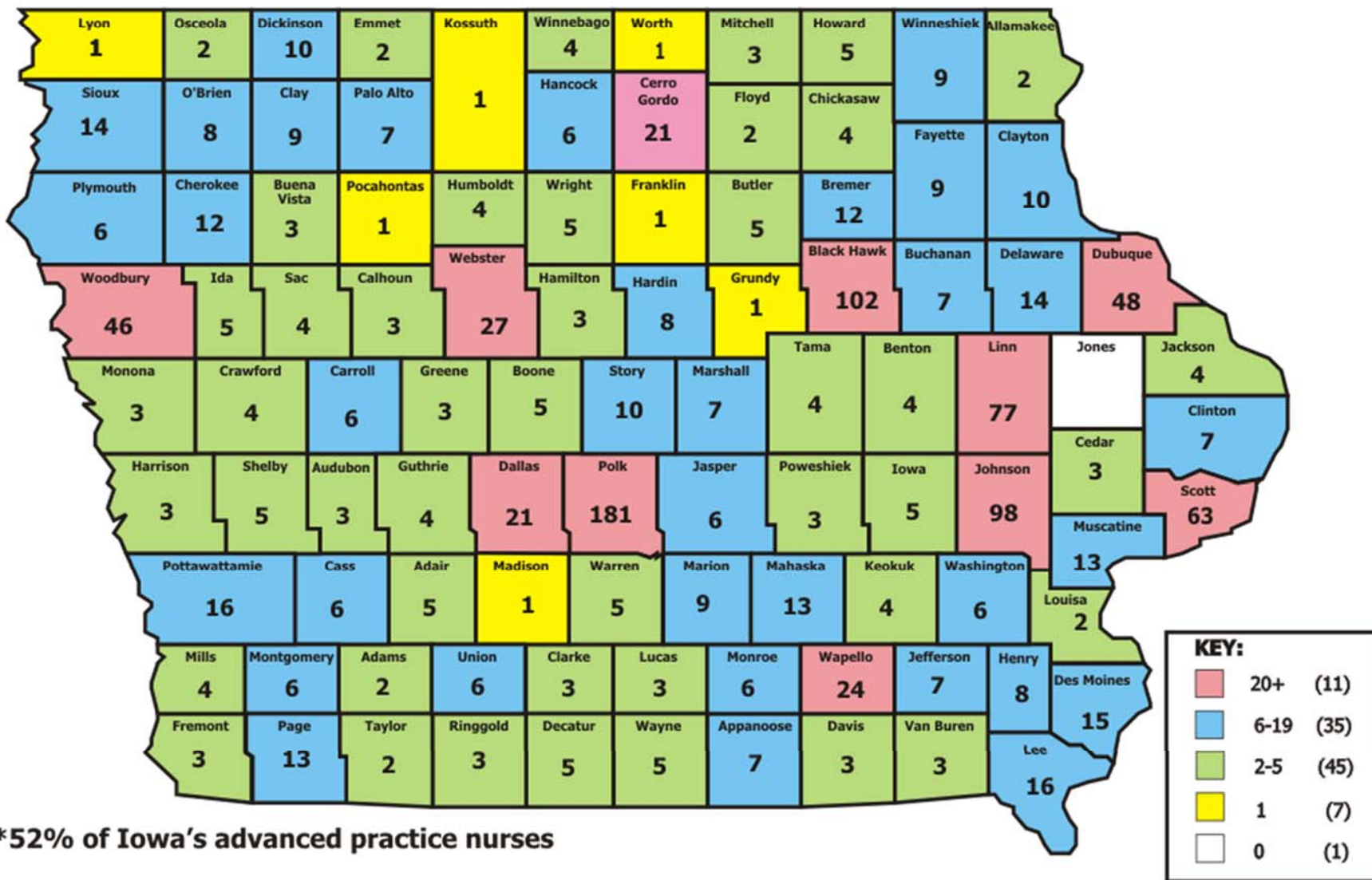
**IOWA
ADVANCED PRACTICE NURSES (2326)
2017**



Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
UI Carver College of Medicine, April 2018

K:\DOCUMENT\NP\YE2017\Graphics\NP101.cdr

**IOWA APNs
Family Nurse Practitioners (1201)*
2017**



***52% of Iowa's advanced practice nurses**

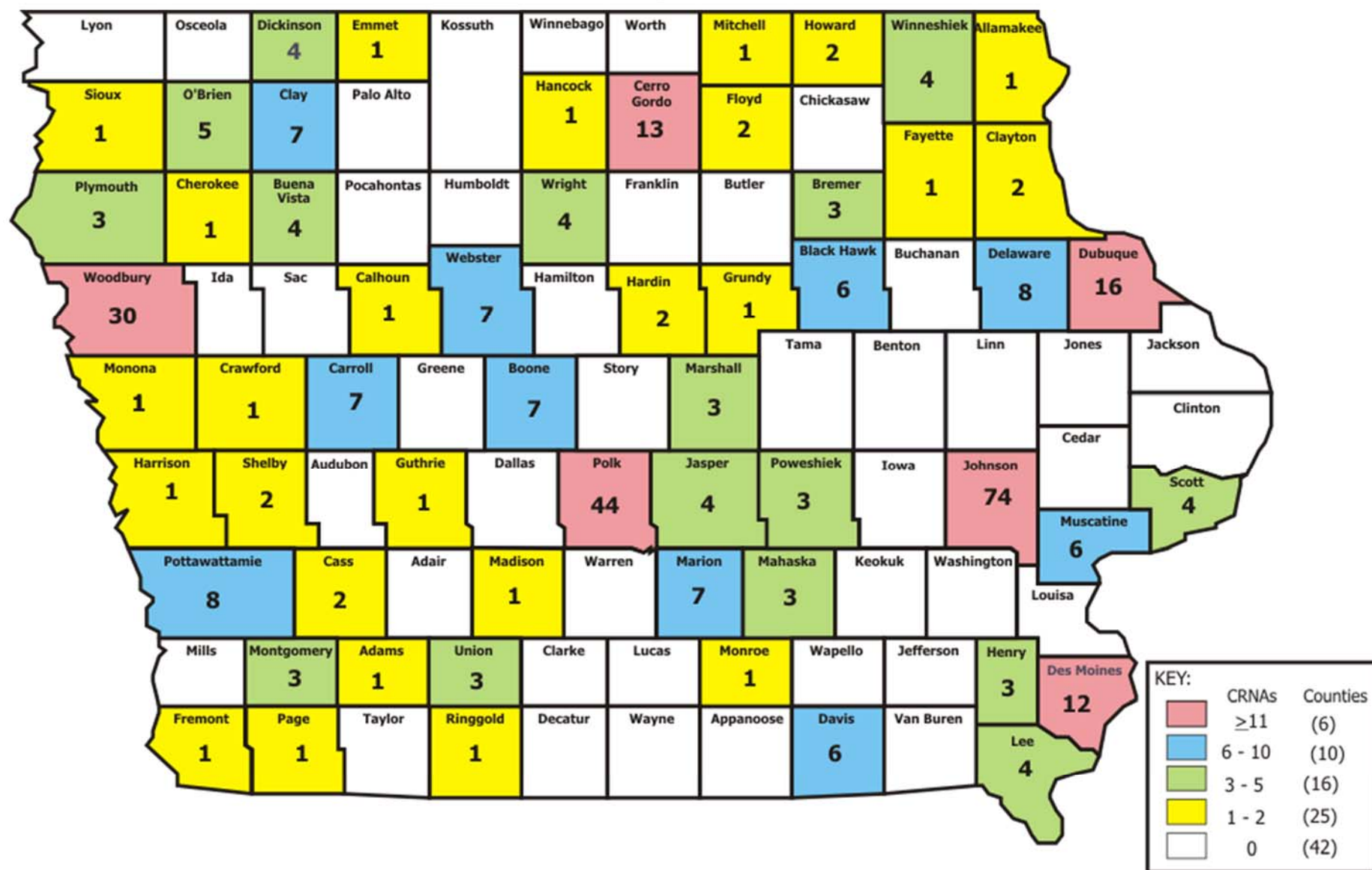
Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
Carver College of Medicine, April 2018

K:\Doc\NP\YE\2017\Graphics\np110.odr

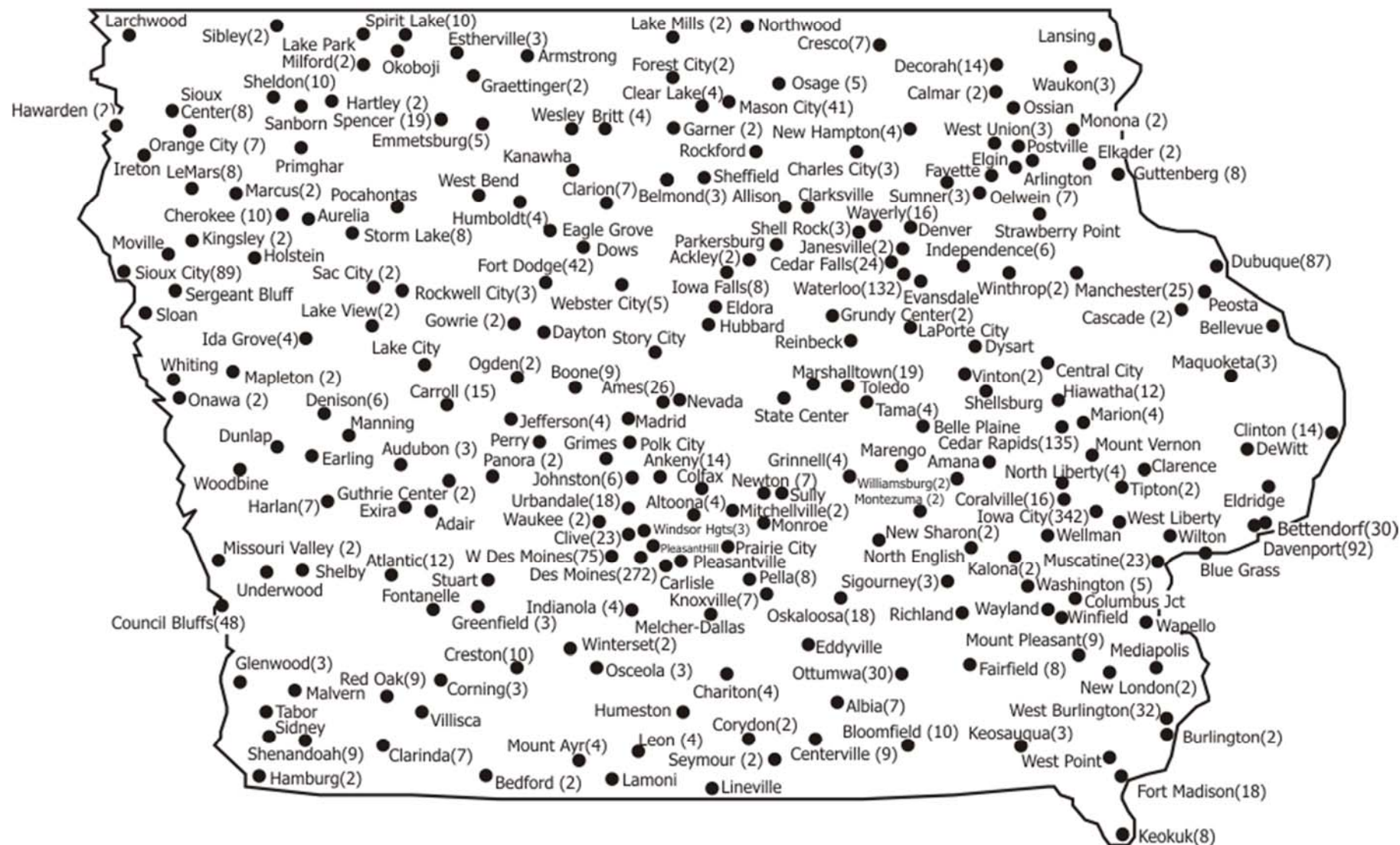
IOWA APNs

Certified Registered Nurse Anesthetists (347)

