

IOWA ADVANCED PRACTICE NURSE TRACKING SYSTEM

**Advisory Committee Meeting
April 17, 2023**

Meeting Agenda & Participant List

Iowa Advanced Registered Nurse Practitioner Tracking System
Advisory Committee Meeting
Monday, April 17, 2022
1:30P.M.-3:30P.M.

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
- 2021 Annual Report
 - Annual Benchmarks
 - Geographic Distribution
 - Trends
 - Workforce Summary
- Open Discussion Items

Iowa Advanced Registered Nurse Practitioner Tracking System
Advisory Committee Meeting
Monday, April 17, 2022
1:30P.M.-3:30P.M.

Advisory Committee

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

Kendra Lindloff, MSN, RN, CNE
Associate Director of CE/Workforce
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 Registered Nurse Practitioner Tracking System Advisory Committee Meeting

Iowa Health Professions Tracking Center

Greg Nelson, Assistant Dean
Director for Statewide Clinical Education Programs
Director for Continuing Medical Education

Theresa Dunkin
Program Manager/Assistant Director

Nibras Elnour
Data Analyst/Assistant Manager

Austin Snyder
Data Analyst/Assistant Manager

Linda Thiesen
Data Analyst/Assistant Manager

Annual Benchmarks

IOWA ARNPs Annual Workforce Report*

<u>Date</u>	<u>ARNPs</u>
• December 2021	3084
• January 2021	<u>2961</u>
Gain	+123

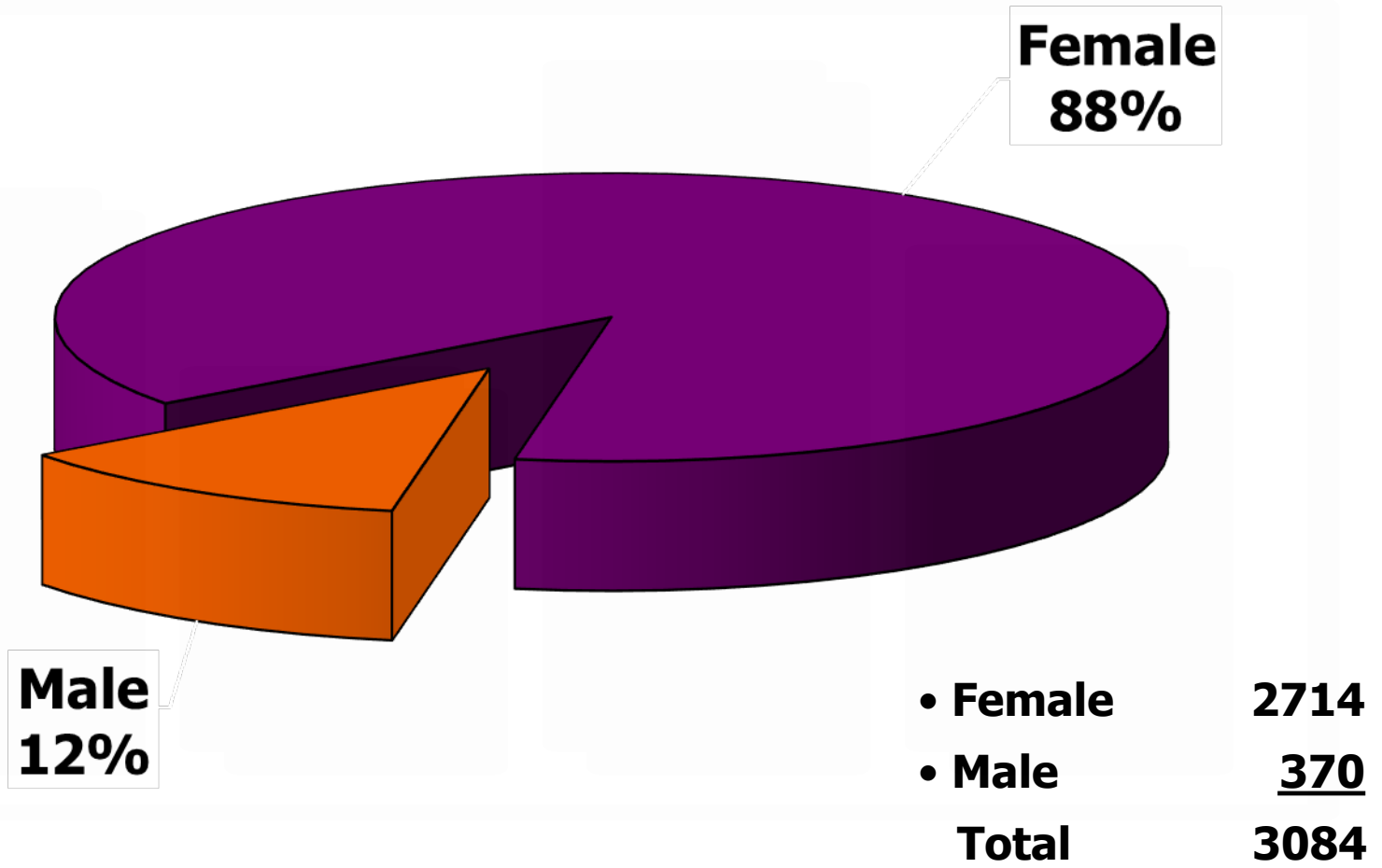
* For year ending 12-31-2021

IOWA ARNPs

Entering vs. Terminating Practice

	<u>2021</u>	<u>Prior Year</u>	<u>Prior Ten-Year Average</u>
ARNPs Entering	266	335	299
ARNPs Terminating	<u>-143</u>	<u>-224</u>	<u>- 138</u>
Net Gain/Loss	+123	+111	+161

IOWA ARNPs Gender Distribution 2021

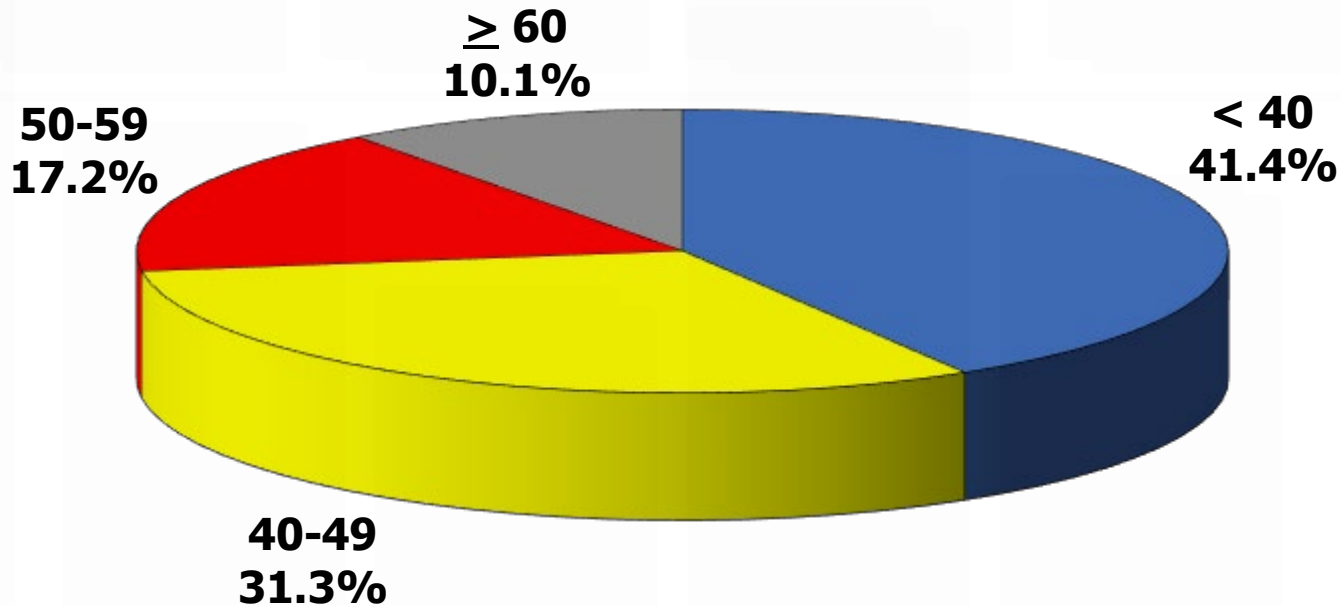


IOWA ARNPs

Age Distribution

2021

<u>Age Category</u>	<u>No.</u>	<u>%</u>	<u>Cumulative %</u>
< 40	1276	41.4%	41.4%
40-49	966	31.3%	72.7%
50-59	529	17.2%	89.9%
≥ 60	313	10.1%	100.0%
	3084	100%	



IOWA ARNPs

Full Time vs. Part Time*

2021

	<u>Number</u>	<u>Percent</u>
Full Time	2972	96%
Part Time	<u>112</u>	<u>4%</u>
Total	3084	100%

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

IOWA ARNPs Age Distribution Full Time vs. Part Time 2021

<u>Age</u>	<u>FT</u>	<u>%</u>	<u>PT</u>	<u>%</u>	<u>Cumulative %</u>
< 40	1258	40.8	18	0.5	41.3
40-49	930	30.2	36	1.2	72.7
50-59	501	16.2	28	1.0	89.9
≥ 60	<u>283</u>	<u>9.2</u>	<u>30</u>	<u>0.9</u>	100%
	2972	96.4	112	3.6	

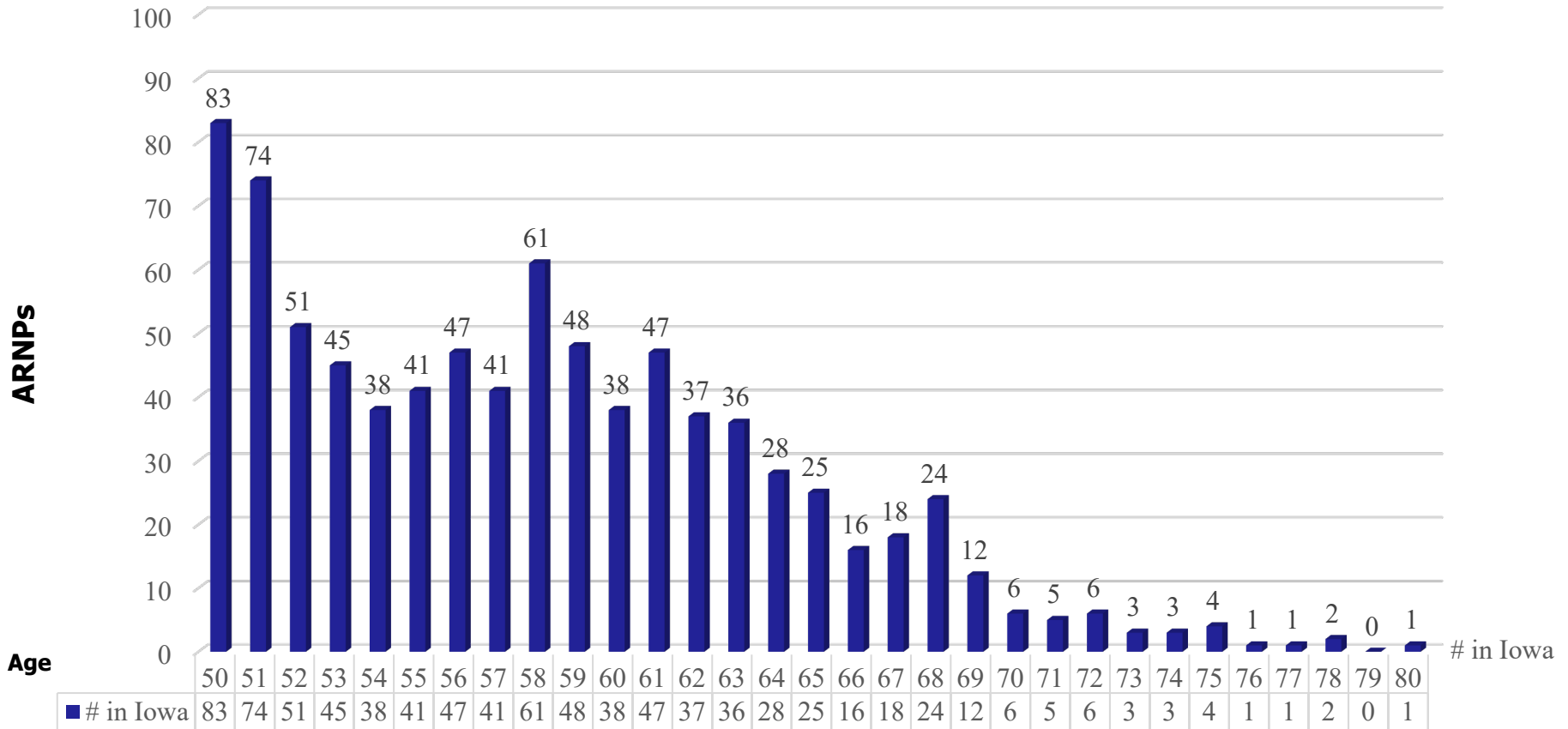
FT = ≥ 32

PT = < 32

IOWA ARNPs

Detail of Age \geq 50

2021



Total number of ARNPs age 50 and over = 842 (27%)

IOWA ARNPs

Principal Professional Activity

2021

	<u>Number</u>	<u>Percent</u>
• Private Practice	1992	64.6%
• State Facility	322	10.4%
• Hospital Medicine	195	6.3%
• Public/Community Health	192	6.2%
• Urgent Care	188	6.1%
• Federal	89	2.9%
• Teaching/Research	40	1.3%
• Wound Care	30	1.0%
• Student Health	19	0.6%
• Administration	12	0.4%
• Industrial/Occupational Med	<u>5</u>	<u>0.2%</u>
Total	3084	100%

