

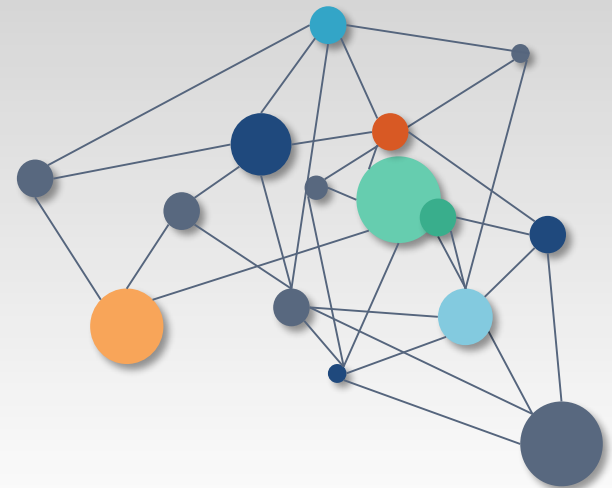
Utah Environmental Scan Data

November 7, 2018

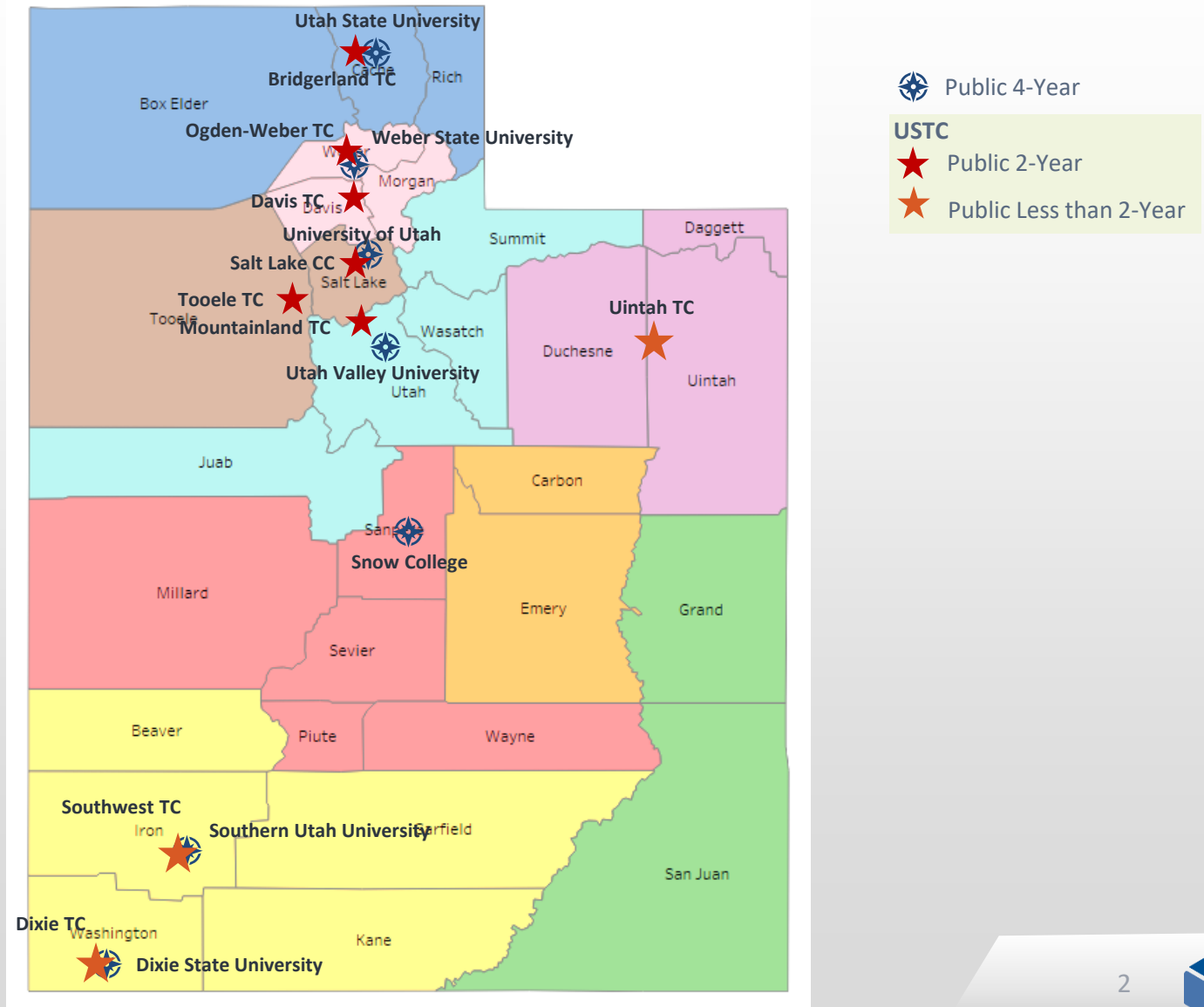


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Utah's Public 4-Year and USTC



Educational Attainment and Workforce Demands



Comparing Utah with Nations and Other States in the Percentage of Young Adult Degree Attainment (Ages 25-34)

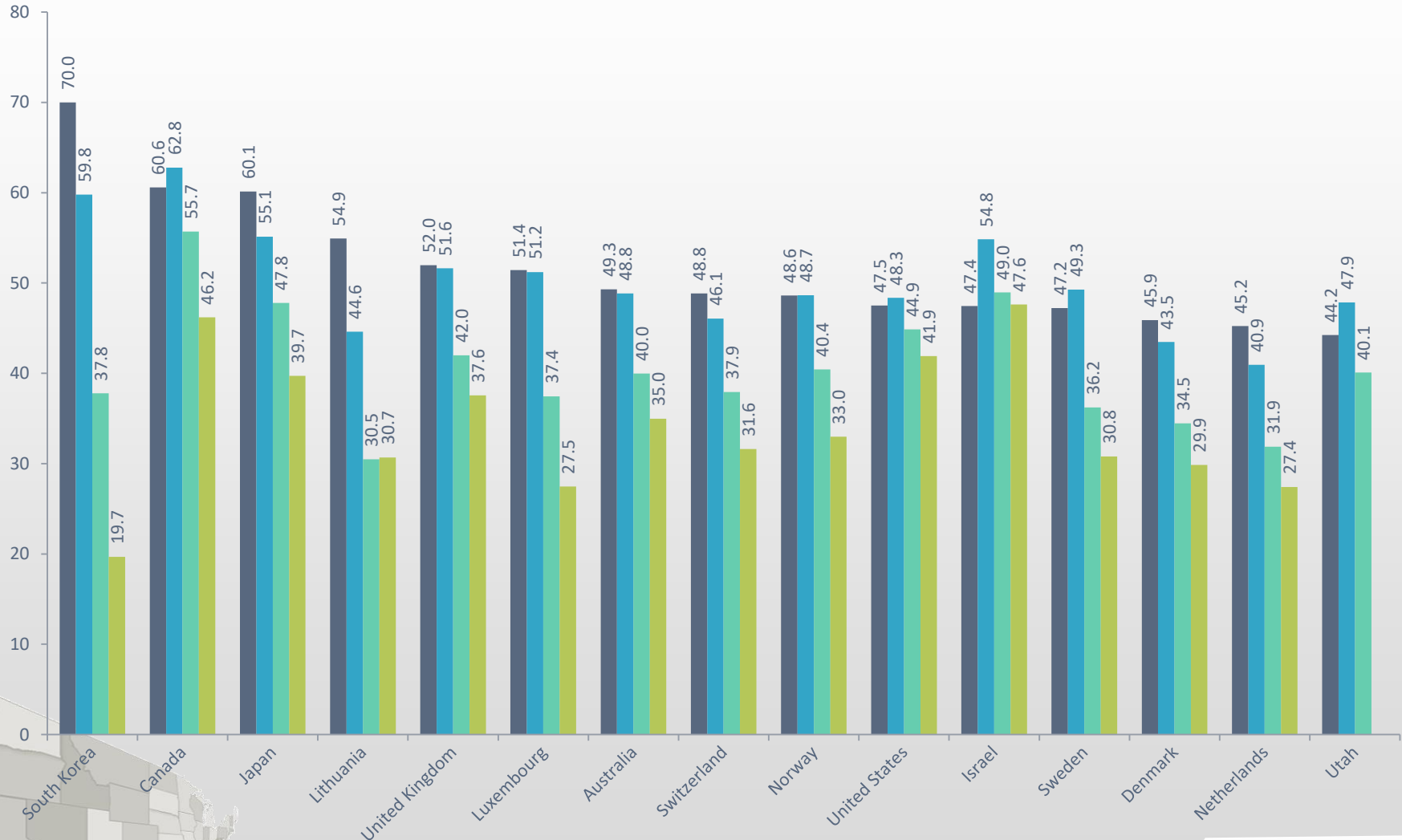
U.S. States	%	OECD Country
	↑	Korea (70)
	60	Canada, Japan
	58	
Massachusetts	56	Lithuania
Minnesota	54	
New York	52	United Kingdom
New Jersey, North Dakota		Luxembourg
Connecticut, New Hampshire, Illinois	50	
Virginia, Colorado		Australia
Rhode Island, Nebraska, Pennsylvania, Maryland	48	Switzerland
Iowa, Wisconsin, South Dakota		United States , Israel, Sweden
Washington, Vermont	46	
Kansas		Denmark, Netherlands
Utah , Maine	44	Belgium, France
Oregon, Missouri, California		Poland, New Zealand, Iceland, Slovenia
North Carolina, Montana, Ohio, Hawaii	42	Latvia
Delaware, Wyoming, Michigan		Finland, Estonia, Greece, Spain
Florida	40	
Indiana, Georgia		Austria
Tennessee, South Carolina	38	
Texas, Kentucky, Idaho		
Arizona	36	
Alaska, Alabama, Oklahoma		Portugal
West Virginia, New Mexico, Mississippi	34	
Louisiana		Slovak Republic
Arkansas	32	Czech Republic
Nevada	30	Germany, Turkey, Hungary
	28	Costa Rica, Columbia
	26	
		Italy
	24	
	22	
		Mexico
	20	

Source: 2017 OECD Education at a Glance (for year 2016); 2016 American Community Survey



Percent of Adults with an Associate Degree or Higher by Age Group – U.S., Utah & Leading OECD Countries

■ 25-34 ■ 35-44 ■ 45-54 ■ 55-64

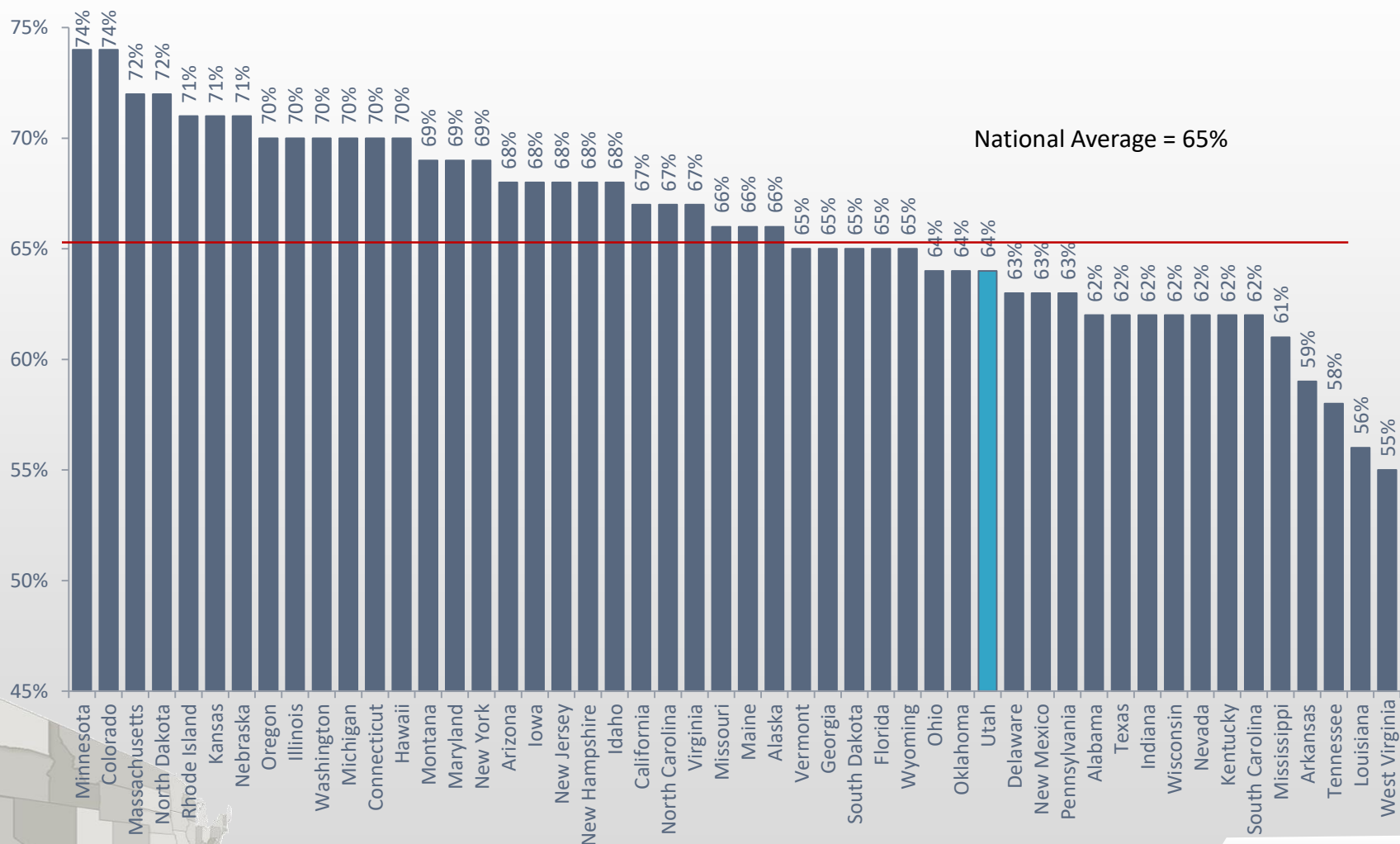


Source: OECD, Education at a Glance 2017 (for 2016), US Census ACS 2016.

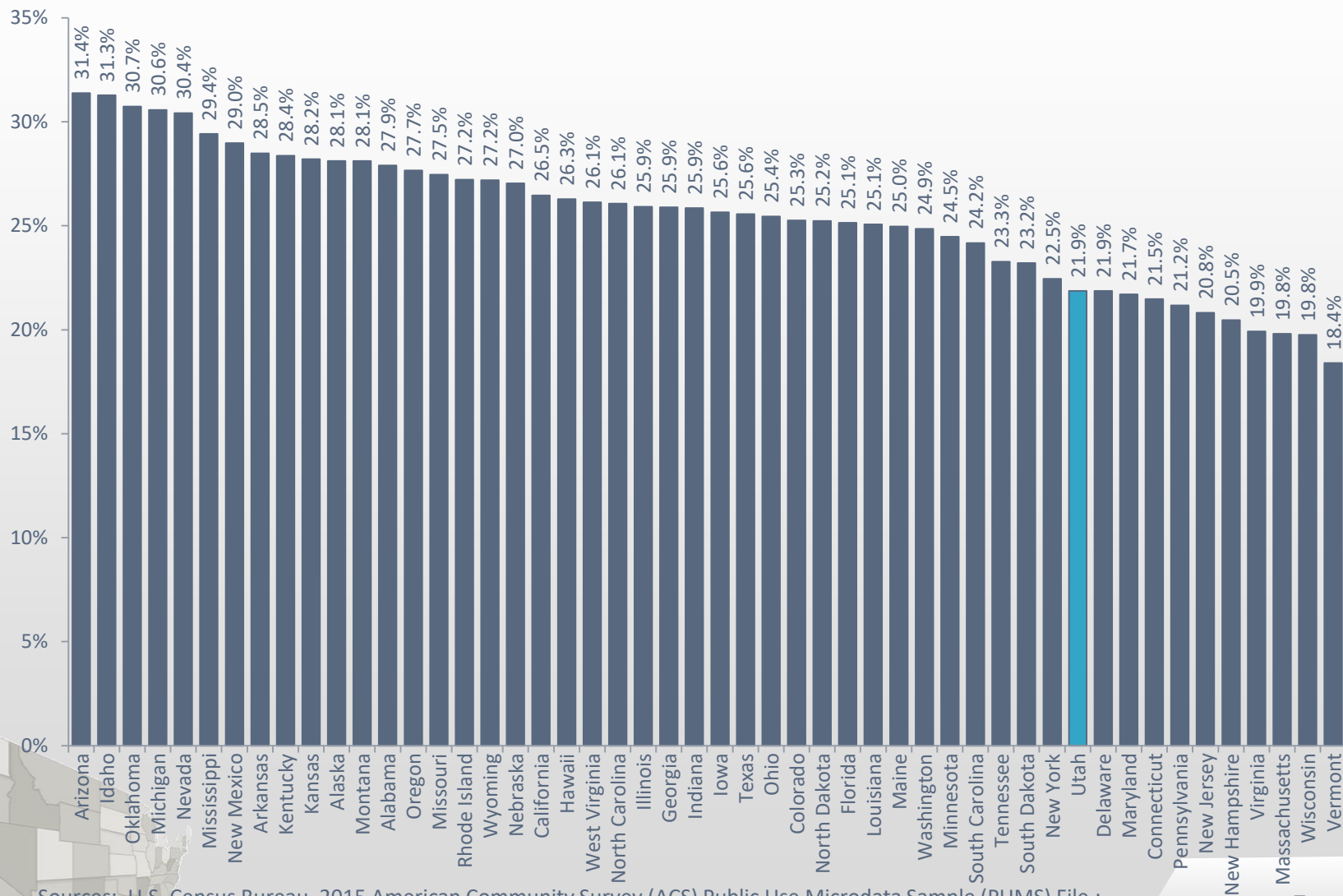
Note: For Utah, the age groups 45-54 and 55-64 are combined.



Percentage of Jobs in 2020 that Will Require a Postsecondary Education, by State



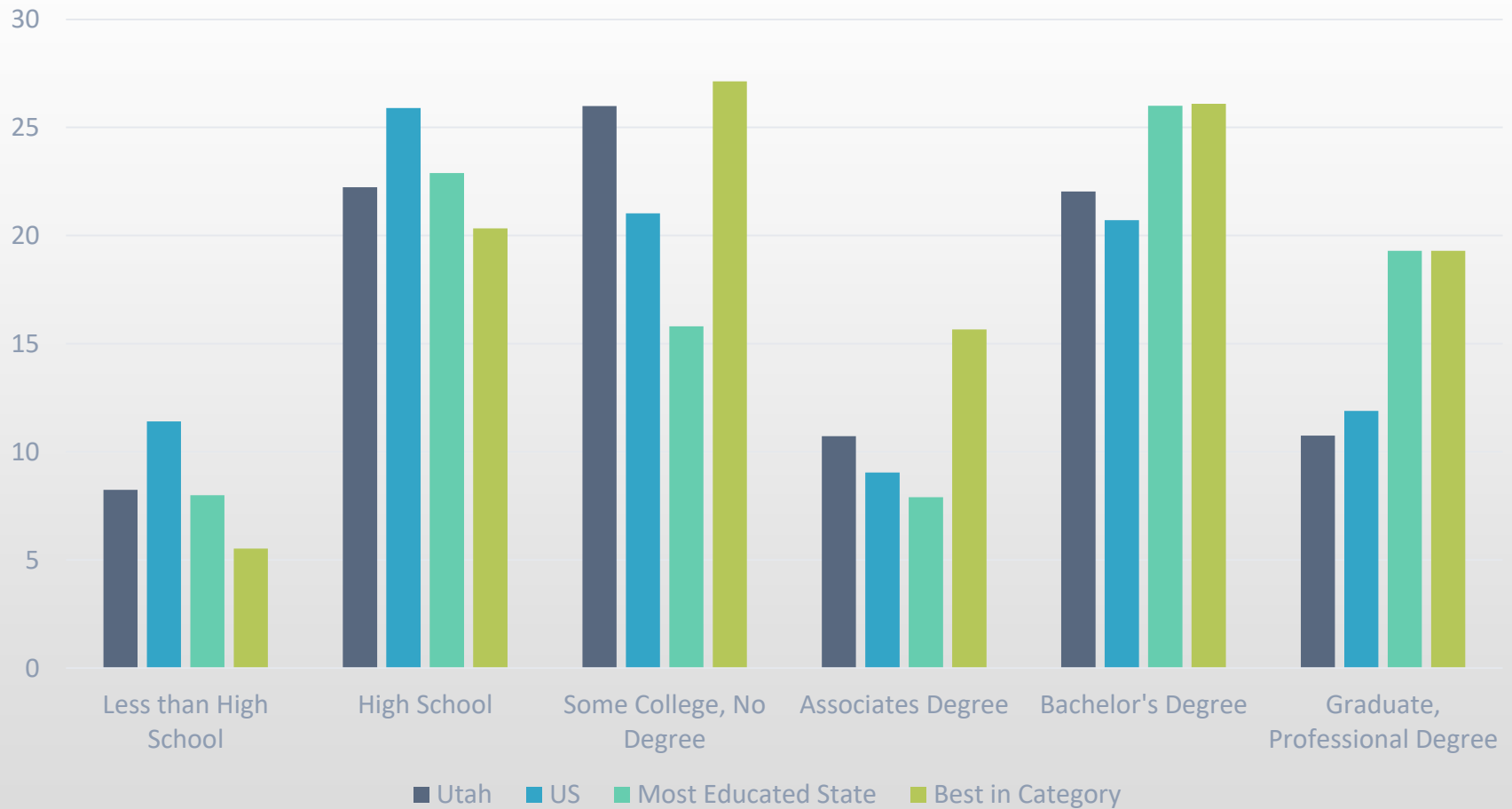
Gap Between Percent of Jobs in 2020 That Will Require a College Education and the Percent of Adults, Aged 25-64 with Associates and Higher in 2015



Sources: U.S. Census Bureau, 2015 American Community Survey (ACS) Public Use Microdata Sample (PUMS) File.; Georgetown Public Policy Institute, Recovery Job Growth and Education Requirements through 2020.



