

**IOWA ADVANCED PRACTICE NURSE
TRACKING SYSTEM**

Advisory Committee Meeting

Meeting Agenda & Participant List

Iowa Advanced Practice Nurse Tracking System Advisory Committee Meeting

Iowa Health Professions Tracking Center
Office of Statewide Clinical Education Programs
UI Carver College of Medicine

— Agenda —

- Welcome and Introductions
- Meeting Agenda and Participant List
- 2020 Annual Report
 - Annual Benchmarks
 - Geographic Distribution
 - Trends
 - Workforce Summary
- Open Discussion Items

Iowa Advanced Practice Nurse Tracking System Advisory Committee Meeting

Advisory Committee

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

Maria Lofgren, DNP, ARNP, NNP-BC, CPNP, FAANP
Director of Faculty Practice
University of Iowa College of Nursing
Director of Advanced Practice Providers
The University of Iowa Hospitals and clinics

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

Kathy Weinberg, MSN, RN
Executive Director
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

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 ARNP's Annual Workforce Report*

<u>Date</u>	<u>ARNPs</u>
• December 2020	2868
• January 2020	<u>2819</u>
Gain	+49

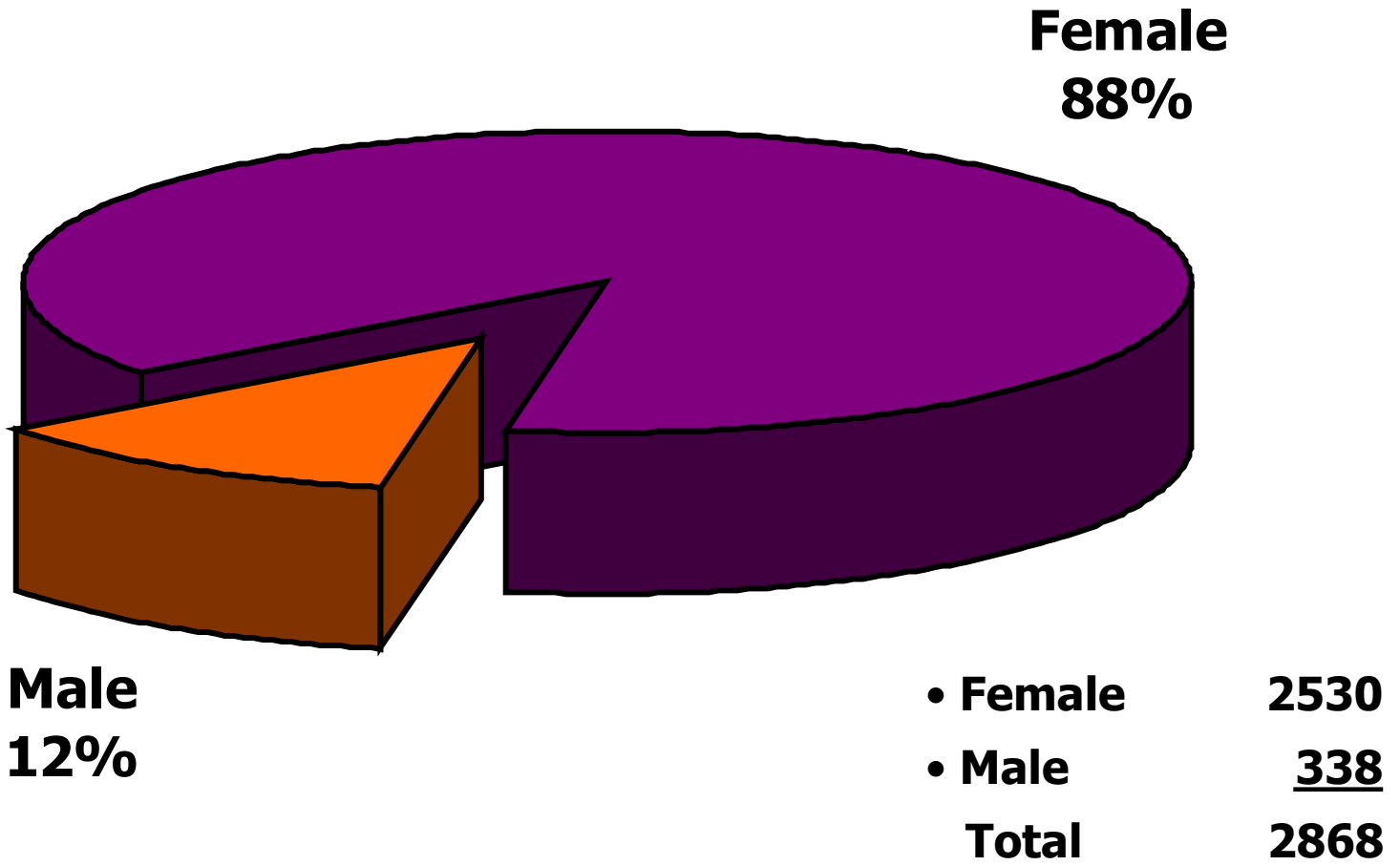
* For year ending 12-31-2020

IOWA ARNPs

Entering vs. Terminating Practice

	<u>2020</u>	<u>Prior Year</u>	<u>Prior Ten-Year Average</u>
APNs Entering	202	340	278
APNs Terminating	<u>-153</u>	<u>-194</u>	<u>- 122</u>
Net Gain/Loss	+49	+146	+156

IOWA ARNPs Gender Distribution 2020

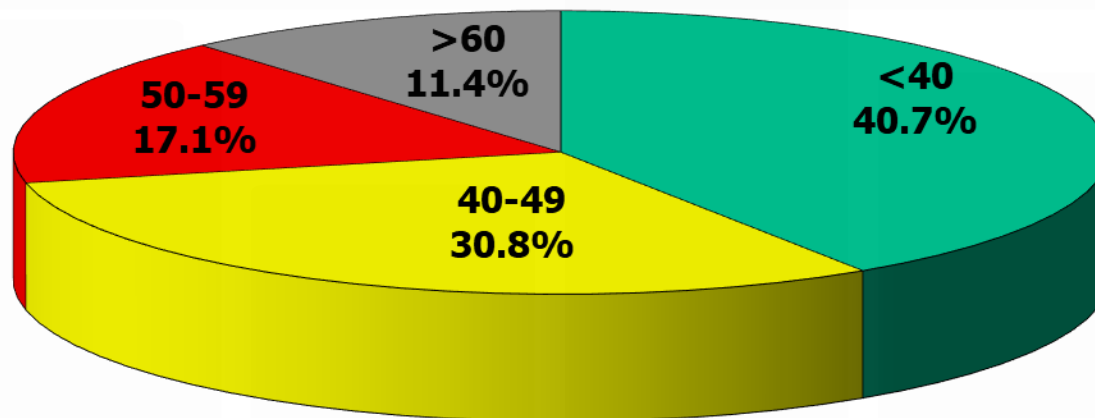


IOWA ARNPs

Age Distribution

2020

<u>Age Category</u>	<u>No.</u>	<u>%</u>	<u>Cumulative %</u>
< 40	1169	40.7%	40.7%
40-49	883	30.8%	71.5%
50-59	490	17.1%	88.6%
≥ 60	326	11.4%	100.0%
	2868	100%	100.0%



IOWA ARNPs

Full Time vs. Part Time*

2020

	<u>Number</u>	<u>Percent</u>
Full Time	2767	96%
Part Time	<u>101</u>	<u>4%</u>
Total	2868	100%

***PT = < 32 hours/week**

IOWA ARNPs Age Distribution Full Time vs. Part Time 2020

<u>Age</u>	<u>FT</u>	<u>%</u>	<u>PT</u>	<u>%</u>	<u>Cumulative %</u>
< 40	1151	40.0	18	0.6	40.6
40-49	851	29.7	32	1.1	71.4
50-59	464	16.2	26	1.0	88.6
≥ 60	<u>301</u>	<u>10.5</u>	<u>25</u>	<u>0.9</u>	100%
	2767	96.4	101	3.6	

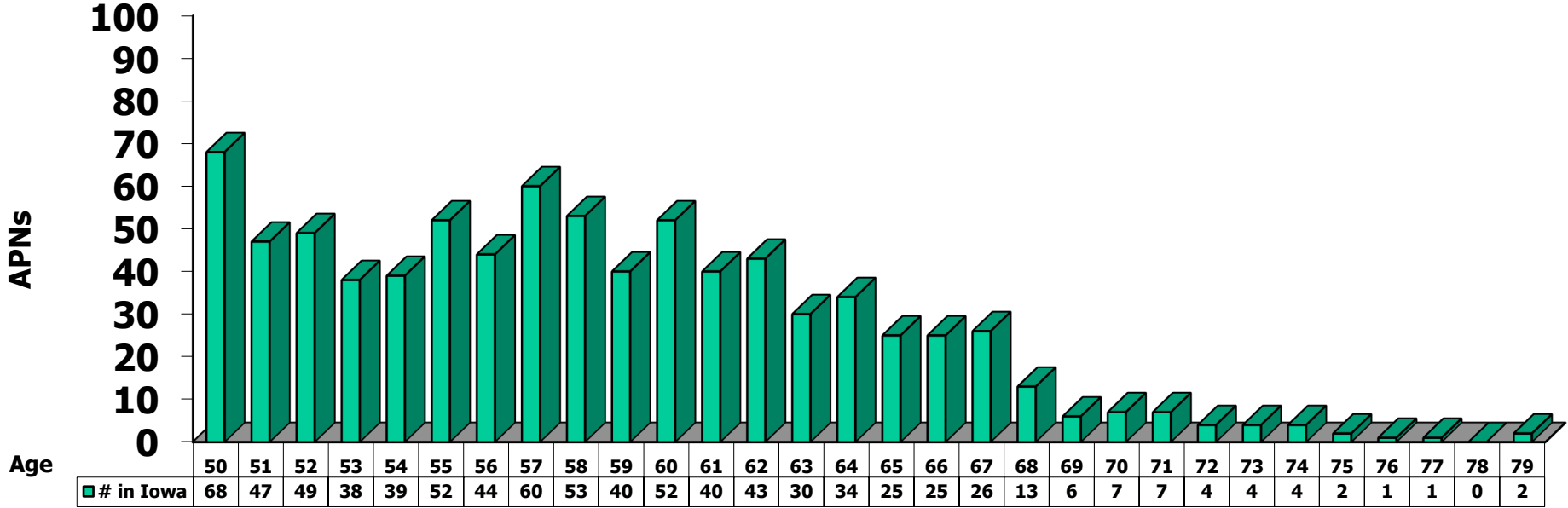
FT = ≥ 32

PT = < 32

IOWA ARNPs

Detail of Age \geq 50

2020



Total number of APNs age 50 and over = 816 (28%)

Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
 UI Carver College of Medicine, August 2021

IOWA ARNPs

Principal Professional Activity

2020

	<u>Number</u>	<u>Percent</u>
Private Practice	1886	65.8%
State Facility	310	10.8%
Public/Community Health	191	6.6%
Hospital Medicine	157	5.5%
Urgent Care	151	5.3%
Federal	82	2.9%
Teaching/Research	37	1.3%
Wound Care	21	0.7%
Student Health	18	0.6%
Administration	10	0.3%
Industrial/Occupational Med	<u>5</u>	<u>0.2%</u>
Total	2868	100%

IOWA ARNPs Certifications 2020

	<u>Number</u>	<u>Percent</u>
• Family NP (FNP)	1567	54.6%
• RN Anesthetist (CRNA)	355	12.4%
• Psychiatric NP (PSNP,CAP,CCAP)	207	7.2%
• Adult NP (ANP)	205	7.1%
• Pediatric NP (PNP)	177	6.2%
• Ob/Gyn (ONP)/Women's Health (WHNP)	91	3.2%
• Acute Care NP (ACNP)	76	2.6%
• Nurse Midwife (NMW)	75	2.6%
• Neonatal NP (NNP)	54	1.9%
• Gerontological NP (GNP)/CGE	45	1.6%
• Other*	16	0.6%
Total	2868	100%

***CMS Med Surg, School NP, CNS Oncology, CNS Adult Health
Perinatal NP, CNS**

DISTRIBUTION OF ARNPs By City Population Ranges 2020

<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 <small>(62CDP)**</small>	27%	169	405	14.1%	14.1%
5,000-9,999	42	12%	40	337	11.8%	25.9%
10,000-24,999	17	10%	17	248	8.6%	34.5%
25,000-49,999	11	14%	11	329	11.5%	46.0%
50,000-99,999	8	23%	8	1065	37.1%	83.1%
100,000 ≥	2	14%	2	484	16.9%	100.0%
Totals	947	100%	247	2868	100.0%	

65.5% 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

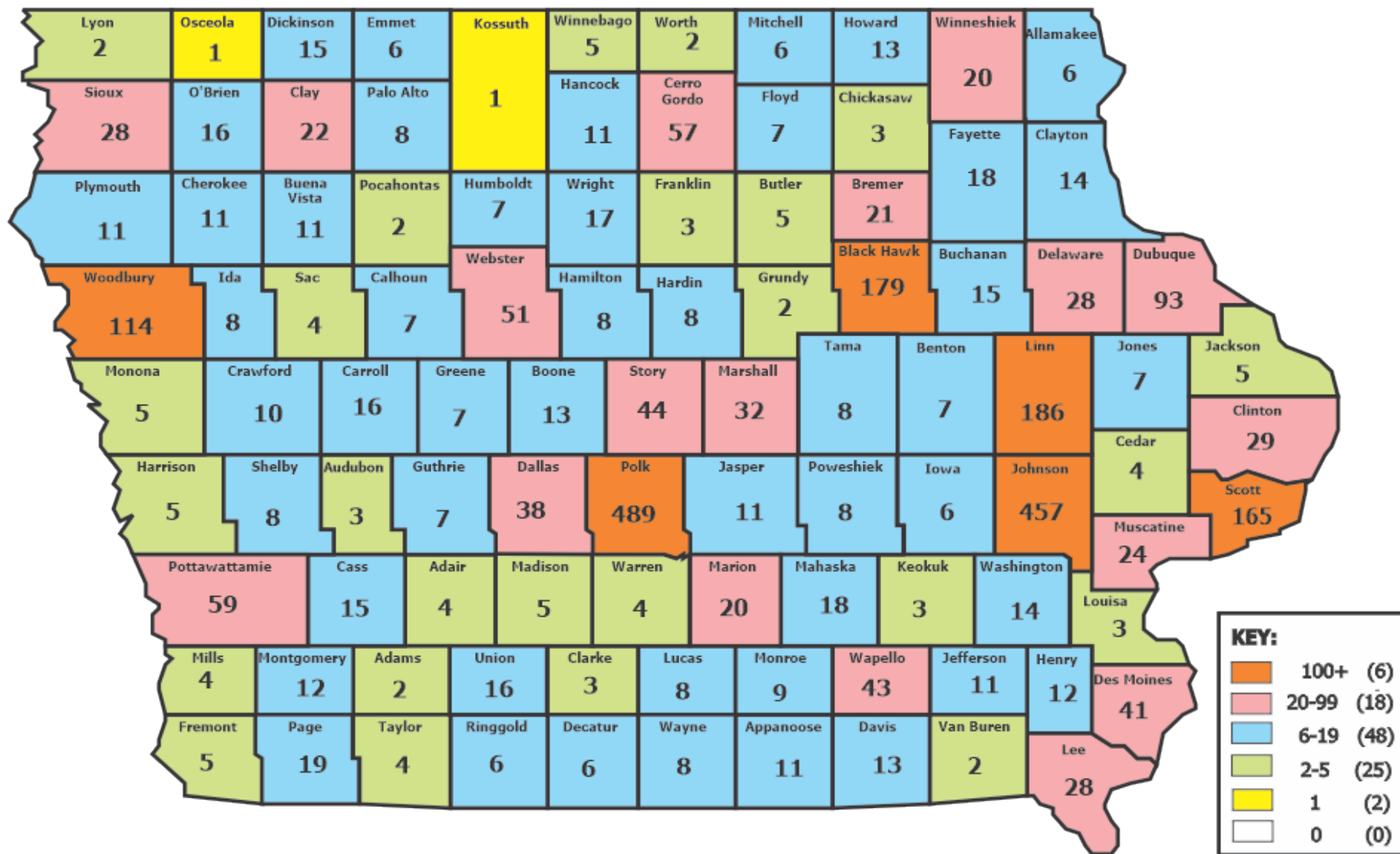
IOWA ARNPs

Communities Gaining/Losing APNs 2020

<u>Community Size</u>	<u>#Entering</u>	<u>#Leaving</u>	<u>Net</u>
<5,000	26	14	+12
5,000 - 9,999	22	21	+01
10,000 - 24,999	15	12	+07
25,000 - 49,999	24	23	+01
50,000 - 99,999	84	59	+25
<u>≥100,000</u>	<u>31</u>	<u>24</u>	<u>+07</u>
Total	202	153	+49