IOWA ARNPs Certifications 2021

	<u>Number</u>	<u>Percent</u>
• Family NP (FNP)	1719	55.7%
• RN Anesthetist (CRNA)	363	11.8%
• Psychiatric NP (PSNP,CAP,CCAP)	254	8.2%
• Adult NP (ANP)	223	7.2%
• Pediatric NP (PNP)	173	5.6%
• Ob/Gyn (ONP)/Women's Health (WHNP)	87	2.8%
• Acute Care NP (ACNP)	79	2.6%
• Nurse Midwife (NMW)	79	2.6%
• Neonatal NP (NNP)	56	1.8%
• Gerontological NP (GNP)/CGE	40	1.2%
• Other*	<u>11</u>	<u>0.5%</u>
Total	3084	100%

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

DISTRIBUTION OF ARNPs By City Population Ranges 2021

<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%	174	442	14.1%	14.1%
5,000-9,999	42	12%	38	361	11.8%	25.9%
10,000-24,999	17	10%	23	362	8.6%	34.5%
25,000-49,999	11	14%	7	234	11.5%	46.0%
50,000-99,999	8	23%	8	1048	37.1%	83.1%
100,000 ≥	<u>2</u>	<u>14%</u>	<u>2</u>	<u>637</u>	<u>16.9%</u>	100.0%
Totals	947	100%	252	3084	100.0%	

65.5% of Iowa's ARNPs are in the 21 cities with > 25,000 residents

*Population Source: US Census City Population Estimates 2020

**CDP: Census Designated Place

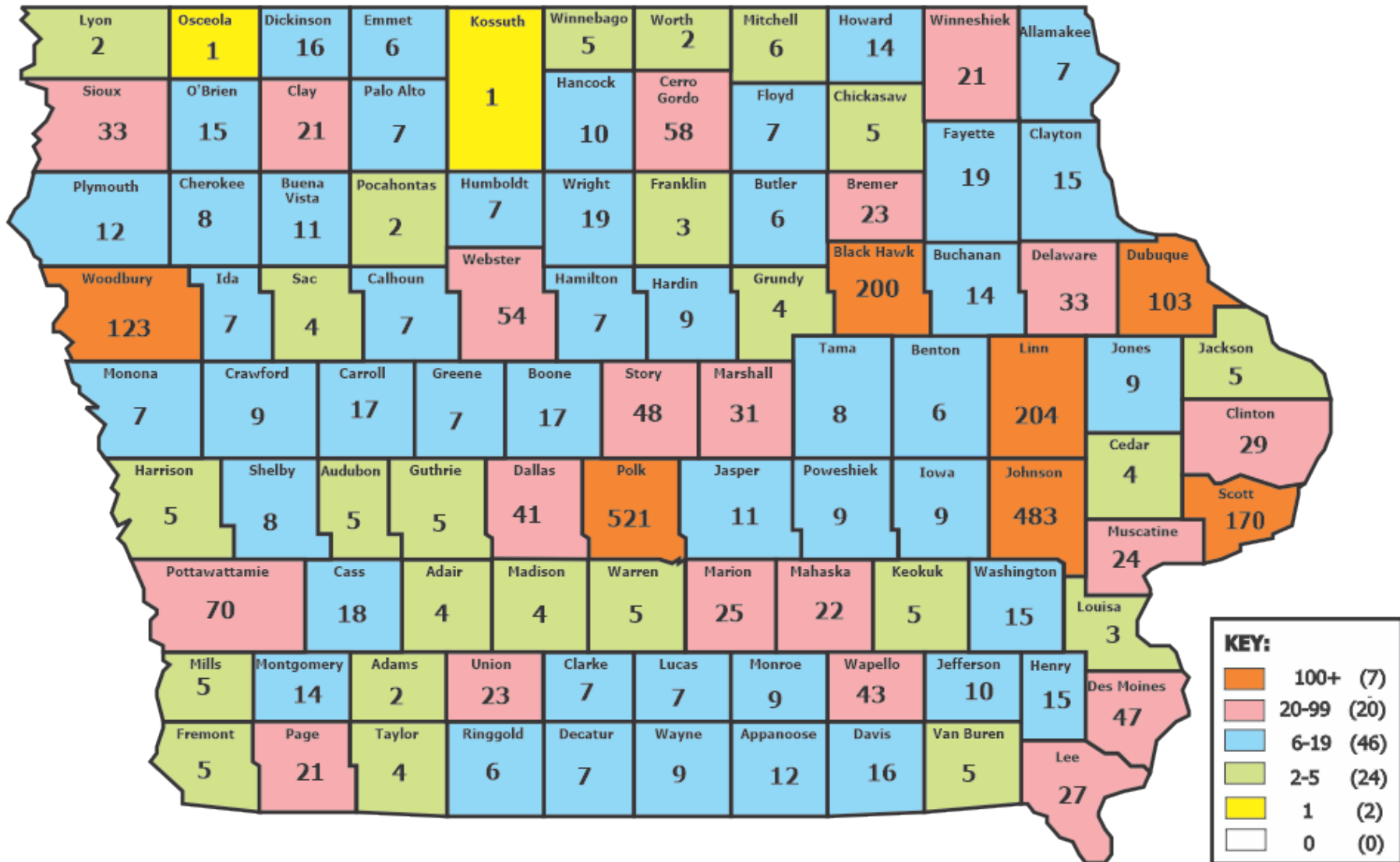
IOWA ARNPs

Communities Gaining/Losing APNs 2021

<u>Community Size</u>	<u>#Entering</u>	<u>#Leaving</u>	<u>Net</u>
<5,000	42	15	+27
5,000 - 9,999	33	12	+21
10,000 - 24,999	25	24	+01
25,000 - 49,999	15	7	+08
50,000 - 99,999	88	52	+36
≥100,000	<u>63</u>	<u>33</u>	<u>+30</u>
Total	266	143	+123

Geographic Distributions

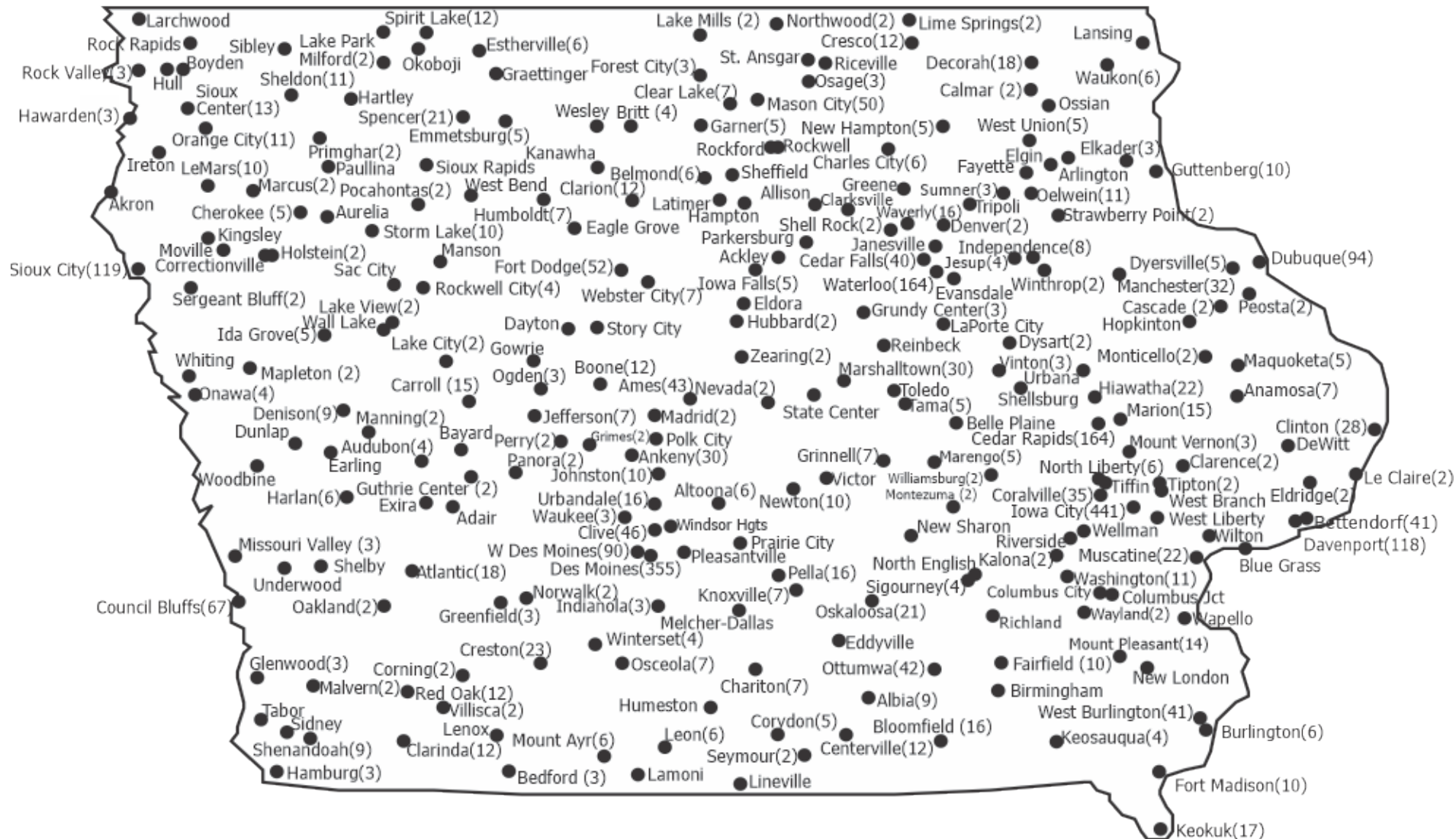
IOWA ADVANCED PRACTICE NURSES (3084) 2021



IOWA ARNPs

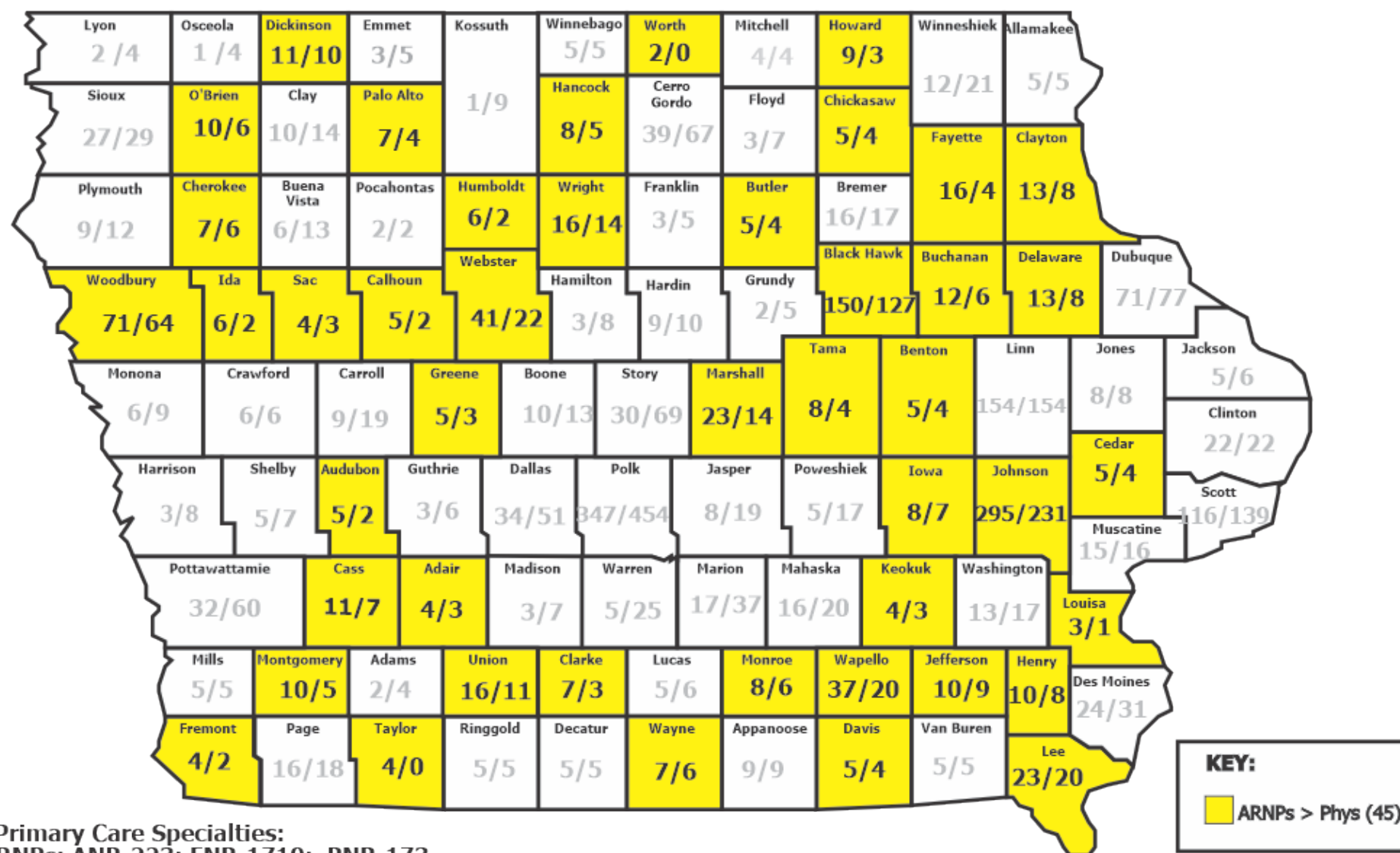
Communities with ARNPs (254)