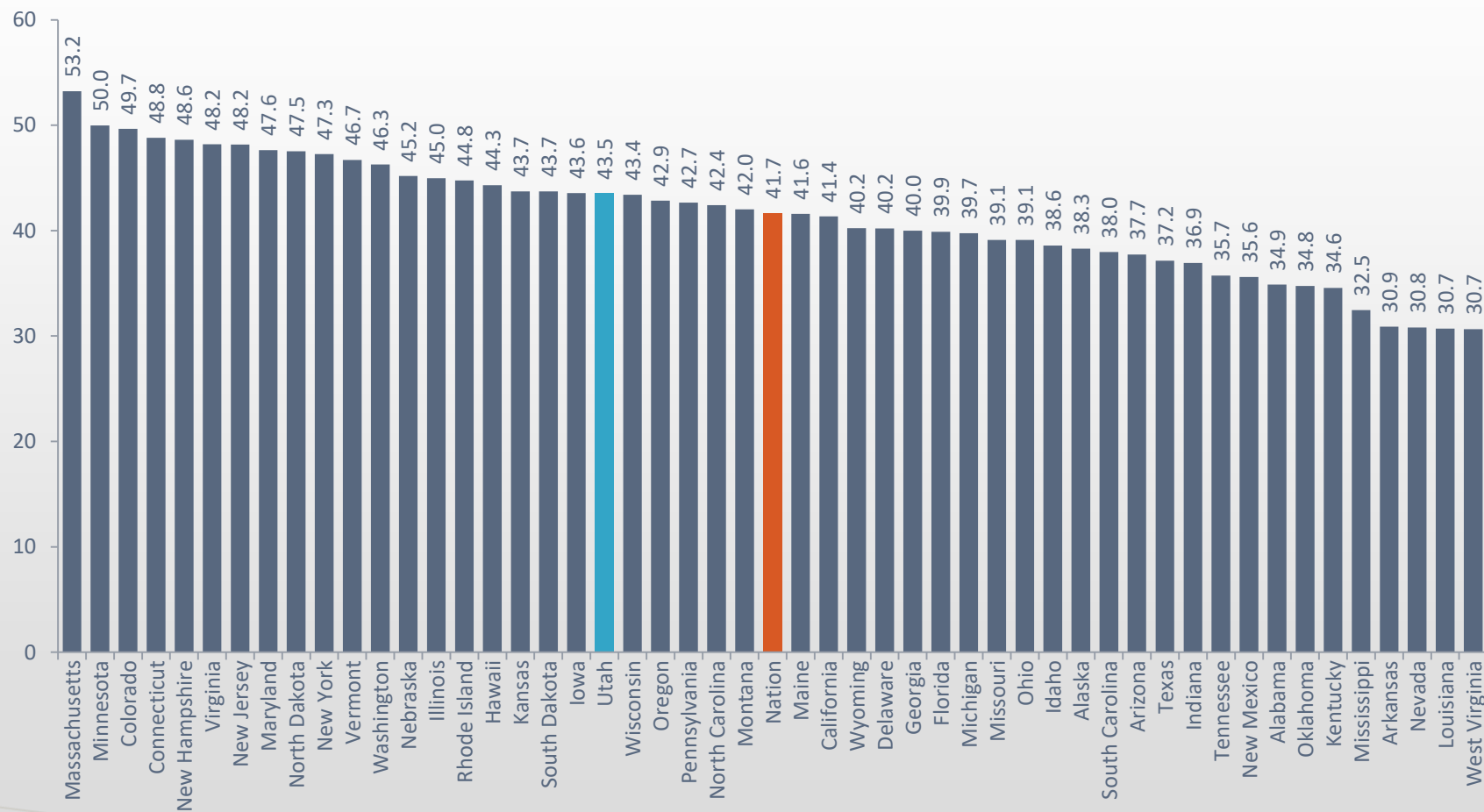
Educational Attainment of Working Aged Adults Aged 25 to 64 – Utah, the US, and the Most Educated State (2016)



Source: U.S. Census Bureau, 2016 American Community Survey; Table B15001



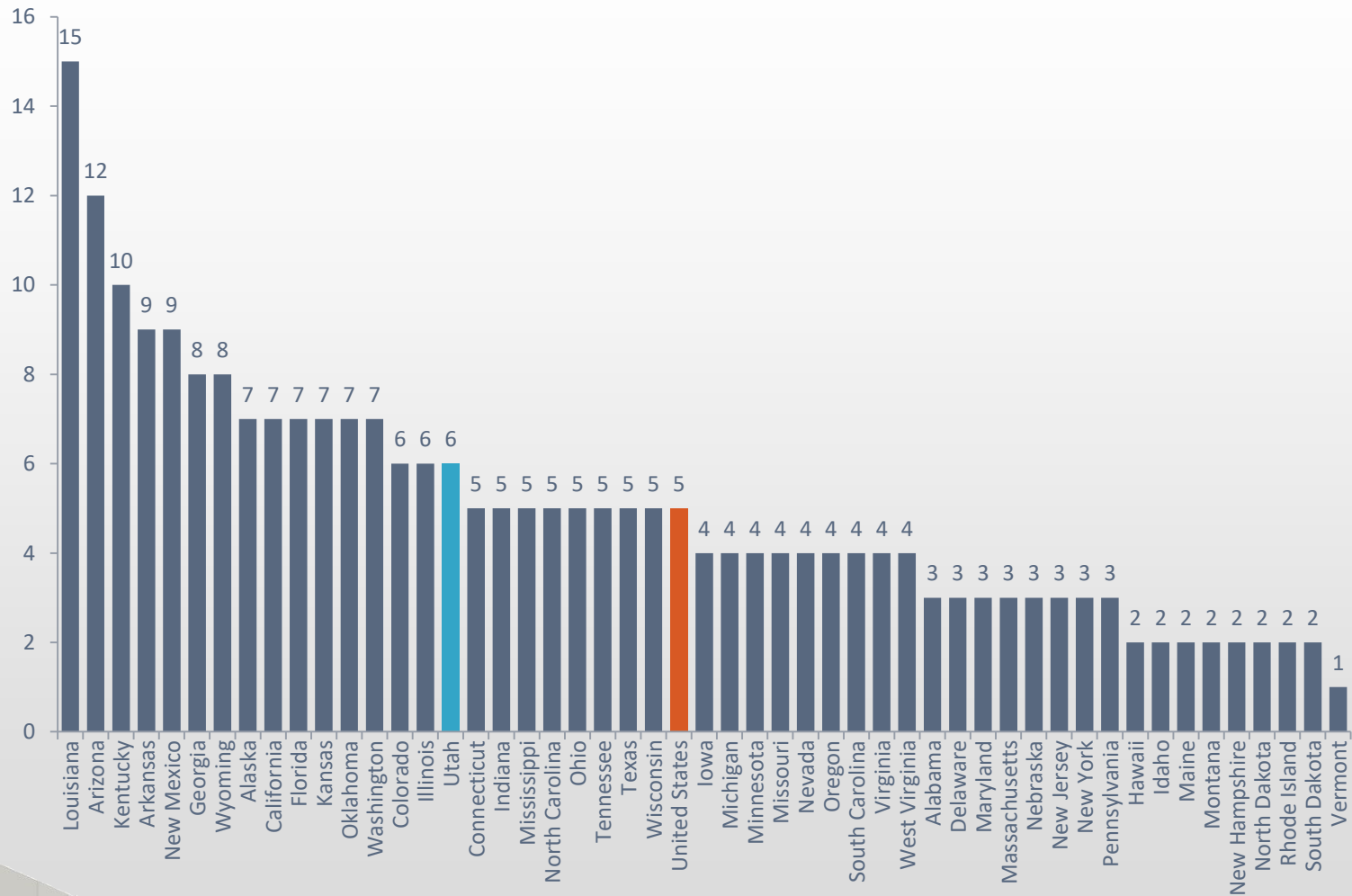
Adults Aged 25-64 with an Associates Degree & Higher by State, 2016



Source: U.S. Census Bureau, 2016 American Community Survey; Table B15001



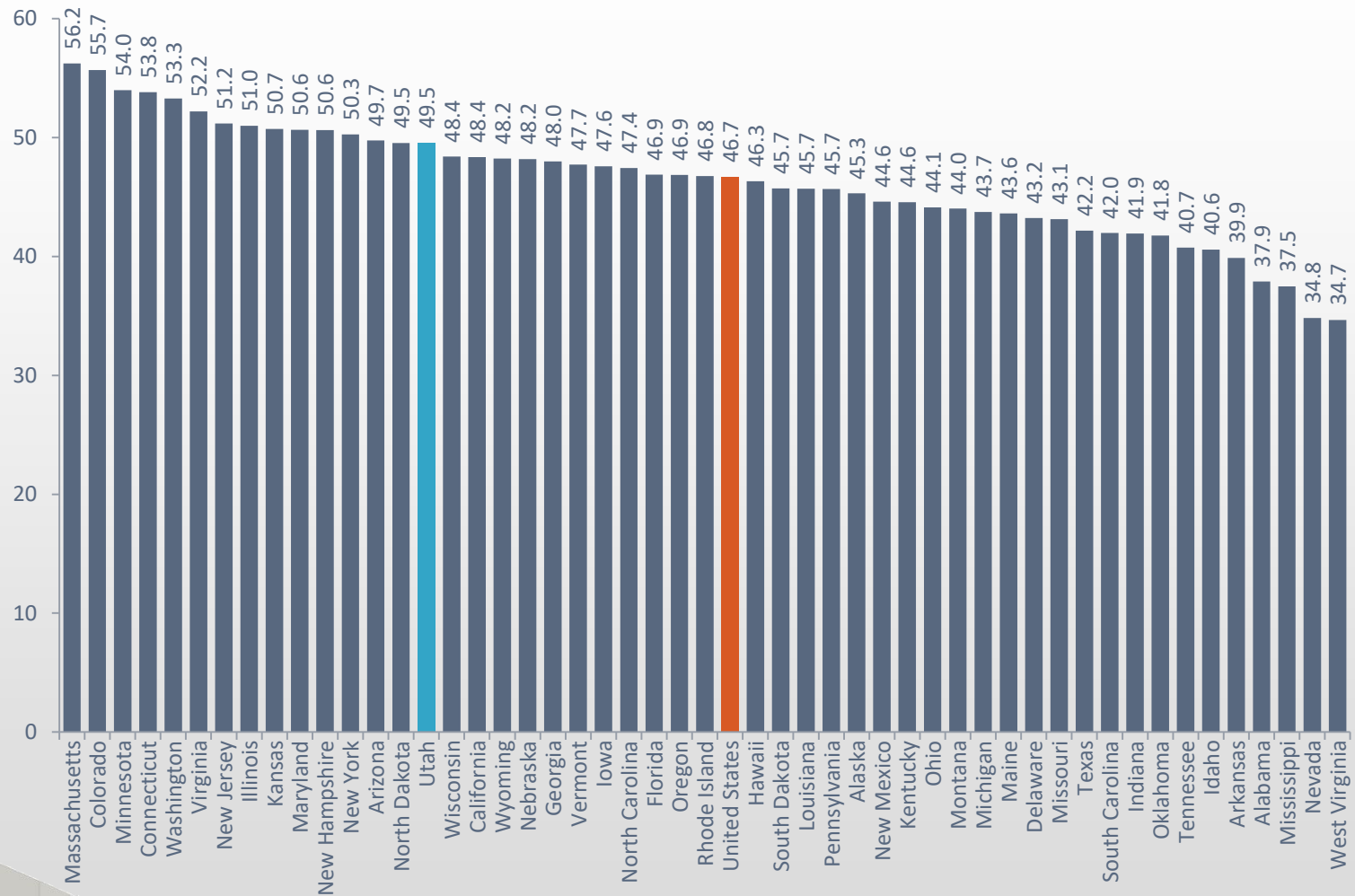
Percent of Residents Ages 25-64 With A High-Quality Certificate



Based on Georgetown CEW updated calculations using SIPP 2008 Wave 12 data (2012) and IPEDS (2014). Found in Stronger Nation 2016 report.



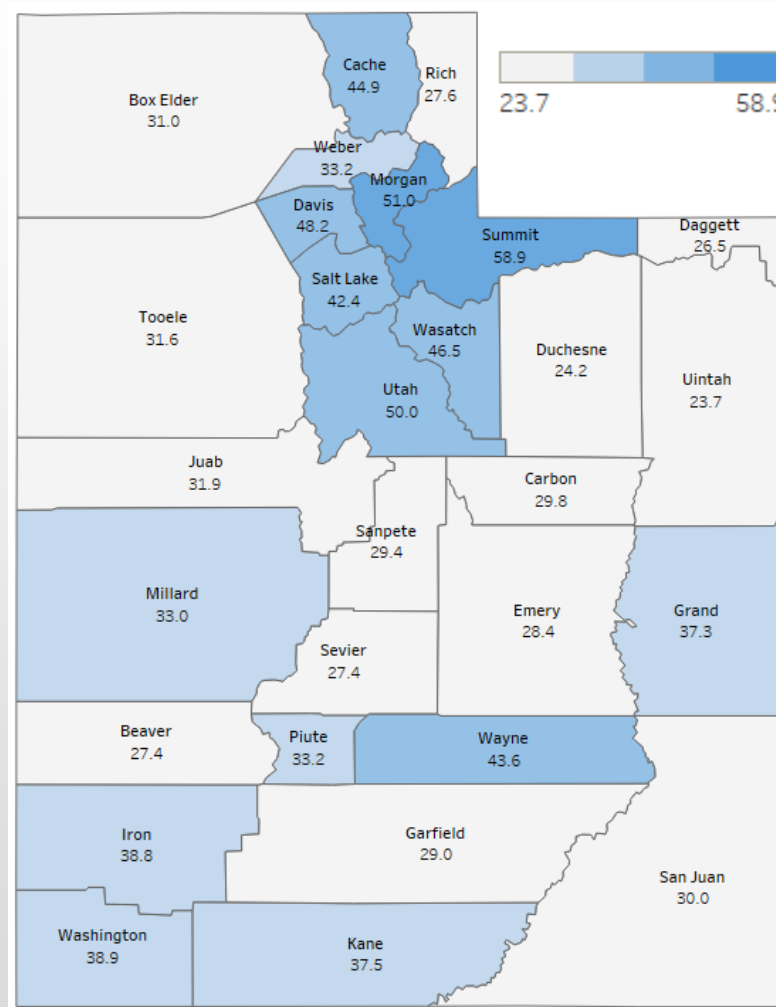
Percent of Residents Ages 25-64 With A High-Quality Certificate or Higher



Certificate-holder data is the best available estimate based on Georgetown CEW updated calculations using SIPP 2008 Wave 12 data (2012) and IPEDS (2014). Found in Stronger Nation 2016 report; Data for percent of residents with an associates and higher from U.S. Census Bureau, 2016 American Community Survey; Table B15001



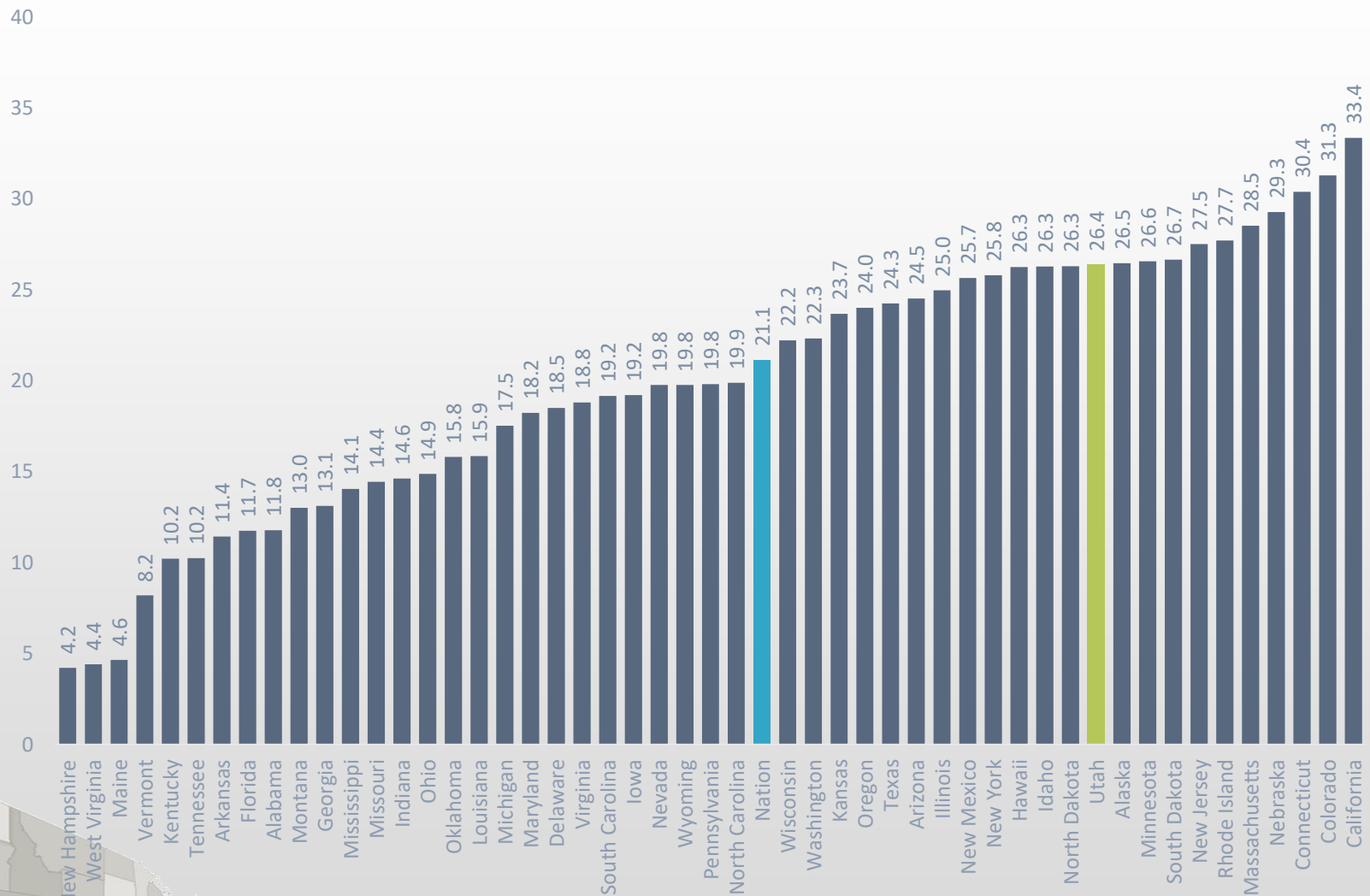
Percent of Adults Aged 25-64 with College Degrees – Associate & Higher – by County (2012-16)



Source: U.S. Census Bureau, 2012-16 American Community Survey (ACS) Five-Year Estimates; Table B15001



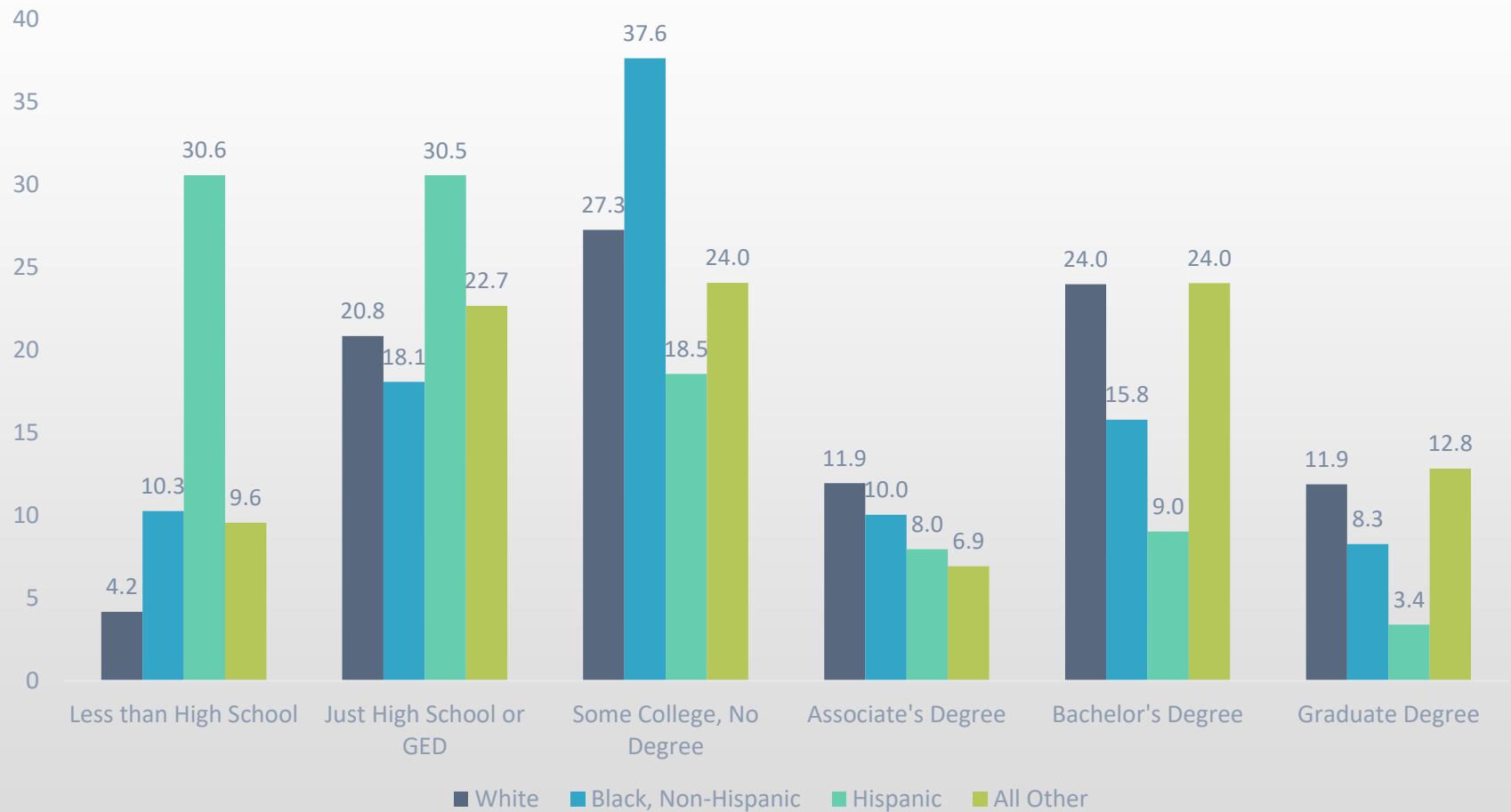
Difference in College Attainment Between Whites and Underrepresented Minorities, Ages 25-64, 2016



Source: U.S. Census Bureau, 2016 American Community Survey One-Year Public Use Microdata Sample.