Geographic Distributions

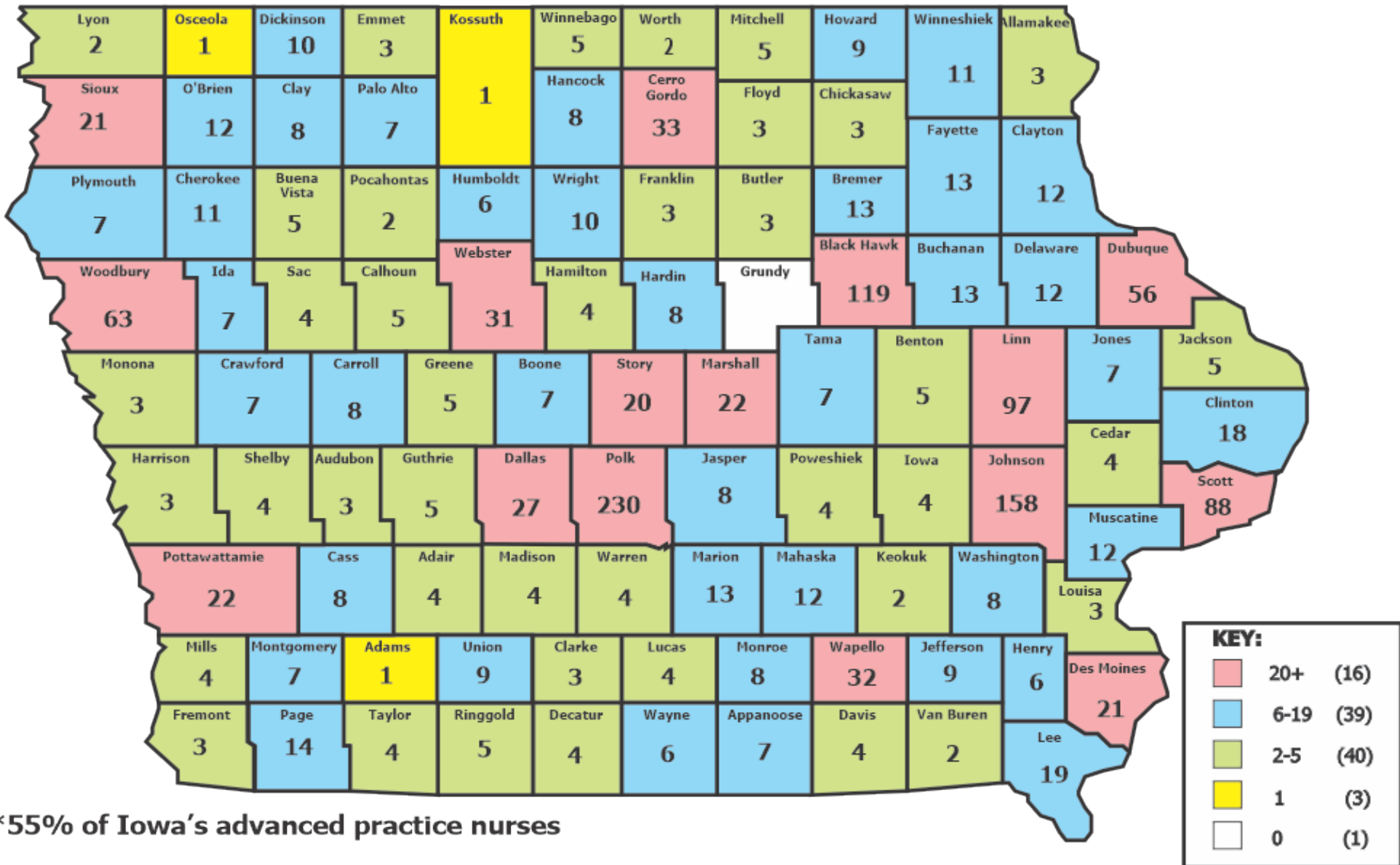
IOWA ADVANCED PRACTICE NURSES (2868) 2020