2021



IOWA ARNPs

Primary Care*: ARNPs (2,115) and Physicians (2,279) 2021



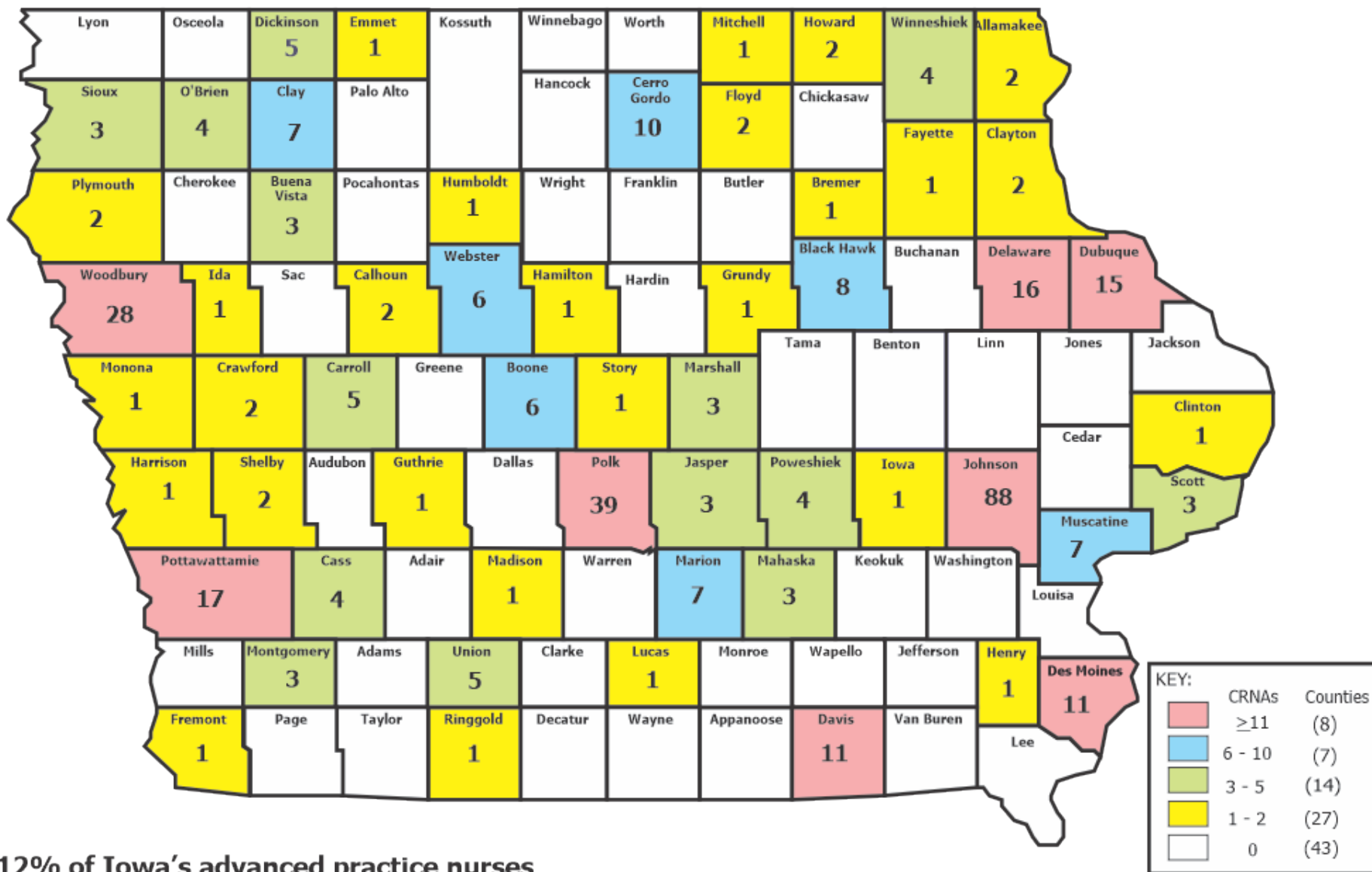
KEY:
 ARNPs > Phys (45)

*Primary Care Specialties:
 ARNPs: ANP-223; FNP-1719; PNP-173
 Physicians: Family Med(incl EM)-1470; Gen Int Med -520; Peds-289

IOWA ARNPs

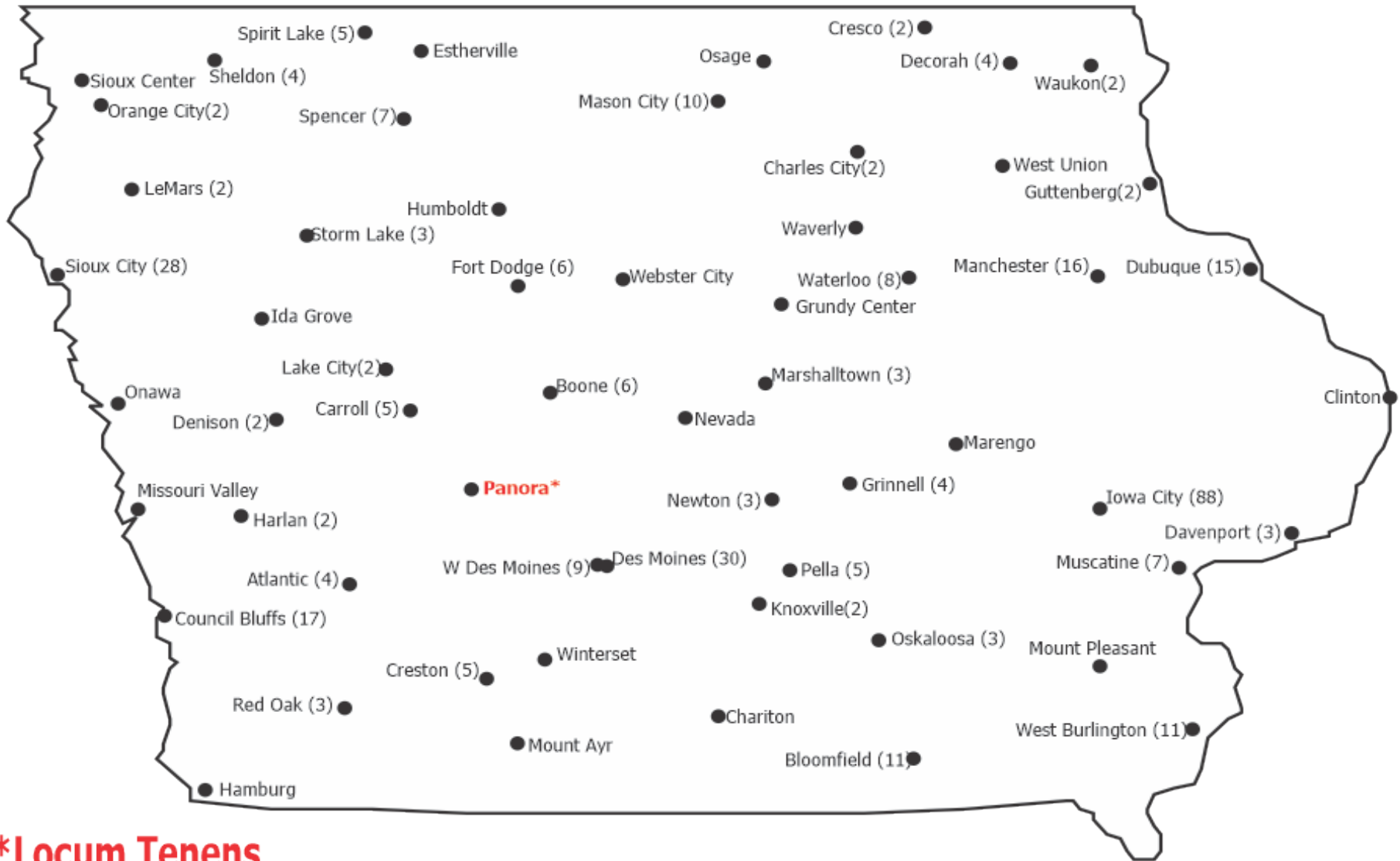
Certified Registered Nurse Anesthetists (363)*

2021



*12% of Iowa's advanced practice nurses

IOWA ARNPs Communities with CRNAs (59) 2021

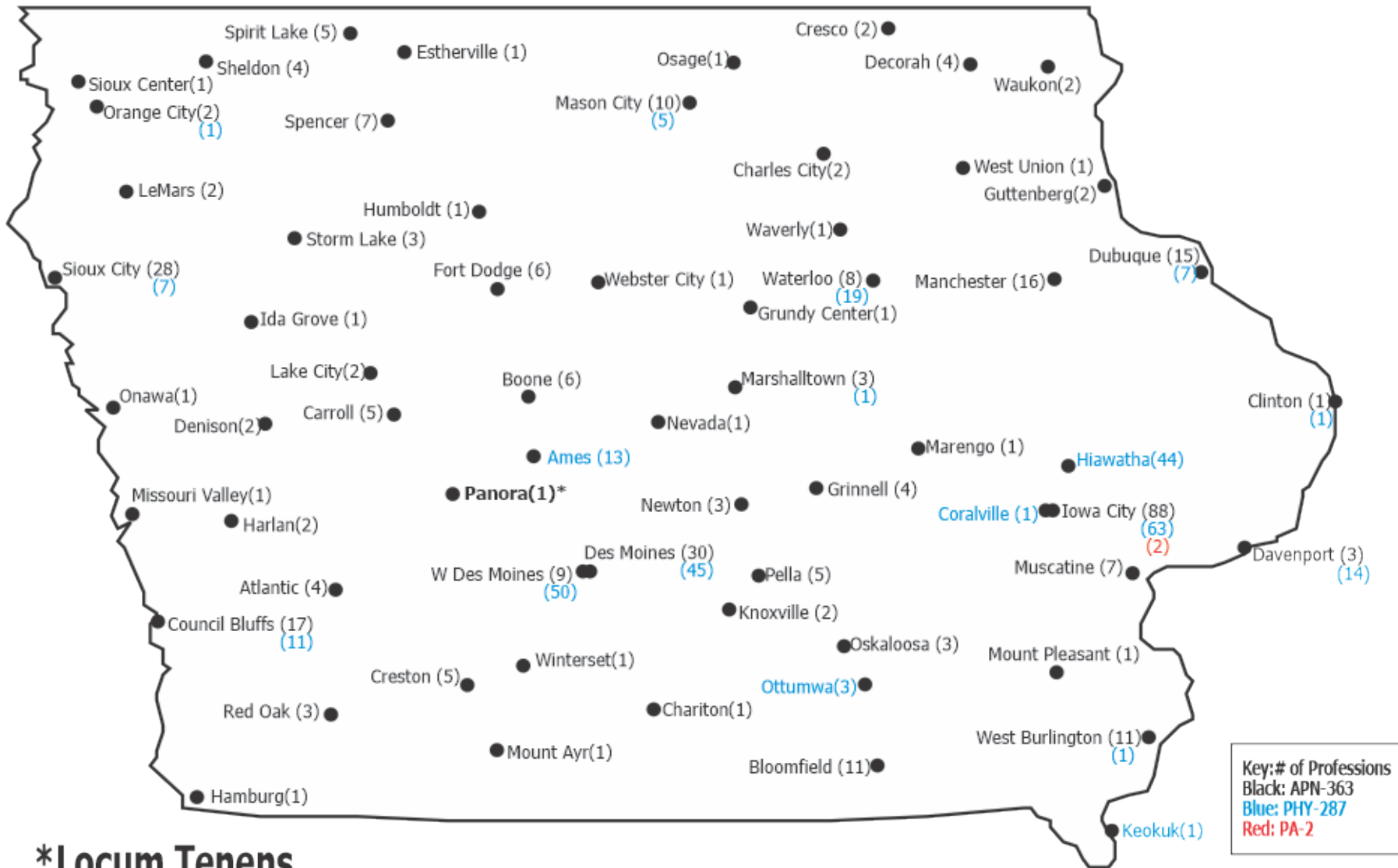


***Locum Tenens**

IOWA ARNPs

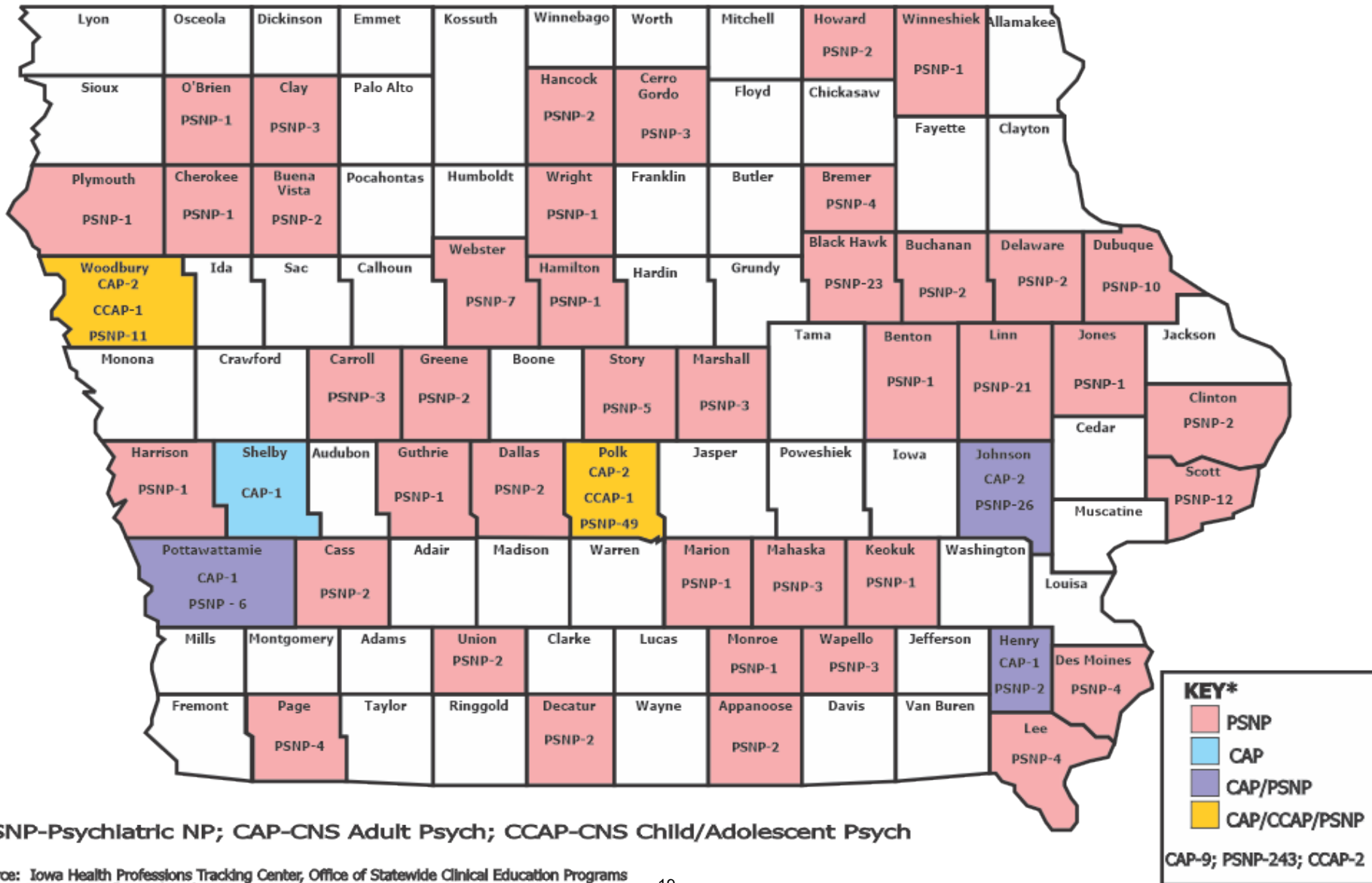
Communities with Anesthesia (64)