Educational Attainment of Adults Aged 25-64 by Race, Utah, 2016



Source: U.S. Census Bureau, 2016 American Community Survey One-Year Public Use Microdata Sample.



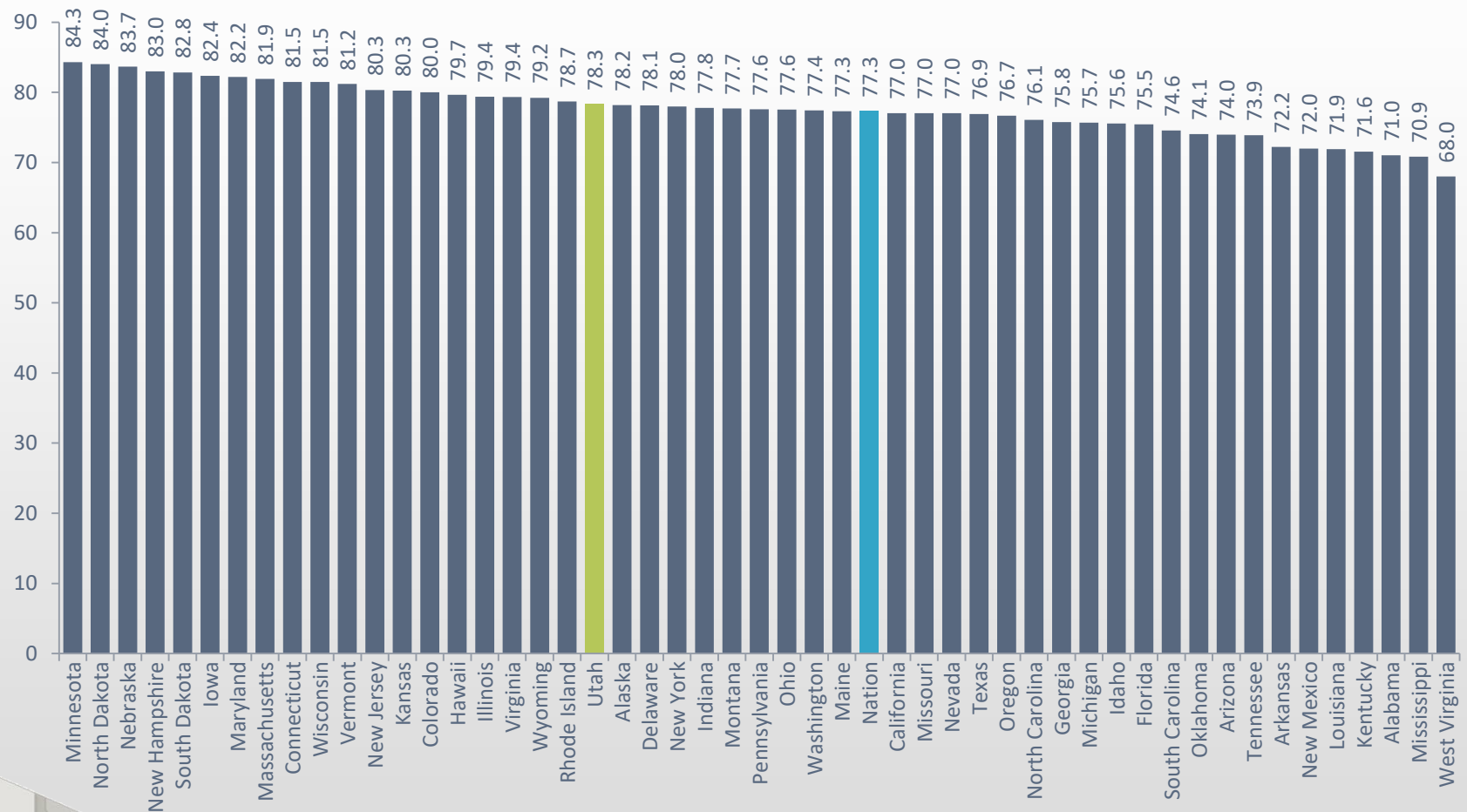
Utah and National Unemployment Rates, 2000-2017



Source: Bureau of Labor Statistics
Note: Not Seasonally Adjusted



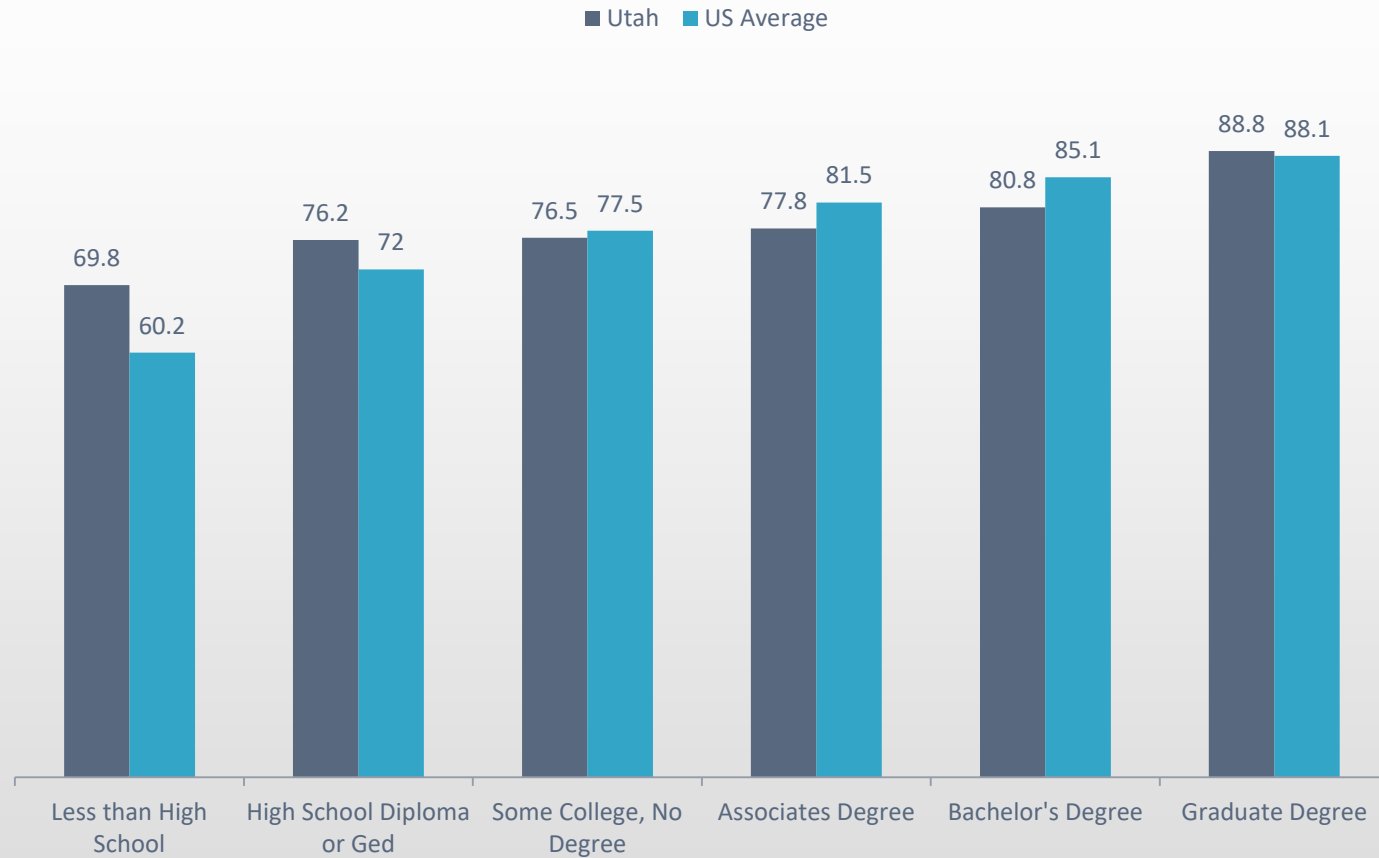
Percent of Civilian Population Age 25-64 Participating in the Labor Force, 2016



Source: U.S. Census Bureau, 2016 American Community Survey One-Year Public Use Microdata Sample.



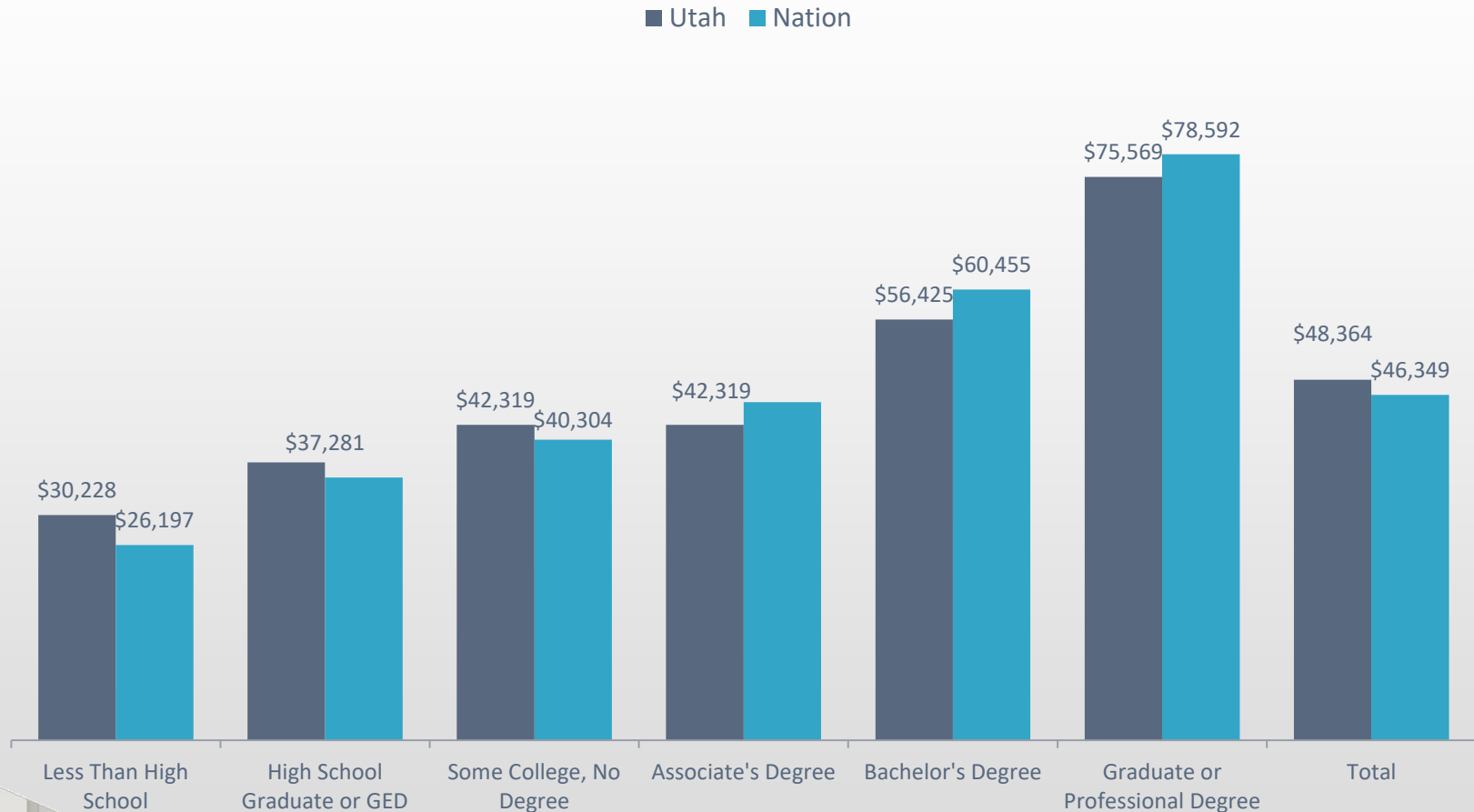
Percentage of Working-Aged Adults (25 to 64) Participating in the Workforce – by Education Level Attained, 2016



Source: U.S. Census Bureau, 2016 American Community Survey One-Year Public Use Microdata Sample.



Median Annual Wages for Employed Workers Aged 25 to 64 - by Level of Education (2016)



Source: U.S. Census Bureau, 2016 American Community Survey One-Year Public Use Microdata Sample.

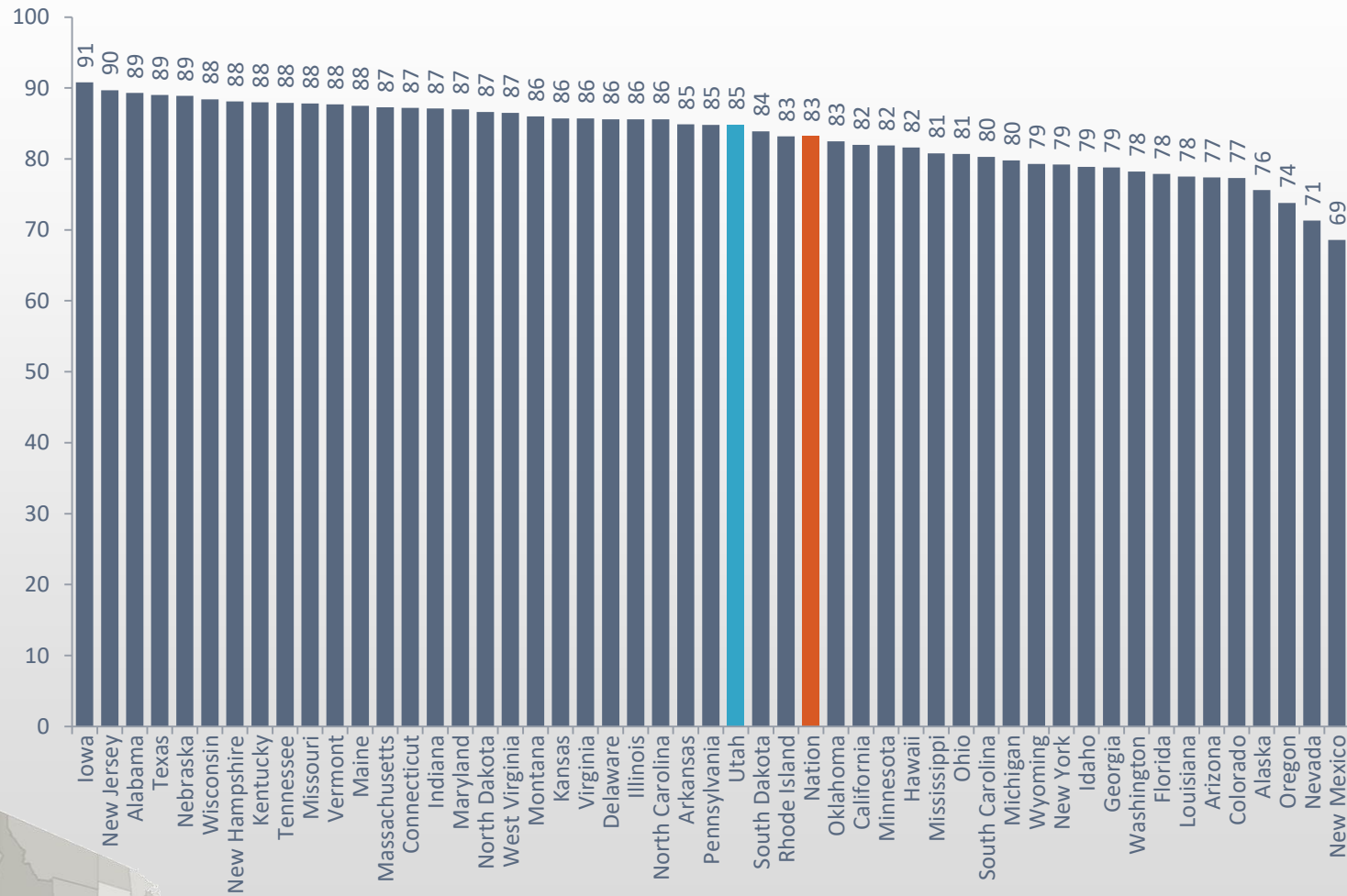


Participation



Student Pipeline, 2016

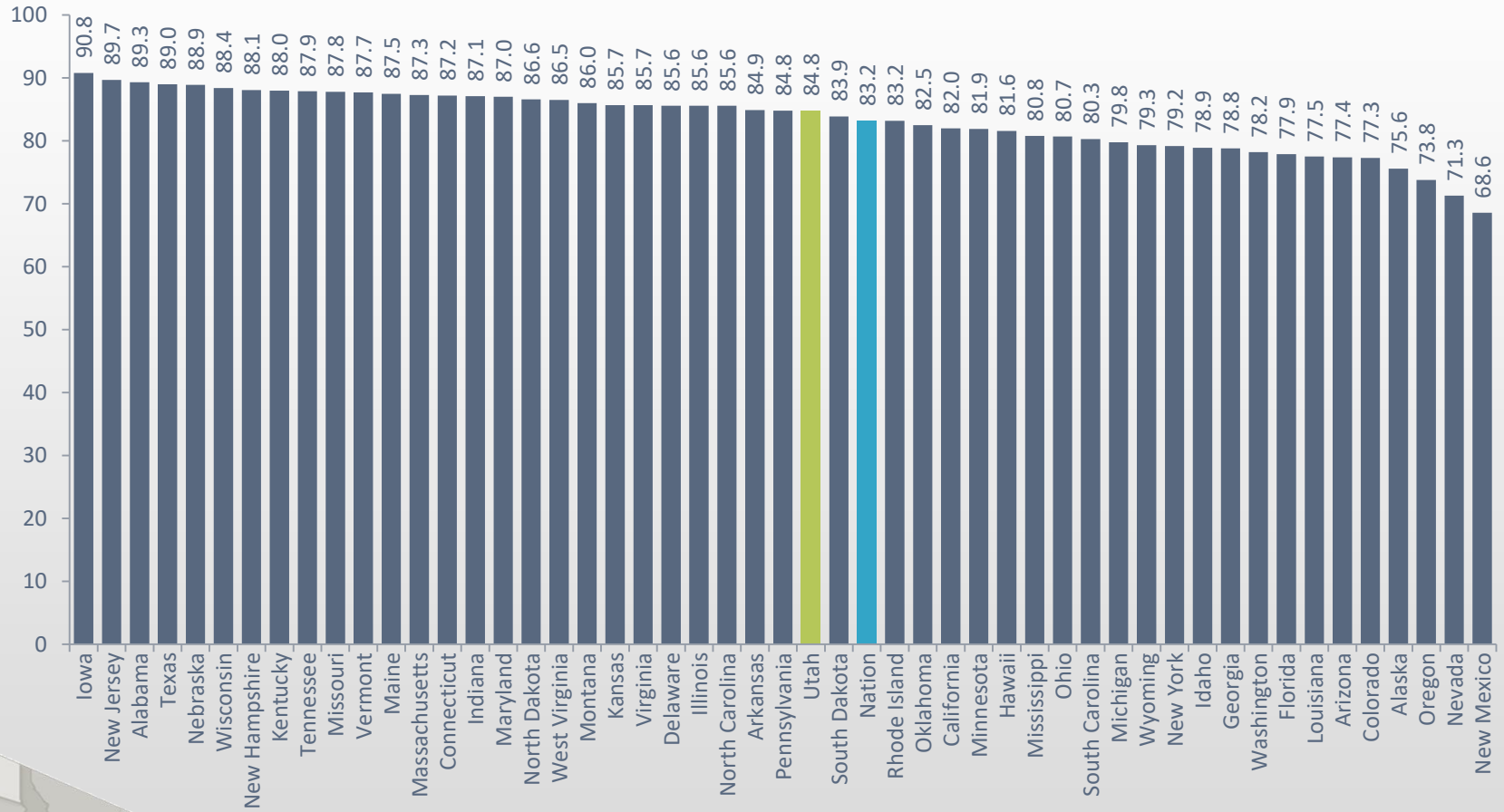
For every 100 9th graders, how many graduate from high school?