IOWA ARNPs

Family Nurse Practitioners (1567)*

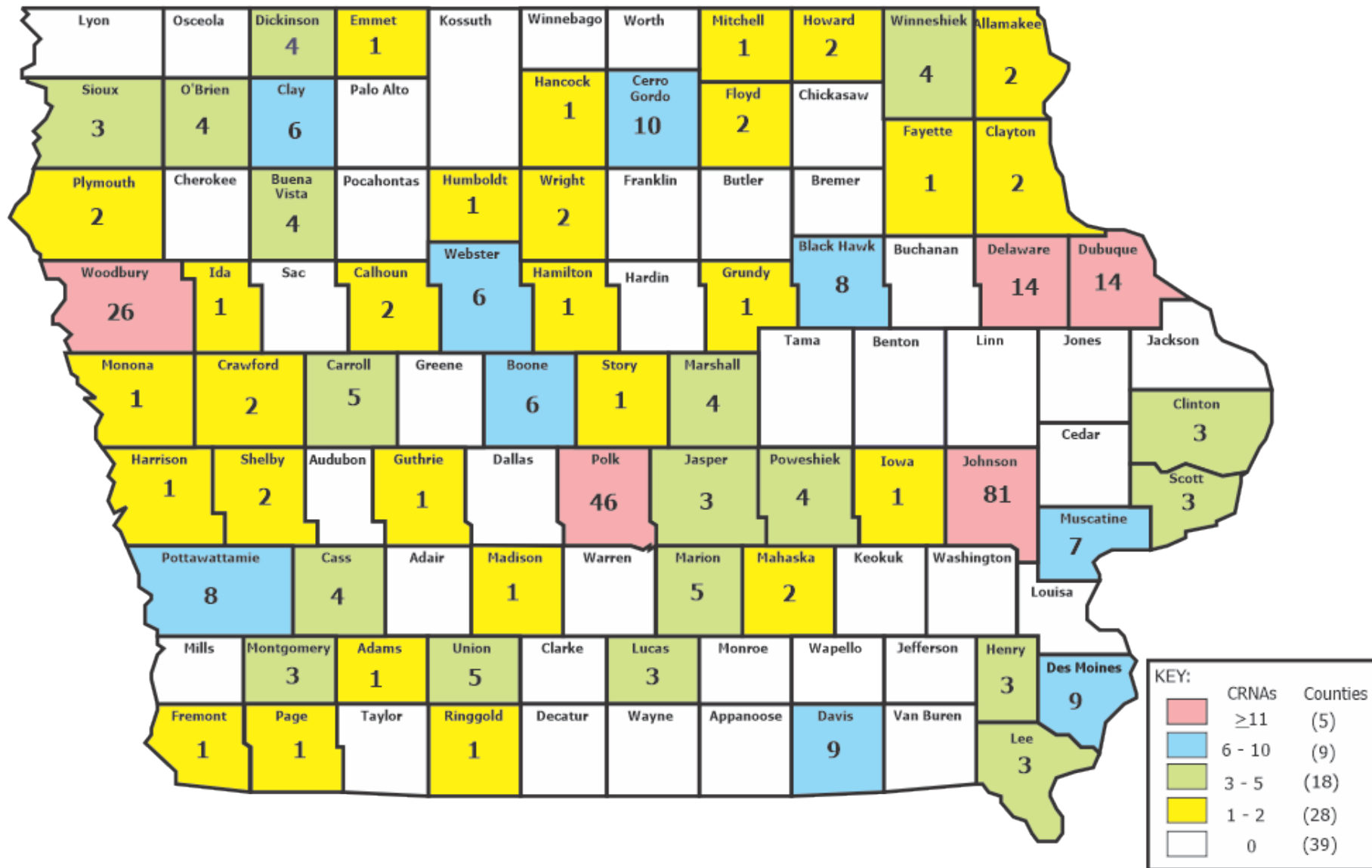
2020



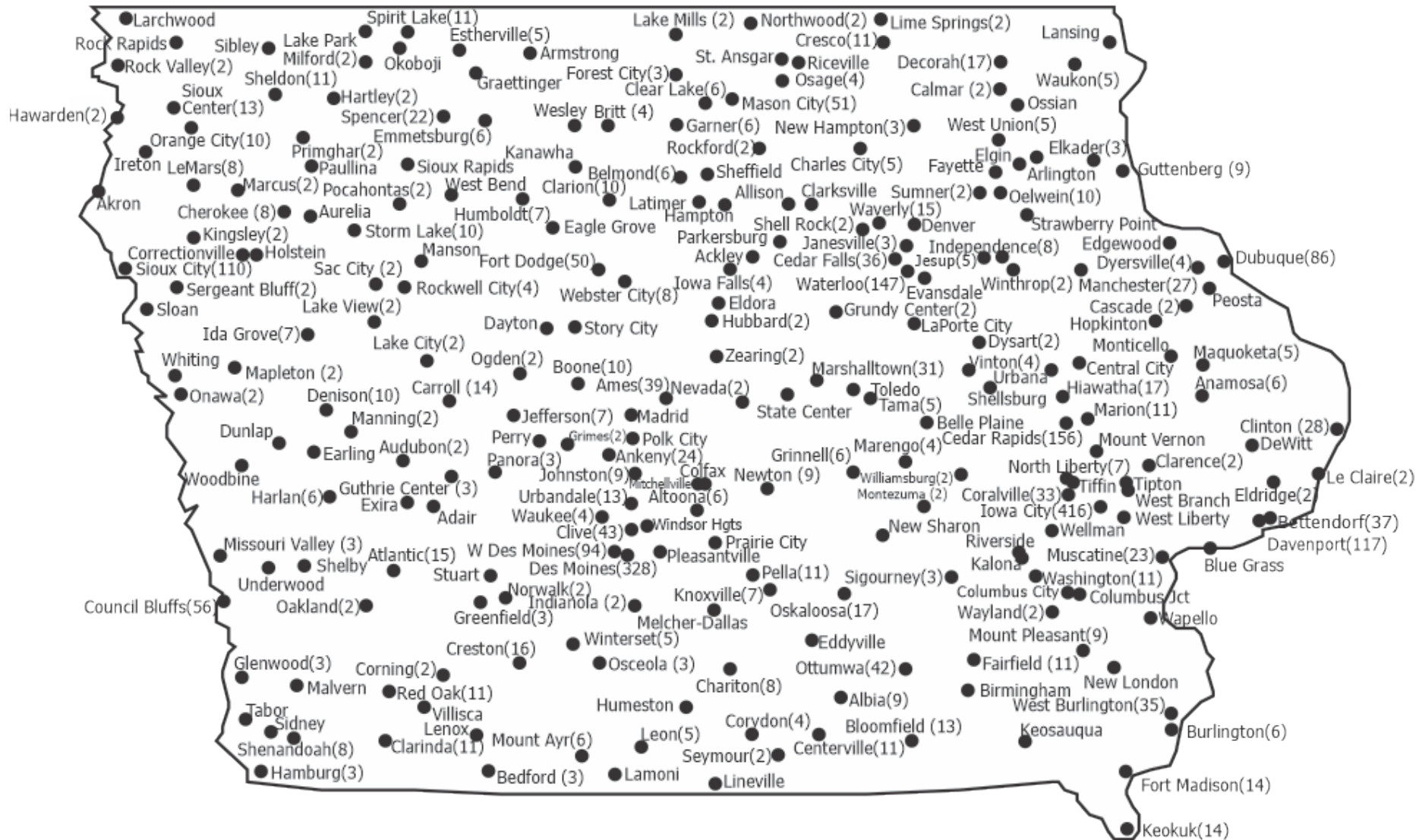
*55% of Iowa's advanced practice nurses

IOWA ARNPs

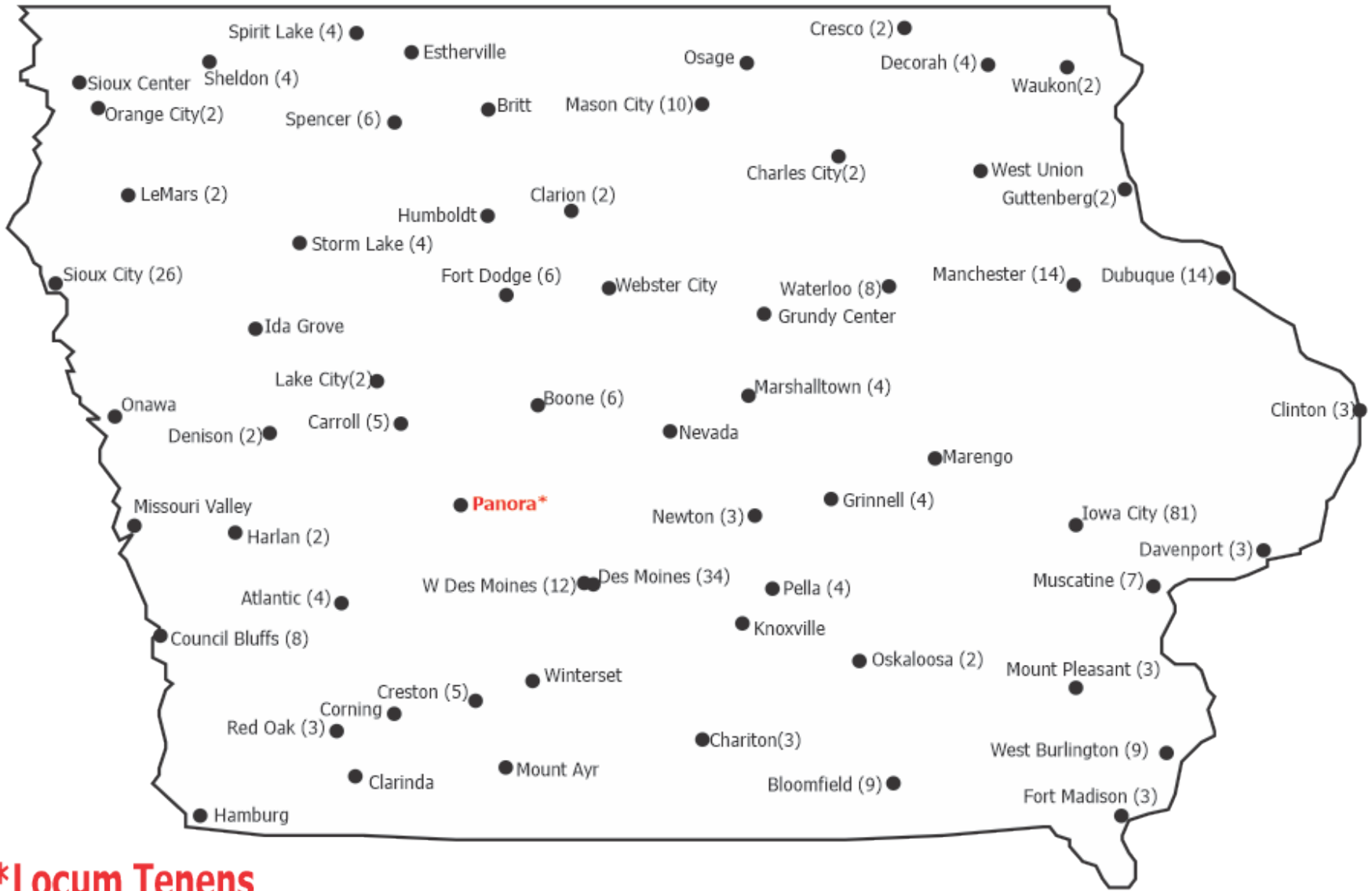
Certified Registered Nurse Anesthetists (355) 2020



IOWA ARNPs Communities with ARNPs (247) 2020



IOWA ARNPs Communities with CRNAs (63) 2020

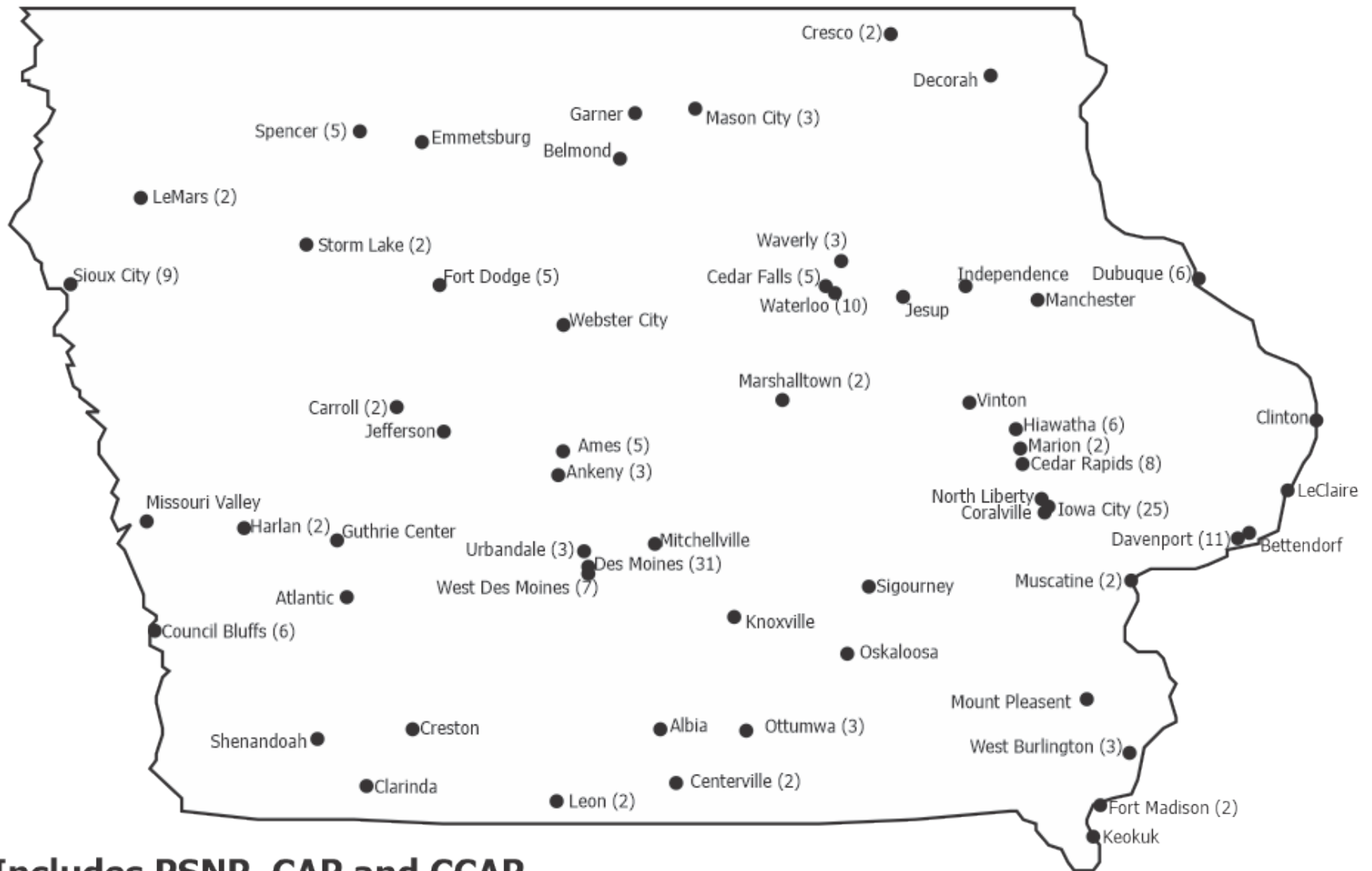


***Locum Tenens**

IOWA ARNPs

Communities with PSNPs (59)

2020

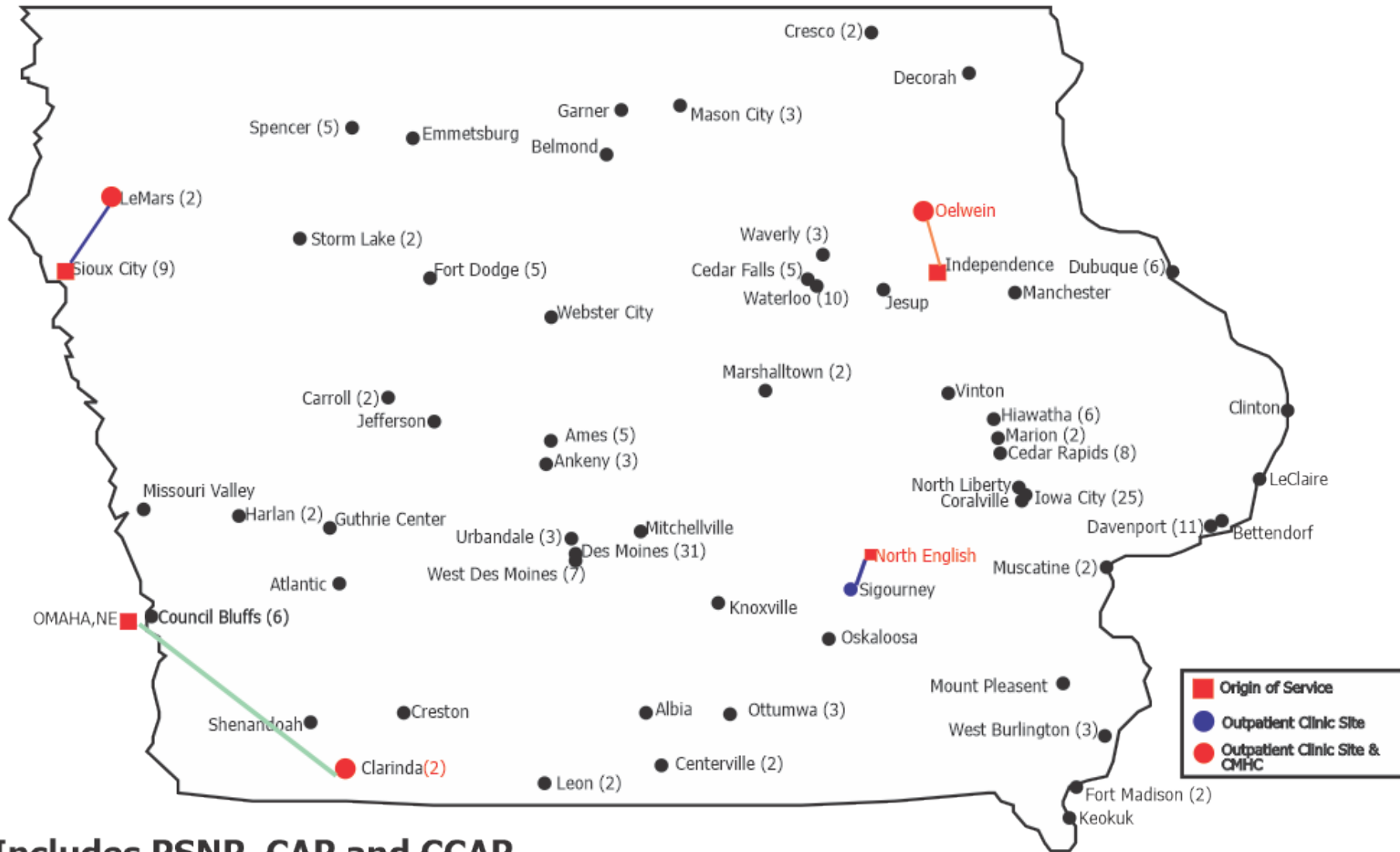


* Includes PSNP, CAP and CCAP

IOWA ARNPs

Communities with PSNPs WITH VCC (61)

2020

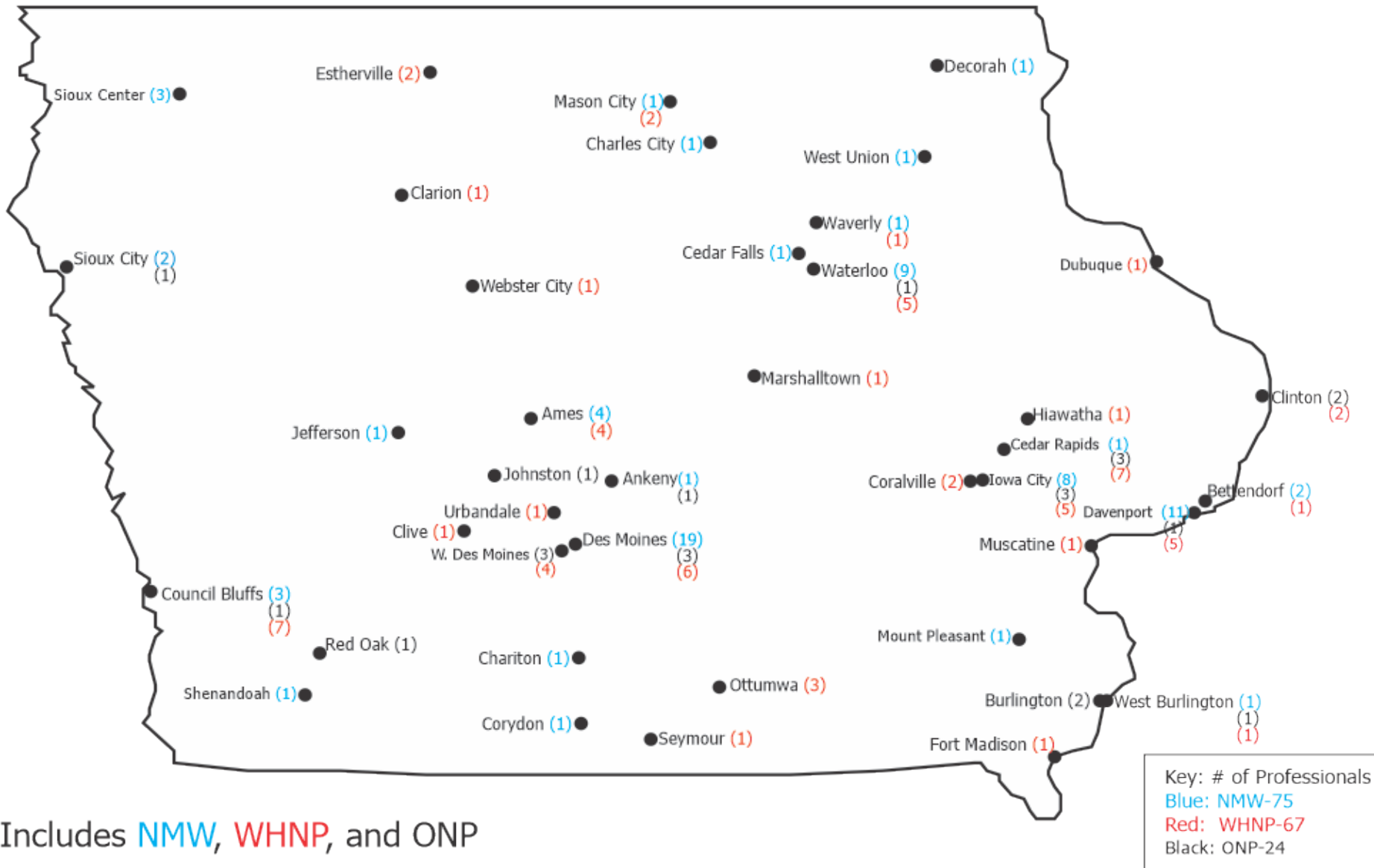


* Includes PSNP, CAP and CCAP

IOWA ARNPs

Communities with Women's Health (41)