2017

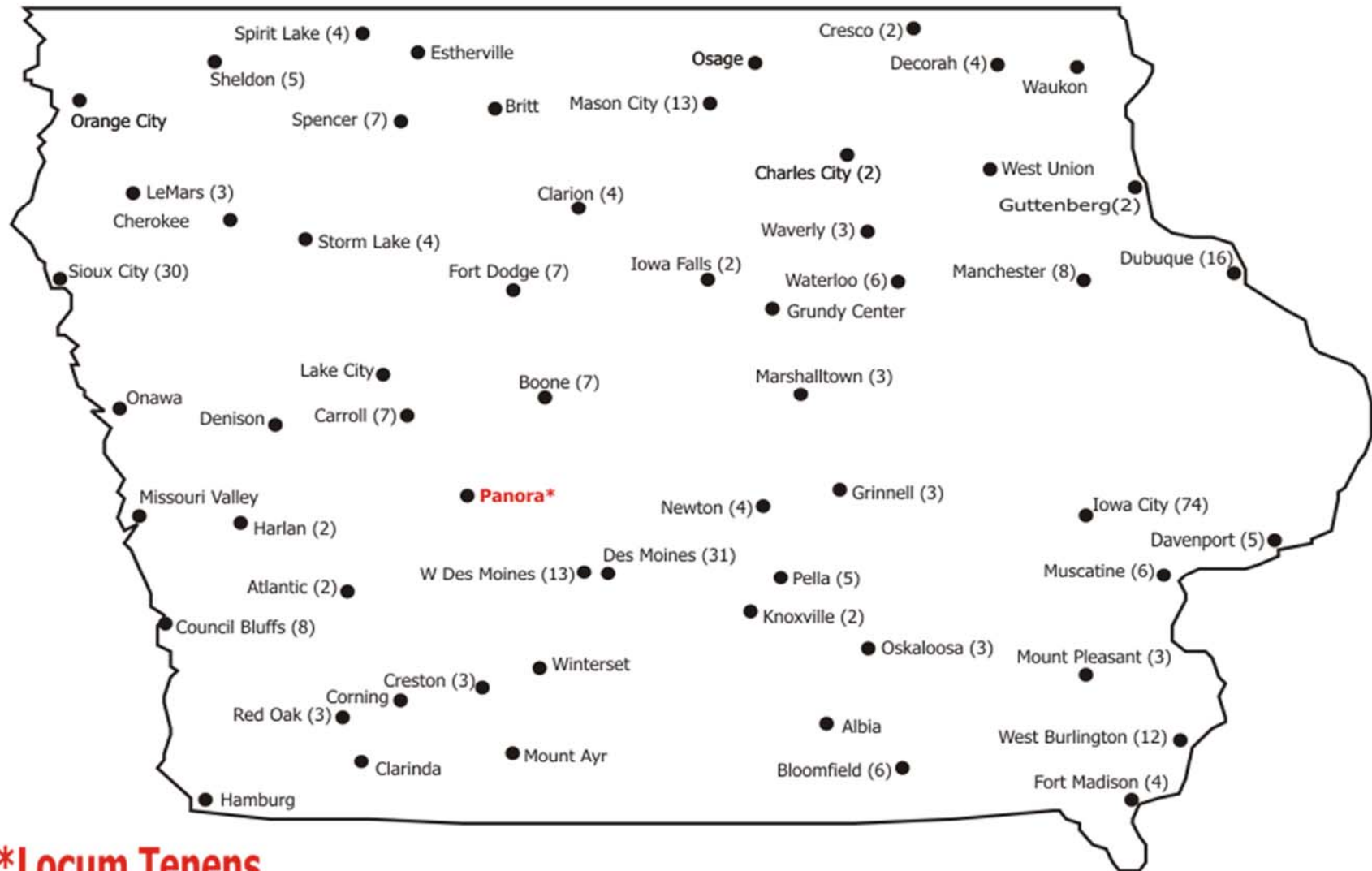


**IOWA APNs
Communities with APNs (238)
2017**



Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs, UI Carver College of Medicine, April 2018

IOWA APNs Communities with CRNAs (59) 2017



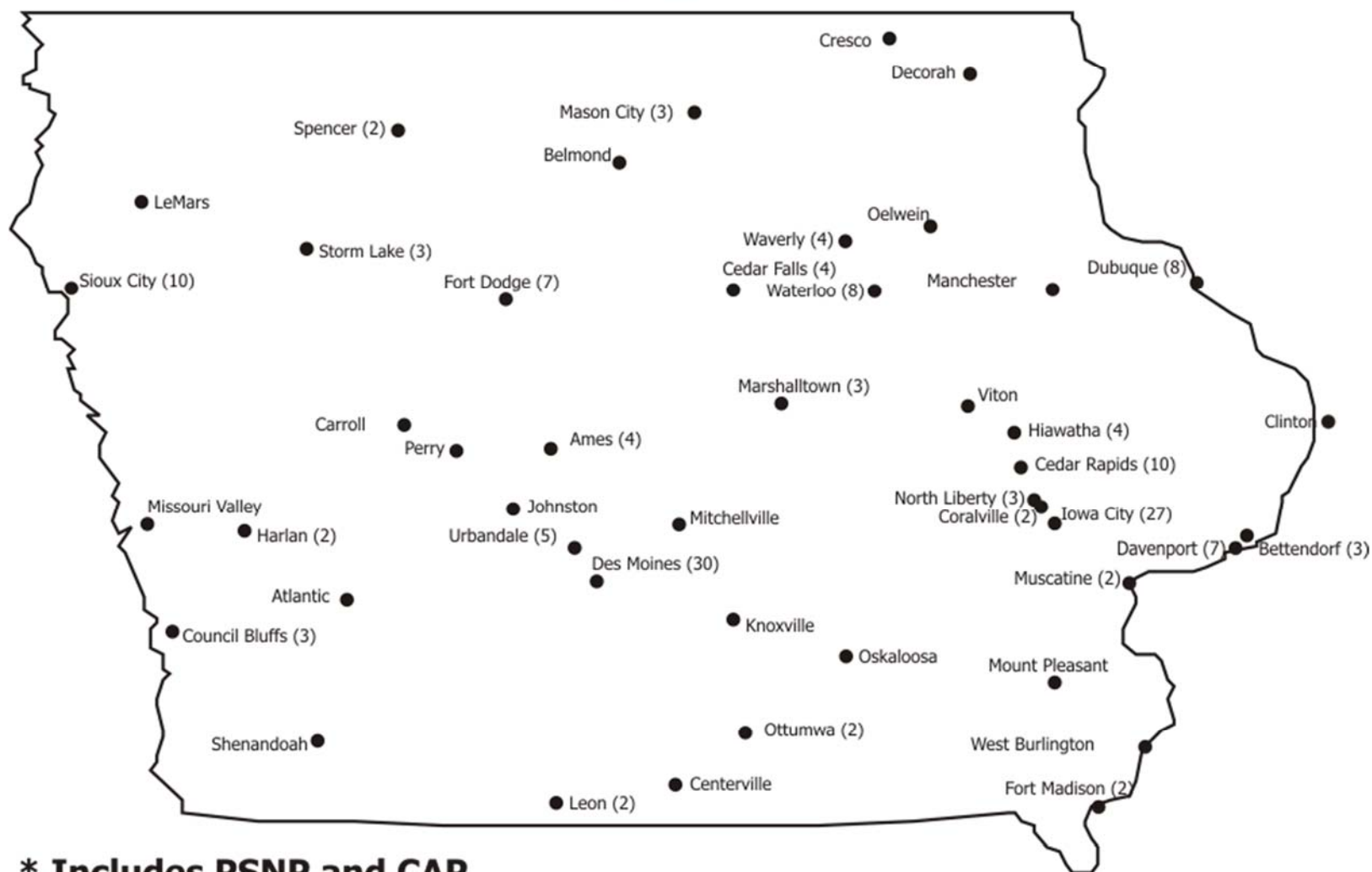
***Locum Tenens**

Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs,
UI Carver College of Medicine, April 2018

IOWA APNs

Communities with Mental Health (45)

2017



*** Includes PSNP and CAP**

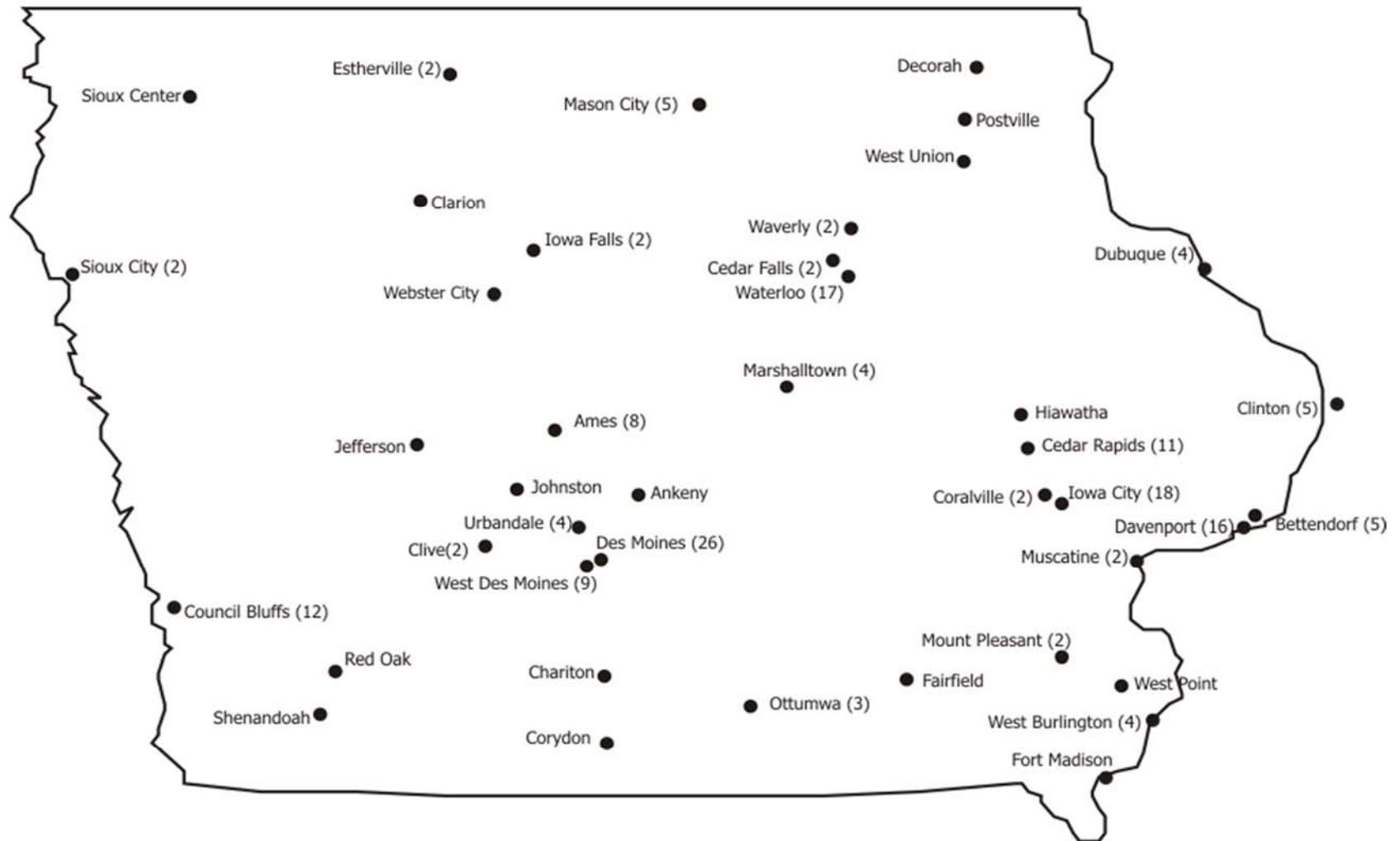
Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs,
UI Carver College of Medicine, February 2019

K:\Don\NP\YE\2017\NP103-PSNP_Comm.A.CDR

IOWA APNs

Communities with Midwives and Obstetricians (42)