2021



Key: # of Professions
 Black: APN-363
 Blue: PHY-287
 Red: PA-2

IOWA ARNPs Psychiatric Nurse Practitioners* (254) 2021



KEY*

- PSNP
- CAP
- CAP/PSNP
- CAP/CCAP/PSNP

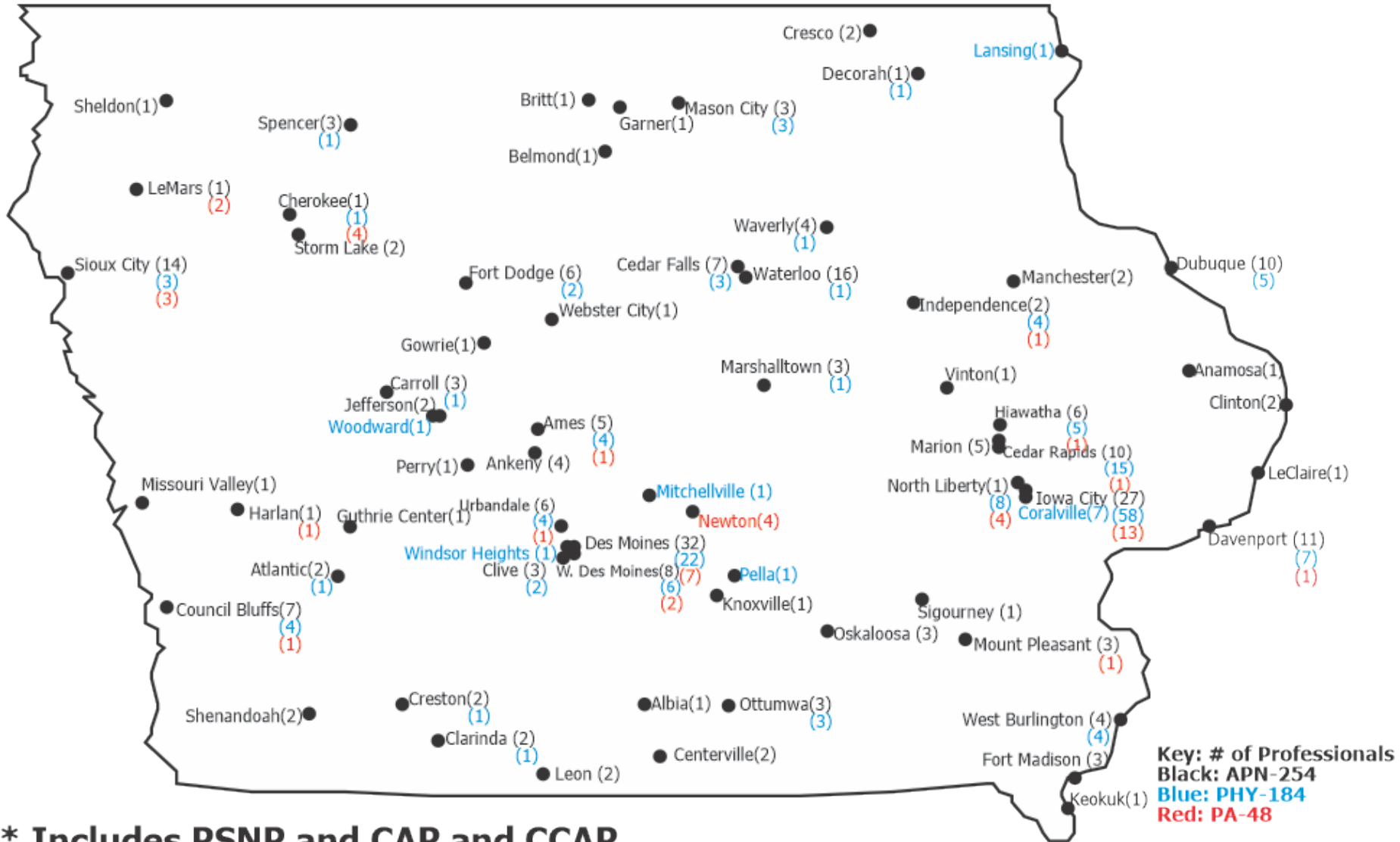
CAP-9; PSNP-243; CCAP-2

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

IOWA ARNPs

Communities with Mental Health (67)

2021

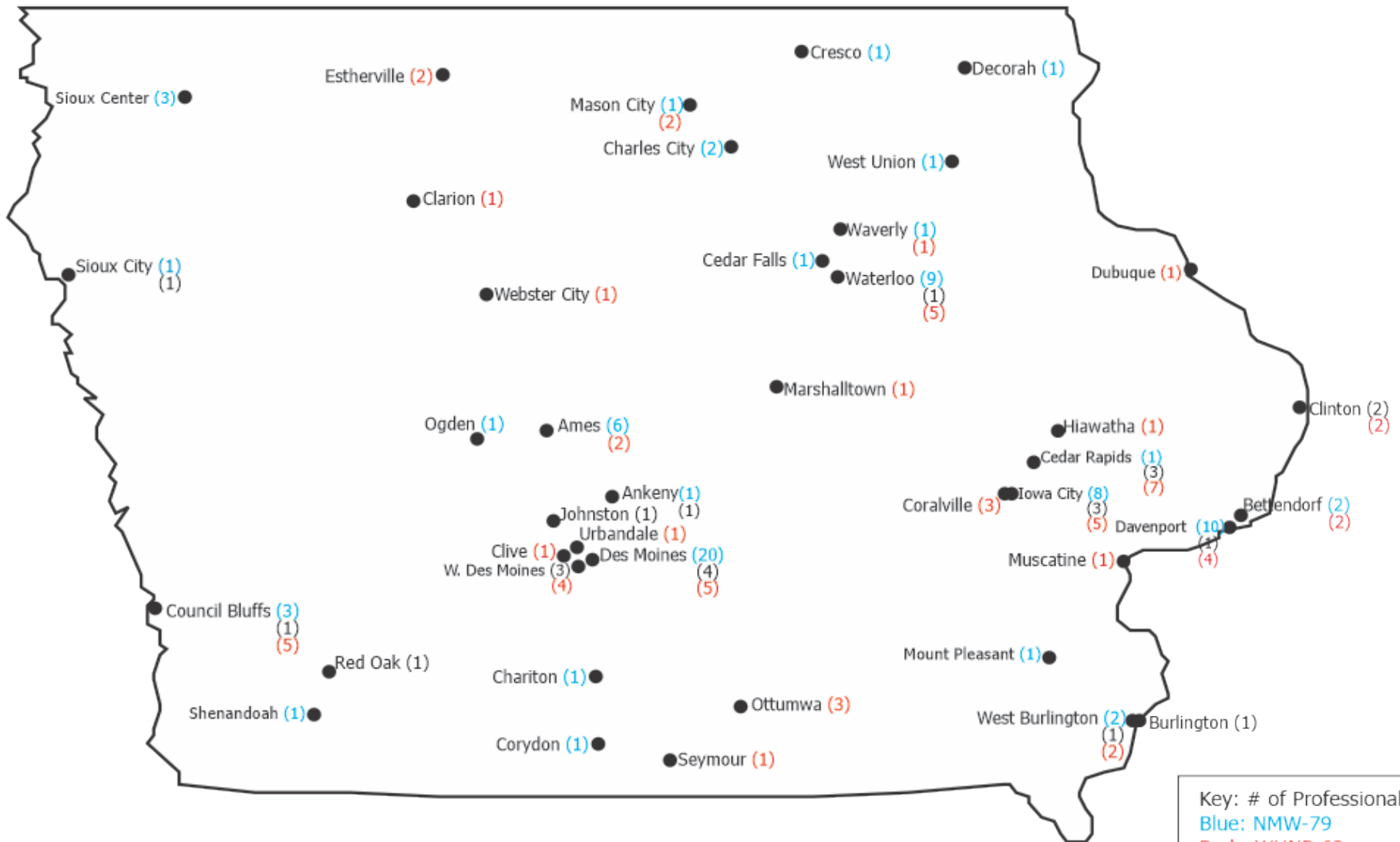


* Includes PSNP and CAP and CCAP

IOWA ARNPs

Communities with Women's Health (41)

2021



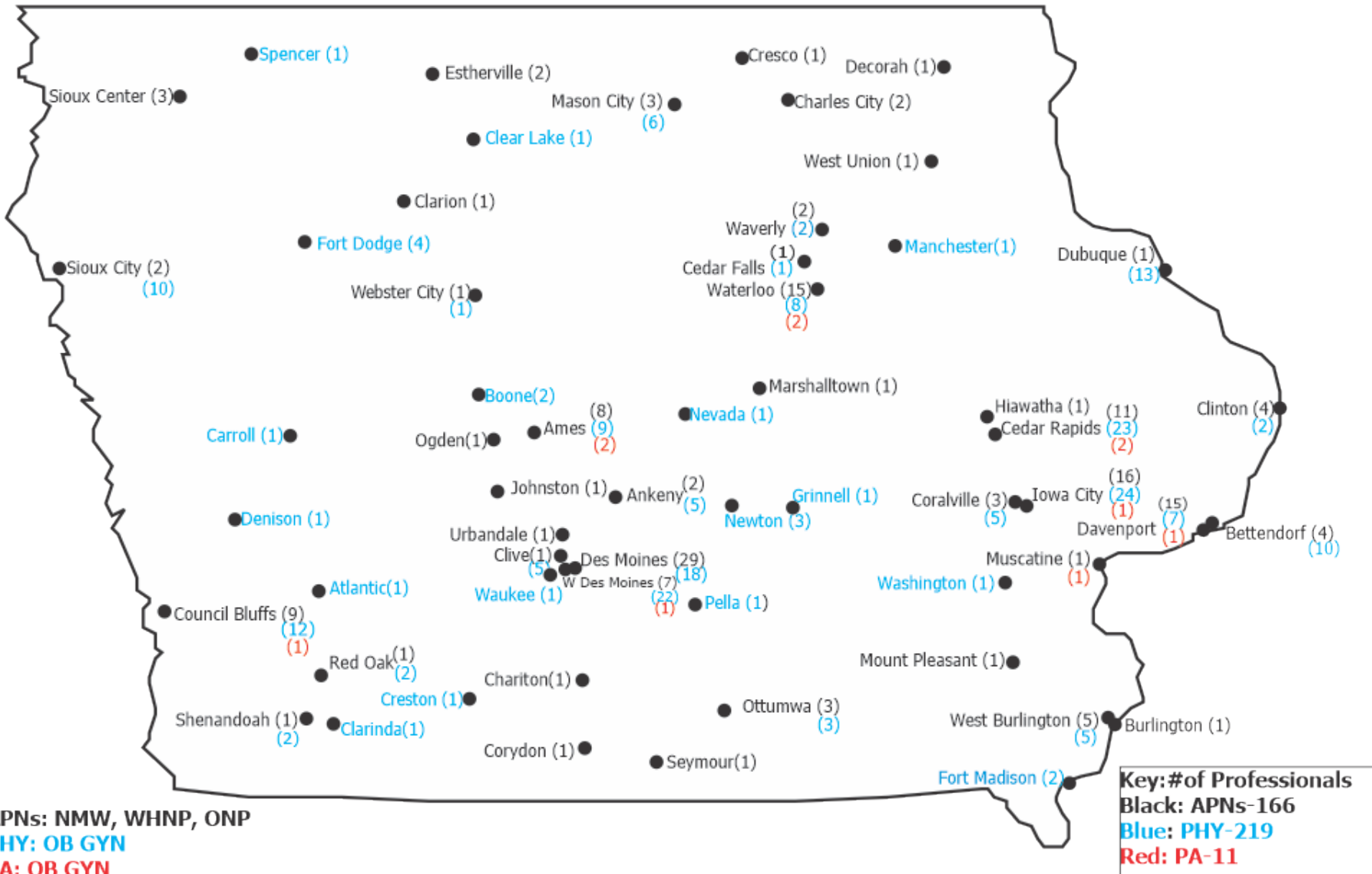
Key: # of Professionals
 Blue: NMW-79
 Red: WHNP-63
 Black: ONP-24