Sources: U.S. Department of Education, Office of Elementary and Secondary Education, Consolidated State Performance Report, 2014–15. See Digest of Education Statistics 2016, table 219.46; WICHE, Knocking at the College Door: Projections of High School Graduates, 2016 (Extraction 12-28-16); NCES, IPEDS Fall 2016 Residence & Migration Enrollment File; ef2016_c Provisional Release Data File. NCES, IPEDS Fall 2016 Retention Rate File; ef2016_d Provisional Release Data File. NCES, IPEDS 2015-16 Graduation Rate File; gr2016 Provisional Release Data File.



Public High School 4-year Adjusted Cohort Graduation Rate (ACGR), 2014-15

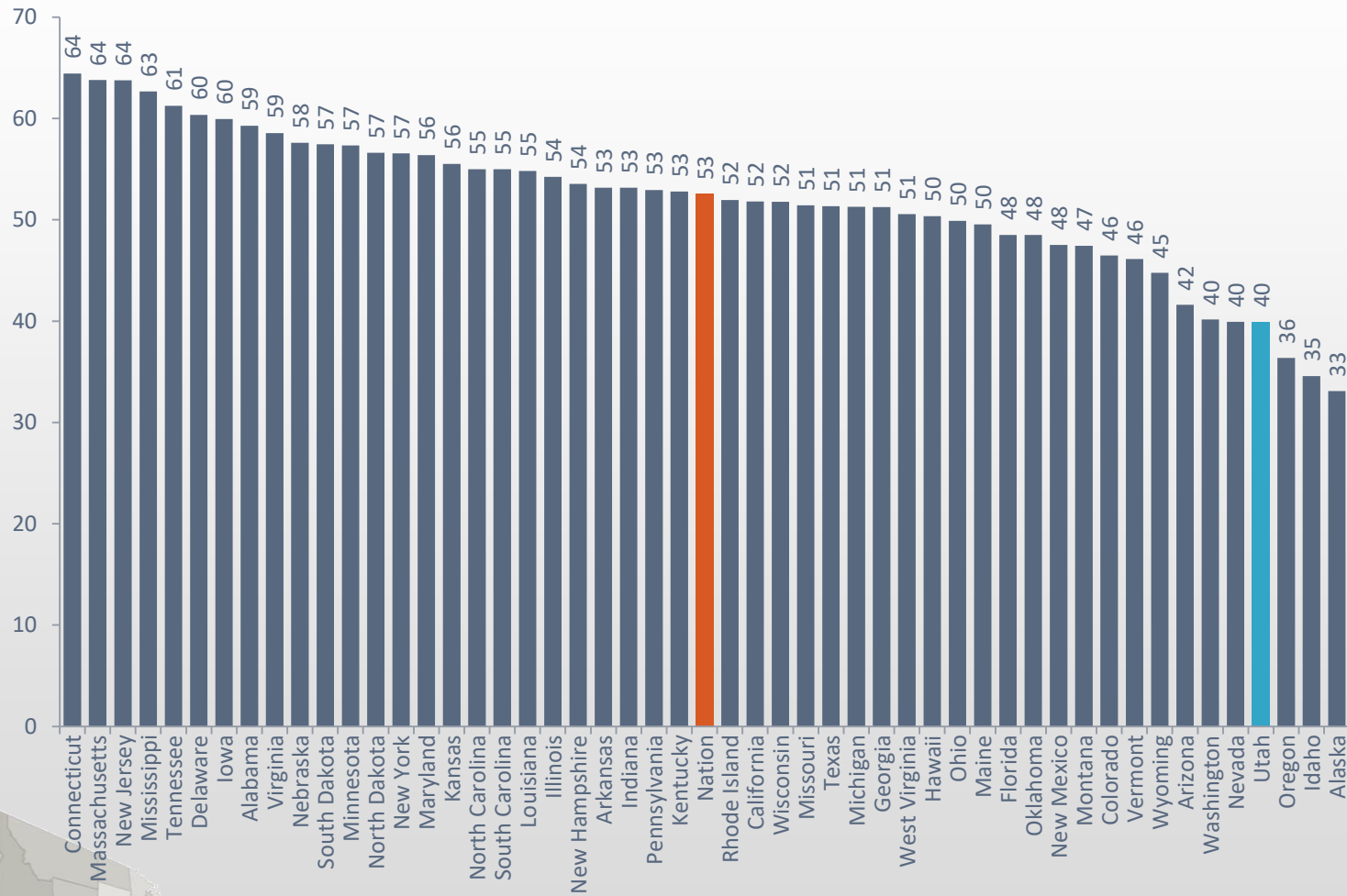


Source: NCES



Student Pipeline, 2016

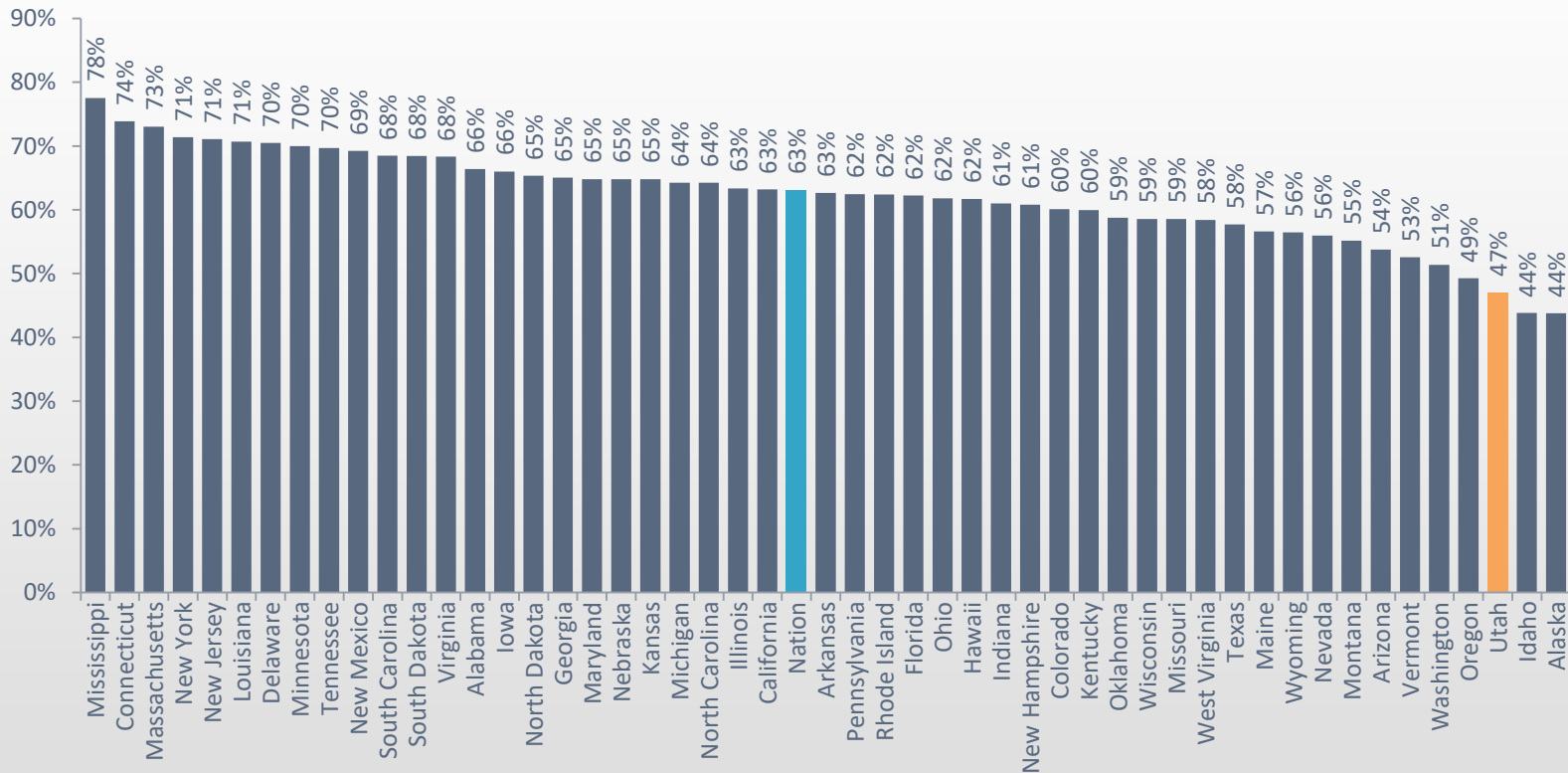
For every 100 9th graders, how many enter college?



Sources: U.S. Department of Education, Office of Elementary and Secondary Education, Consolidated State Performance Report, 2014–15. See Digest of Education Statistics 2016, table 219.46; WICHE, Knocking at the College Door: Projections of High School Graduates, 2016 (Extraction 12-28-16); NCES, IPEDS Fall 2016 Residence & Migration Enrollment File; ef2016_c Provisional Release Data File. NCES, IPEDS Fall 2016 Retention Rate File; ef2016_d Provisional Release Data File. NCES, IPEDS 2015-16 Graduation Rate File; gr2016 Provisional Release Data File.



Percent of High School Graduates Directly Out of High School Going Directly to College, 2016



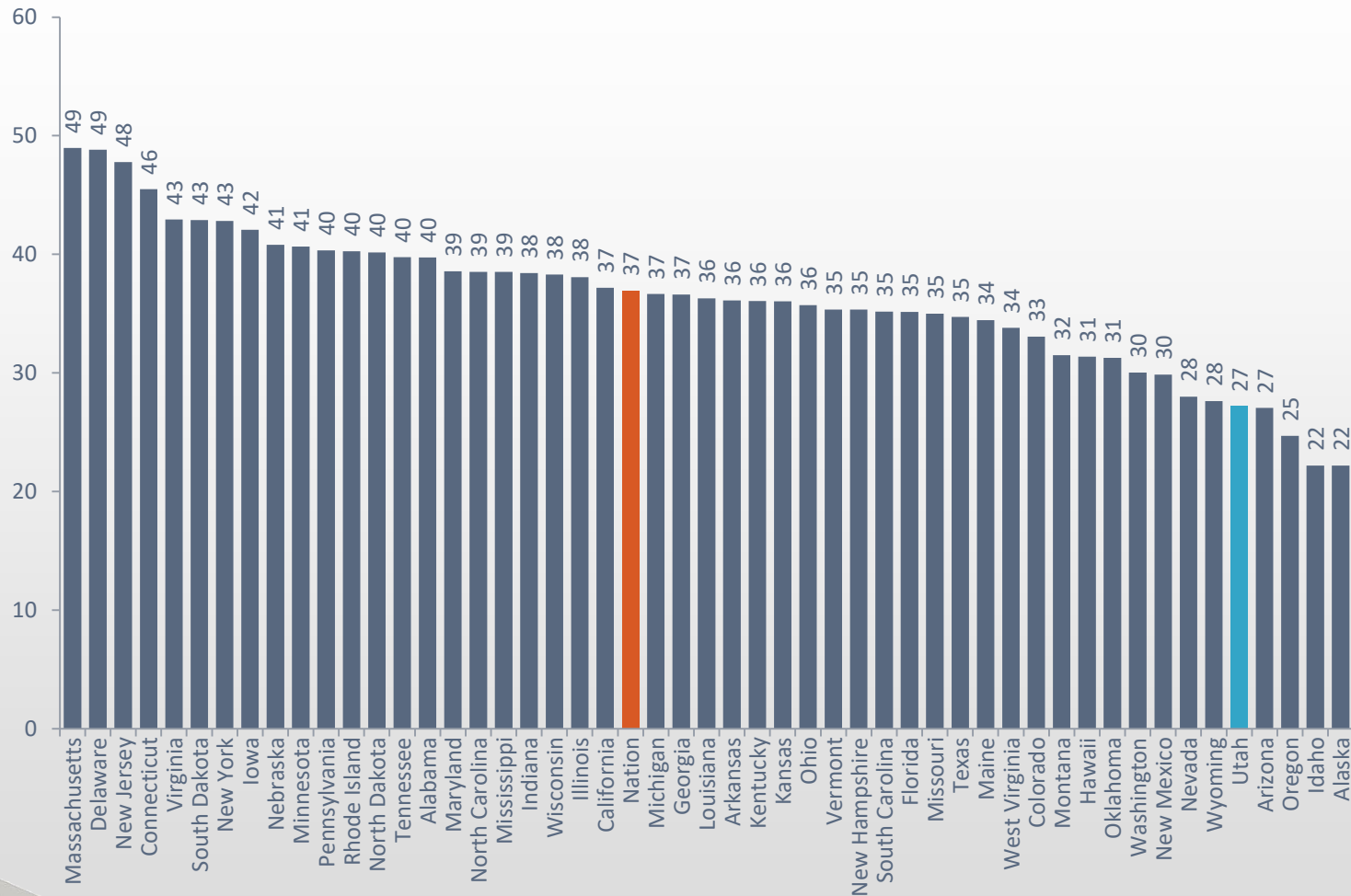
Source: Western Interstate Commission for Higher Education, Knocking at the College Door: Projections of High School Graduates, 2016; NCES, IPEDS Fall 2016 Residency and Migration File; ef2016c Provisional Release Data File.

Note: Actual high school graduate numbers for 2016 not available from NCES Common Core of Data. WICHE High School Graduate Projections for 2016 substituted.



Student Pipeline, 2016

For every 100 9th graders, how many are still enrolled sophomore year?

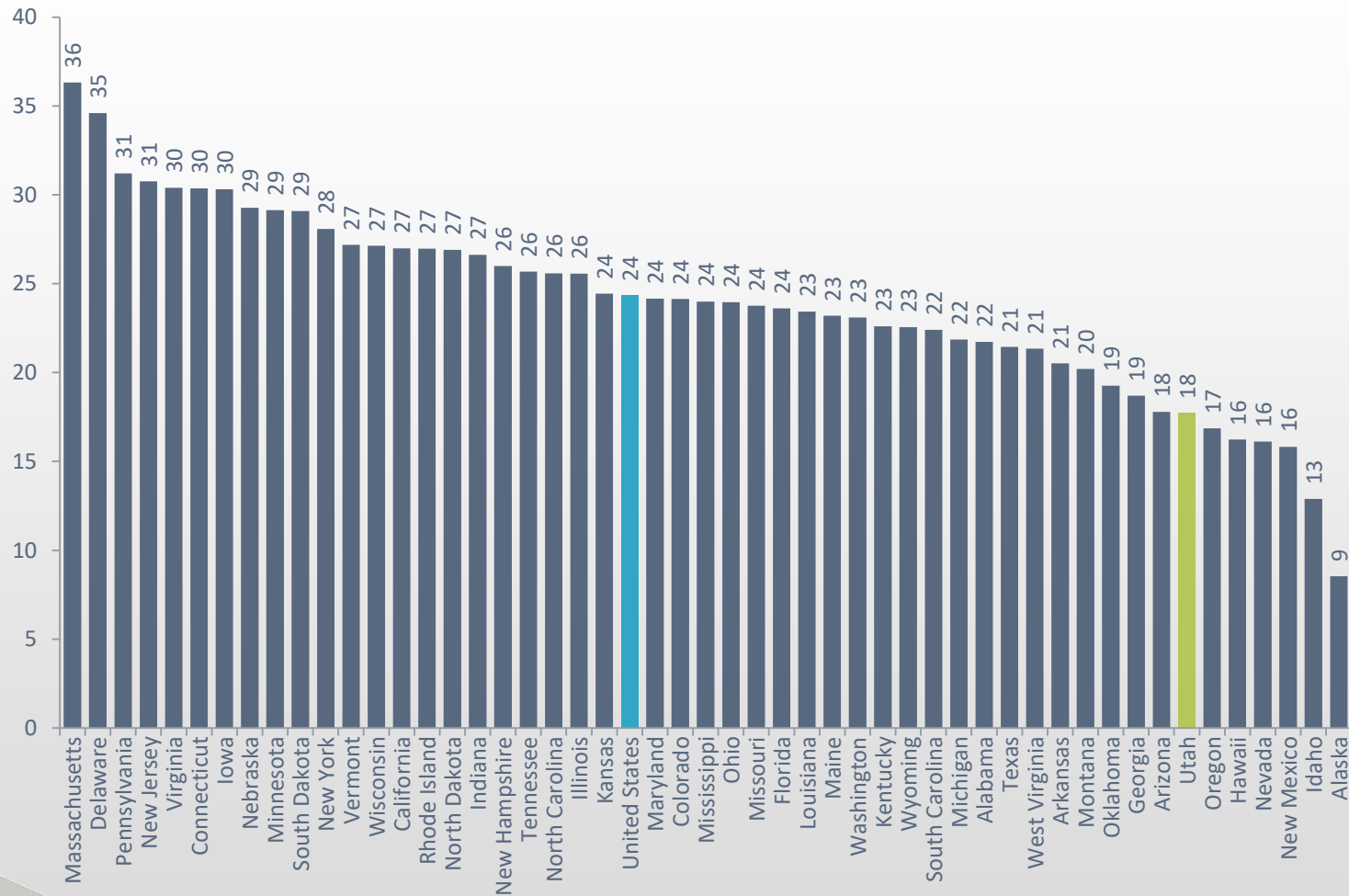


Sources: U.S. Department of Education, Office of Elementary and Secondary Education, Consolidated State Performance Report, 2014–15. See Digest of Education Statistics 2016, table 219.46; WICHE, Knocking at the College Door: Projections of High School Graduates, 2016 (Extraction 12-28-16); NCES, IPEDS Fall 2016 Residence & Migration Enrollment File; ef2016_c Provisional Release Data File. NCES, IPEDS Fall 2016 Retention Rate File; ef2016_d Provisional Release Data File. NCES, IPEDS 2015-16 Graduation Rate File; gr2016 Provisional Release Data File.



Student Pipeline, 2016

For every 100 9th graders, how many graduate within 150% of program time?



Sources: U.S. Department of Education, Office of Elementary and Secondary Education, Consolidated State Performance Report, 2014–15. See Digest of Education Statistics 2016, table 219.46; WICHE, Knocking at the College Door: Projections of High School Graduates, 2016 (Extraction 12-28-16); NCES, IPEDS Fall 2016 Residence & Migration Enrollment File; ef2016_c Provisional Release Data File. NCES, IPEDS Fall 2016 Retention Rate File; ef2016_d Provisional Release Data File. NCES, IPEDS 2015-16 Graduation Rate File; gr2016 Provisional Release Data File.