2017



*Includes NMW, WHNP, and ONP

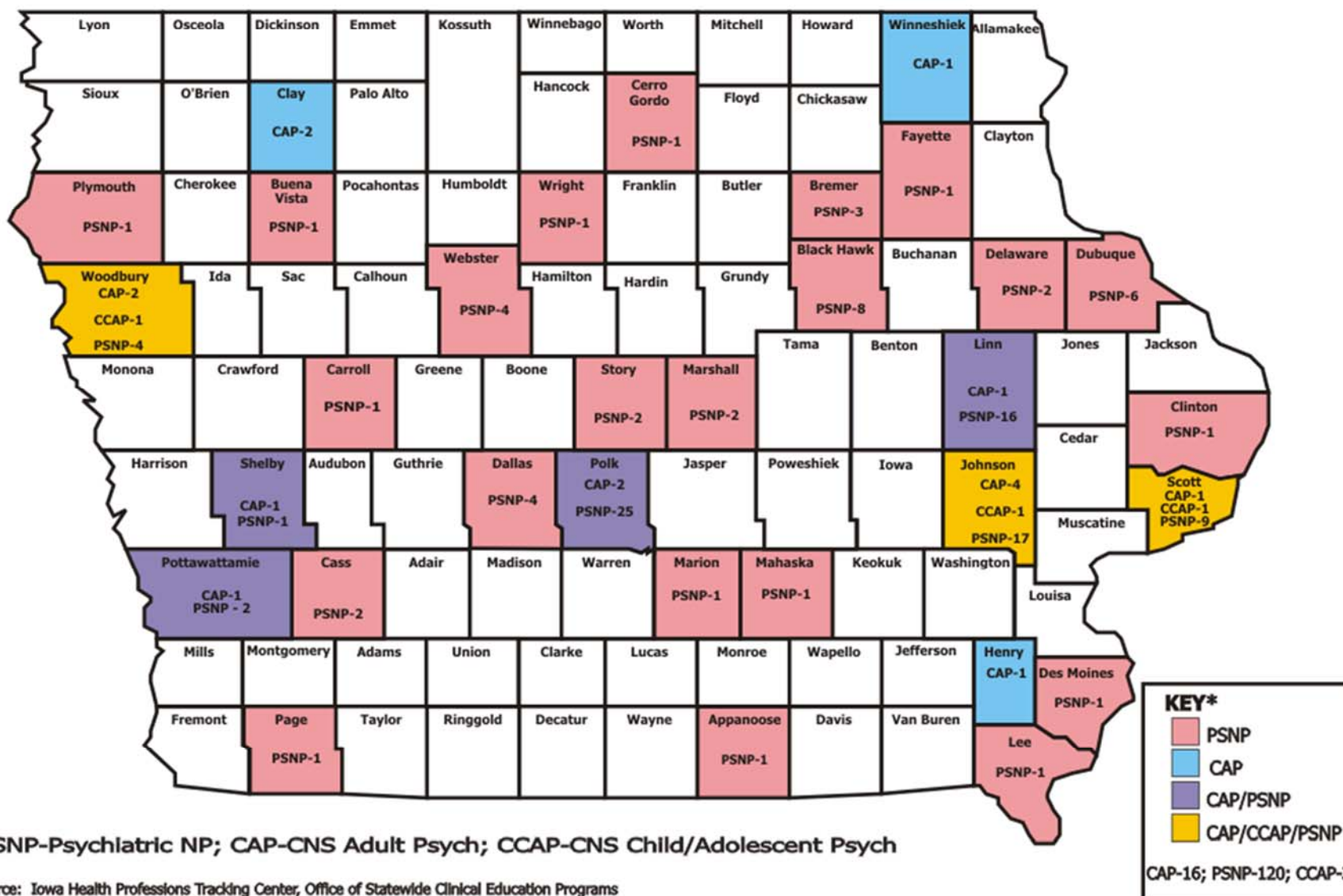
Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs,
UI Carver College of Medicine, February 2019

K:\Don\NP\YE\2017\NP103-PSNP_Comm.CDR

IOWA APNs

Psychiatric Nurse Practitioners* (139)

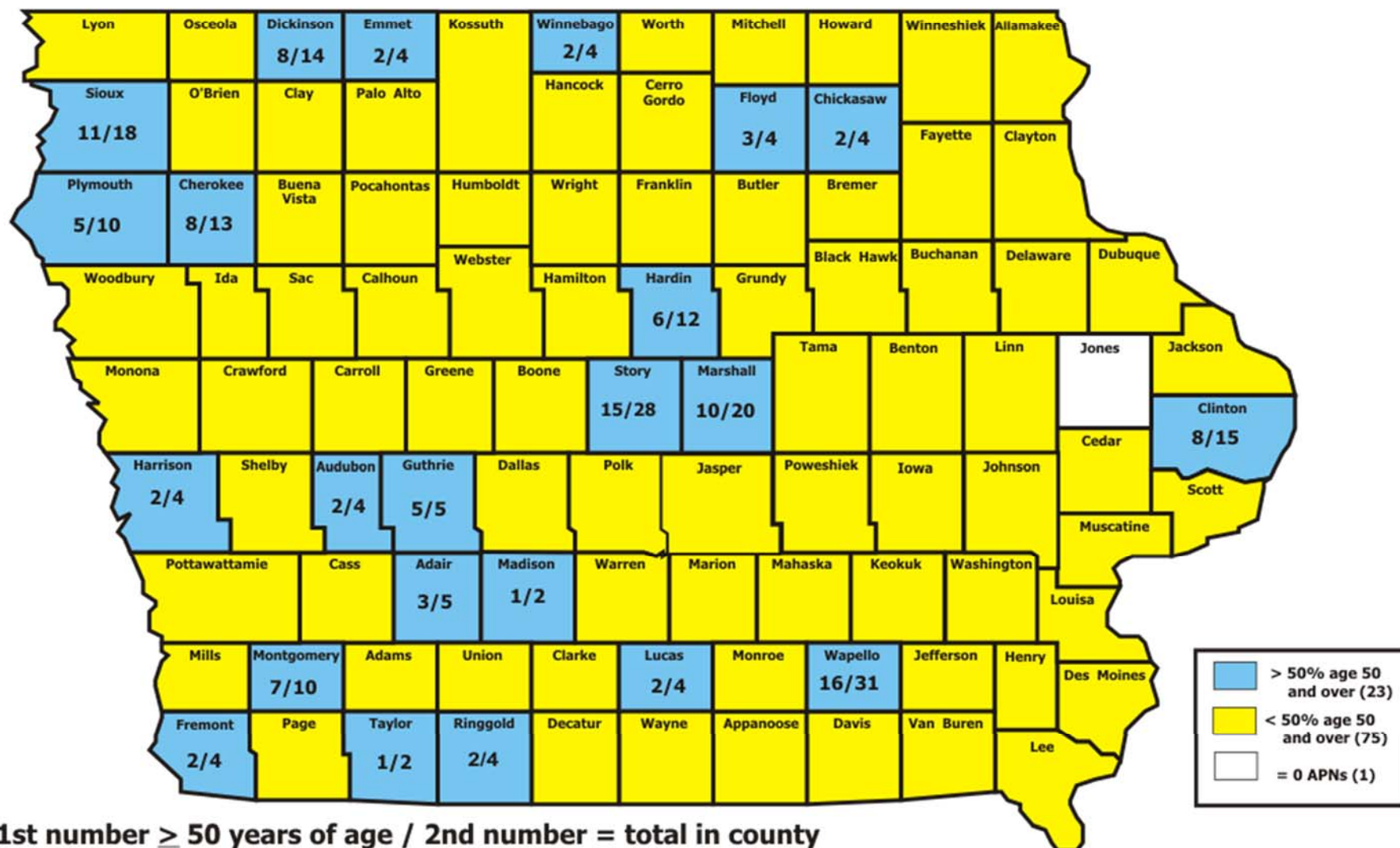
2017



*PSNP-Psychiatric NP; CAP-CNS Adult Psych; CCAP-CNS Child/Adolescent Psych

Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
UI Carver College of Medicine, April 2018

IOWA APNs — Age 50 and Over — 2017



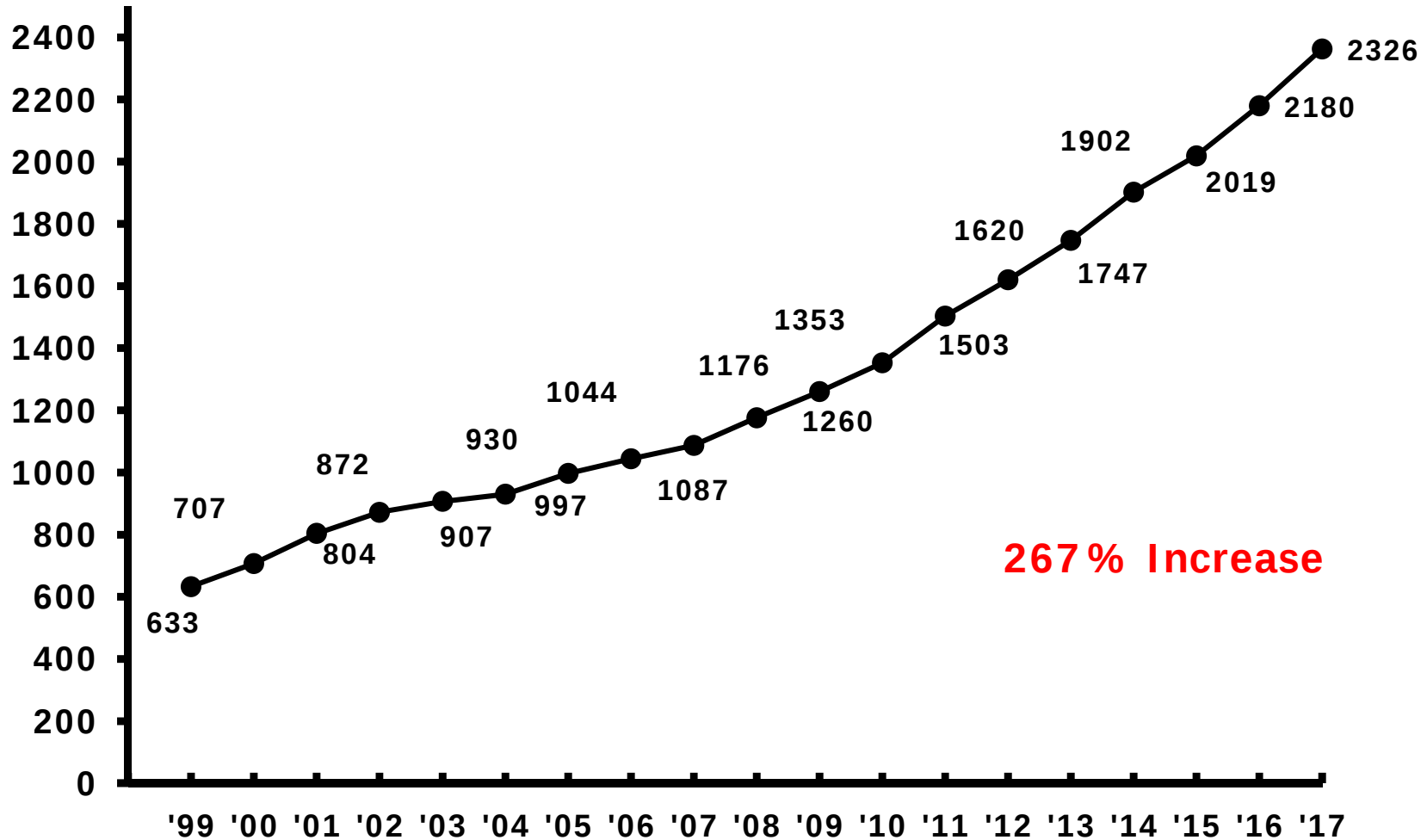
Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
UI Carver College of Medicine, April 2018