*Includes NMW, WHNP, and ONP

IOWA PROFESSIONIONS

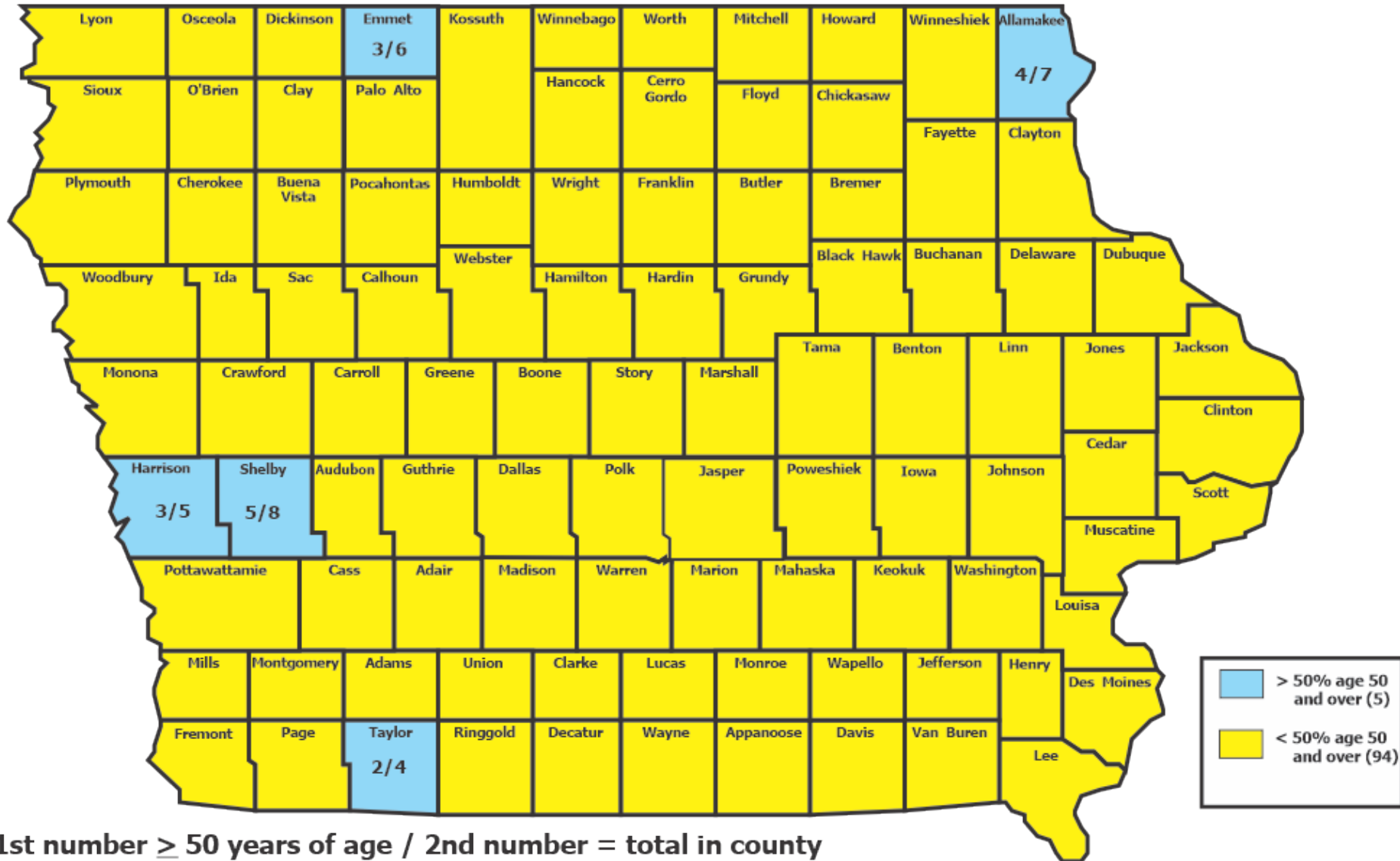
Communities with Women's Health (58)