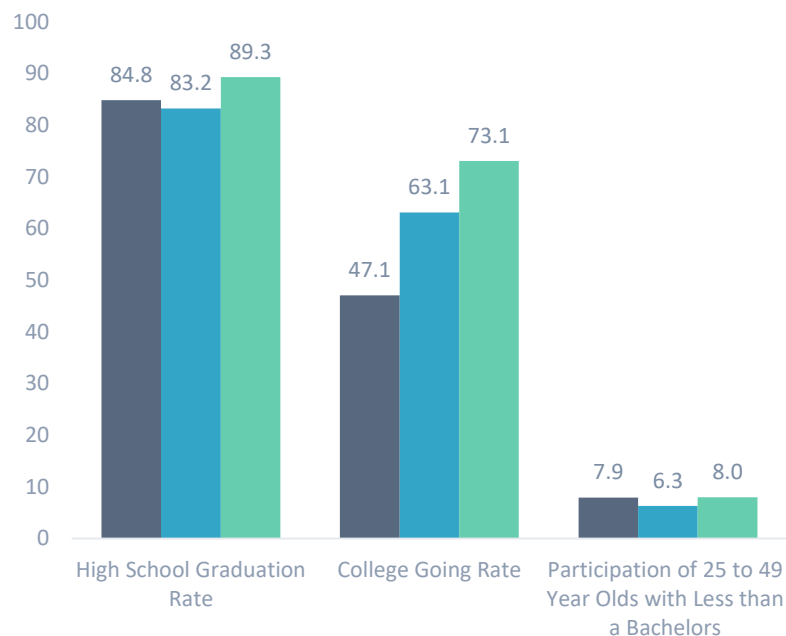
High School Graduation, College Participation, & Completion, 2015-16

■ Utah

■ US Average

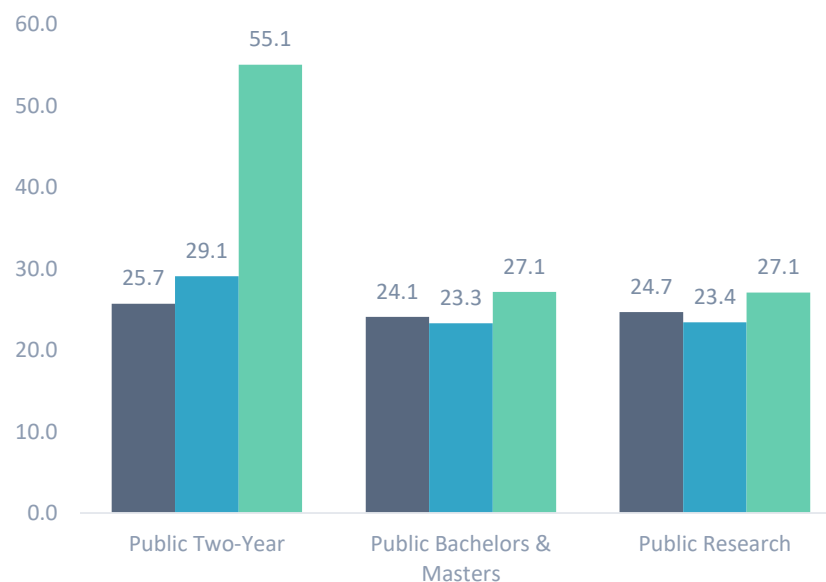
■ Median, Top 5 States

Input Rates



Throughput Rates

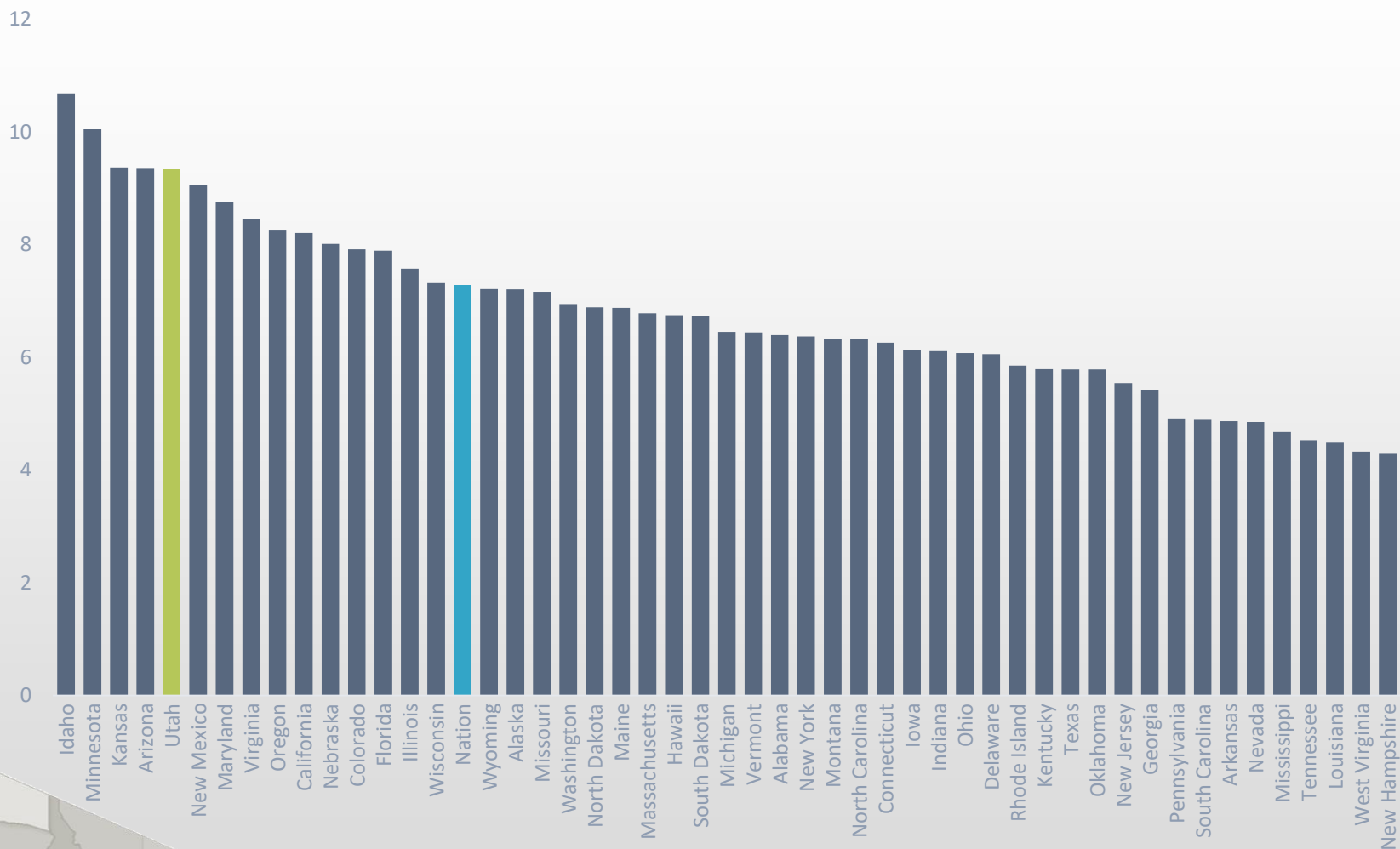
Undergraduate Credentials and Degrees Awarded per 100 FTE Undergraduates



Sources: Western Interstate Commission for Higher Education, Knocking at the College Door: Projections of High School Graduates, 2016. NCES, IPEDS Fall 2016 Residency and Migration File; ef2016c Provisional Release Data File. *High School Graduation Rate*: NCES Table 219.46. Public high school 4-year adjusted cohort graduation rate (ACGR), by selected student characteristics and state: 2010-11 through 2014-15; *Undergraduate Awards*: NCES, IPEDS 2015-16 Completions File; ef2016_a Provisional Release Data File. NCES, IPEDS 2015-16 Instructional Activity File; efia2016 Provisional Release Data File. *College Going Rates: Enrollment of Adults*: NCES, IPEDS Fall 2015 Enrollment File; ef2015b Provisional Release Data File. U.S. Census Bureau, 2015 American Community Survey One-Year Public Use Microdata Sample.



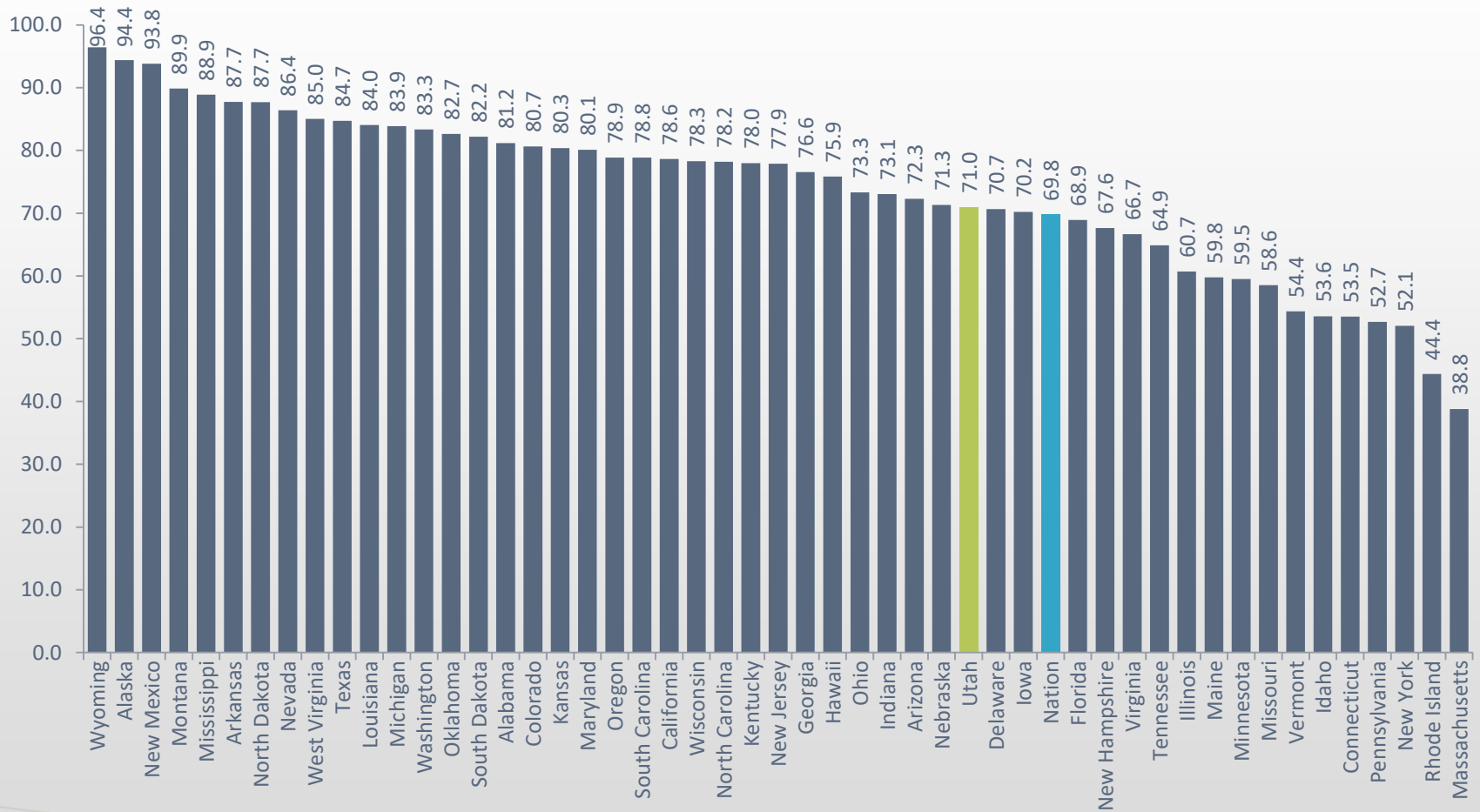
Undergraduate Enrollment Age 25-49 as a Percent of Population Age 25-49 with Less than an Associates Degree, Fall 2015



Sources: NCES, IPEDS Fall 2015 Enrollment File; ef2015b Provisional Release Data File; U.S. Census Bureau, 2015 American Community Survey One-Year Public Use Microdata Sample.



Proportion of FTE Enrollments in Public Institutions



Source: NCES, IPEDS Academic Year 2015-16 Instructional Activity File; efi2016 Provisional Release Data File.



Origin of 75 Percent of All Undergraduates, by USHE Institution, Fall 2017

	University of Utah	Utah State University	Weber State University	Southern Utah University	Snow College	Dixie State University	Utah Valley University	Salt Lake Community College
1	Salt Lake (44.8)	Unknown (37)	Davis (42)	Iron (22)	Sanpete (17.8)	Washington (53.1)	Utah (60.1)	Salt Lake (76.9)
2	Domestic Non-Resident (25.9)	Domestic Non-Resident (22.1)	Weber (31.1)	Domestic Non-Resident (21.8)	Salt Lake (15.9)	Domestic Non-Resident (18.5)	Salt Lake (12.6)	
3		Cache (10.6)		Salt Lake (10.1)	Utah (13.5)			
4				Utah (9.5)	Sevier (12.1)			
5				Washington (6.9)	Domestic Non-Resident (5.4)			
6					Millard (4.7)			
7					Juab (4.3)			

Notes: The proportion of total undergraduates is given by the number in parentheses. Data are for county of origin for Utah residents. Domestic non-residents are U.S. citizens from other states. The calculation of the percentage includes international students. At Brigham Young University, 58.3 percent of undergraduates are domestic non-residents and an additional 15.6 percent are from Utah County.

Source: USHE



Top 5 Institutional Destinations in Utah for Recent High School Graduates, by County, 2017

Beaver	Box Elder	Cache	Carbon	Daggett	Davis	Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane	Millard	Morgan
Dixie State	Weber State	Utah State	Utah State	Southern Utah	Weber State	Uintah Basin TC	Southern Utah	Southern Utah	University of Utah	Southern Utah	Snow College	Dixie State	Southern Utah	Weber State
Southern Utah	Utah State	Snow College	Southern Utah	Dixie State	University of Utah	Utah Valley University	Utah State	Dixie State	Dixie State	South-west TC	Utah Valley	Southern Utah	Snow College	University of Utah
University of Utah	Snow College	University of Utah	Dixie State	Snow College	Davis TC	Utah State	Snow College	Utah Valley	Utah State	Dixie State	Mountain land TC	Utah Valley	Dixie State	Snow College
Utah State	Dixie State	Southern Utah	University of Utah	Uintah Basin TC	Utah Valley University	Southern Utah	Dixie State	Utah State	Snow College	University of Utah	Southern Utah	Weber State	Utah Valley	Utah Valley
Snow College	Southern Utah	Weber State	Utah Valley		BYU	University of Utah	Utah Valley U	Snow College	Southern Utah	BYU	Dixie State	BYU	University of Utah	Southern Utah
93.0%	79.9%	87.1%	94.8%	100.0%	78.5%	78.4%	90.0%	95.8%	88.9%	94.2%	93.8%	97.1%	92.4%	76.8%

The bottom row shows the estimated percent of all first-time enrollees accounted for by the top 5 institutions collectively, relative to the population of 18 year olds in each county.

Source: USHE, USTC, and Gardner Institute.



Top 5 Institutional Destinations in Utah for Recent High School Graduates, by County, 2017

Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier	Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
Dixie State	Utah State	University of Utah	Utah State	Snow College	Snow College	University of Utah	Dixie State	Uintah Basin TC	Utah Valley	Utah Valley	Dixie State	Davis TC	Weber State
Southern Utah	Weber State	Salt Lake CC	Utah Valley	Southern Utah	Southern Utah	Utah Valley	Southern Utah	Dixie State	BYU	University of Utah	Southern Utah	Snow College	Ogden-Weber TC
University of Utah	Utah Valley	Utah Valley	Snow College	Utah Valley	Dixie State	Salt Lake CC	University of Utah	Utah Valley	Mountain land TC	BYU	Utah Valley	Southern Utah	University of Utah
Utah Valley	Dixie State	BYU	Southern Utah	Dixie State	Utah Valley	Snow College	Tooele TC	Snow College	University of Utah	Mountain and	BYU	Dixie State	Dixie State
	Southern Utah	Dixie State	University of Utah	BYU	BYU	Dixie State	Salt Lake CC	Utah State	Southern Utah	Snow College	University of Utah	BYU	Snow College
100.0%	93.3%	82.8%	84.9%	92.0%	95.5%	88.8%	64.3%	73.5%	84.2%	78.5%	91.5%	91.7%	88.9%

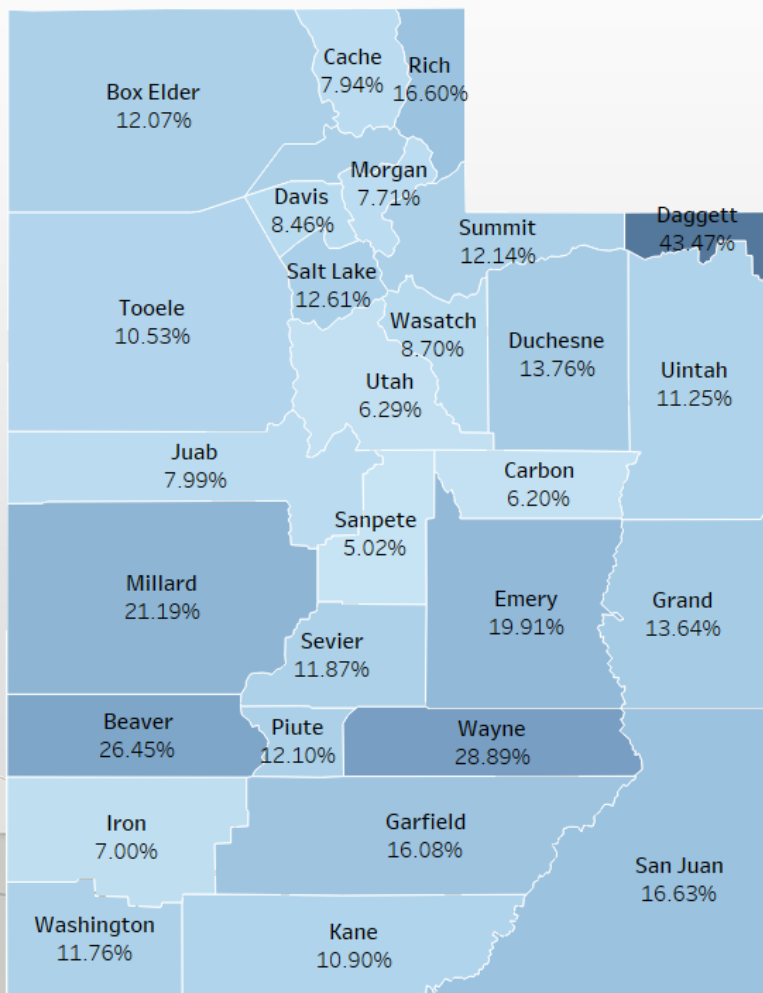
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Source: USHE, USTC, and Gardner Institute.

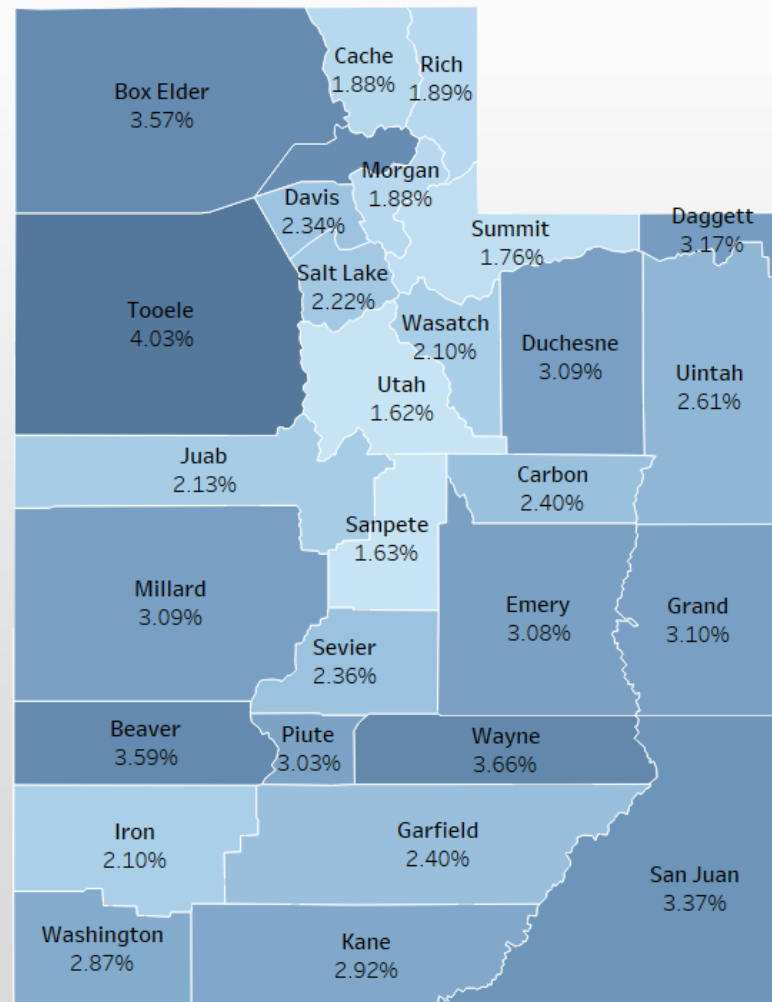


FAFSA Applicants Who Failed to Enroll, by County, 2017

Recent High School Graduates Who Were FAFSA Applicants as a Percent of 18 Year Olds



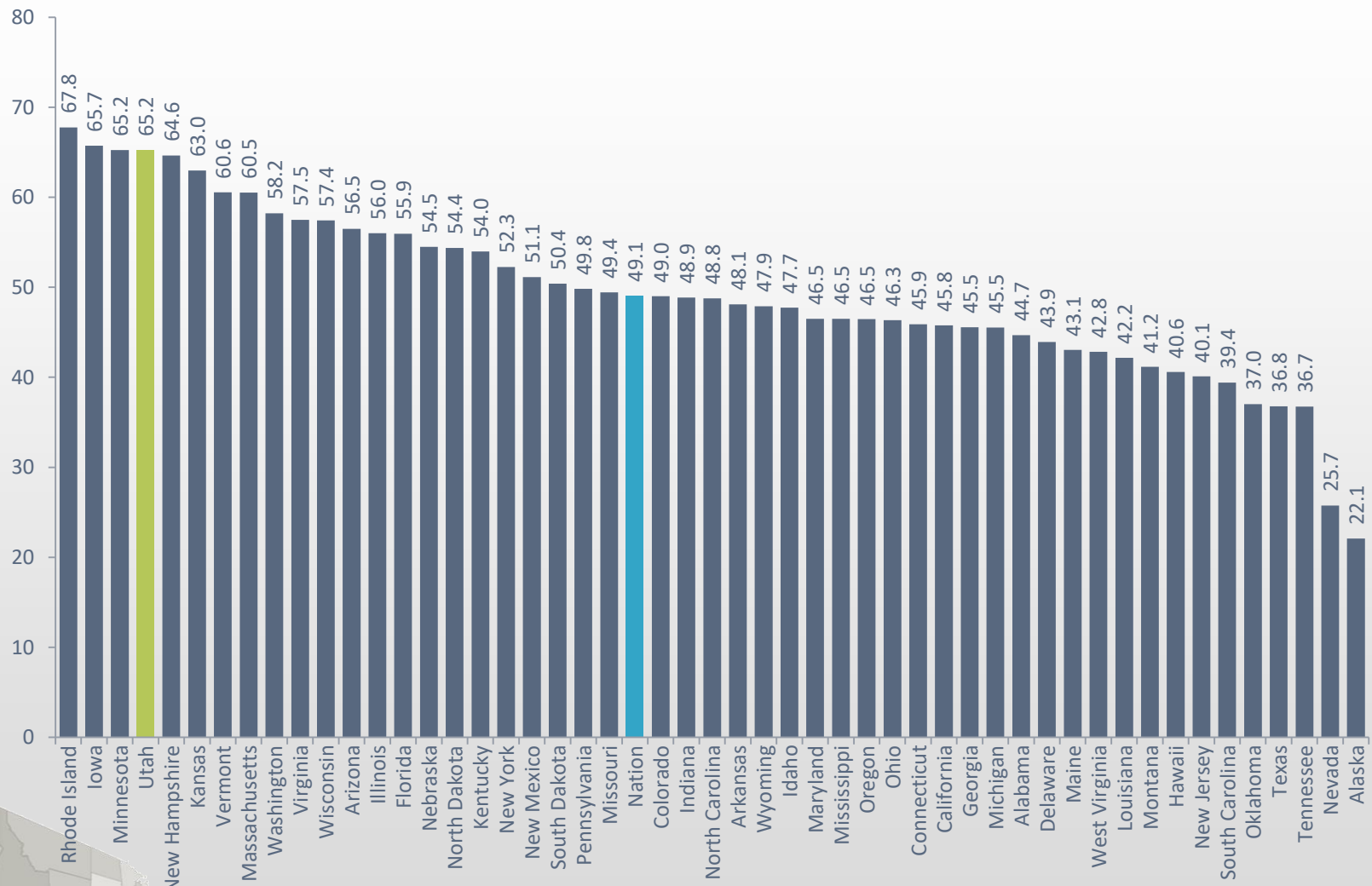
All FAFSA Applicants as a Percent of 18-34 Year Olds