K:\Doc\NP\YE\2017\Graphics\NP108.cdr

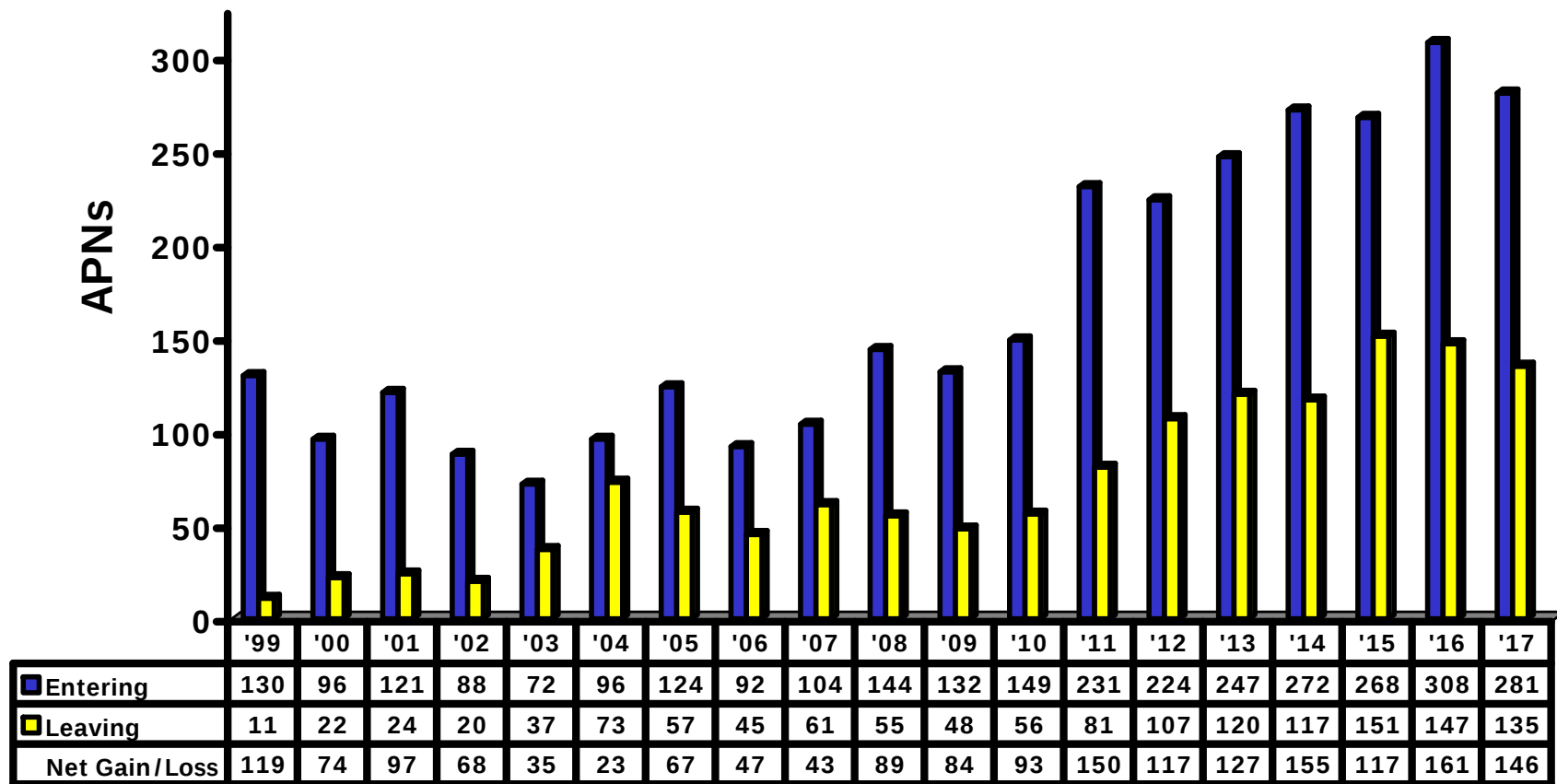
Trends

ACTIVE IOWA APNs

1999 - 2017



IOWA APNs Net Gain/Loss 1999 - 2017

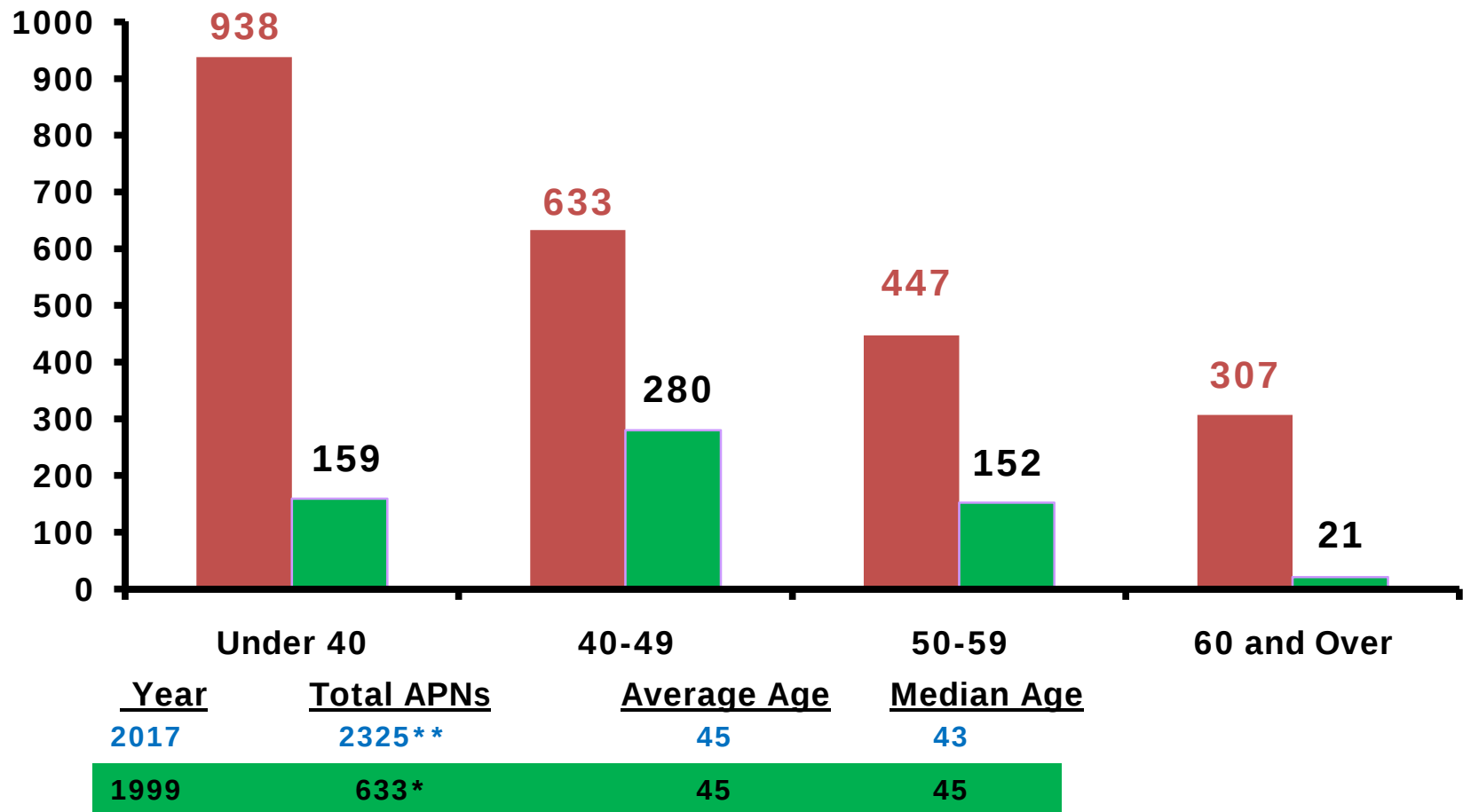


Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
UI Carver College of Medicine, April 2018