2021

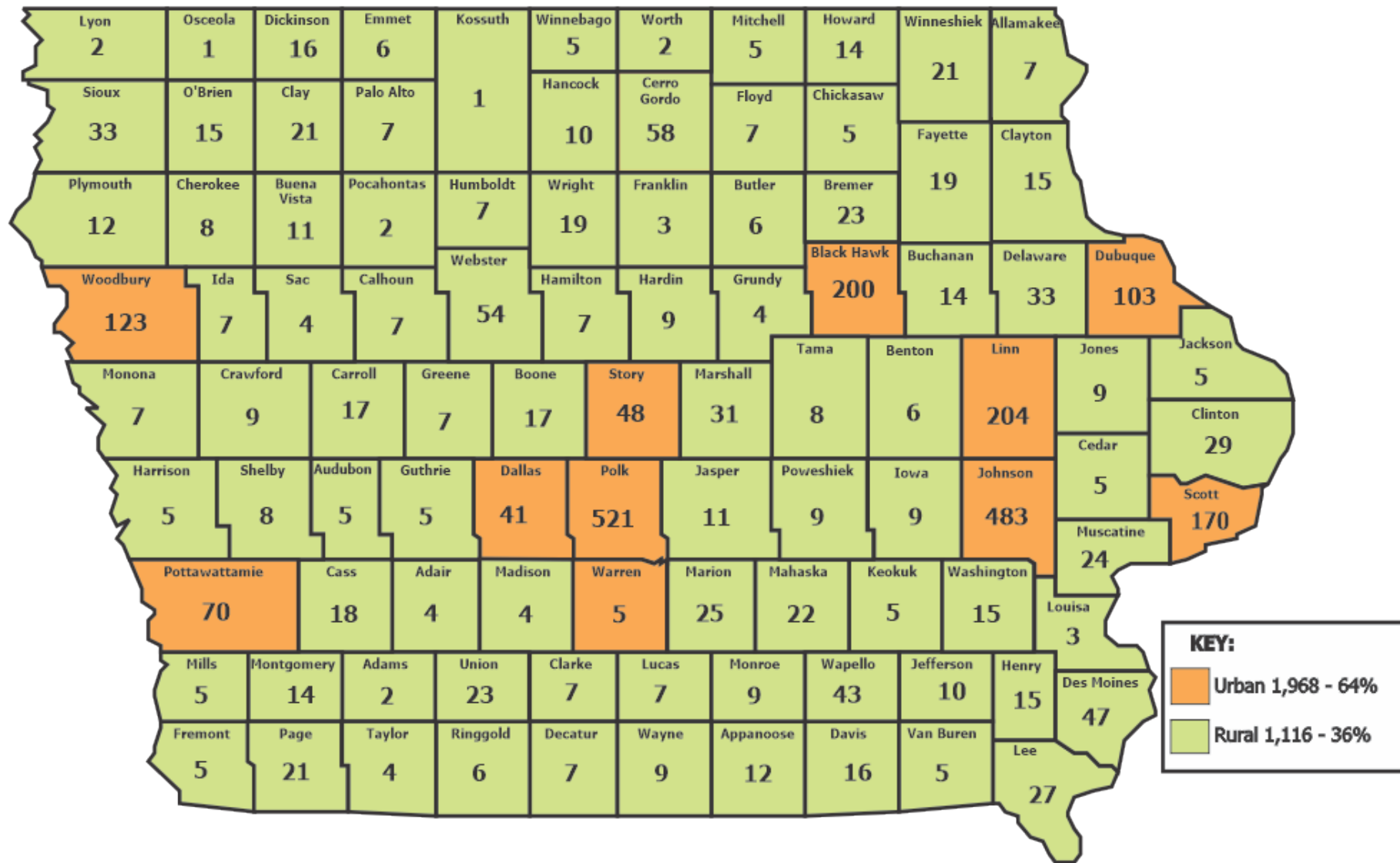


APNs: NMW, WHNP, ONP
 PHY: OB GYN
 PA: OB GYN

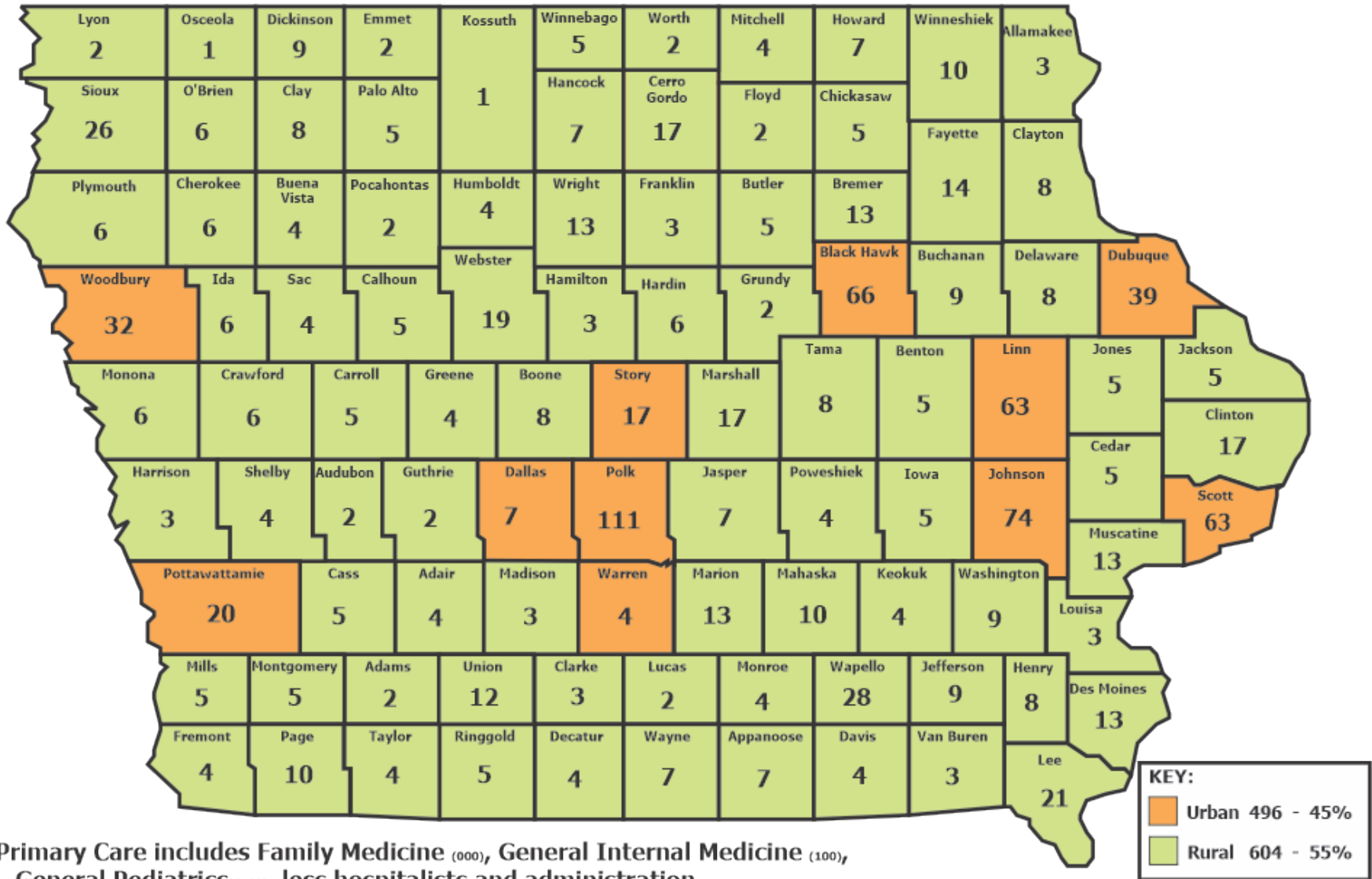
IOWA ARNPs — Age 50 and Over — 2021



DISTRIBUTION OF ALL NURSE PRACTITIONERS (3,084) By Rural vs. Urban 2021



DISTRIBUTION OF PRIMARY CARE NURSE PRACTITIONERS (1,100) By Rural vs. Urban 2021



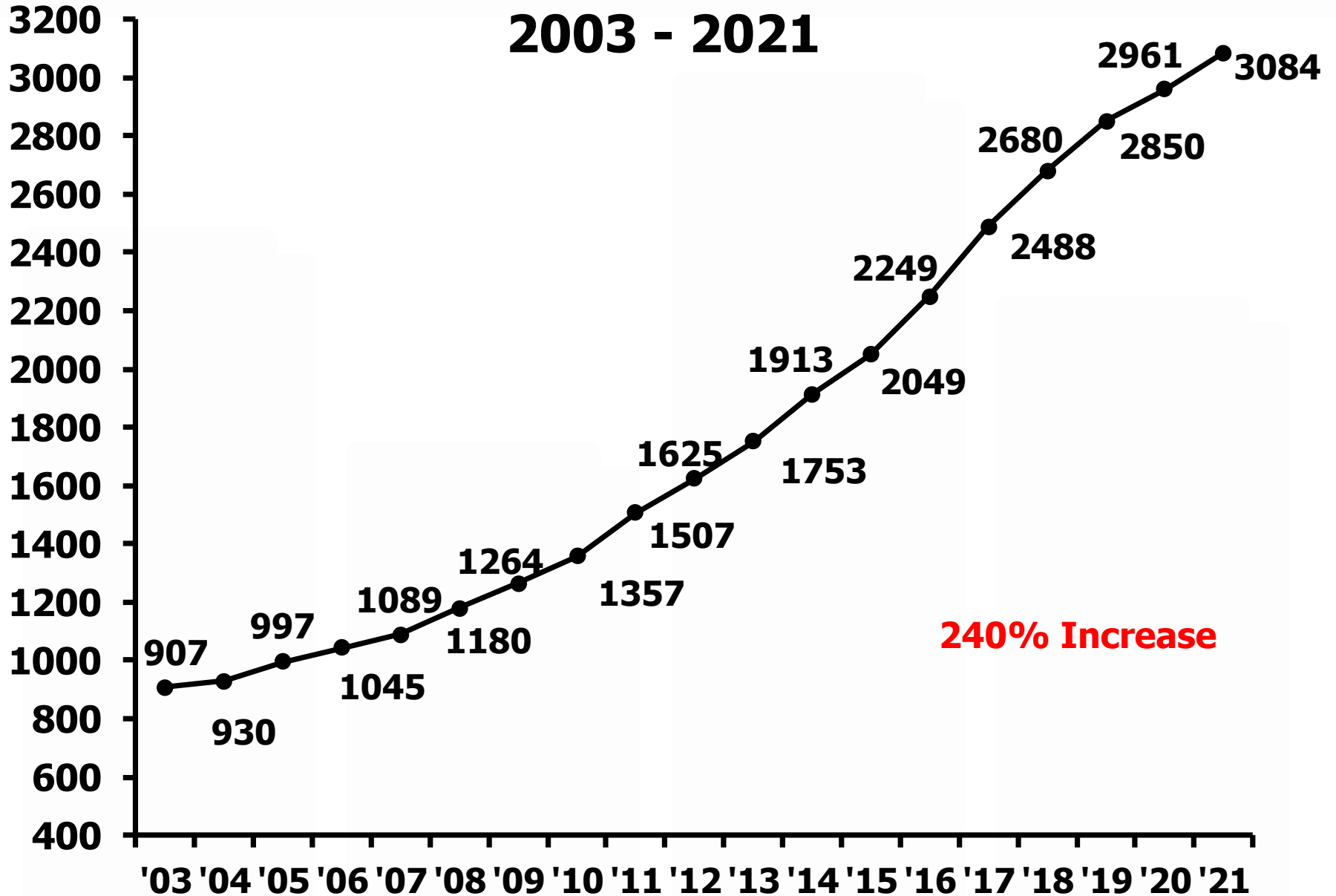
KEY:
 Urban 496 - 45%
 Rural 604 - 55%

Primary Care includes Family Medicine (000), General Internal Medicine (100),
 General Pediatrics (400), less hospitalists and administration

Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
 UI Carver College of Medicine, August 2022

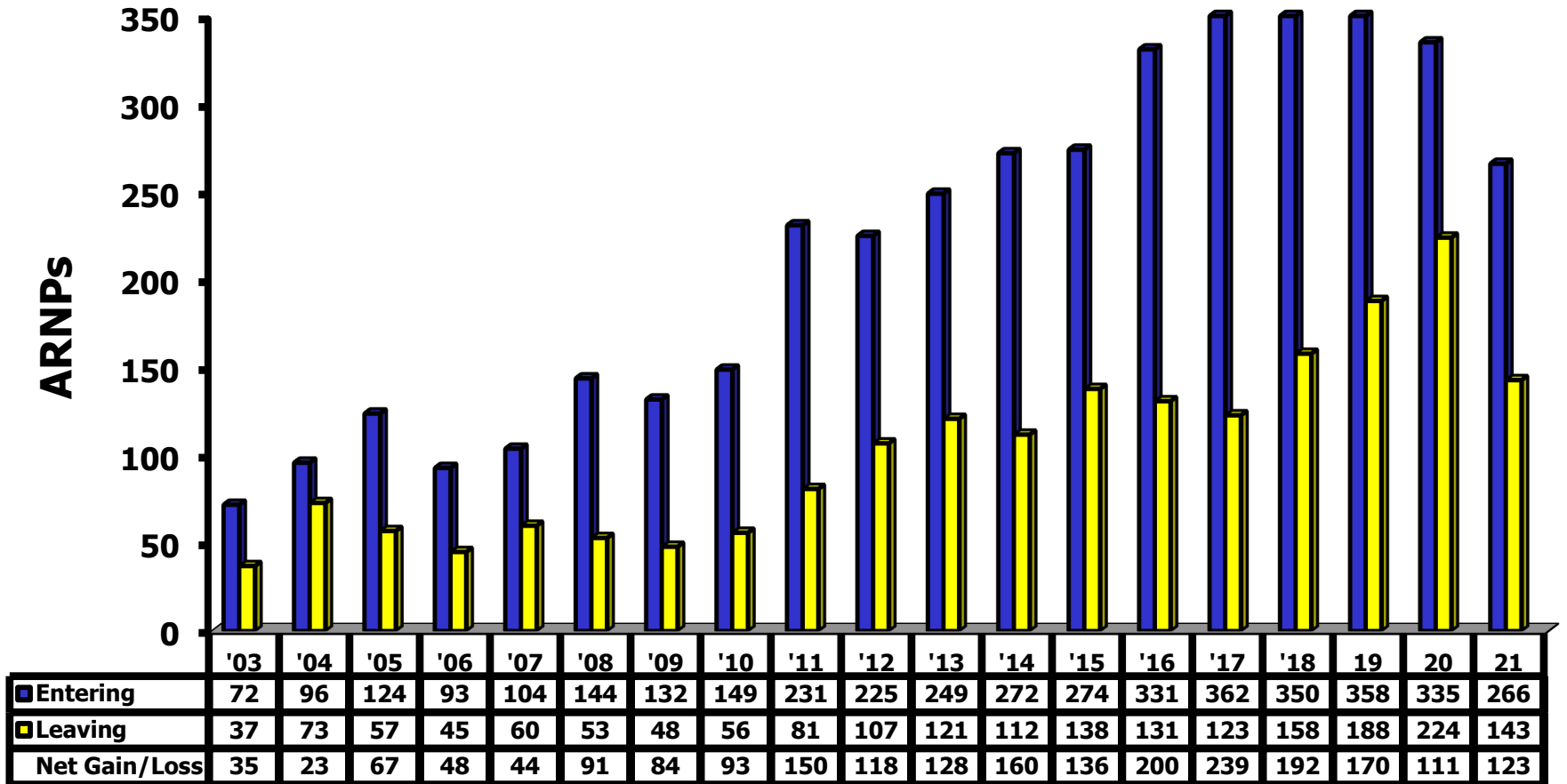
Trends

ACTIVE IOWA ARNPs 2003 - 2021



Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs,
UI Carver College of Medicine, June 2022

IOWA ARNPs Net Gain/Loss 2003 - 2021

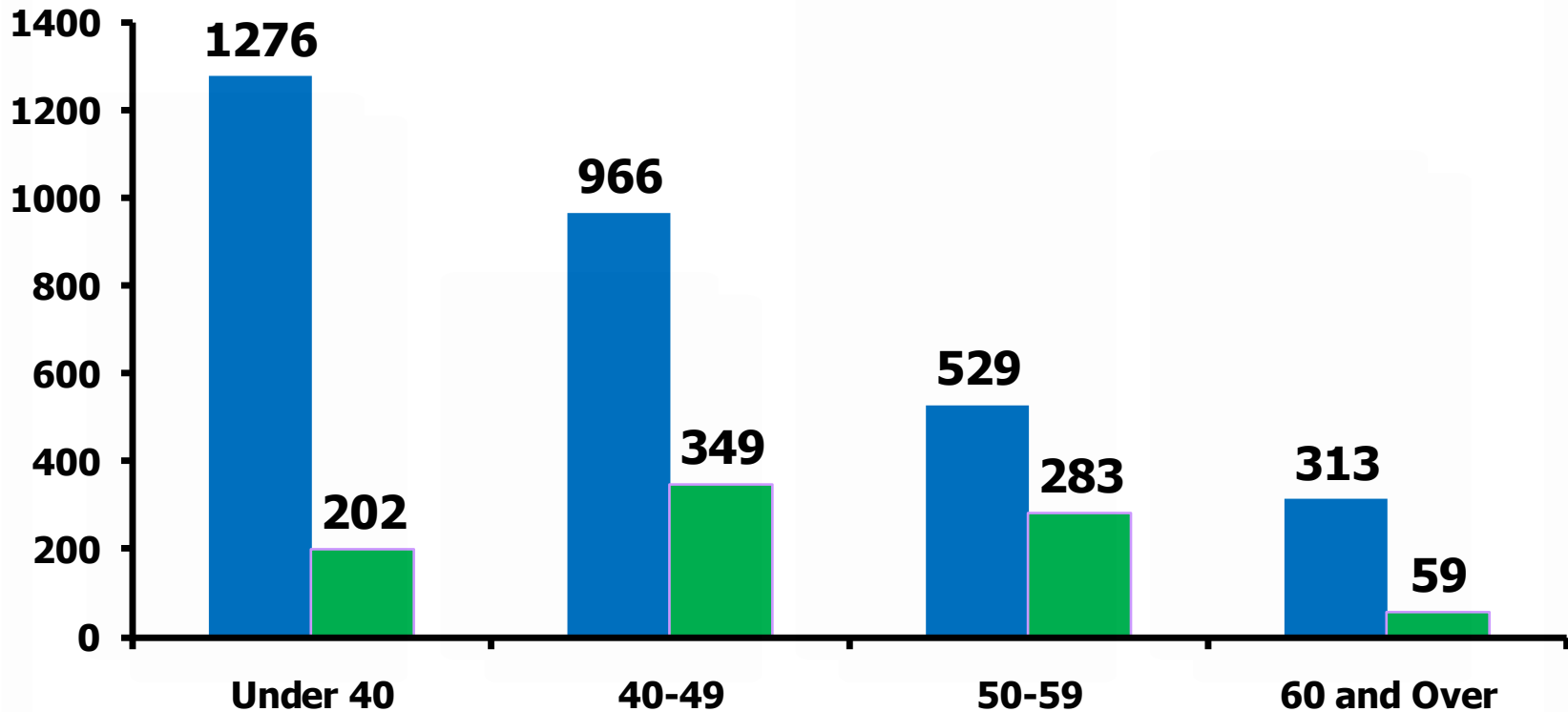


Source: Iowa Health Professions Tracking Center, Office of Statewide Clinical Education Programs
UI Carver College of Medicine, June 2022

IOWA ARNPs

Age Distribution Comparison

2003 vs. 2021

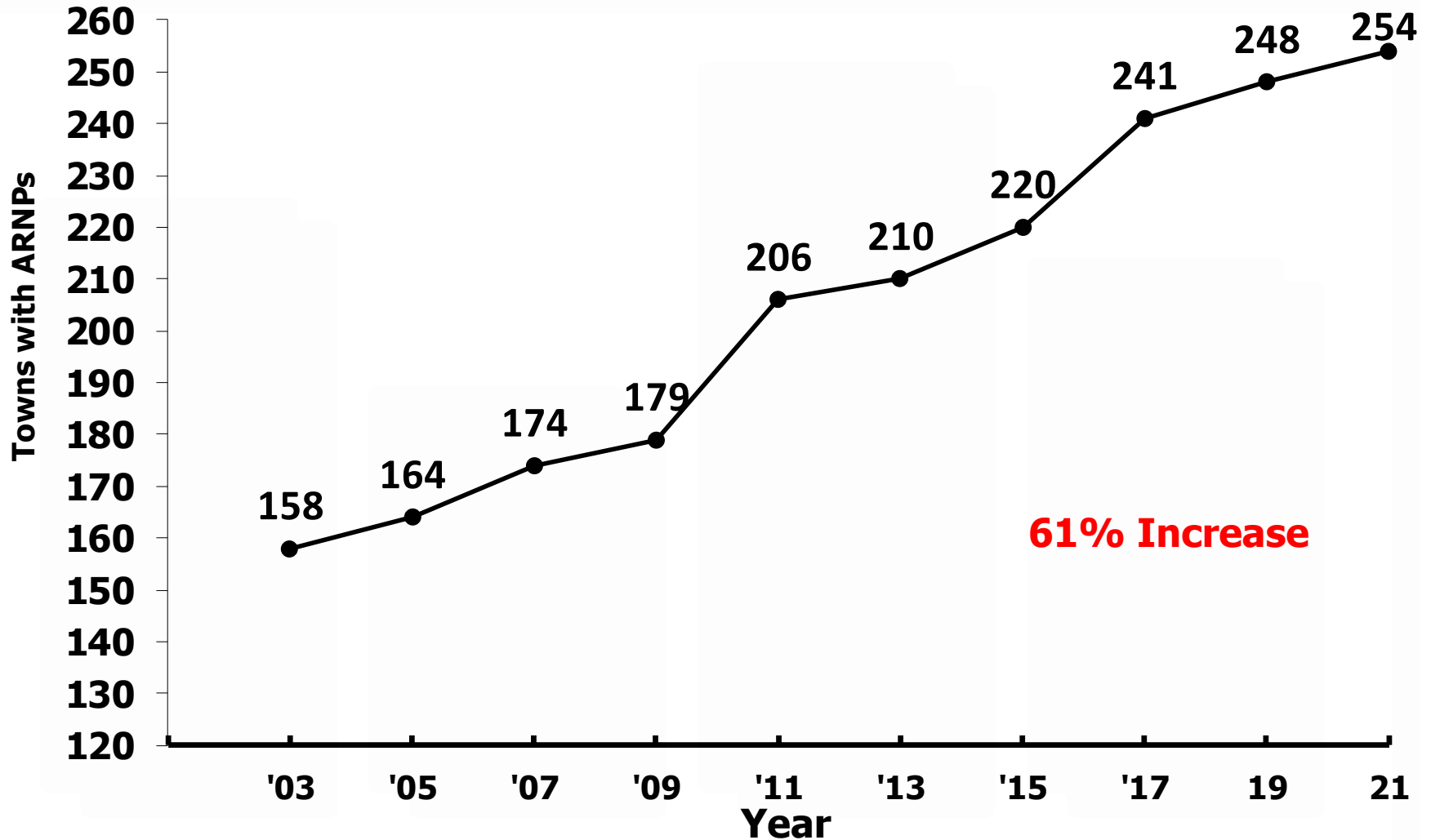


<u>Year</u>	<u>Total ARNPs</u>	<u>Average Age</u>	<u>Median Age</u>
2021	3084	44	42
2003	907	46	47