2020



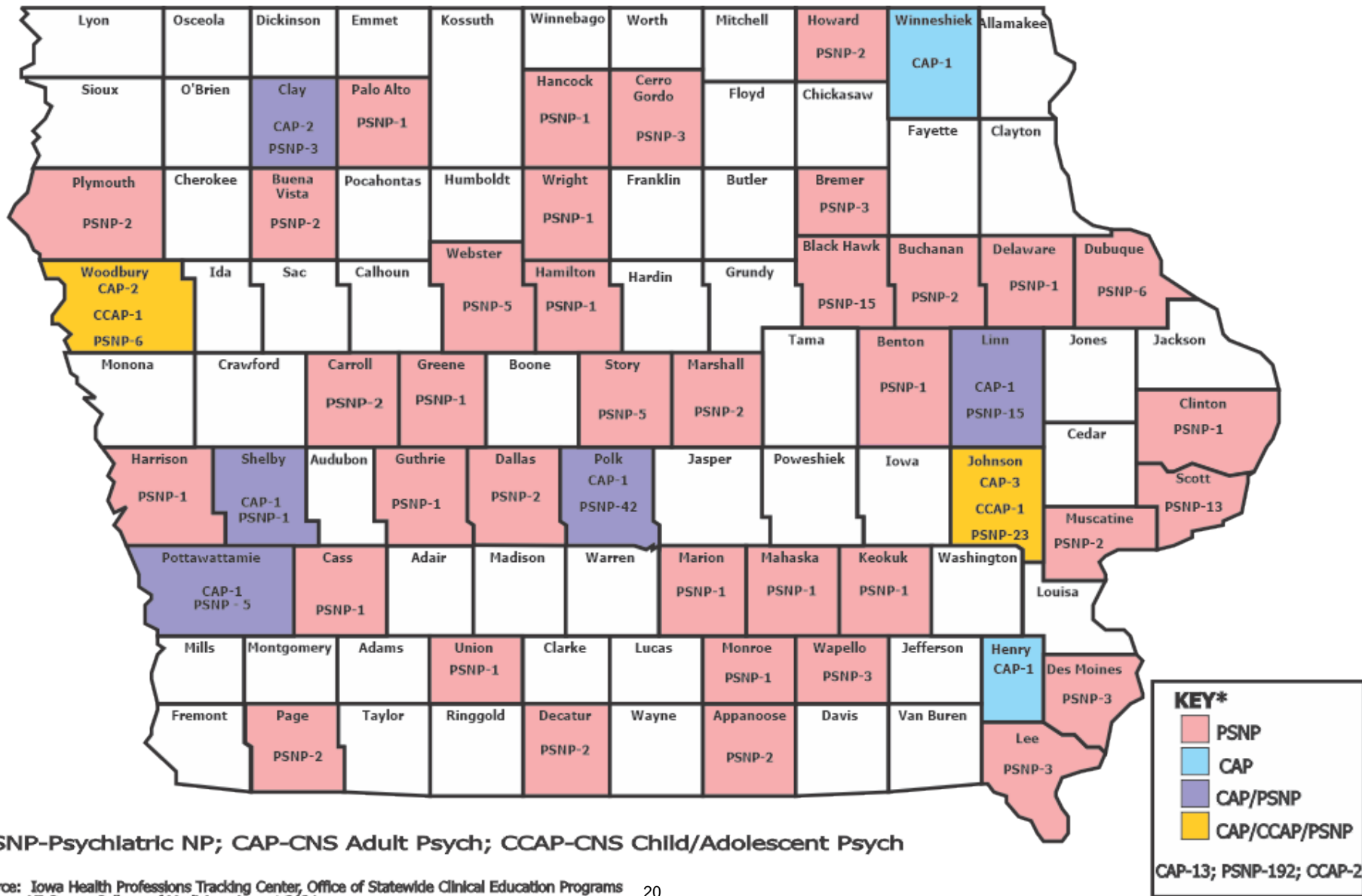
Key: # of Professionals
 Blue: NMW-75
 Red: WHNP-67
 Black: ONP-24

*Includes NMW, WHNP, and ONP

IOWA ARNPs

Psychiatric Nurse Practitioners* (207)

2020

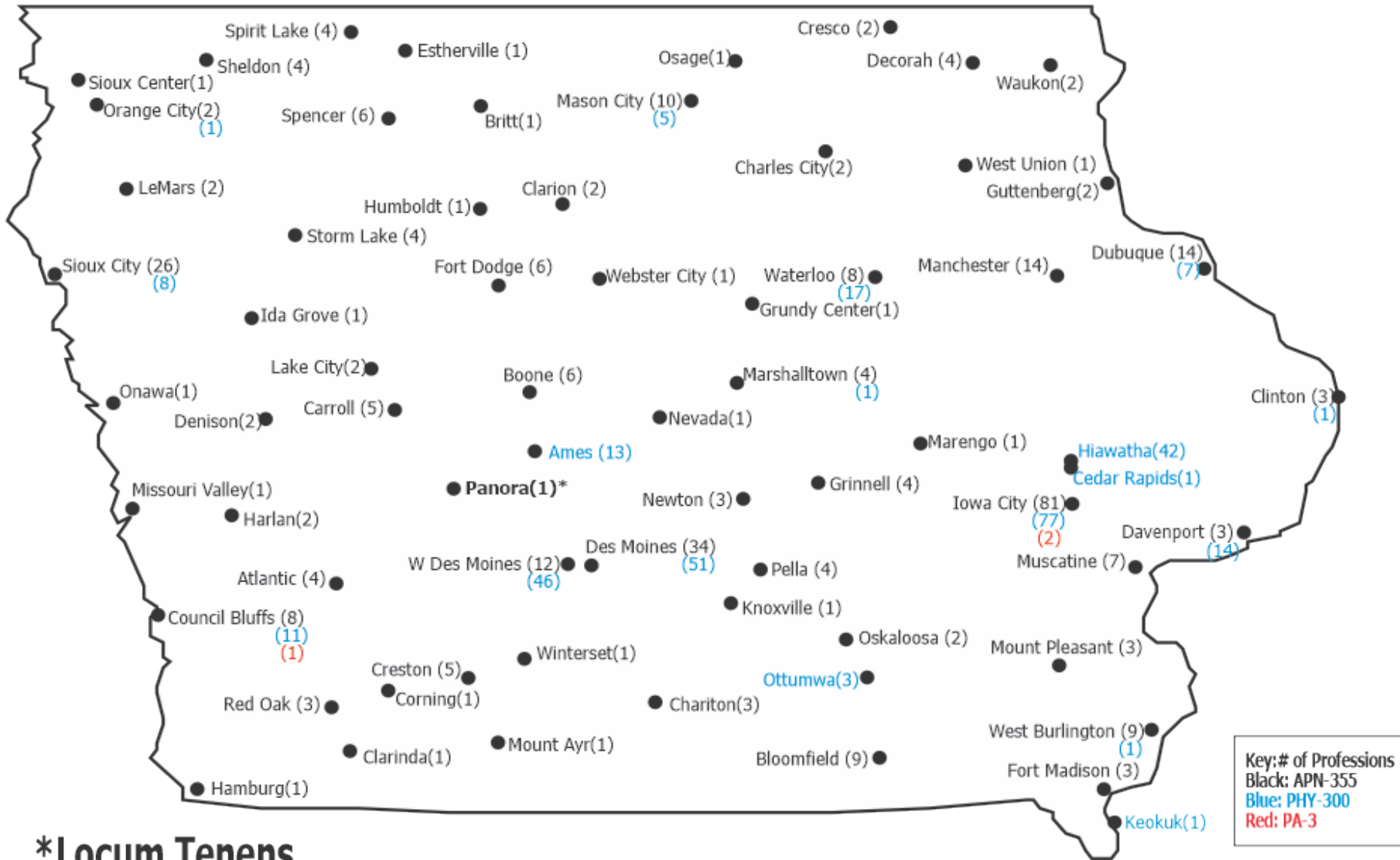


*PSNP-Psychiatric NP; CAP-CNS Adult Psych; CCAP-CNS Child/Adolescent Psych

IOWA ARNPs

Communities with Anesthesia (68)