IOWA APNs

Age Distribution Comparison

1999 vs. 2017

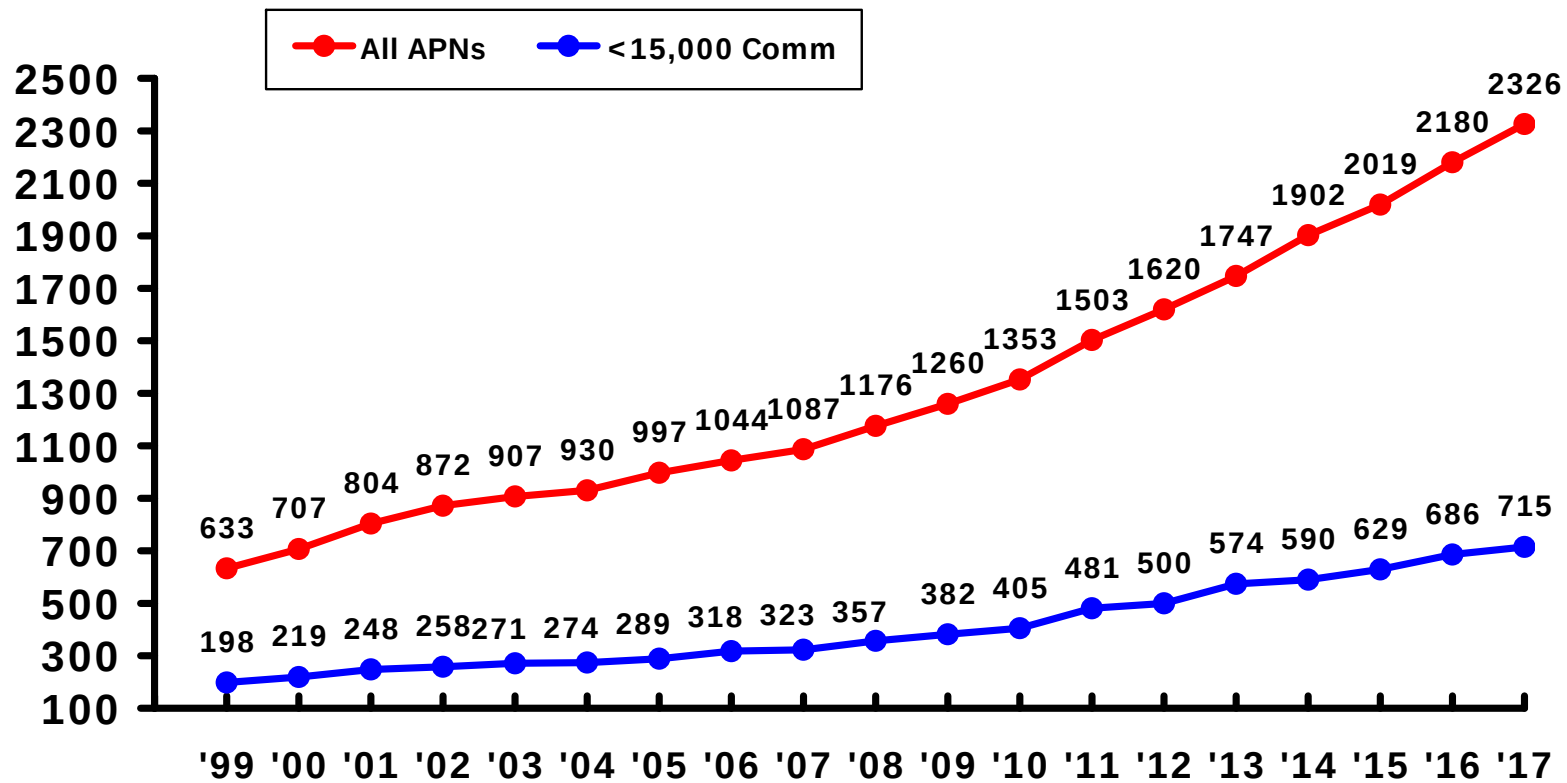


* Includes 21 unknown

IOWA APNs

Working in Communities of <15,000

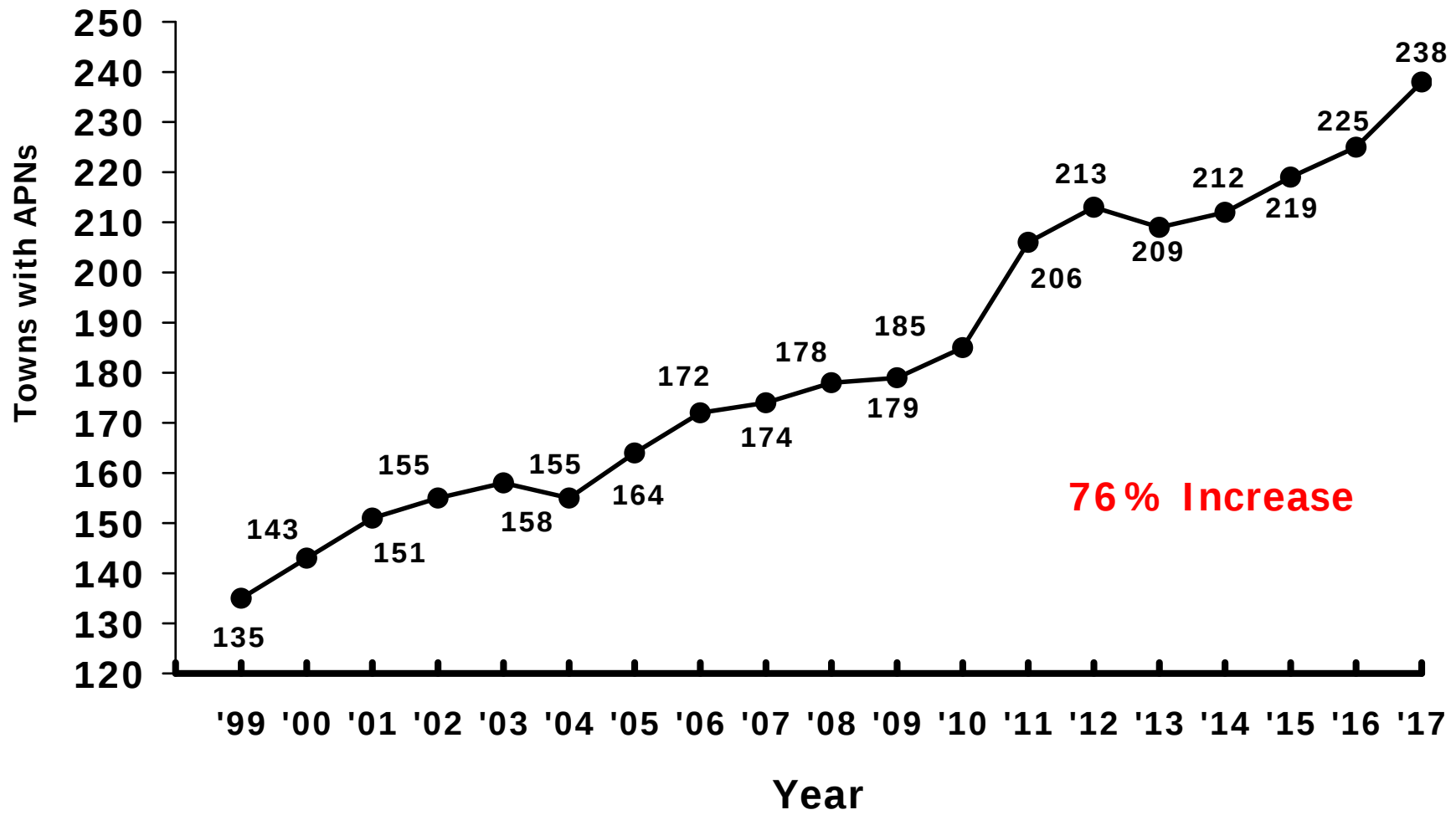
1999 – 2017



IOWA APNs

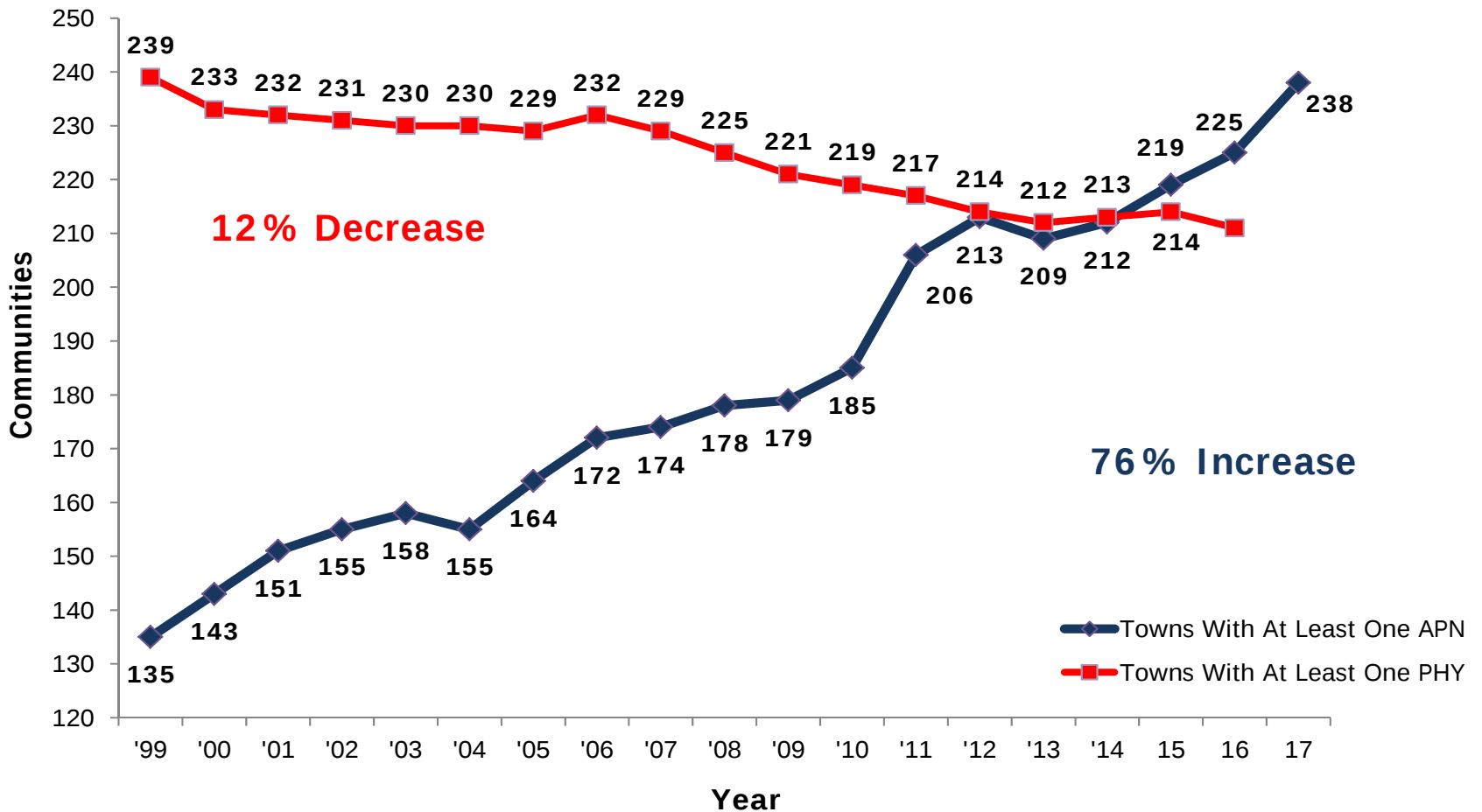
Towns With at Least One APN

1999 - 2017



IOWA APNs

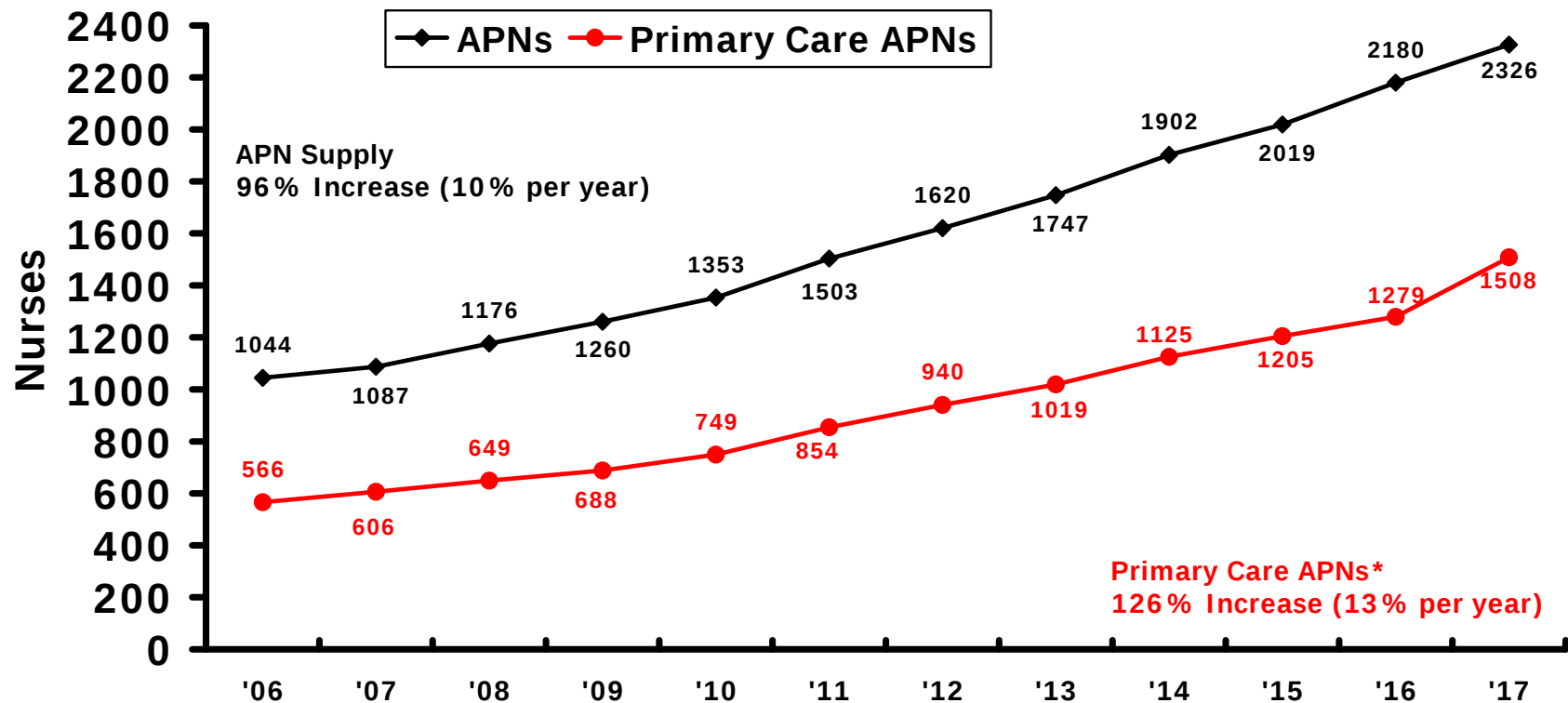
Communities with APN or Physician 1999-2017