IOWA ARNPs

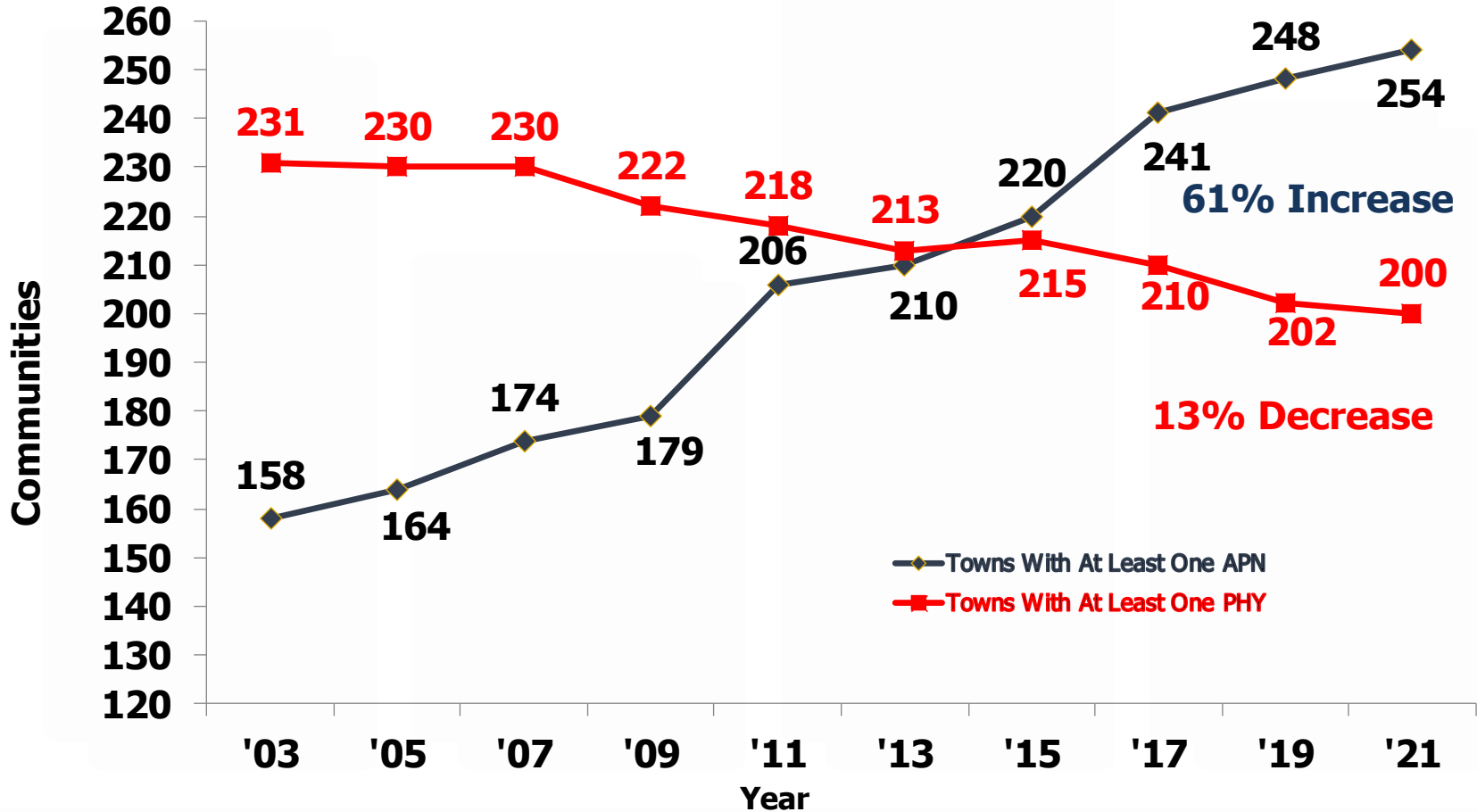
Towns With at Least One ARNP

2003 - 2021



IOWA ARNPs

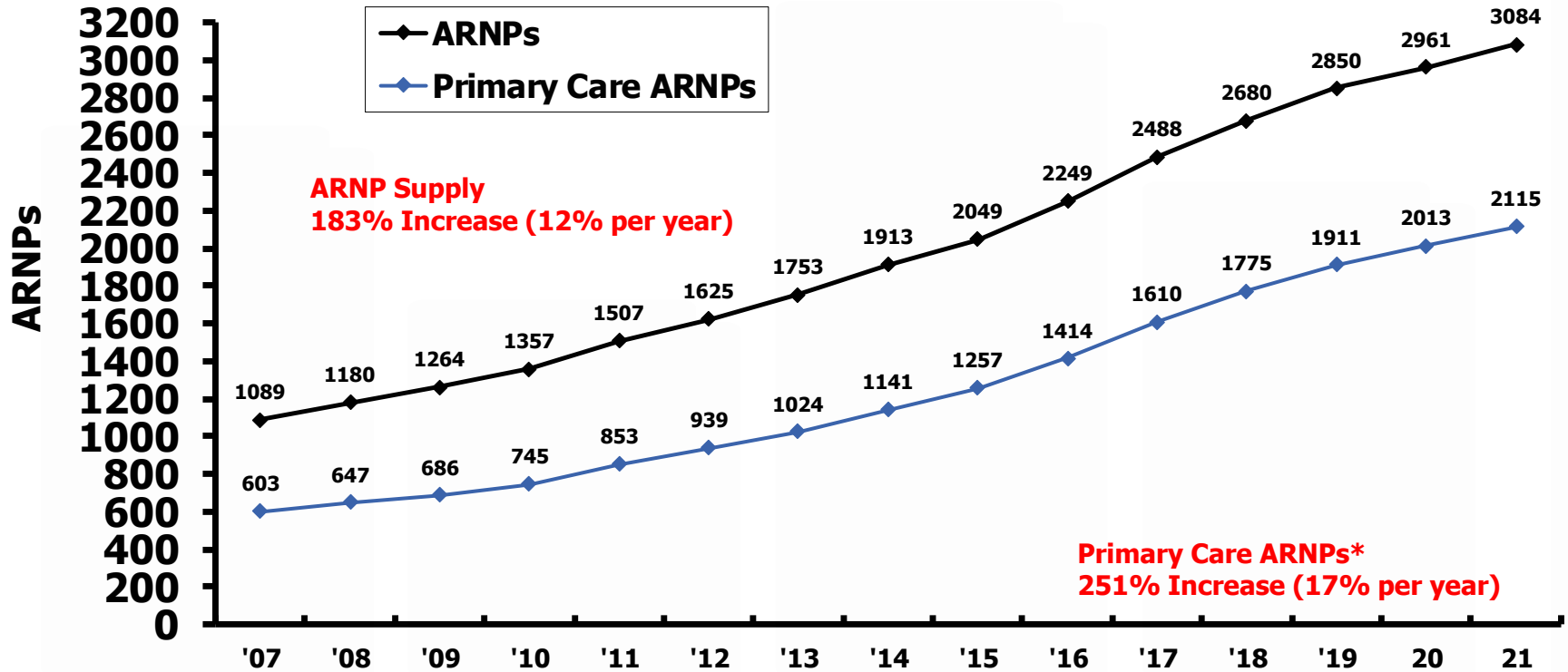
Communities with ARNP or **Physician** 2003-2021