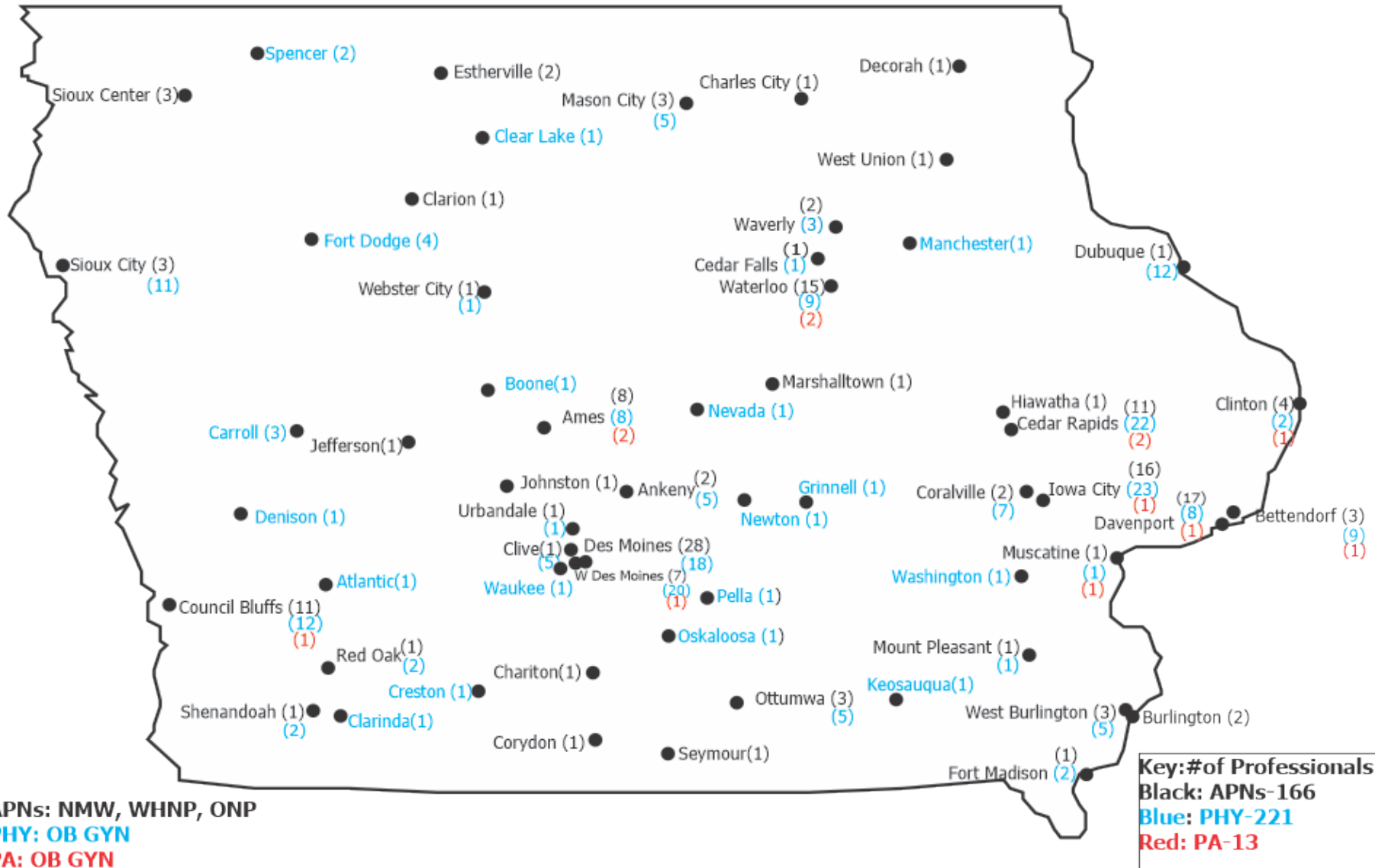
2020



Key: # of Professions
 Black: APN-355
 Blue: PHY-300
 Red: PA-3

IOWA PROFESSIONIONS

Communities with Women's Health (59) 2020

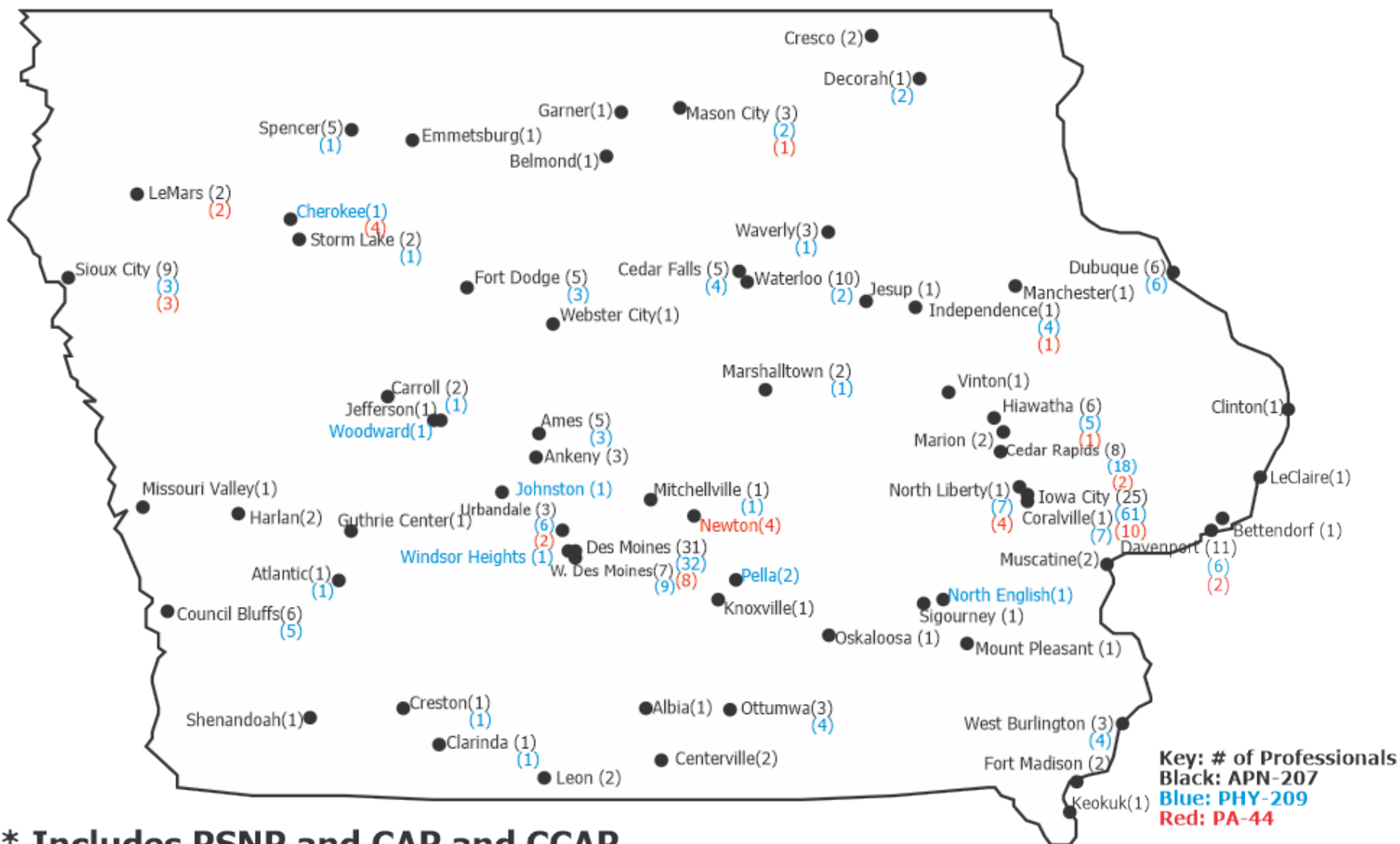


APNs: NMW, WHNP, ONP
 PHY: OB GYN
 PA: OB GYN

IOWA ARNPs

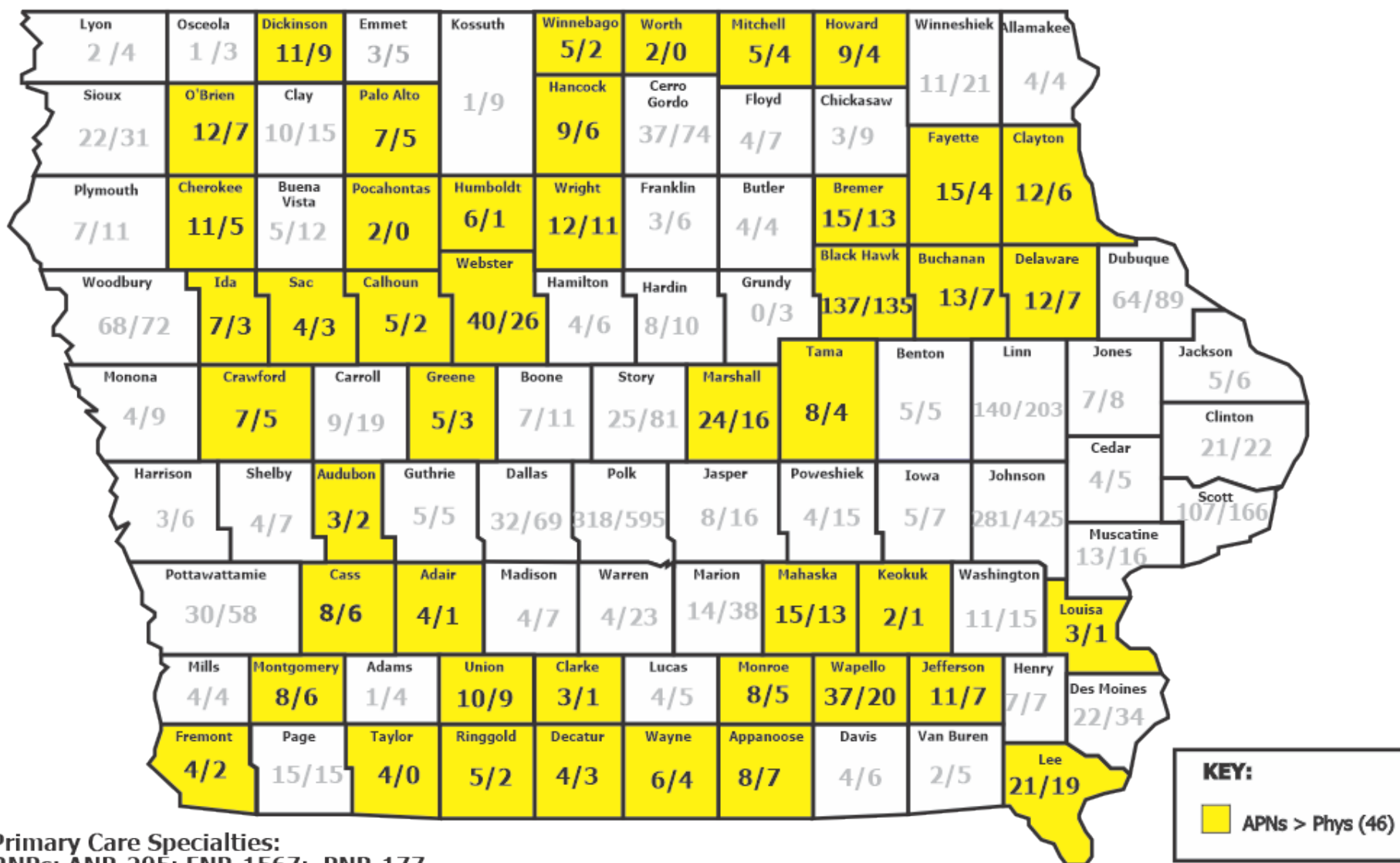
Communities with Mental Health (66)

2020



IOWA ARNPs

Primary Care*: APNs (1,949) and Physicians (2,710) 2020



KEY:

APNs > Phys (46)

*Primary Care Specialties:

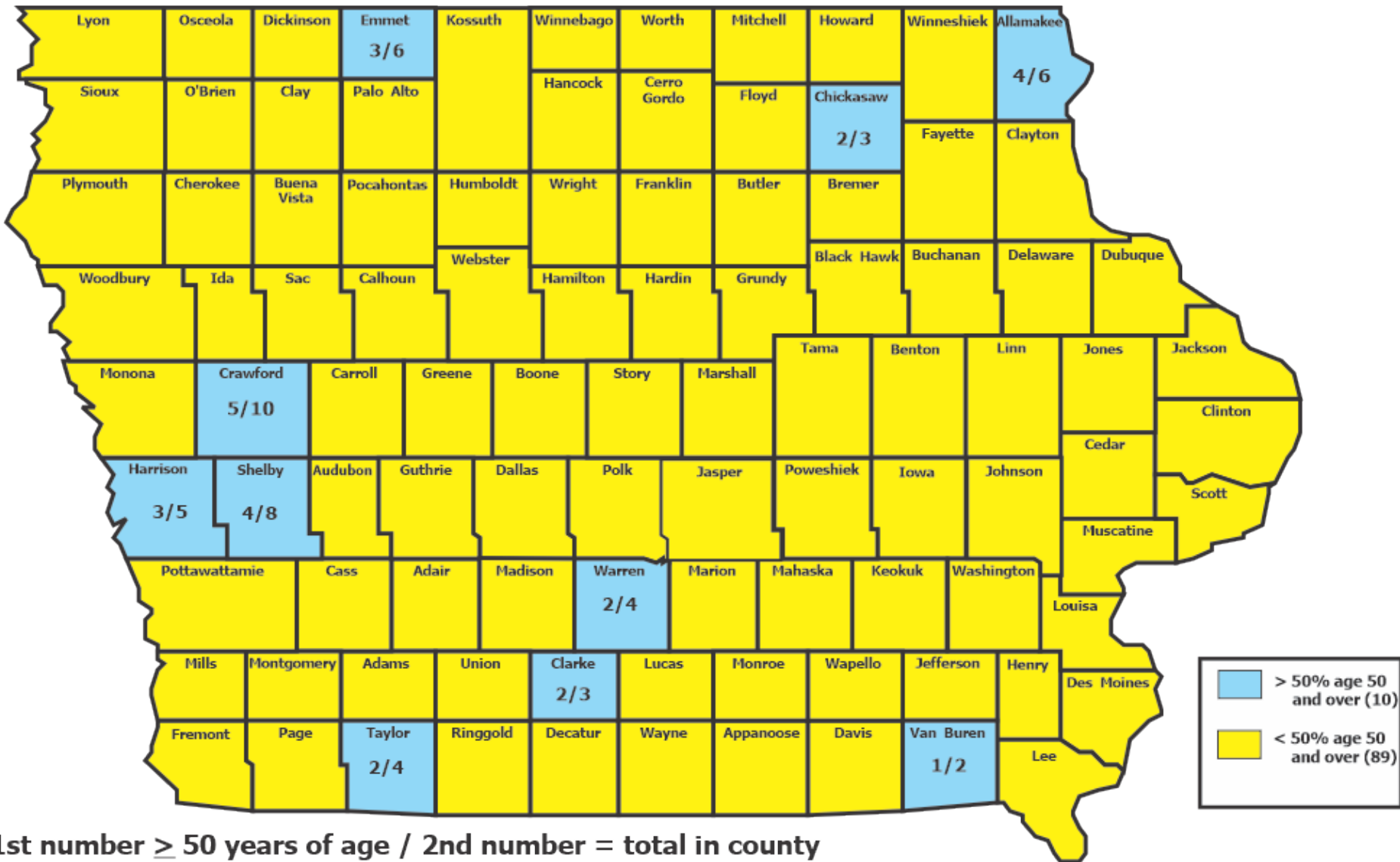
ARNPs: ANP-205; FNP-1567; PNP-177

Physicians: Family Med(incl EM)-1365; Gen Int Med -875; Peds-450

IOWA ARNPs

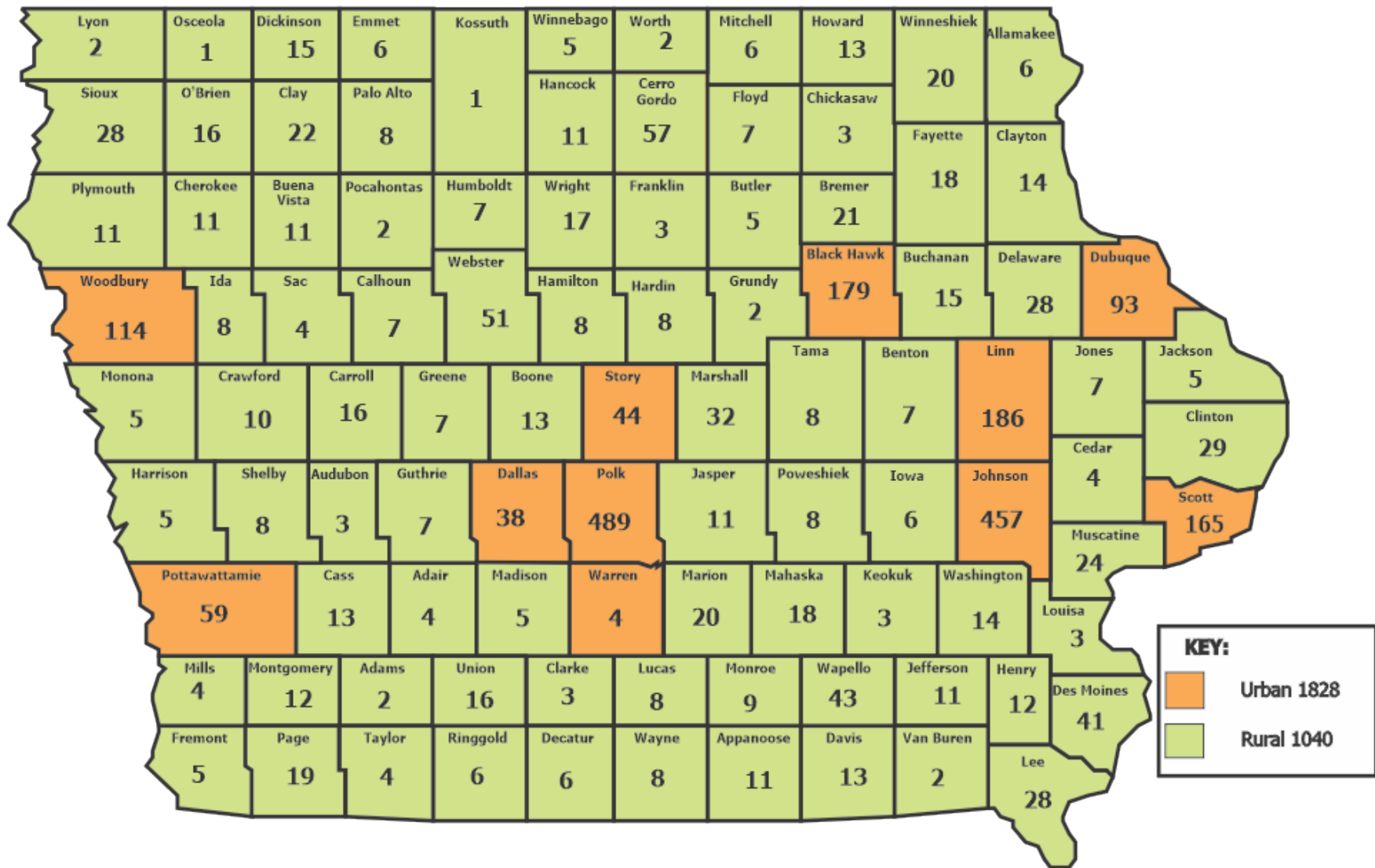
— Age 50 and Over —

2020



1st number ≥ 50 years of age / 2nd number = total in county

DISTRIBUTION OF ALL NURSE PRACTITIONERS (2,868) By Rural vs. Urban 2020



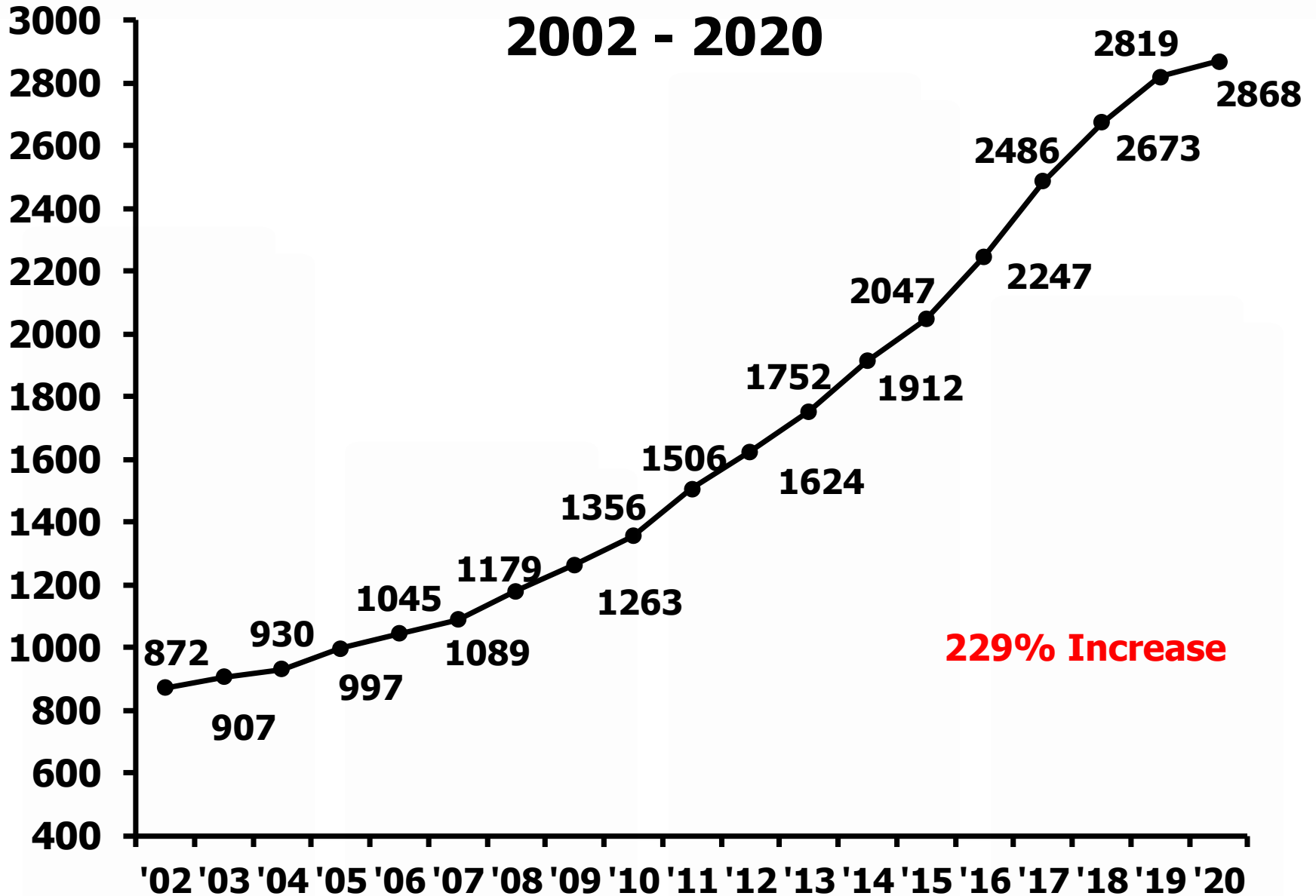
KEY:

- Urban 1828
- Rural 1040

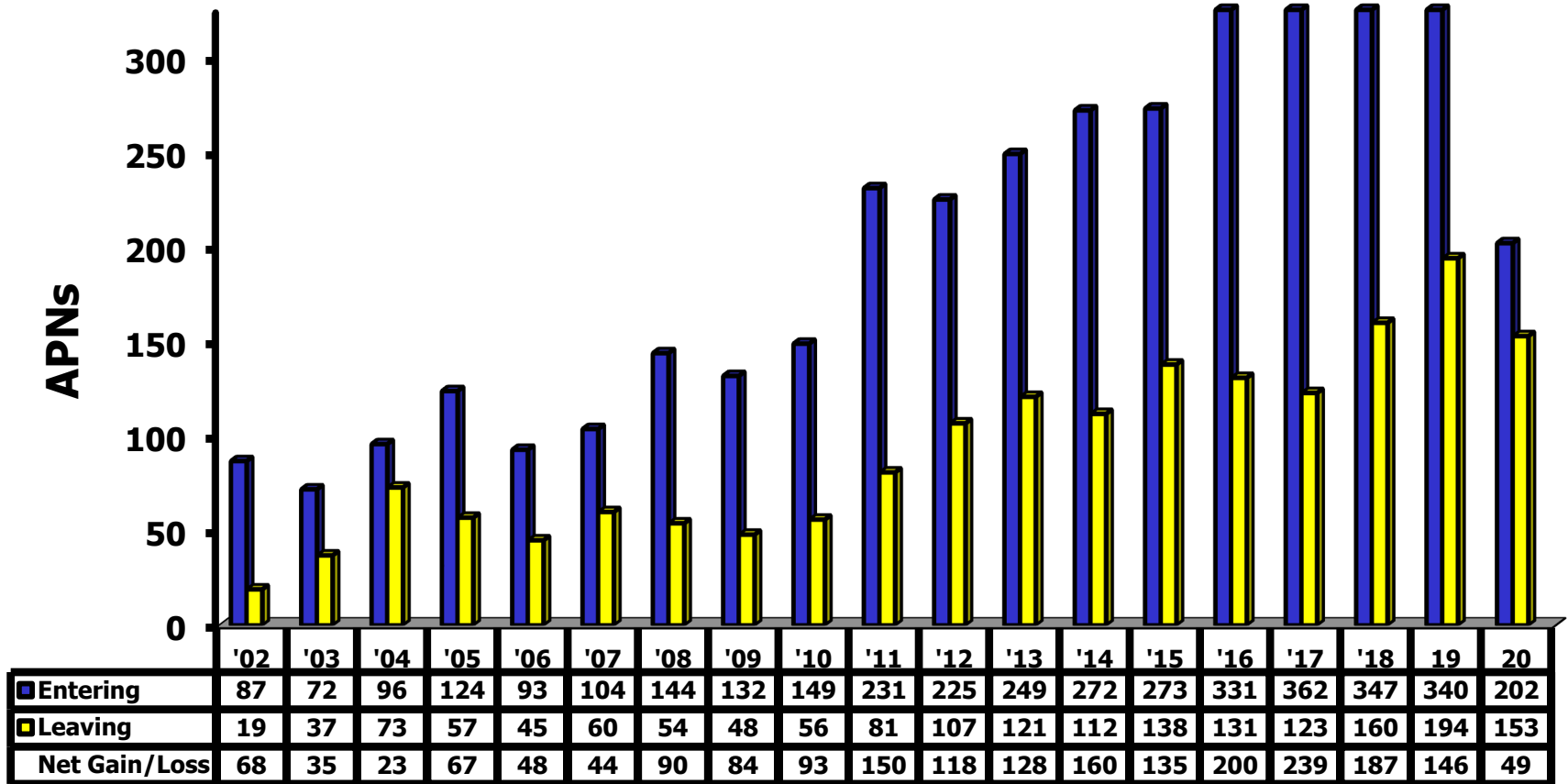
Trends

ACTIVE IOWA ARNPs

2002 - 2020



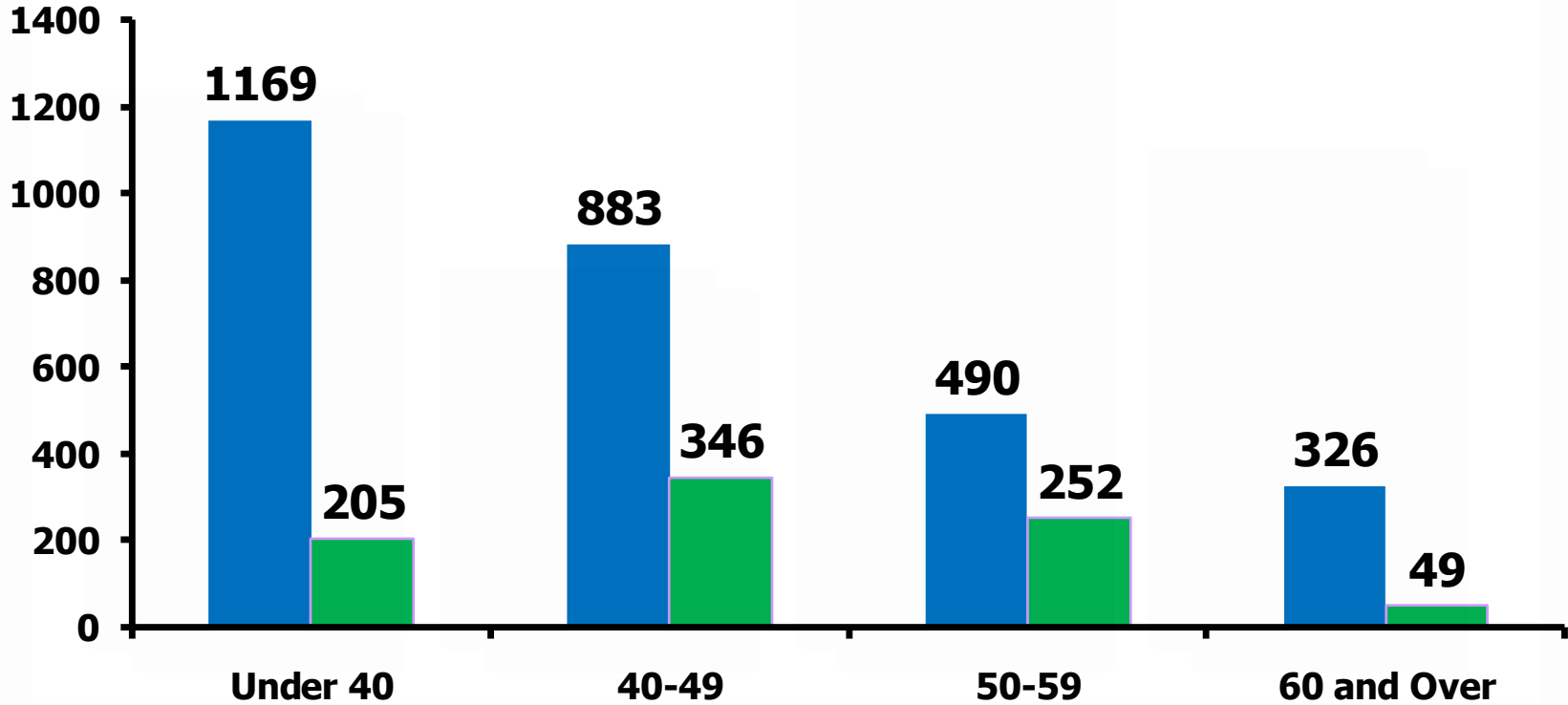
IOWA ARNPs Net Gain/Loss 2002 - 2020



IOWA ARNPs

Age Distribution Comparison

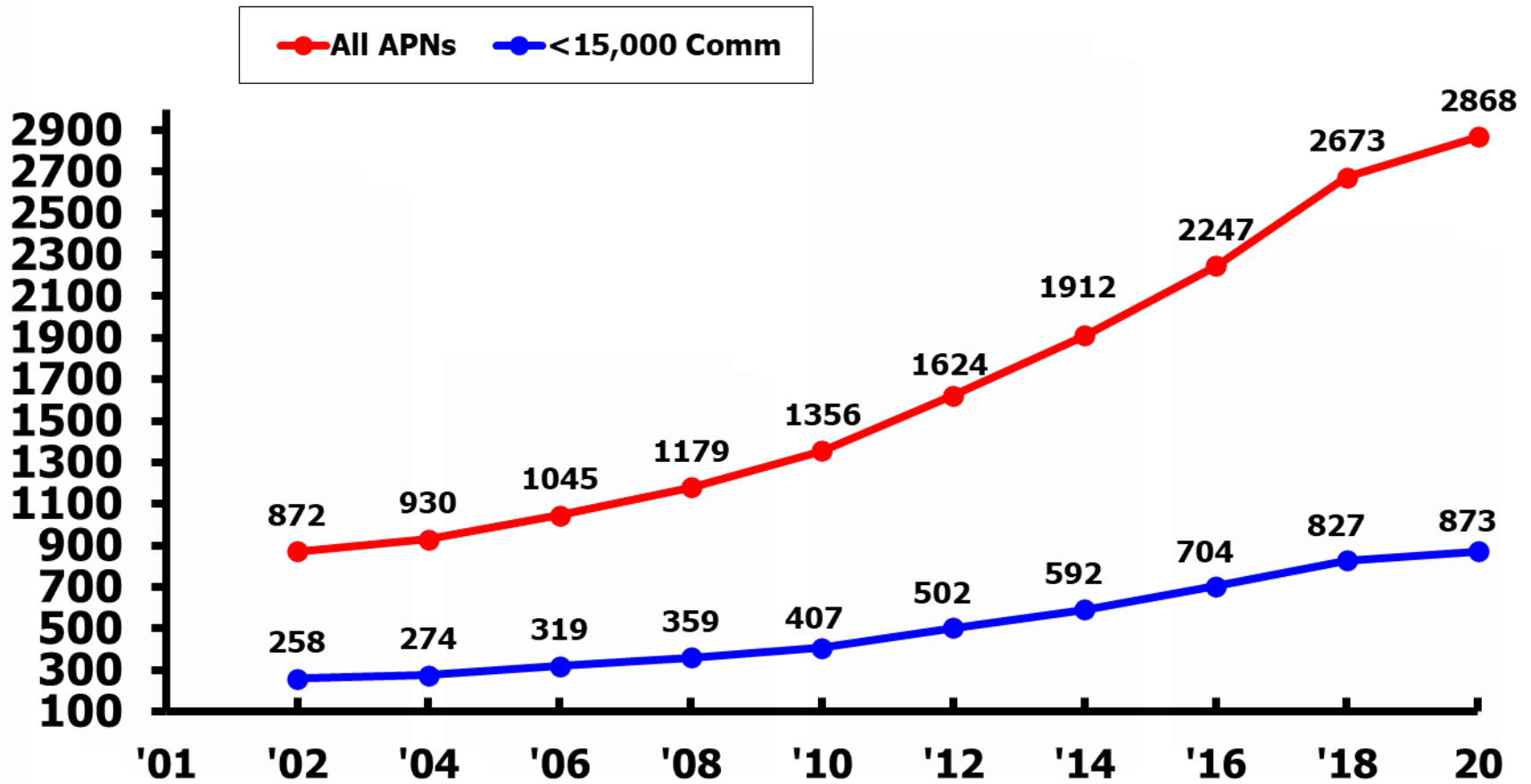
2002 vs. 2020



<u>Year</u>	<u>Total APNs</u>	<u>Average Age</u>	<u>Median Age</u>
2020	2868	44	42
2002	852	45	46