IOWA ADVANCED PRACTICE NURSING SUPPLY

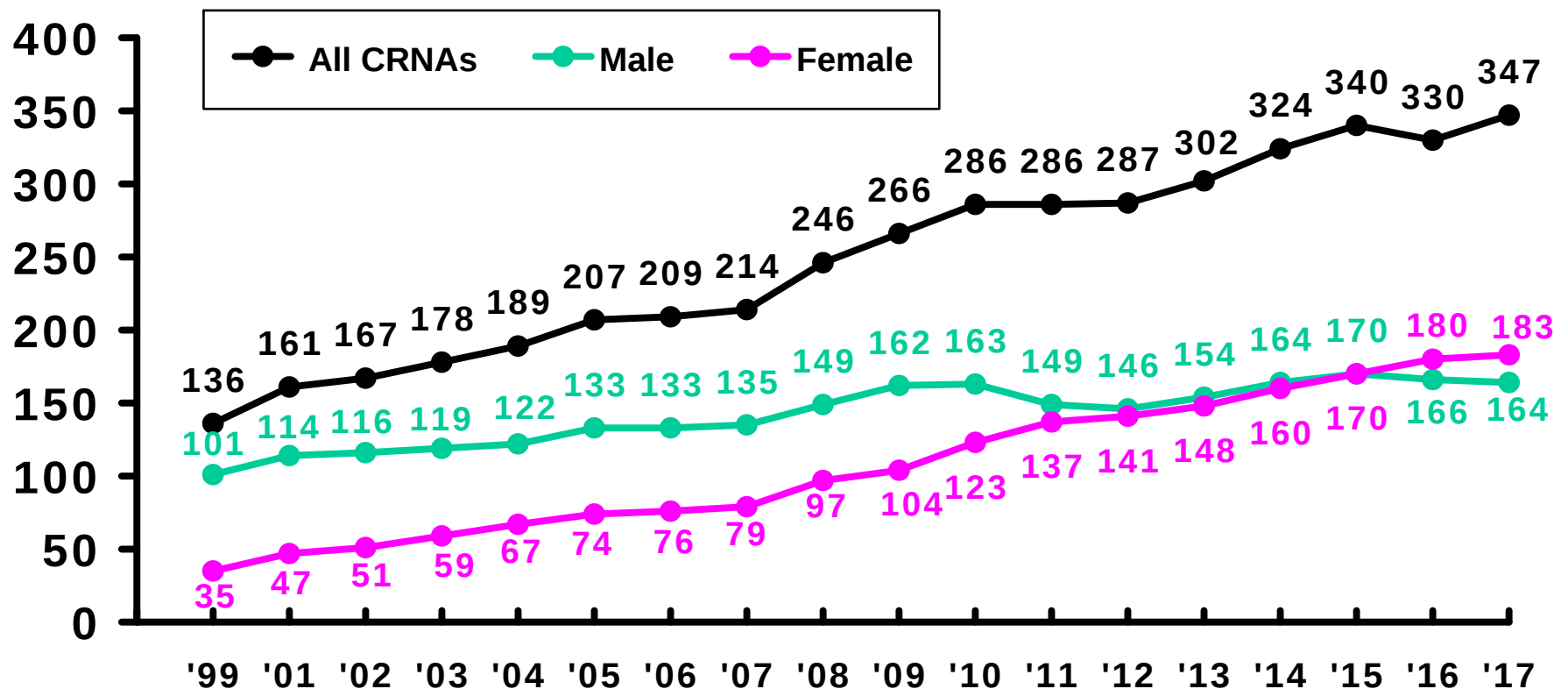
All APNs – Primary Care APNs*

2006 - 2017



*Primary Care: ANP, FNP, & PNP

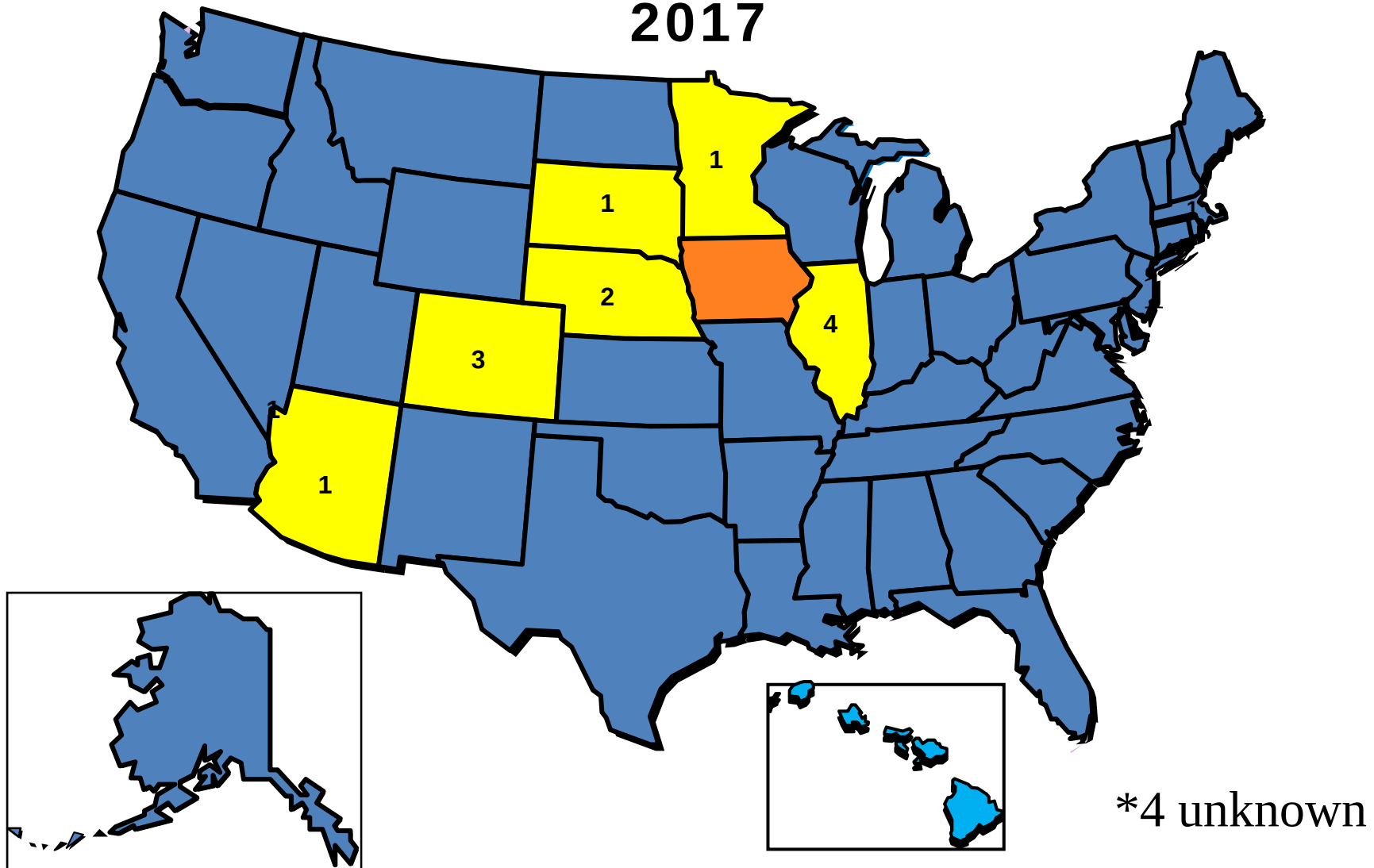
IOWA APNs CRNA - Gender 1999 - 2017



Iowa APNs Attrition Analysis 2010-2017

Year	Retirement	Relocation	Death	Health	Training	Inactive	Locum Tenens	Military	Misc/UNK	Total
2010	9	13	-	1	-	6	-	-	27	56
2011	21	18	-	-	-	3	-	-	39	81
2012	19	21	2	1	-	9	1	-	54	107
2013	20	29	-	2	1	8	1	-	58	119
2014	21	36	1	2	1	3	5	-	48	117
2015	30	39	3	-	1	9	2	-	67	151
2016	28	28	-	1	1	4	4	-	78	144
2017	24	16	1	-	5	1	2	-	86	135
Total	172	200	7	7	9	43	15	0	457	910
Annual Average	21.5	25.0	0.9	0.9	1.1	5.4	1.9	0.0	57.1	113.8

RELOCATION OF IOWA APNs IN US (16)* 2017



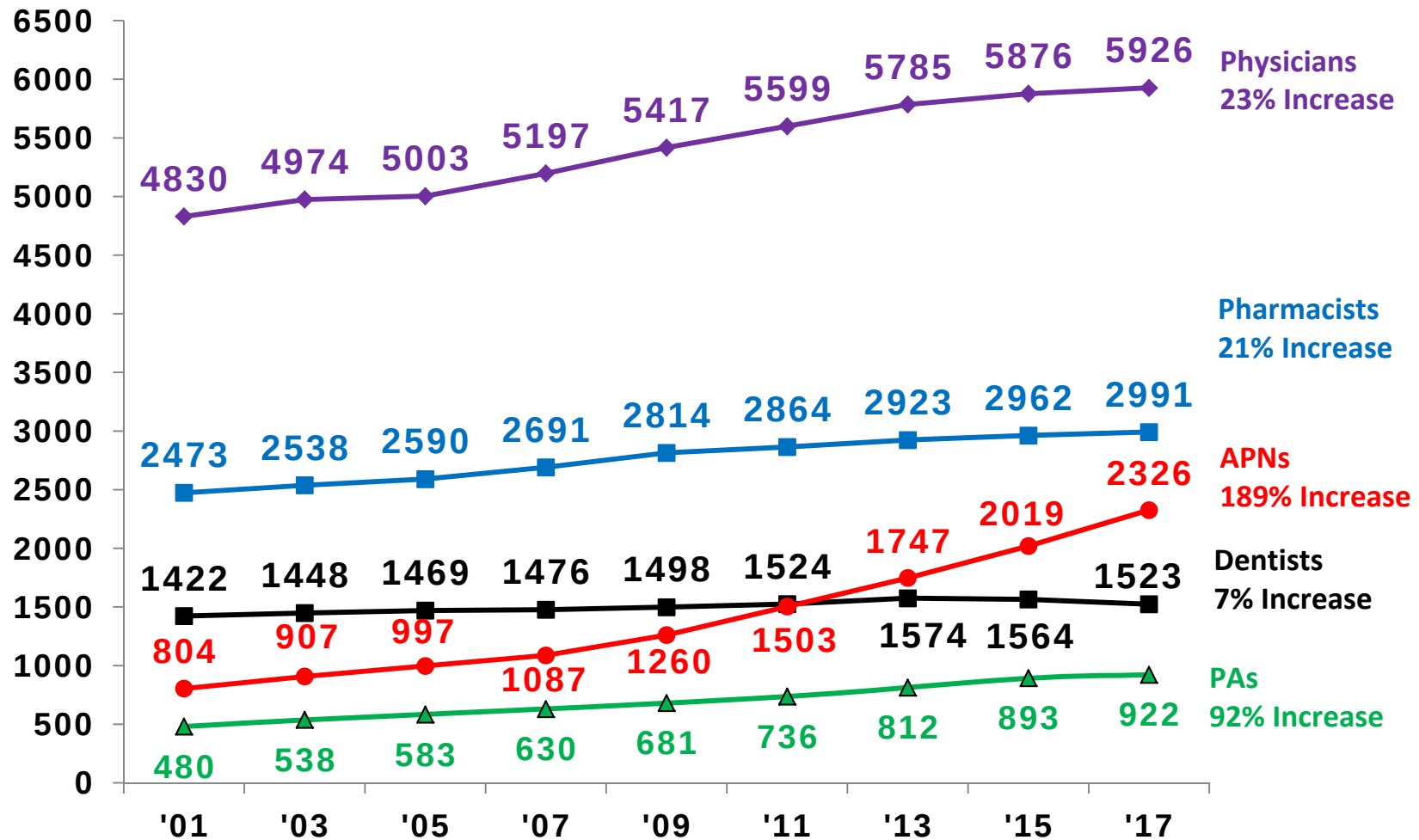
Workforce Comparisons

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2017

Physicians	5926
Pharmacists	2991
Dentists	1523
Nurse Practitioners	2326
Physician Assistants	922

IOWA HEALTH PROFESSIONS INVENTORY 2001-2017



IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2017

Net Gain/Loss Summary

	<u>Entering</u>	<u>%</u>	<u>Leaving</u>	<u>%</u>	<u>Net</u>	<u>%</u>	<u>Total</u>
Physicians	410	6.9 %	409	6.9 %	1	0.02 %	5926
Pharmacists	150	5.0 %	136	4.5 %	14	-0.5 %	2991
Dentists	48	3.2 %	68	4.5 %	-20	-1.3 %	1523
Nurse Practitioners	281	12.1 %	135	5.8 %	146	6.3 %	2326
Physician Assistants	88	9.5 %	70	7.6 %	18	1.95 %	922

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2017

Gender

	<u>Male</u>	<u>%</u>	<u>Female</u>	<u>%</u>	<u>Total</u>
Physicians	4071	69 %	1855	31 %	5926
Physician Assistants	269	29 %	653	71 %	922
Dentists	1074	71 %	449	29 %	1523
Pharmacists	1075	36 %	1916	64 %	2991
APNs	277	12 %	2047	88 %	2326

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce – 2017

Age

	<u>Physicians</u>	<u>Physician Assistants</u>	<u>Dentists</u>	<u>Pharmacists</u>	<u>APNs</u>
<40	1410 24 %	441 48 %	495 33 %	1274 43 %	938 40 %
40-49	1621 27 %	215 23 %	315 21 %	766 26 %	633 27 %
50-59	1525 26 %	173 19 %	297 19 %	517 17 %	447 19 %
≥ 60	1370 23 %	93 10 %	416 27 %	433 14 %	307 13 %
Total	5926	922	1523	2991	2326

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2017

Retirement Summary

	<u>Retired</u>	Percent of <u>All Attrition</u>	Average Age <u>Retirement</u>	All <u>Attrition</u>	Average Age <u>All Attrition</u>
Physicians	125	31 %	67	410	53
Pharmacists	37	27 %	67	136	47
Dentists	35	52 %	68	68	57
Nurse Practitioners	24	18 %	67	135	49
Physician Assistants	6	8 %	62	73	41