Completion



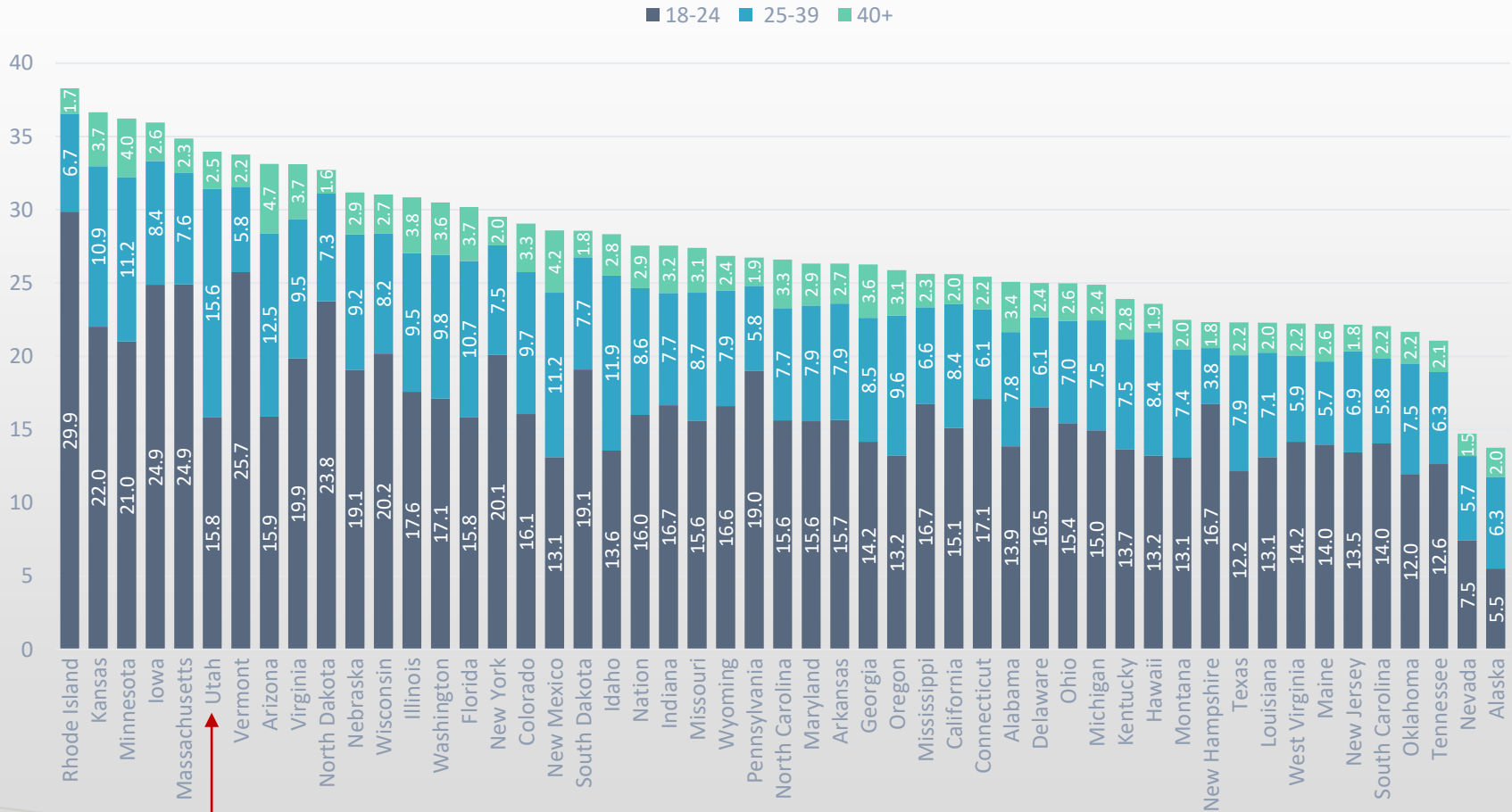
Undergraduate Awards per 1,000 Population Age 18-44 with No College Degree, 2015-16



Sources: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File; U.S. Census Bureau, 2016 American Community Survey; Table B15001



Undergraduate Credentials Awarded per 1,000 Adults without College Degrees

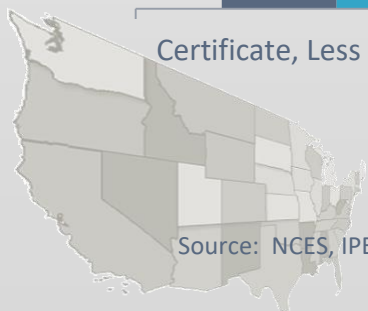
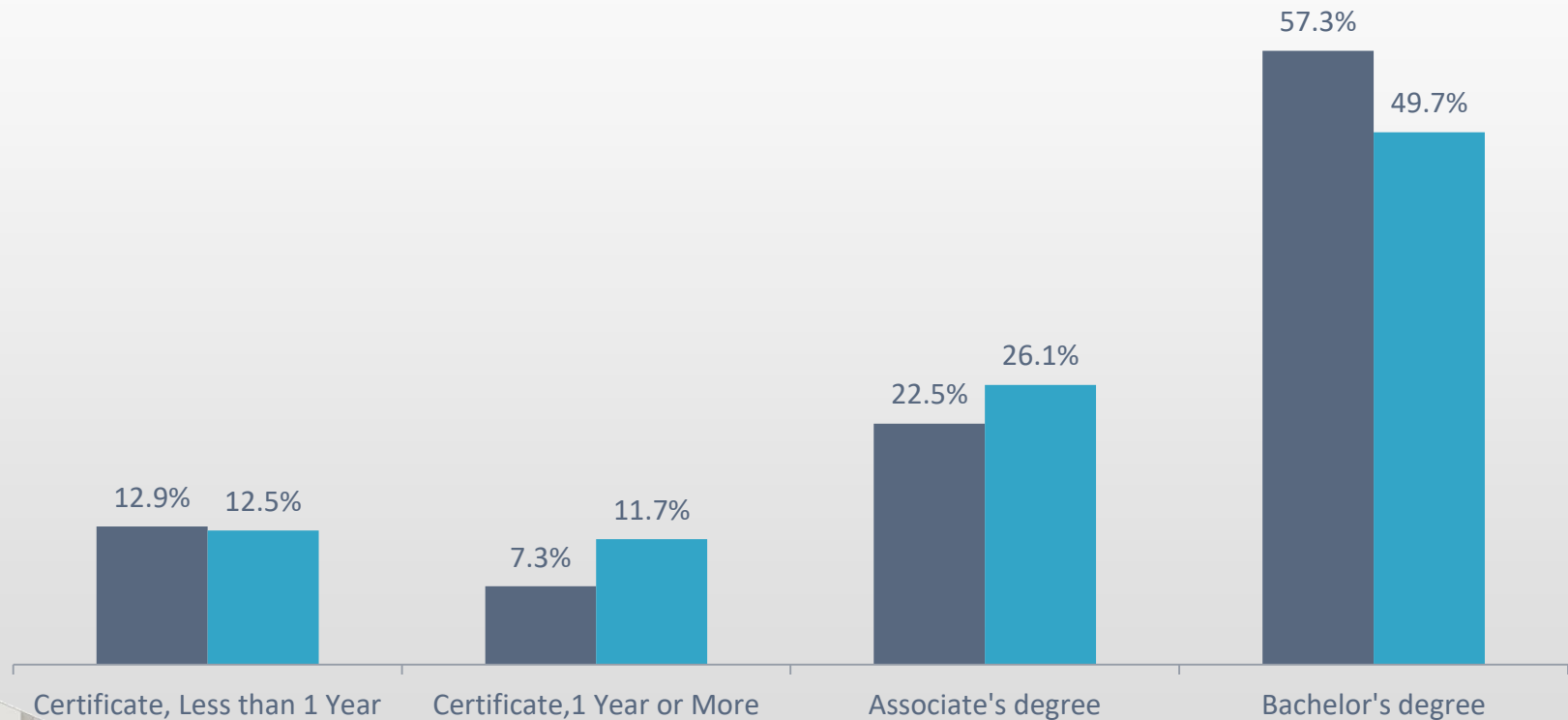


Source: NCES, IPEDS 2015-16 Completions File; c2016_c Provisional Release Data File; U.S. Census Bureau, 2016 American Community Survey; Table B15001



Proportion (%) of Undergraduate Awards by Level (2015-16)

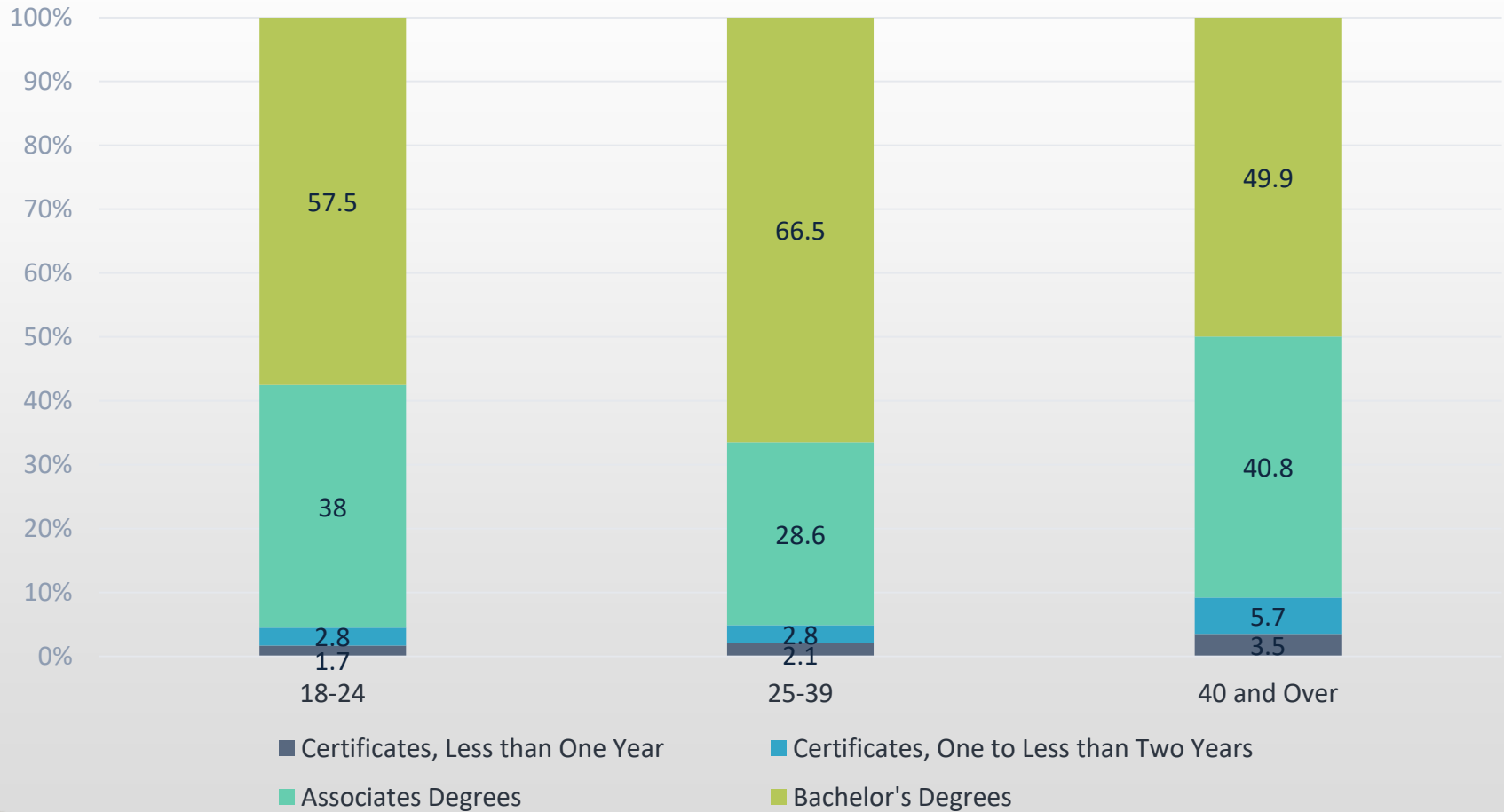
■ Utah ■ Nation



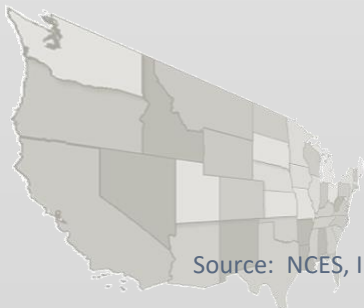
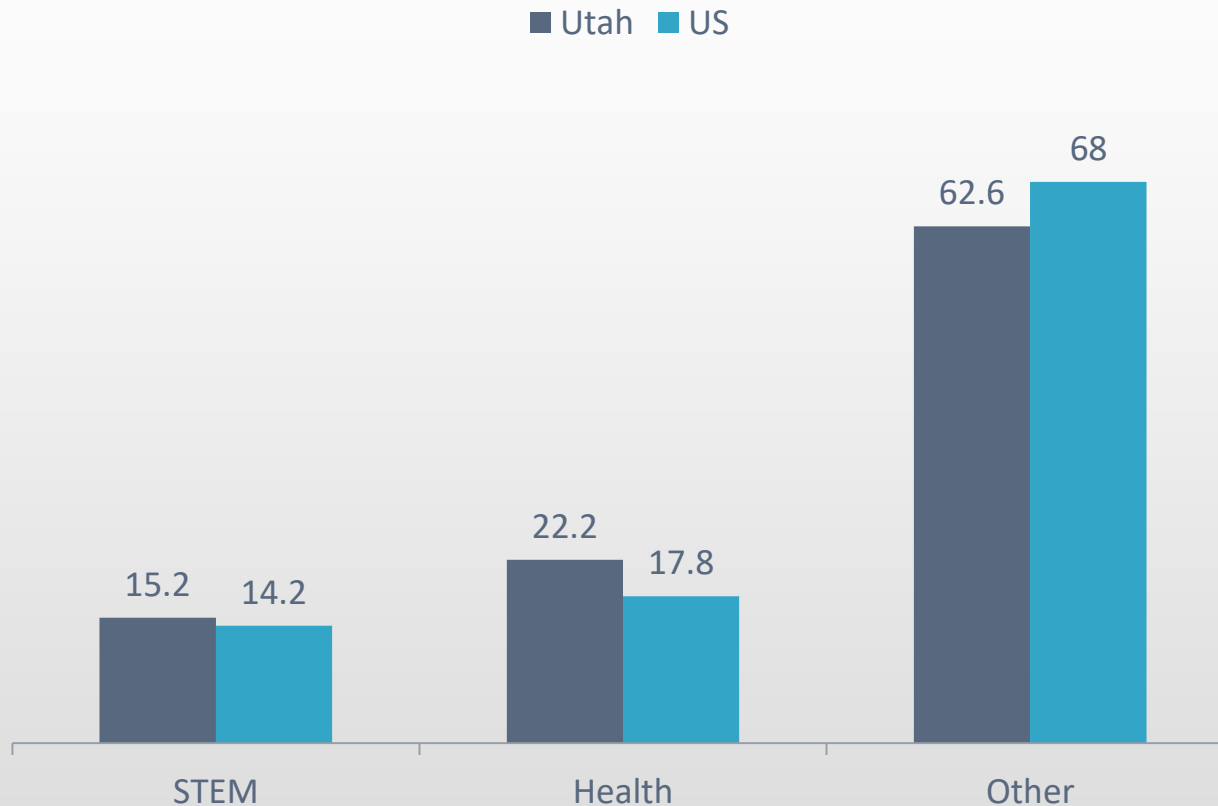
Source: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File.



Percentage of Undergraduate Credentials Awarded by Age-Group, Utah, 2015-16



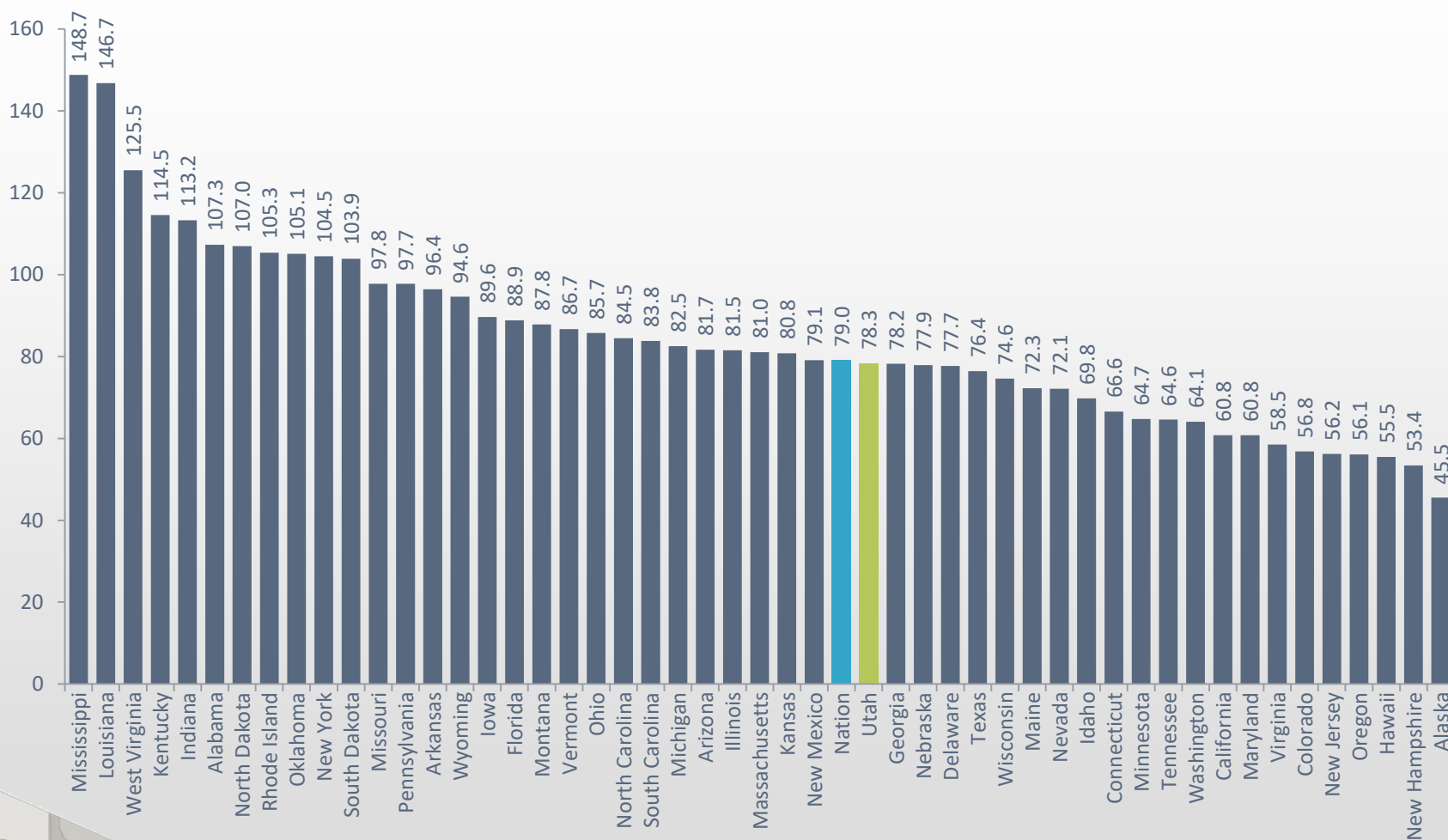
Proportion (%) of Undergraduate Credentials Awarded by Type - STEM, Health, and Other (2015-16)



Source: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File.