IOWA ARNPs

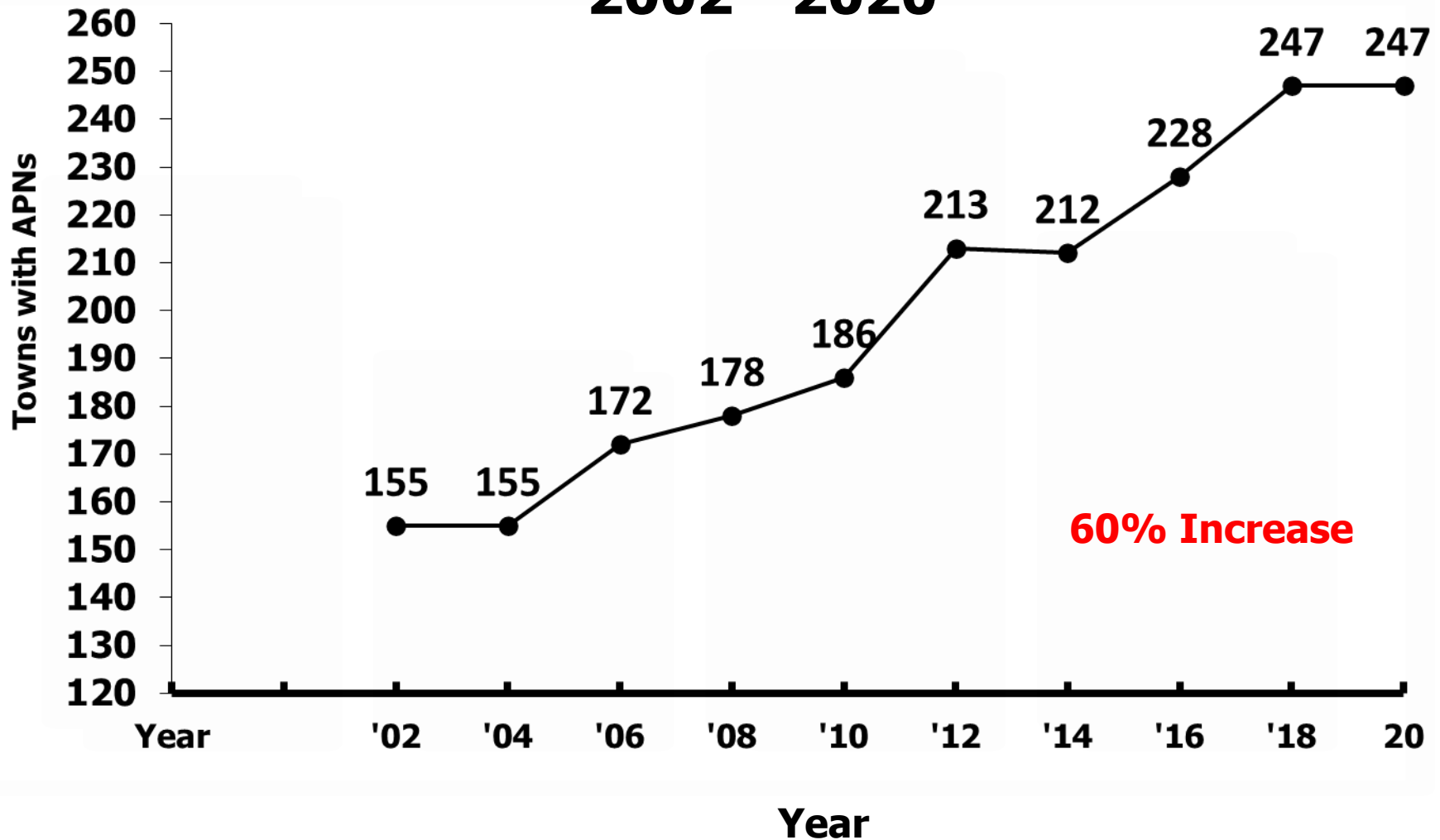
Working in Communities of <15,000 2002 – 2020