IOWA HEALTH PROFESSIONS INVENTORY

Distribution by Community Size*

2017

Community Population	Number of Communities With Providers				Number of Providers				% of Providers			
	Pharms	APNs	Phys	PA	Pharms	APNs	Phys	PA	Pharms	APNs	Phys	PA
< 1,000	14	38	14	22	20	43	19	23	0.7%	1.8%	0.3%	2.5%
1,000-4,999	128	122	112	77	373	259	295	115	12.5	11.1	5.0	12.5
5,000-9,999	40	37	40	35	381	251	436	109	12.7	10.8	7.4	11.8
10,000-49,999	22	22	22	19	491	347	864	118	16.4	14.9	14.6	12.8
50,000-99,999	5	5	5	5	695	608	1864	215	23.2	26.1	31.5	23.3
≥ 100,000	<u>4</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>1031</u>	<u>818</u>	<u>2448</u>	<u>342</u>	<u>34.5</u>	<u>35.2</u>	<u>10.3</u>	<u>37.1</u>
Total	213	238	197	162	2991	2326	5926	992	100%			

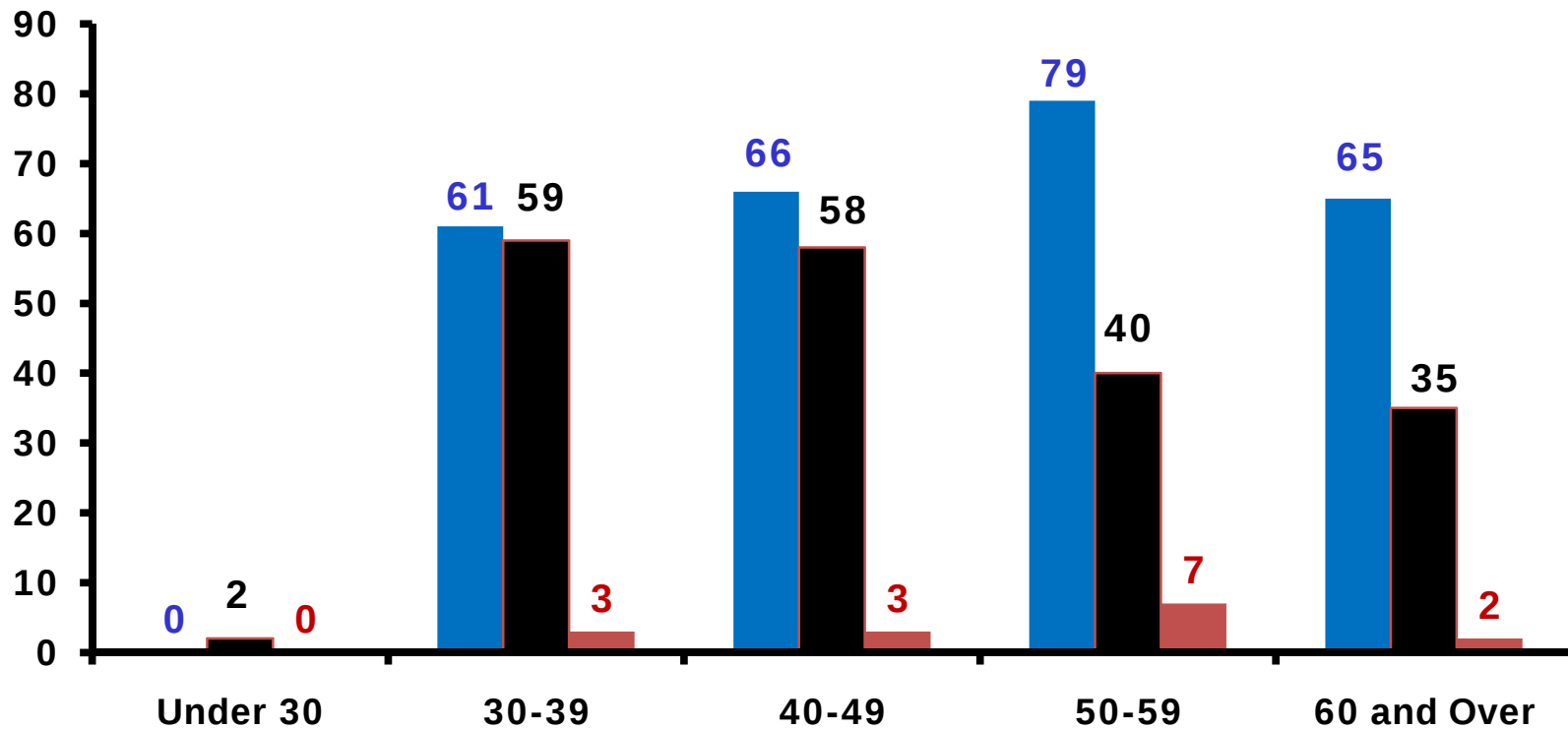
***Using 2010 census population figures, combining adjacent communities**

Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs,
UI Carver College of Medicine, June 2018