IOWA ADVANCED PRACTICE NURSING SUPPLY

All ARNPs – Primary Care ARNPs*

2007 - 2021

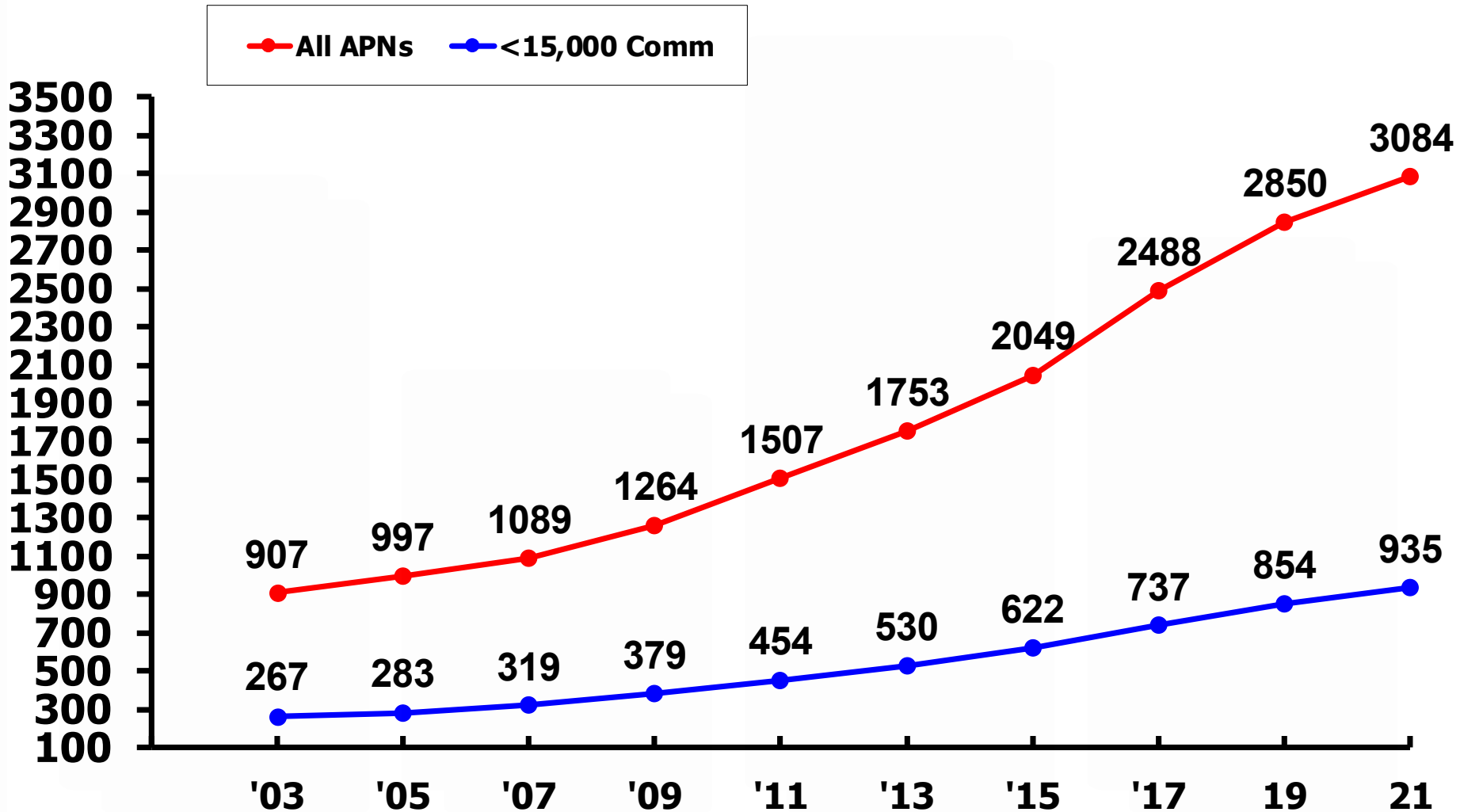


*Primary Care: Adult NP, FNP, & PNP

IOWA ARNPs

Working in Communities of <15,000

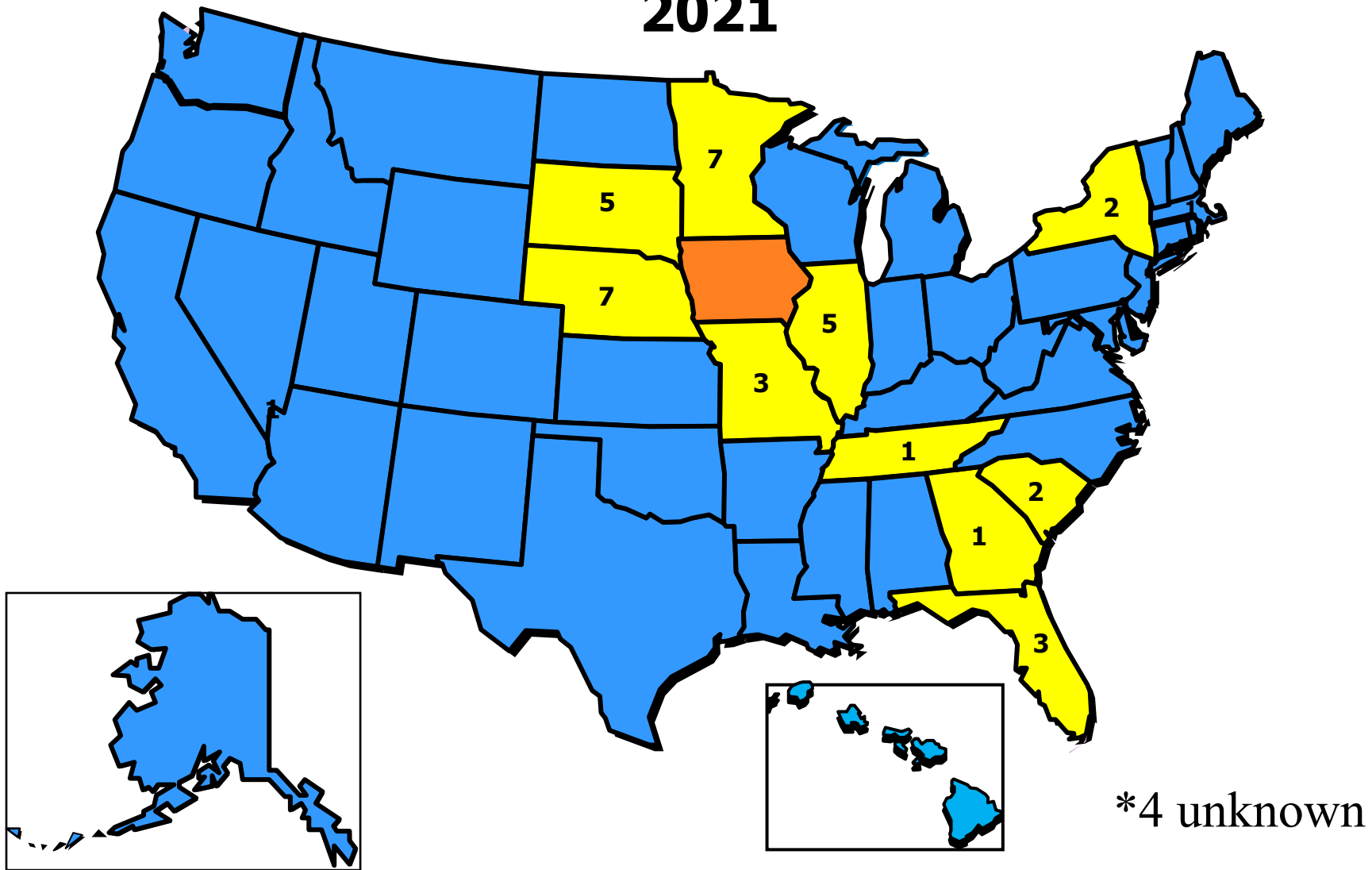
2003 – 2021



IOWA ARNPs Attrition Analysis 2011-2021

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	29	42	3	-	1	10	4	-	-	49	138
2016	30	29	-	1	3	5	6	-	-	57	131
2017	30	26	1	-	2	3	2	-	-	59	123
2018	45	47	-	-	3	6	2	1	1	53	158
2019	43	66	2	-	3	14	3	-	-	57	188
2020	66	48	2	2	-	11	4	-	1	90	224
2021	24	40	1	1	-	5	6	-	-	66	143
Total	346	409	12	9	14	79	36	1	2	618	1526
Annual Average	31.5	37.2	1.7	1.5	2	7.2	3.6	1	1	56.2	138.7

RELOCATION OF IOWA ARNPs (40)* 2021



*4 unknown

Workforce Comparisons

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce – 2021

Physicians **5,910**

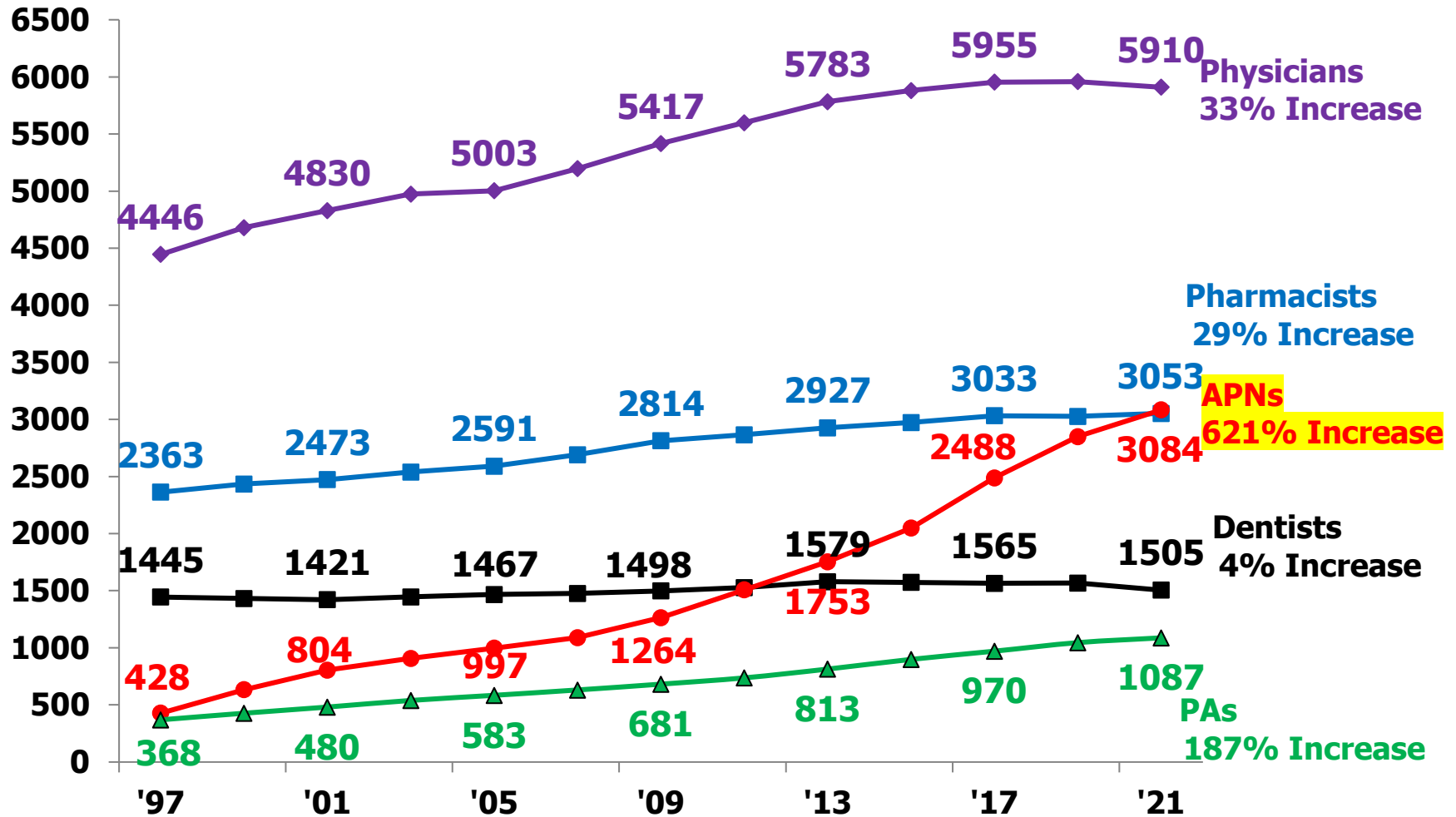
Nurse Practitioners **3,084**

Pharmacists **3,053**

Dentists **1,505**

Physician Assistants **1,087**

IOWA HEALTH PROFESSIONS INVENTORY 1997-2021



IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2021

Net Gain/Loss Summary

	<u>Entering</u>	<u>%</u>	<u>Leaving</u>	<u>%</u>	<u>Net</u>	<u>%</u>	<u>Total</u>
Physicians	338	5.7%	314	5.3%	24	0.4%	5,910
Nurse Practitioners	266	8.6%	143	4.6%	123	4.0%	3,084
Pharmacist	200	6.6%	224	7.6%	-24	-0.8%	3,053
Dentists	73	4.9%	92	6.1%	-19	-1.3%	1,505
Physician Assistants	82	7.5%	64	5.8%	18	1.7%	1,087

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce – 2011 - 2021

Net Gain/Loss Summary

	<u>2011</u>	<u>2021</u>	<u>Net Change</u>	<u>%</u>
Physicians	5599	5910	+311	5.6%
Nurse Practitioners	1507	3084	+1577	104.6%
Physician Assistants	736	1087	+351	47.6%

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce – 2021

Age

	<u>Physicians</u>	<u>Physician Assistants</u>	<u>Dentists</u>	<u>Pharmacists</u>	<u>ARNPs</u>
<40	1436 24%	550 51%	557 37%	1287 42%	1276 41%
40-49	1676 28%	272 25%	358 24%	807 26%	966 31%
50-59	1447 25%	166 15%	256 17%	602 20%	529 17%
≥ 60	1351 23%	99 9%	334 22%	357 12%	313 11%
Total	5910	1087	1505	3053	3084

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2021

Gender

	<u>Male</u>	<u>%</u>	<u>Female</u>	<u>%</u>	<u>Total</u>
Physicians	3,890	66%	2,020	34%	5,910
Physician Assistants	307	28%	780	72%	1,087
Dentists	974	65%	526	35%	1,505
Pharmacists	1,012	33%	2,041	67%	3,053
ARNPs	370	12%	2,714	88%	3,084

IOWA HEALTH PROFESSIONS INVENTORY

Composition of Workforce - 2021

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	112	36%	67	314	53
Pharmacists	72	32%	64	224	51
Dentists	44	48%	66	92	54
Nurse Practitioners	24	17%	62	143	50
Physician Assistants	10	16%	65	64	42

IOWA HEALTH PROFESSIONS SUPPLY*

Rural vs. Urban

2021

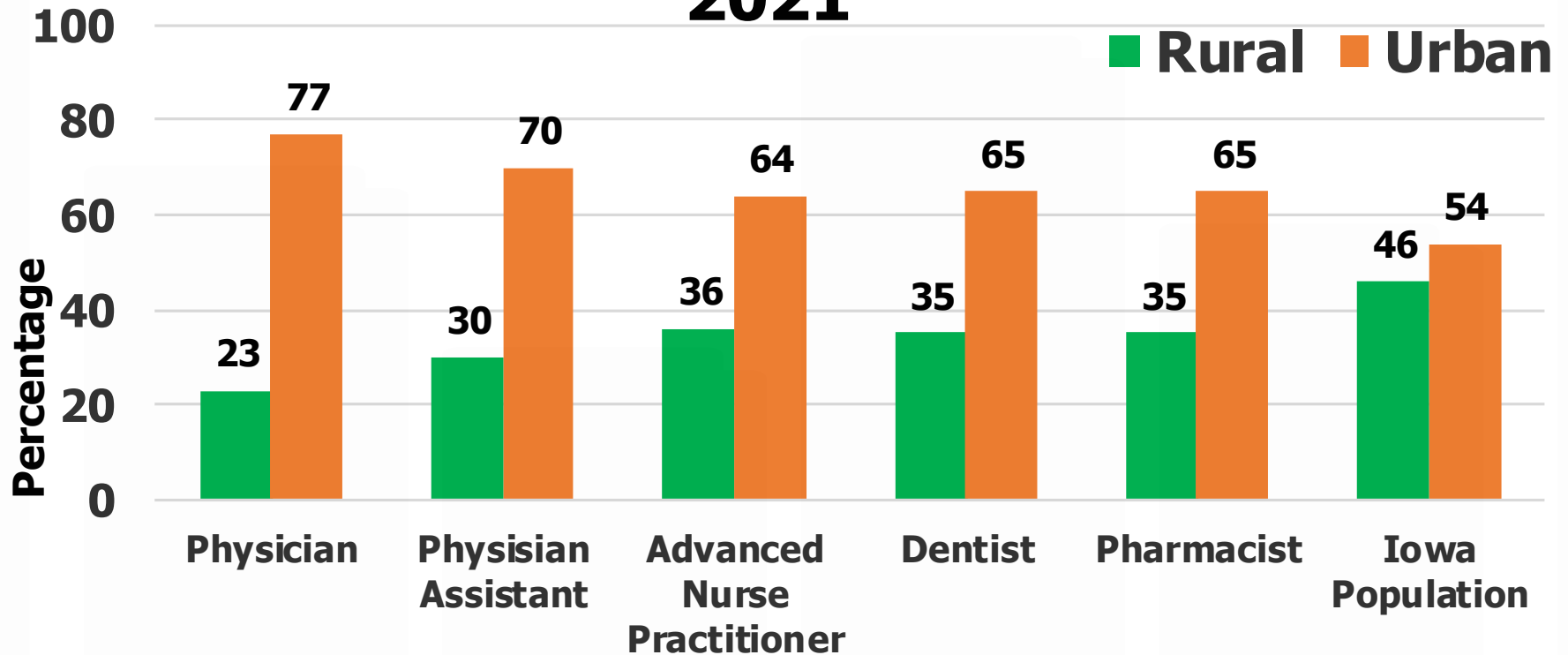
<u>Profession</u>	<u>Rural</u>	<u>%</u>	<u>Urban</u>	<u>%</u>	<u>Total</u>
• Physician	1330	23	4580	77	5910
• Physician Assistant	321	30	766	70	1087
• Advanced Nurse	1116	36	1968	64	3084
• Dentist	519	34	986	66	1505
• Pharmacists	1054	35	1999	65	3053
• IOWA	1,459,510	46	1,730,859	54	3,190,369

* For year ending 12-31-2021, using 2021 census population estimates

IOWA HEALTH PROFESSIONS SUPPLY*

Rural vs. Urban

2021



* For year ending 12-31-2021, using 2021 census

IOWA HEALTH PROFESSIONS INVENTORY

Distribution by Community Size

2021

Community Population	Number of Communities With Providers					Number of Providers					% of Providers				
	ARNPs	PHY	PA	PHA	DDS	ARNPs	PHYS	PA	PHA	DDS	ARNPs	PHYS	PA	PHA	DDS
< 1,000	49	15	18	15	15	61	20	20	27	22	1.9%	0.3%	1.8%	0.9%	1.0%
1,000-4,999	125	103	81	118	98	381	384	135	385	195	12.3	6.5	12.4	12.6	14.2
5,000-9,999	38	40	31	41	41	360	470	100	357	199	11.8	7.9	9.2	11.7	14.3
10,000-49,999	30	31	29	31	25	596	1140	211	666	373	19.3	19.3	19.4	21.8	25.2
50,000-99,999	8	8	8	8	7	1048	2409	378	962	468	34.0	40.8	34.8	31.5	32.7
≥ 100,000	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>637</u>	<u>1487</u>	<u>243</u>	<u>656</u>	<u>248</u>	<u>20.7</u>	<u>5.2</u>	<u>22.4</u>	<u>21.5</u>	<u>12.6</u>
Total	253	200	170	216	189	3083	5910	1087	3053	1505					100%