IOWA ARNPs

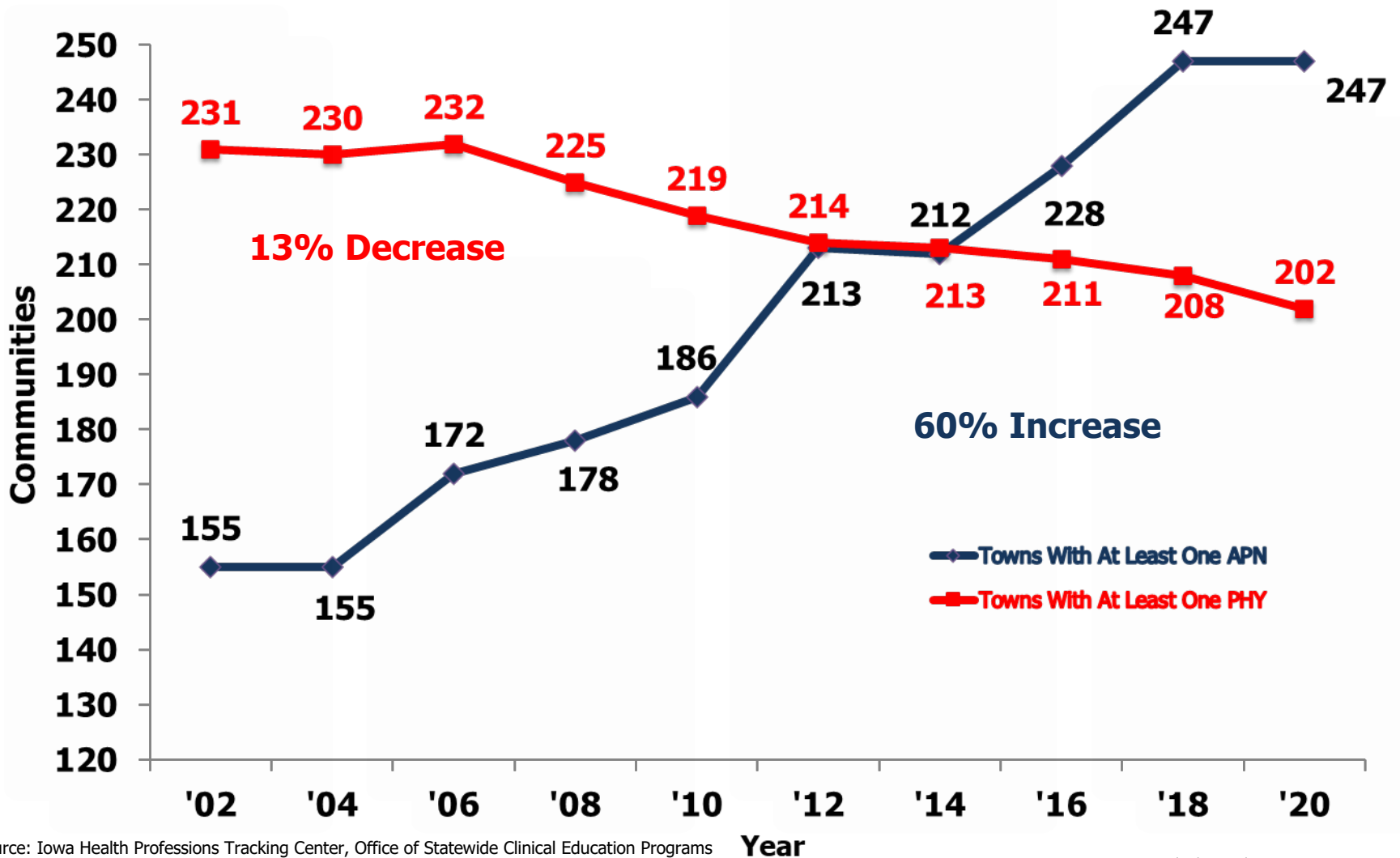
Towns With at Least One APN

2002 - 2020



IOWA ARNPs

Communities with ARNP or Physician 2002-2020

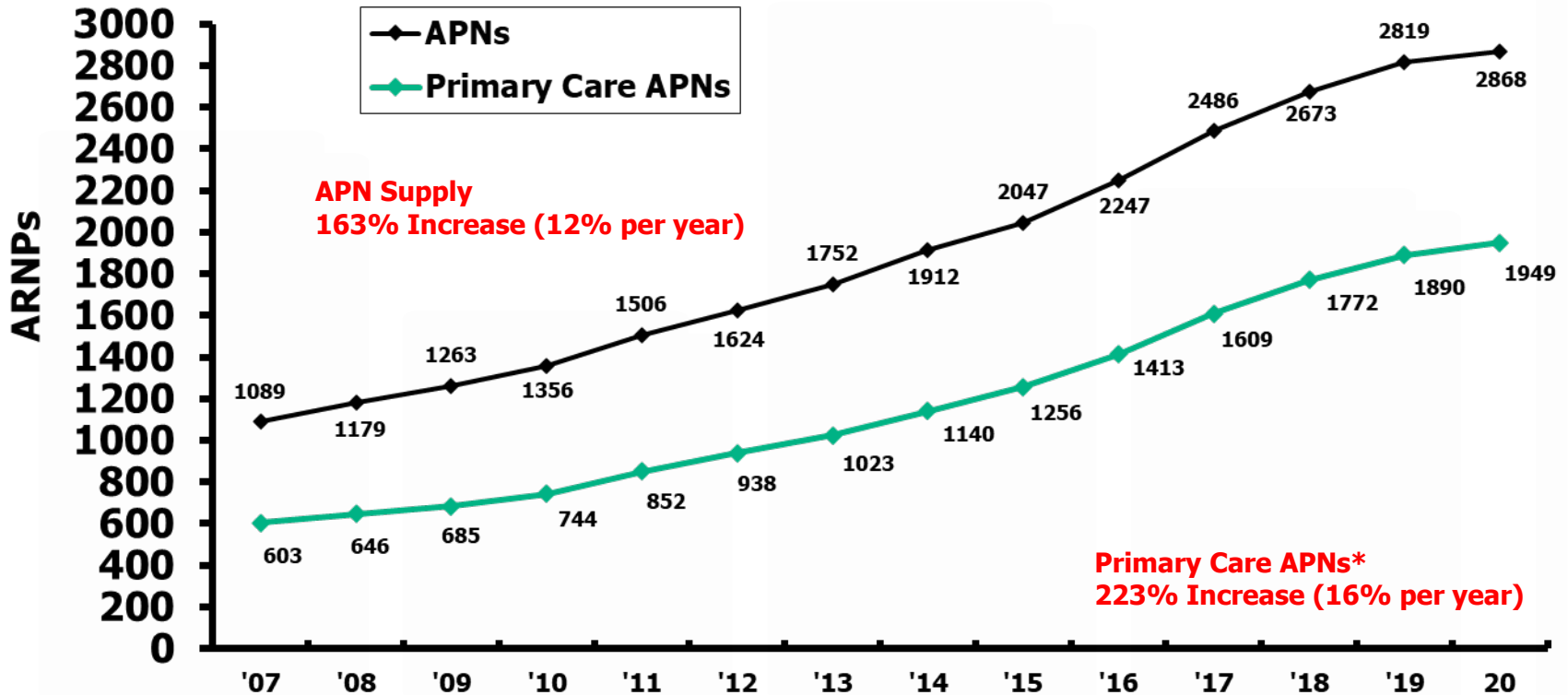


Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs

IOWA ADVANCED PRACTICE NURSING SUPPLY

All ARNPs – **Primary Care APNs***

2007 - 2020

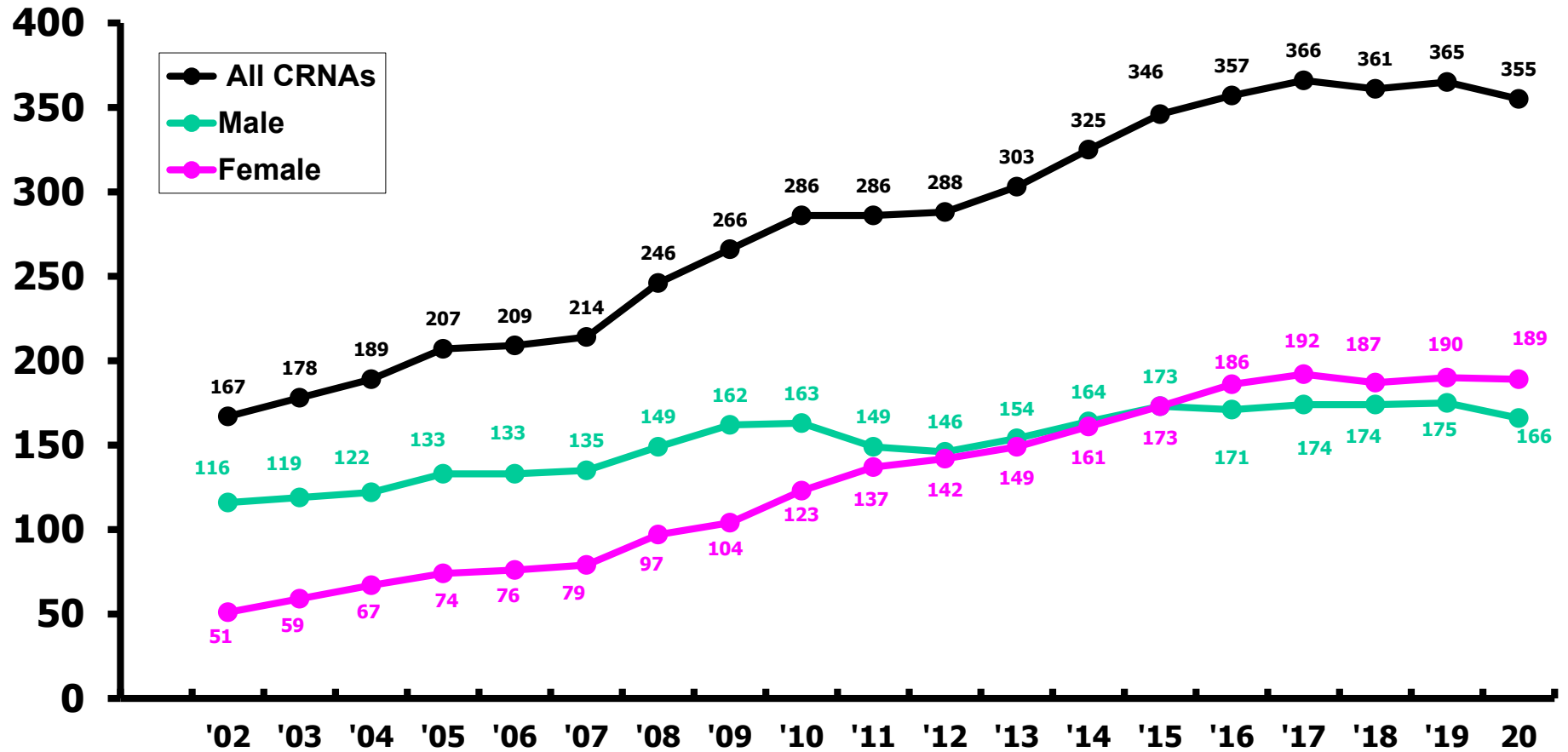


*Primary Care: ANP, FNP, & PNP

IOWA ARNPs

CRNA - Gender

2002 - 2020



IOWA ARNPs

Attrition Analysis 2011-2020

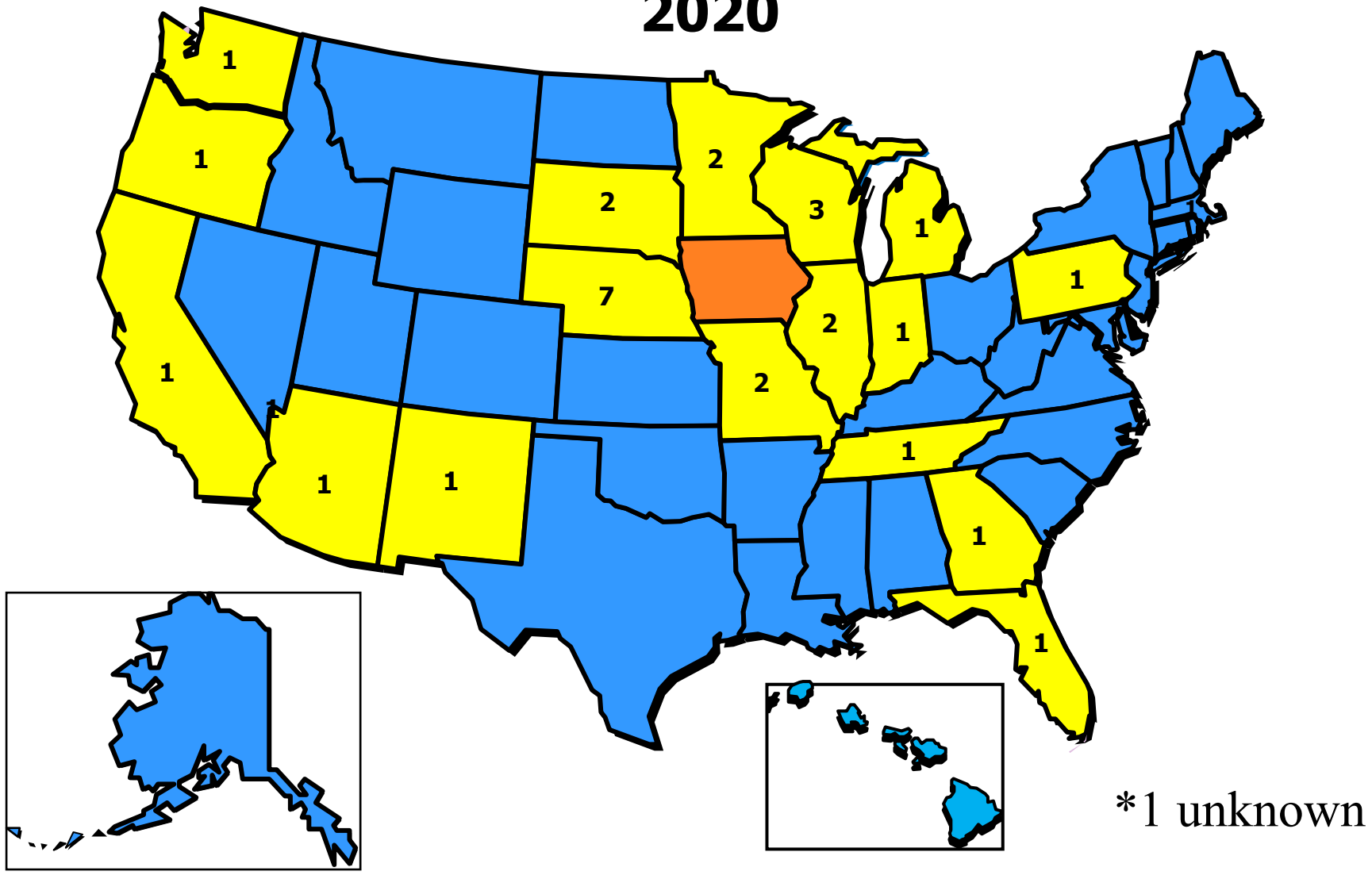
Year	Retirement	Relocation	Death	Health	Training	Inactive	Locum Tenens	Loss of License	Military	Misc/UNK	Total
2011	21	19	-	-	-	3	-	-	-	38	81
2012	19	22	2	1	-	9	1	-	-	53	107
2013	19	30	-	2	1	10	3	-	-	56	121
2014	20	40	1	2	1	3	5	-	-	40	112
2015	30	41	3	-	1	10	3	-	-	50	138
2016	30	29	-	1	3	5	6	-	-	57	131
2017	30	25	1	-	2	2	2	-	-	61	123
2018	45	46	-	-	3	5	2	1	1	57	160
2019	45	67	2	-	3	13	3	-	-	61	194
2020	37	30	1	-	1	11	4	-	-	69	153
Total	296	349	10	6	15	71	29	1	1	542	1320
Annual Average	29.6	34.9	1	0.6	1.5	7.1	2.9	0.1	0.1	54.2	132

Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs

K:\Document\NP\YE2020\Workforce142

University of Iowa Carver College of Medicine, August 2021

RELOCATION OF IOWA ARNPs (30)* 2020



*1 unknown

Workforce Comparisons

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce – 2020

Physicians **5,908**

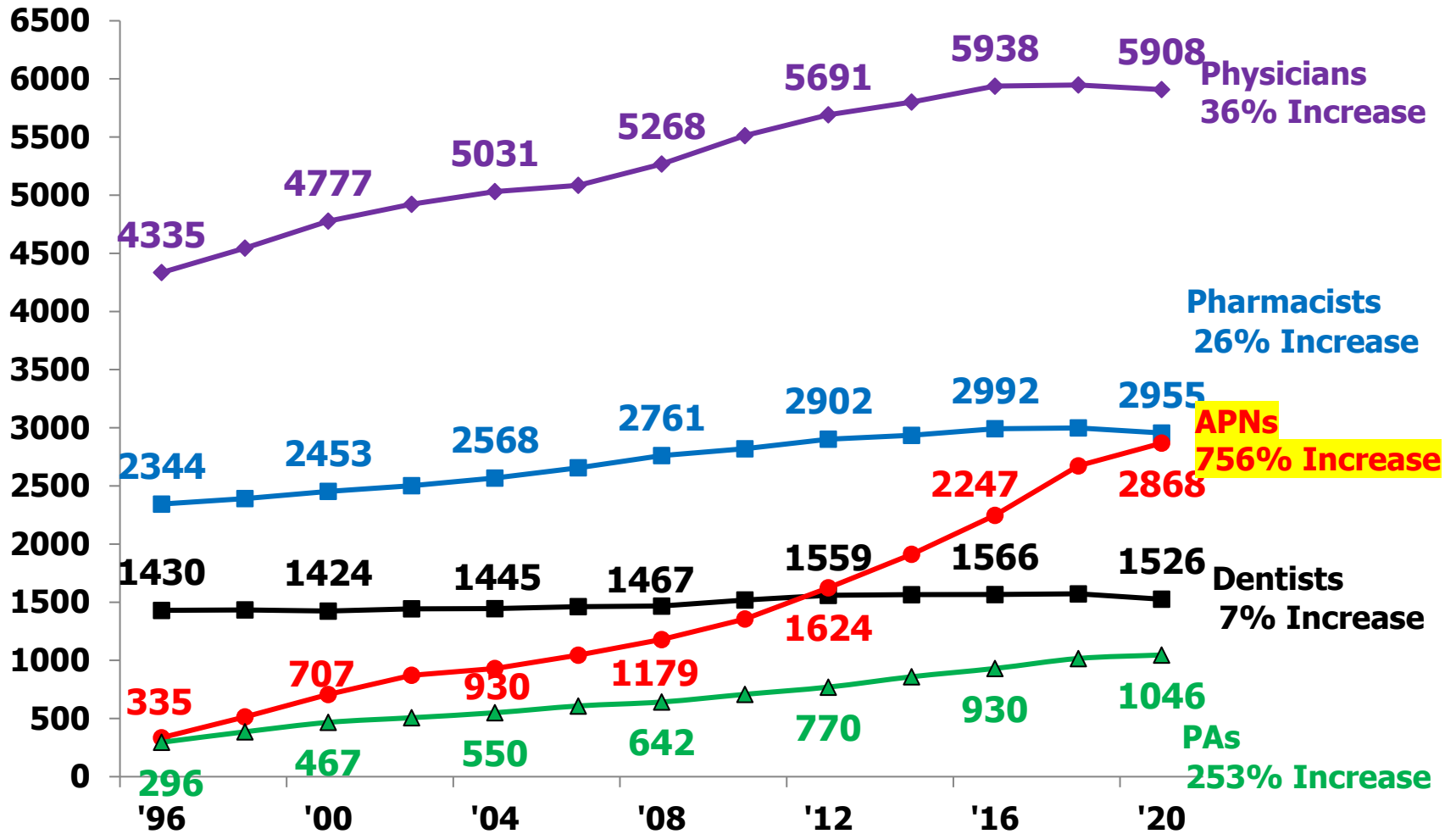
Pharmacists **2,955**

Nurse Practitioners **2,868**

Dentists **1,526**

Physician Assistants **1,046**

IOWA HEALTH PROFESSIONS INVENTORY 1996-2020



IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2020

Net Gain/Loss Summary

	<u>Entering</u>	<u>%</u>	<u>Leaving</u>	<u>%</u>	<u>Net</u>	<u>%</u>	<u>Total</u>
Physicians	261	4.4%	296	5.0%	-35	-0.6%	5,908
Pharmacists	41	1.4%	60	2.0%	-19	-0.6%	2,955
Nurse Practitioners	202	7.0%	153	5.3%	49	1.7%	2,868
Dentists	16	1.0%	51	3.3%	-35	-2.3%	1,526
Physician Assistants	58	5.5%	50	4.8%	8	0.8%	1,046

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2020

Gender

	<u>Male</u>	<u>%</u>	<u>Female</u>	<u>%</u>	<u>Total</u>
Physicians	3,929	67%	1,979	33%	5,908
Physician Assistants	290	28%	756	72%	1,046
Dentists	1,012	66%	514	34%	1,526
Pharmacists	1,026	35%	1,929	65%	2,955
APNs	338	12%	2,530	88%	2,868

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce – 2020

Age

	<u>Physicians</u>	<u>Physician Assistants</u>	<u>Dentists</u>	<u>Pharmacists</u>	<u>APNs</u>
<40	1415 24%	528 50%	518 34%	1155 39%	1168 41%
40-49	1621 28%	249 24%	356 23%	797 27%	883 31%
50-59	1477 25%	176 17%	280 18%	566 19%	490 17%
≥ 60	1395 23%	93 9%	372 25%	437 15%	327 11%
Total	5908	1046	1526	2955	2868

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2020

Retirement Summary

	<u>Retired</u>	<u>Percent of All Attrition</u>	<u>Average Age Retirement</u>	<u>All Attrition</u>	<u>Average Age All Attrition</u>
Physicians	103	35%	66	296	54
Pharmacists	15	25%	68	60	52
Dentists	40	78%	66	51	63
Nurse Practitioners	37	24%	65	153	52
Physician Assistants	11	22%	64	50	46

IOWA HEALTH PROFESSIONS SUPPLY*

Rural vs. Urban

2020

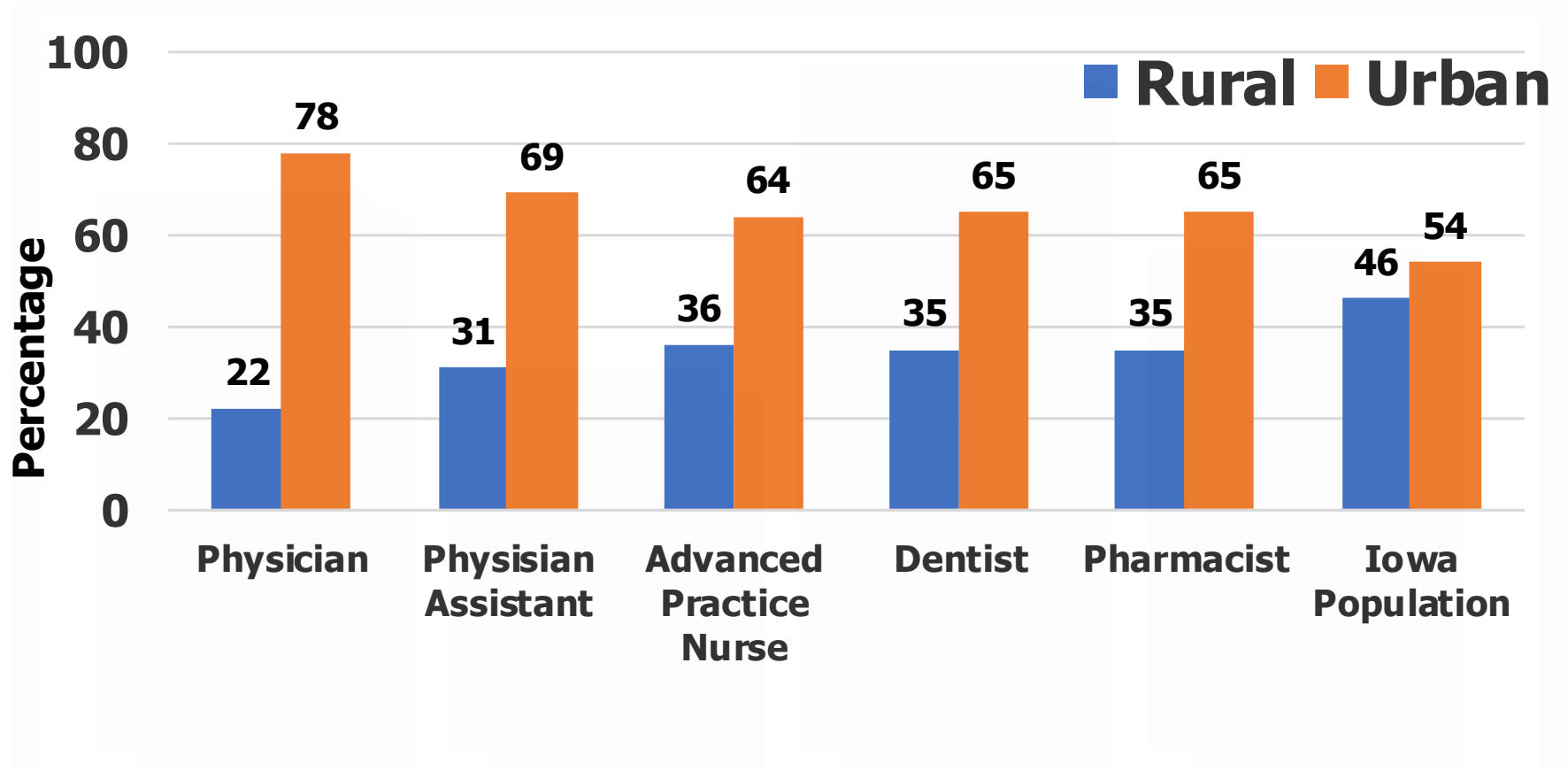
<u>Profession</u>	<u>Rural</u>	<u>%</u>	<u>Urban</u>	<u>%</u>	<u>Total</u>
• Physician	1321	22	4587	78	5908
• Physician Assistant	325	31	721	69	1046
• Advanced Nurse	1040	36	1828	64	2868
• Dentist	529	35	997	65	1526
• Pharmacists	1028	35	1927	65	2955
• IOWA	1,459,510	46	1,730,859	54	3,190,369

* For year ending 12-31-2020, using 2020 census population estimates

IOWA HEALTH PROFESSIONS SUPPLY*

Rural vs. Urban

2020



* For year ending 12-31-2020, using 2020 census population estimates