IOWA PROFESSIONS OBSTETRICS

Age Distribution Comparison

2017

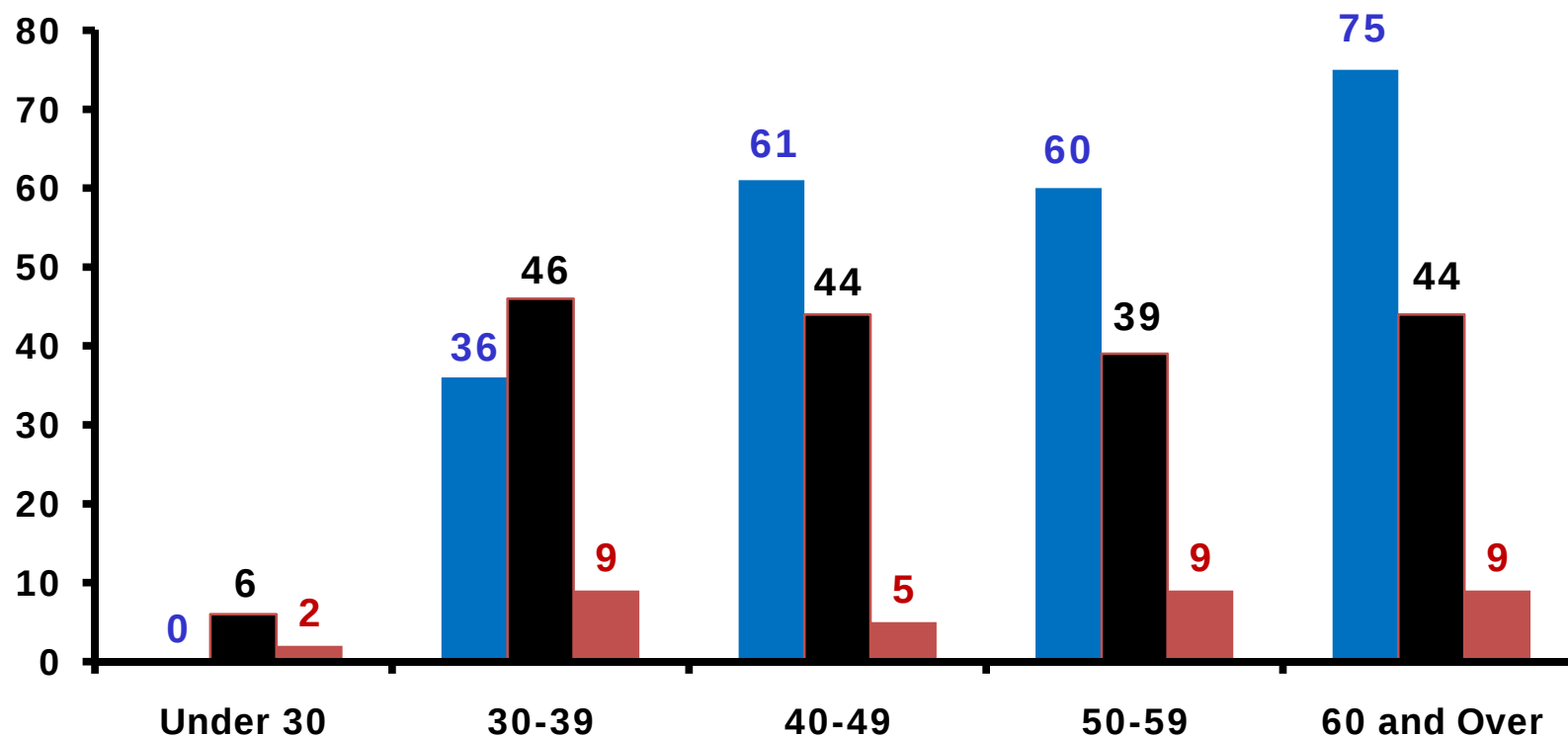


Key
Black: APN
Blue: PHY
Red: PA

IOWA PROFESSIONS MENTAL HEALTH

Age Distribution Comparison

2017

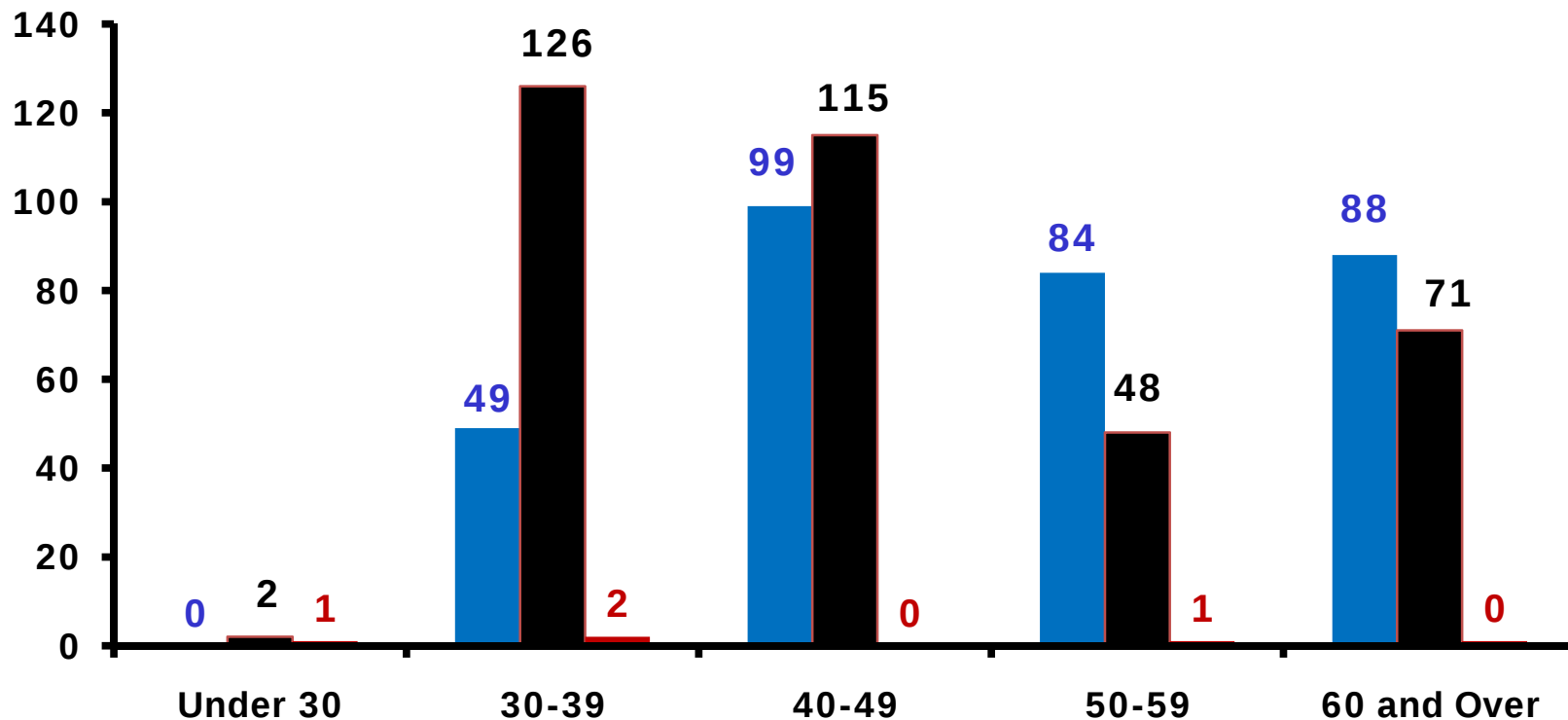


Key
Black: APN
Blue: PHY
Red: PA

IOWA PROFESSIONS ANESTHESIA

Age Distribution Comparison

2017

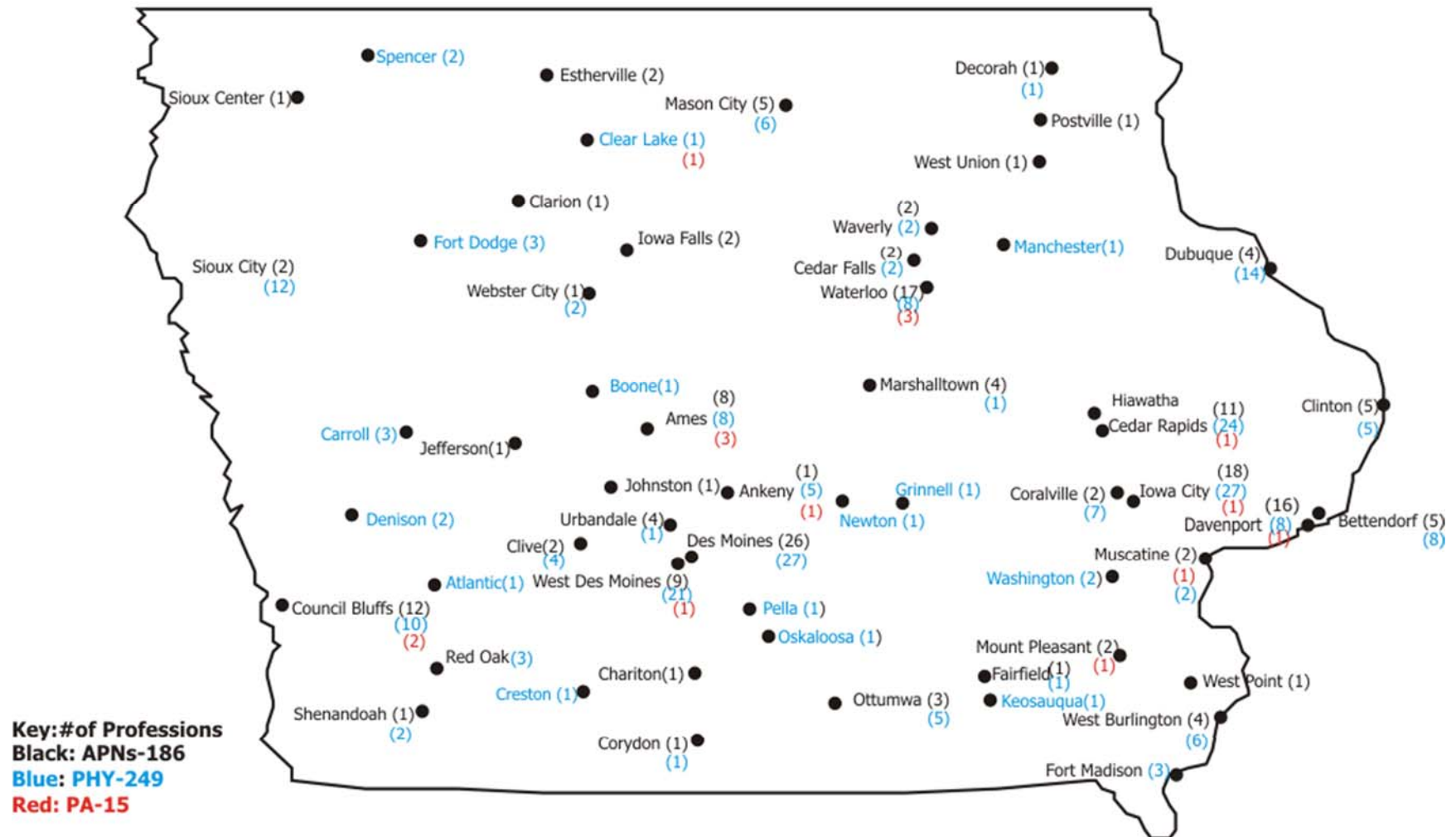


Key
Black: APN
Blue: PHY
Red: PA

IOWA PROFESSIONS

Communities with Midwives and Obstetricians (57)

2017



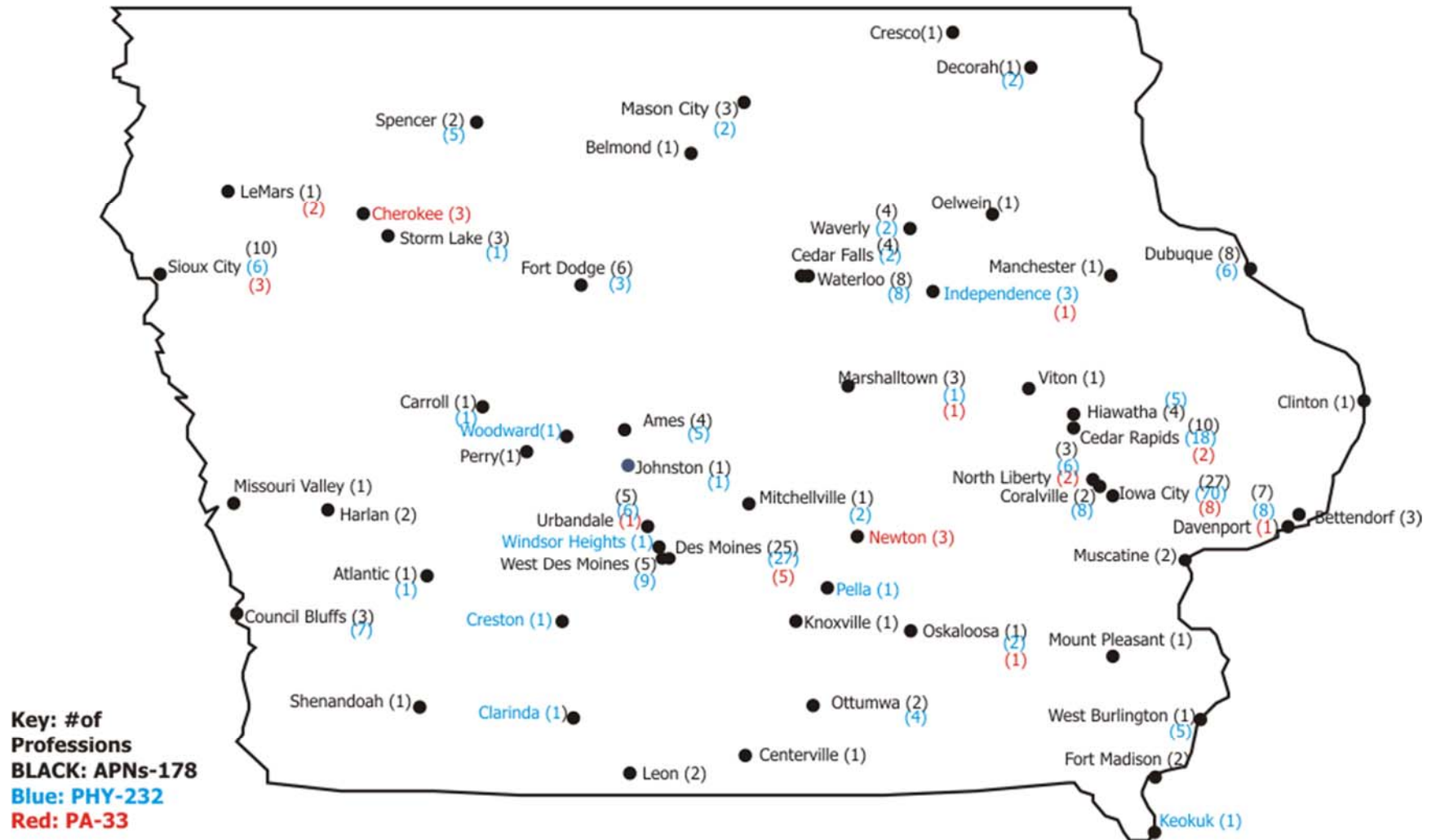
Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs, UI Carver College of Medicine, February 2019

K:\Don\WP\YE\2017\WP103-PSNP_Comm_ALLPROF

IOWA PROFESSIONS

Communities with Mental Health (56)

2017



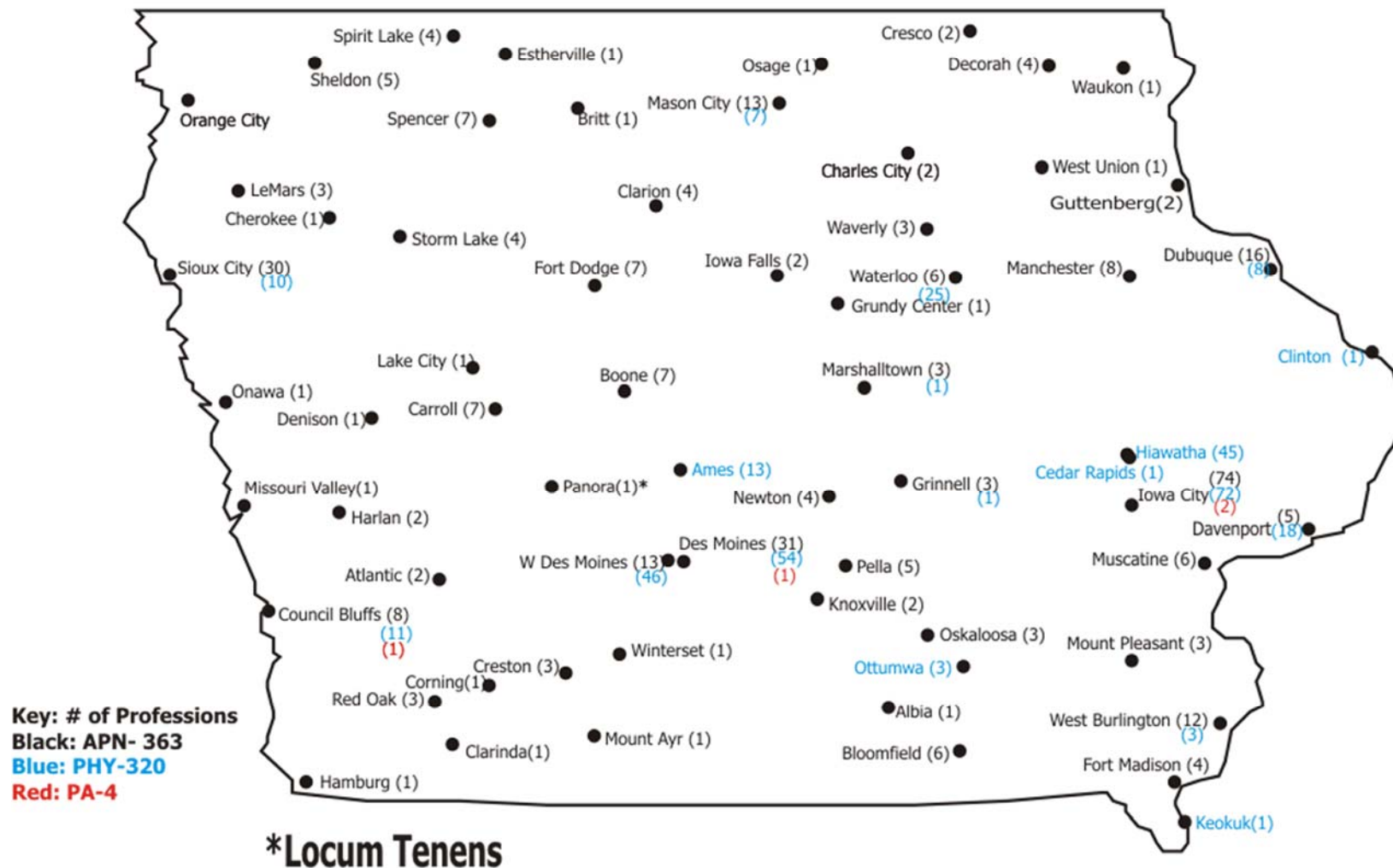
Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs, UI Carver College of Medicine, February 2019

K:\Don\NP\YE\2017\NP103-PSNP_Comm_ALLPRF

IOWA PROFESSIONS

Communities with Anesthesiology (65)

2017



Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs, UI Carver College of Medicine, February 2019

K:\Don\NP\YE\2017\NP103-CRNA_Comm_CDR