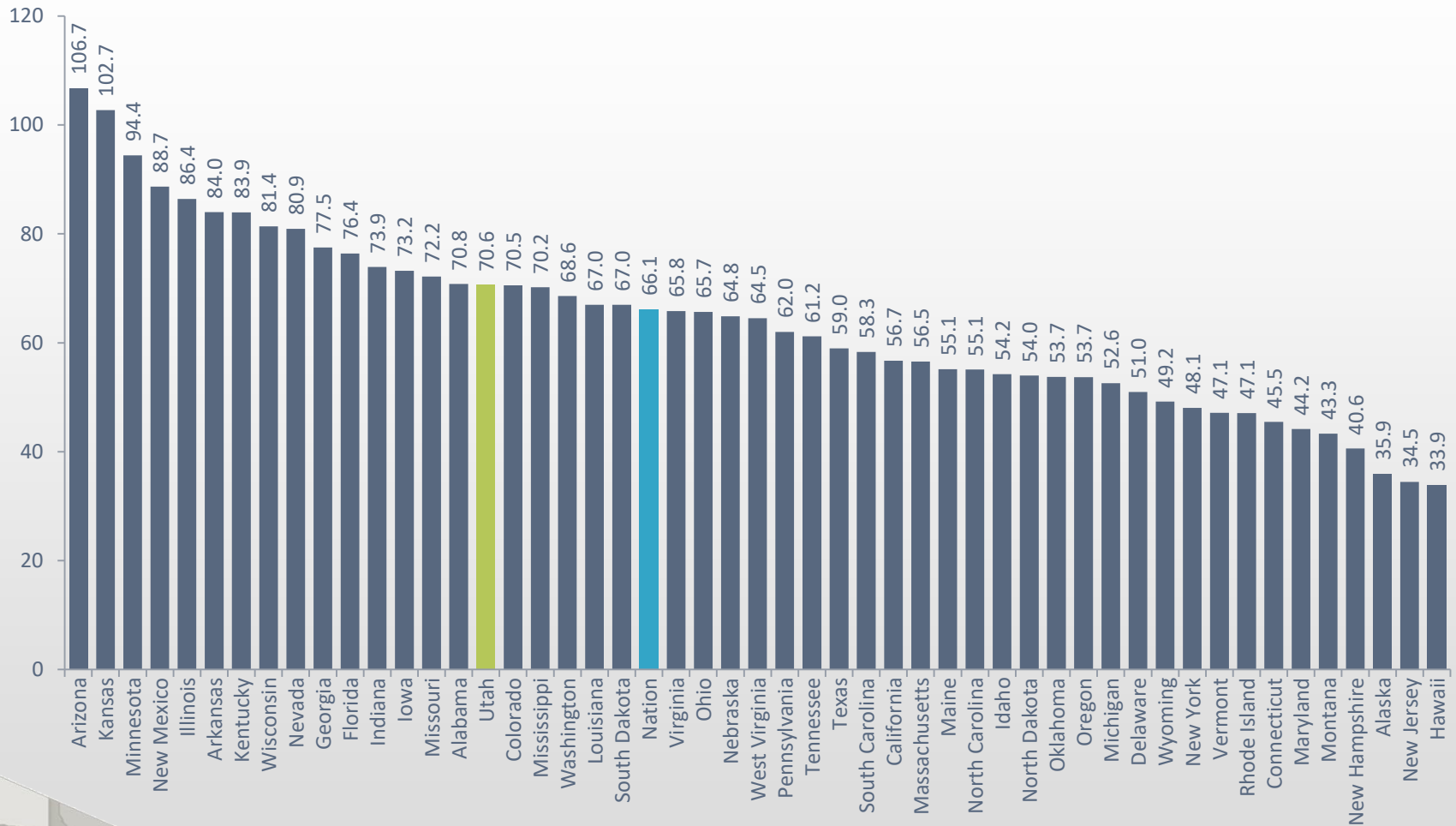
STEM Credentials Awarded per 1,000 STEM Employees (2015-16)



Source: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File; U.S. Census Bureau, 2016 American Community Survey.



Health Credentials Awarded per 1,000 Health Employees (2015-16)



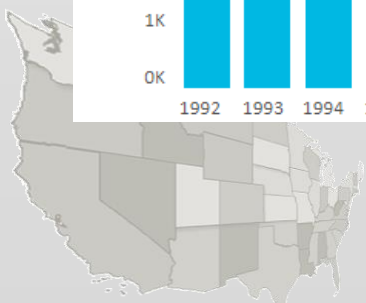
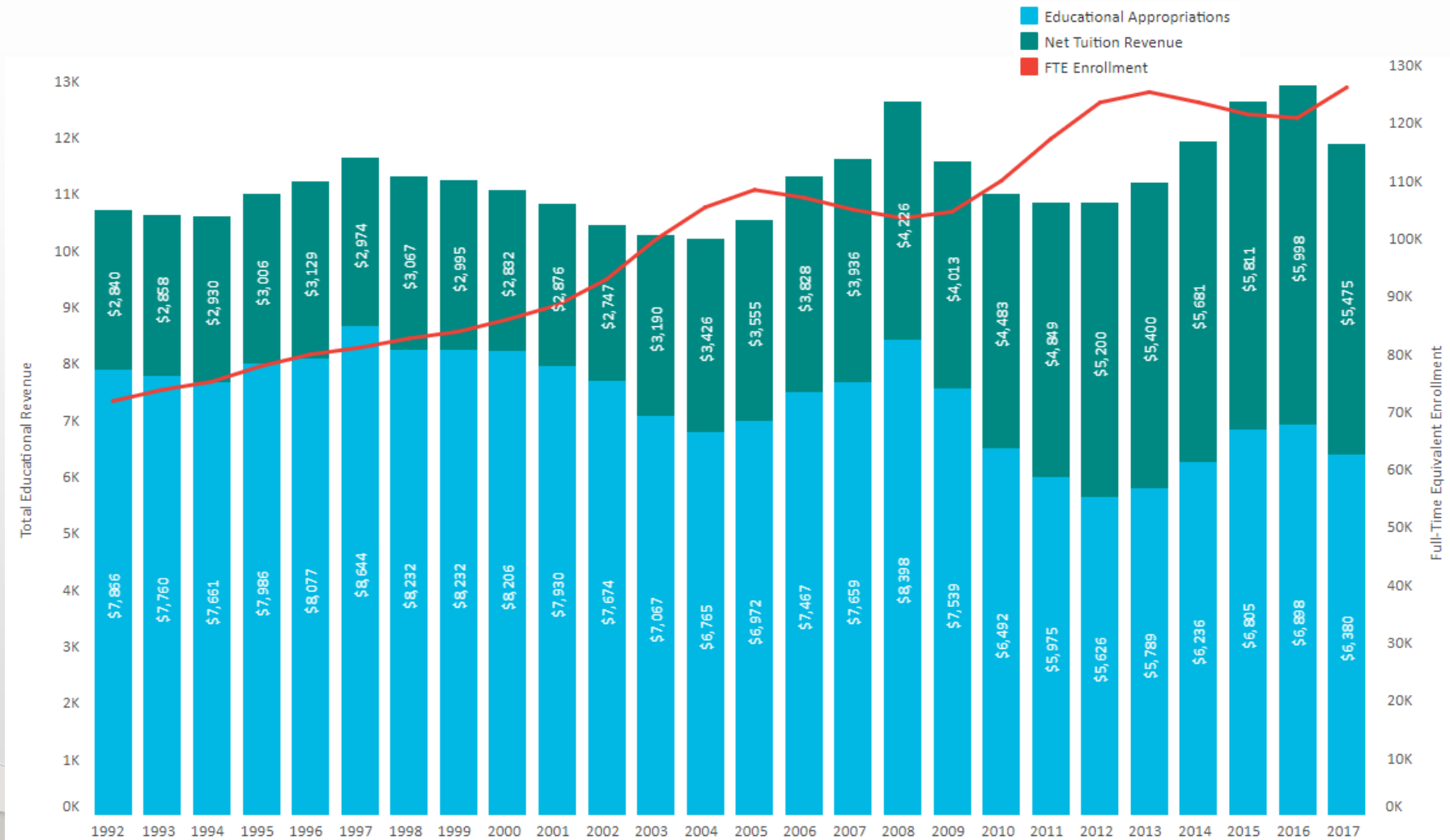
Source: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File.
U.S. Census Bureau, 2016 American Community Survey.



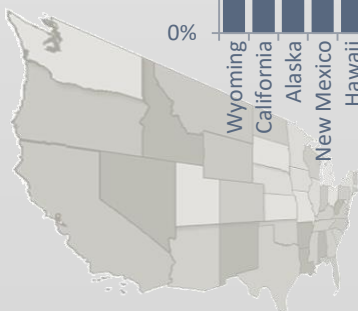
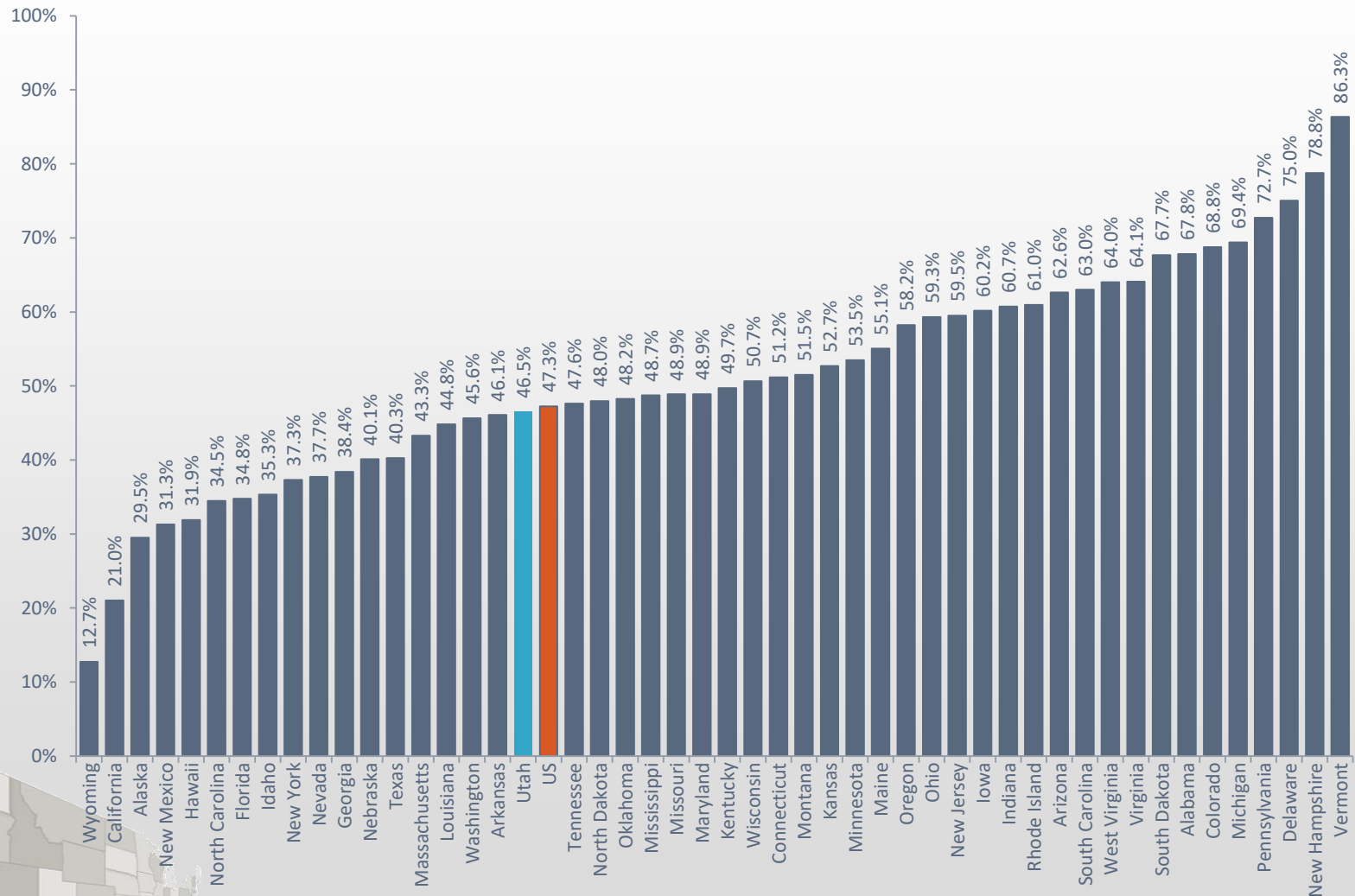
Finance & Productivity



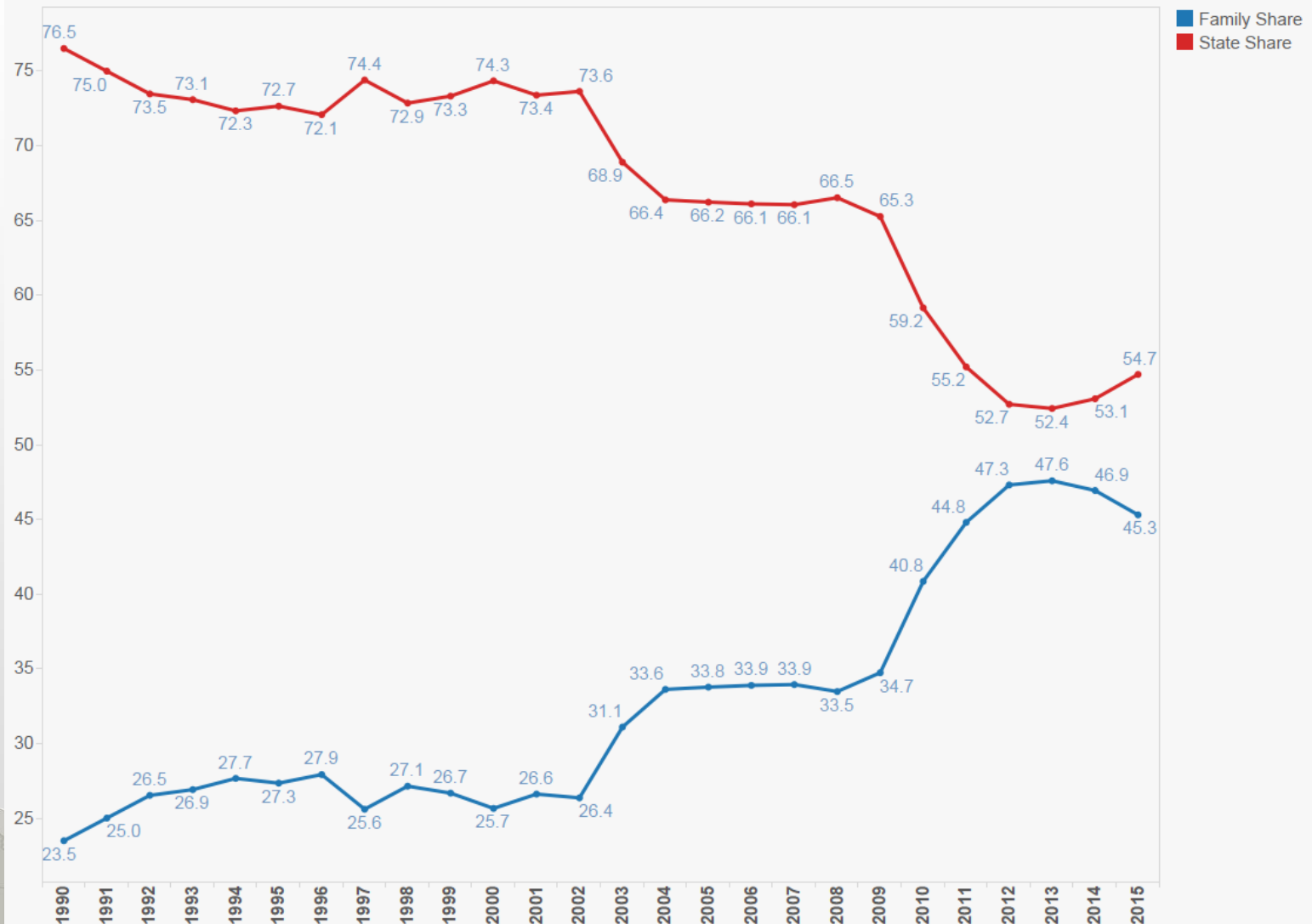
Public FTE Enrollment and Educational Appropriations per FTE, Utah, FY 1992-2017



Net Tuition as a Percent of Public Higher Education Total Educational Revenue by State, FY 2016



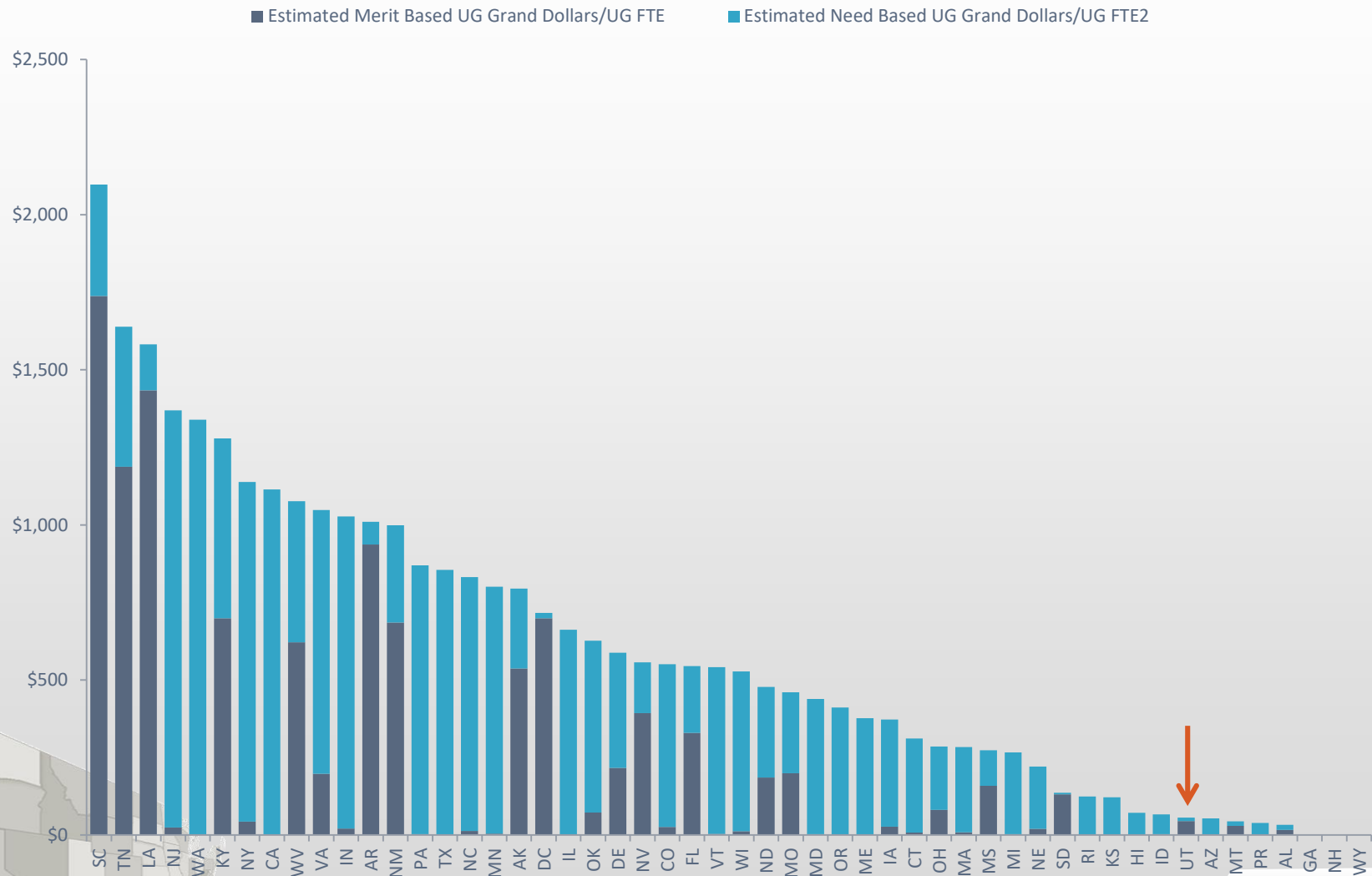
Family Share of Public Higher Education Operating Revenues, Utah



Source: SHEEO



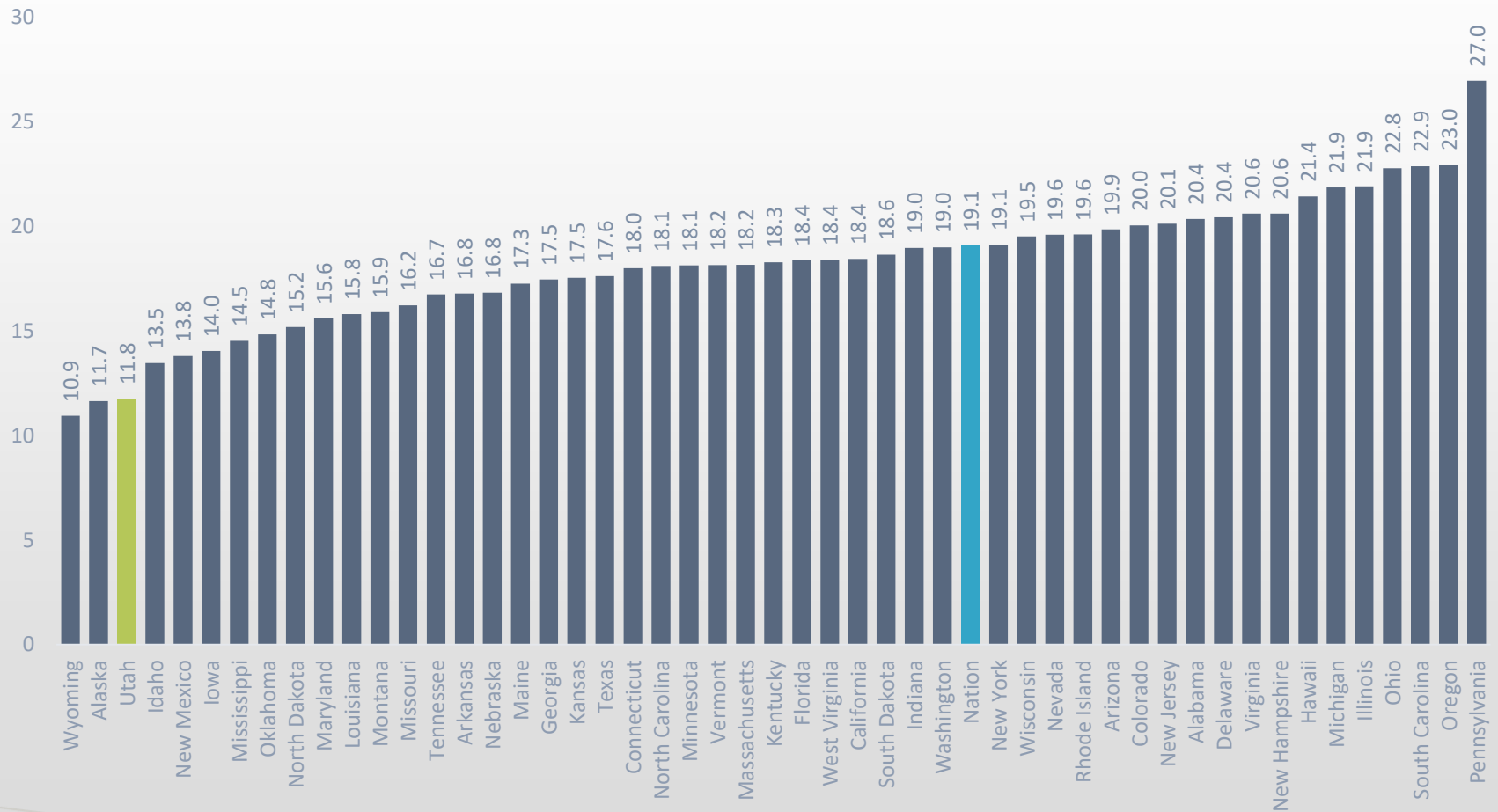
Need- and Merit-Based Grant Dollars per FTE, 2015-16 by State



Source: NASSGAP 47th Annual Survey Report on State-Sponsored Student Financial Aid, 2015-16 Academic Year



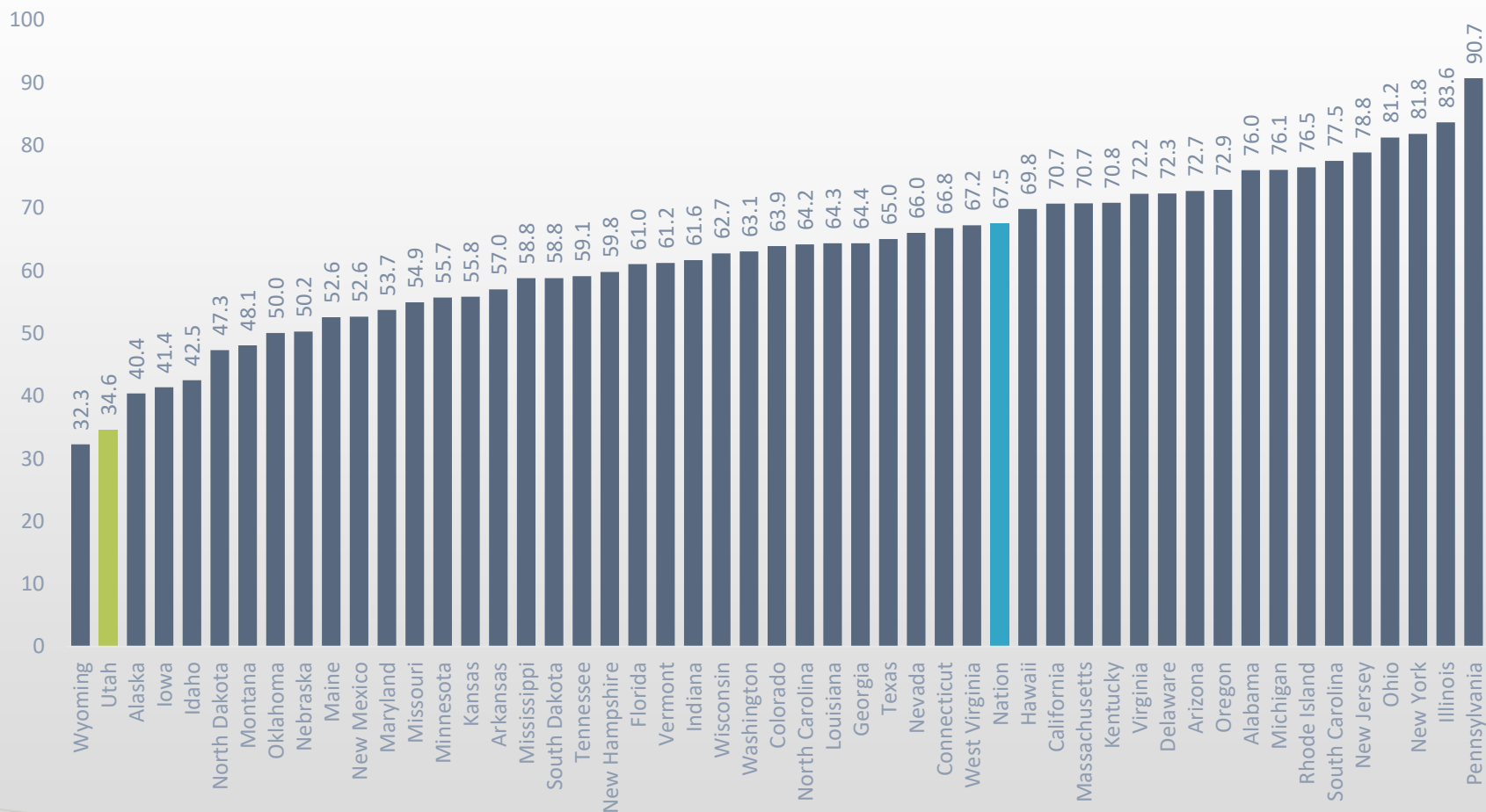
Net Cost as a Percent of Median Family Income, Public 4-Year Institutions, 2015-16



Source: NCES, IPEDS Institutional Characteristics Files; hd2016 and ic2016_ay Provisional Release Data Files; NCES, IPEDS Fall 2015 Enrollment File; ef2015a Provisional Release Data File; NCES, IPEDS Academic Year 2015-16 Student Financial Aid File; sfa1516 Provisional Release Data File; U.S. Census Bureau, 2016 American Community Survey (ACS) One-Year Public Use Microdata Sample (PUMS) File.



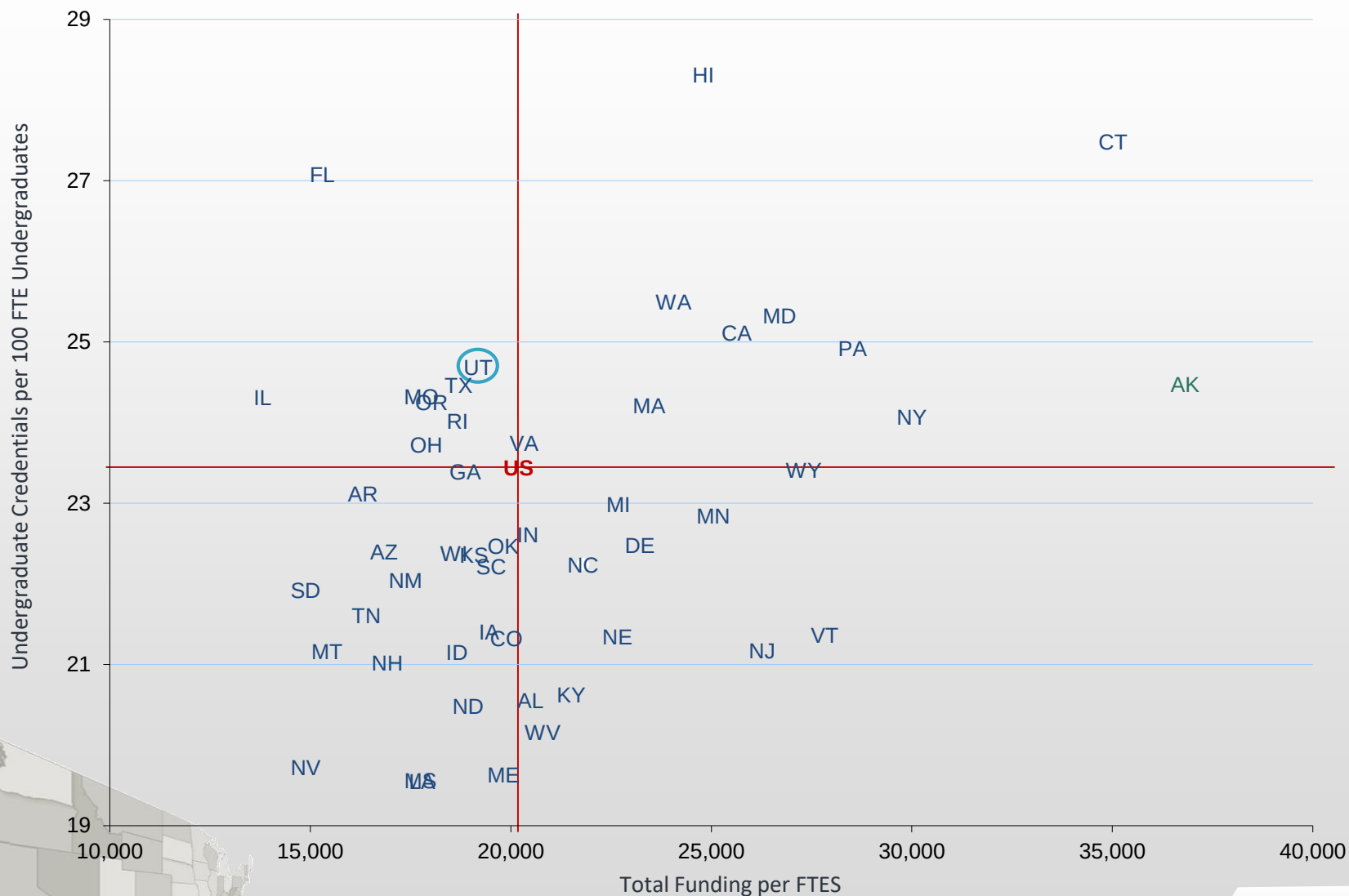
Net Cost as a Percent of Lowest Quintile Family Income, Public 4-Year Institutions, 2015-16



Source: NCES, IPEDS Institutional Characteristics Files; hd2016 and ic2016_ay Provisional Release Data Files; NCES, IPEDS Fall 2015 Enrollment File; ef2015a Provisional Release Data File; NCES, IPEDS Academic Year 2015-16 Student Financial Aid File; sfa1516 Provisional Release Data File; U.S. Census Bureau, 2016 American Community Survey (ACS) One-Year Public Use Microdata Sample (PUMS) File.



Public Research Institutions: Undergraduate Credentials per 100 FTE Undergraduates and Total Funding per FTE Student, 2015-16



Sources: NCES, IPEDS 2015-16 Provisional Release Finance Files; f1516_f1a, f1516_f2, and f1516_f3 Finance Files; NCES, IPEDS 2015-16 Instructional Activity File; efia2016 Provisional Release Data File.; NCES, IPEDS 2015-16 Institutional Characteristics File; hd2016 Provisional Release Data File. Source: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File.; NCES, IPEDS 2015-16 Instructional Activity File; efia2016 Provisional Release Data File.



Public Bachelors & Masters Institutions: Undergraduate Credentials per 100 FTE Undergraduates and Total Funding per FTE Student, 2015-16



Sources: NCES, IPEDS 2015-16 Provisional Release Finance Files; f1516_f1a, f1516_f2, and f1516_f3 Finance Files; NCES, IPEDS 2015-16 Instructional Activity File; efia2016 Provisional Release Data File.; NCES, IPEDS 2015-16 Institutional Characteristics File; hd2016 Provisional Release Data File. Source: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File.; NCES, IPEDS 2015-16 Instructional Activity File; efia2016 Provisional Release Data File.



Public 2-Year Institutions: Undergraduate Credentials per 100 FTE Undergraduates and Total Funding per FTE Student, 2015-16



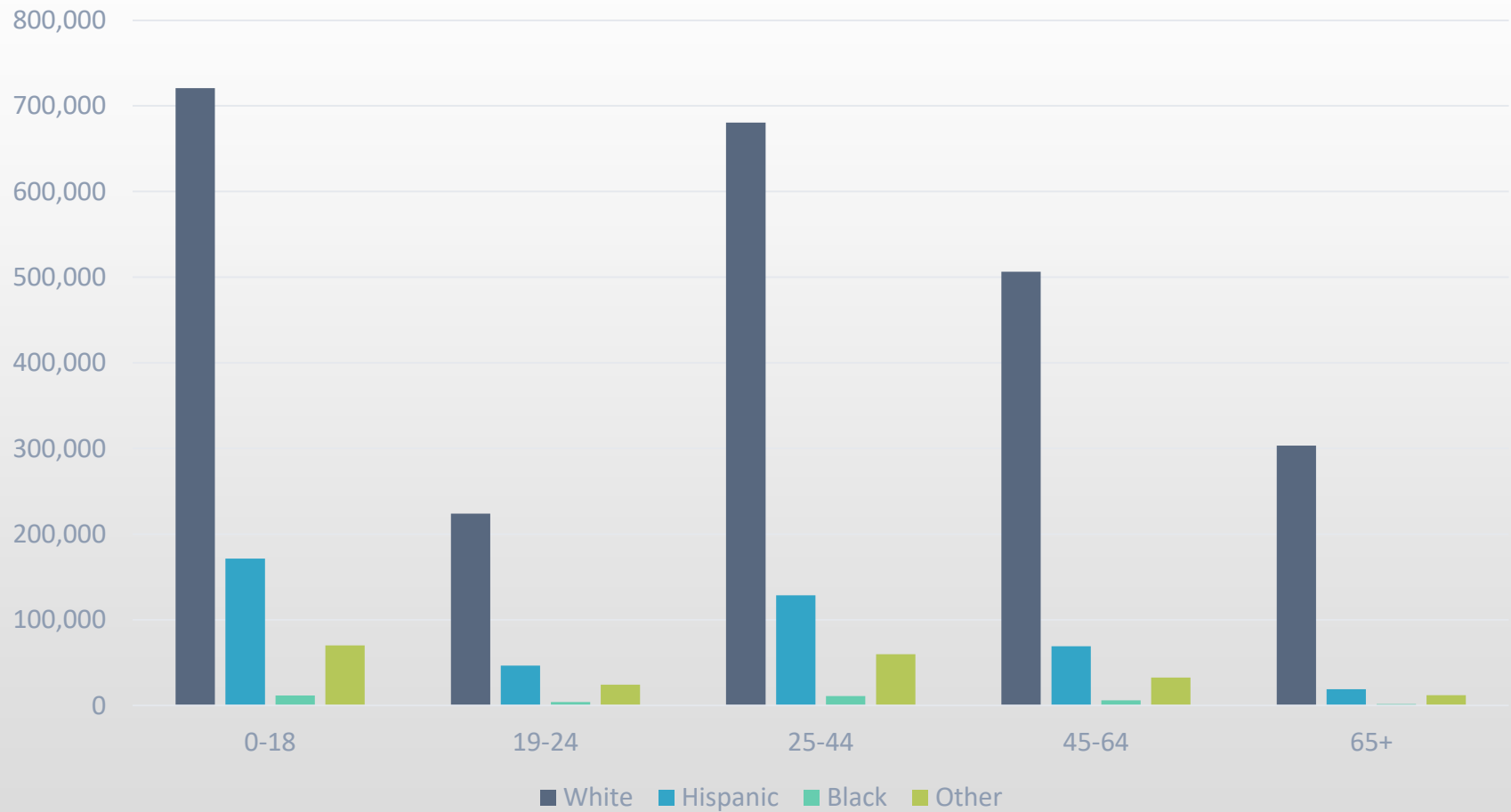
Sources: NCES, IPEDS 2015-16 Provisional Release Finance Files; f1516_f1a, f1516_f2, and f1516_f3 Finance Files; NCES, IPEDS 2015-16 Instructional Activity File; efia2016 Provisional Release Data File.;NCES, IPEDS 2015-16 Institutional Characteristics File; hd2016 Provisional Release Data File. Source: NCES, IPEDS 2015-16 Completions File; c2016_a Provisional Release Data File.; NCES, IPEDS 2015-16 Instructional Activity File; efia2016 Provisional Release Data File.



Demographic, Economic, and Workforce Conditions



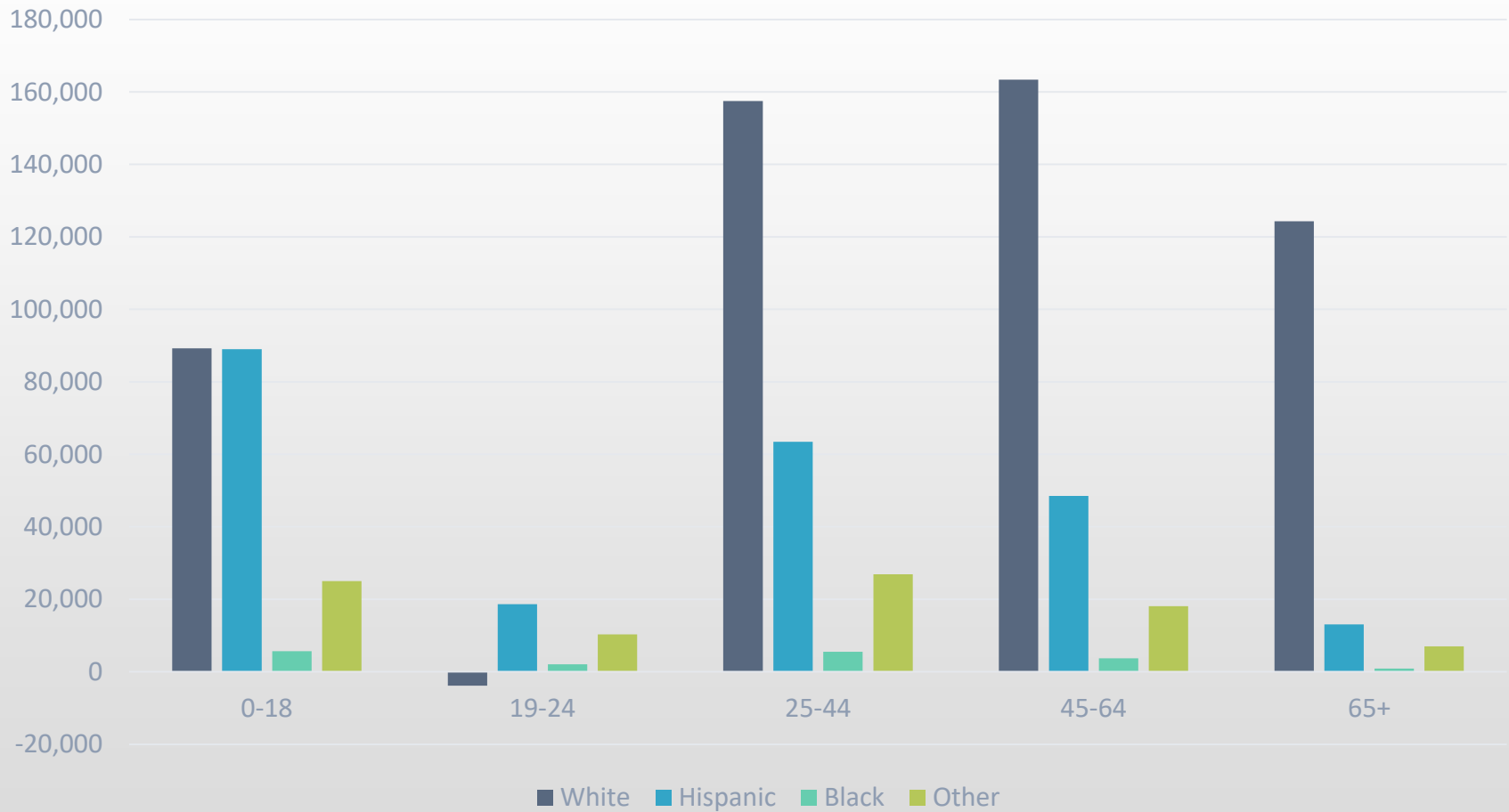
Utah Population by Age & Race, 2017



Source: U.S. Census Bureau, Population Division; SC-EST2017-ALLDATA6: Annual State Resident Population Estimates for 6 Race Groups (5 Race Alone Groups and Two or More Races) by Age, Sex, and Hispanic Origin: April 1, 2010 to July 1, 2017; File: 7/1/2017 State Characteristics Population Estimates; Release Date: June 2018



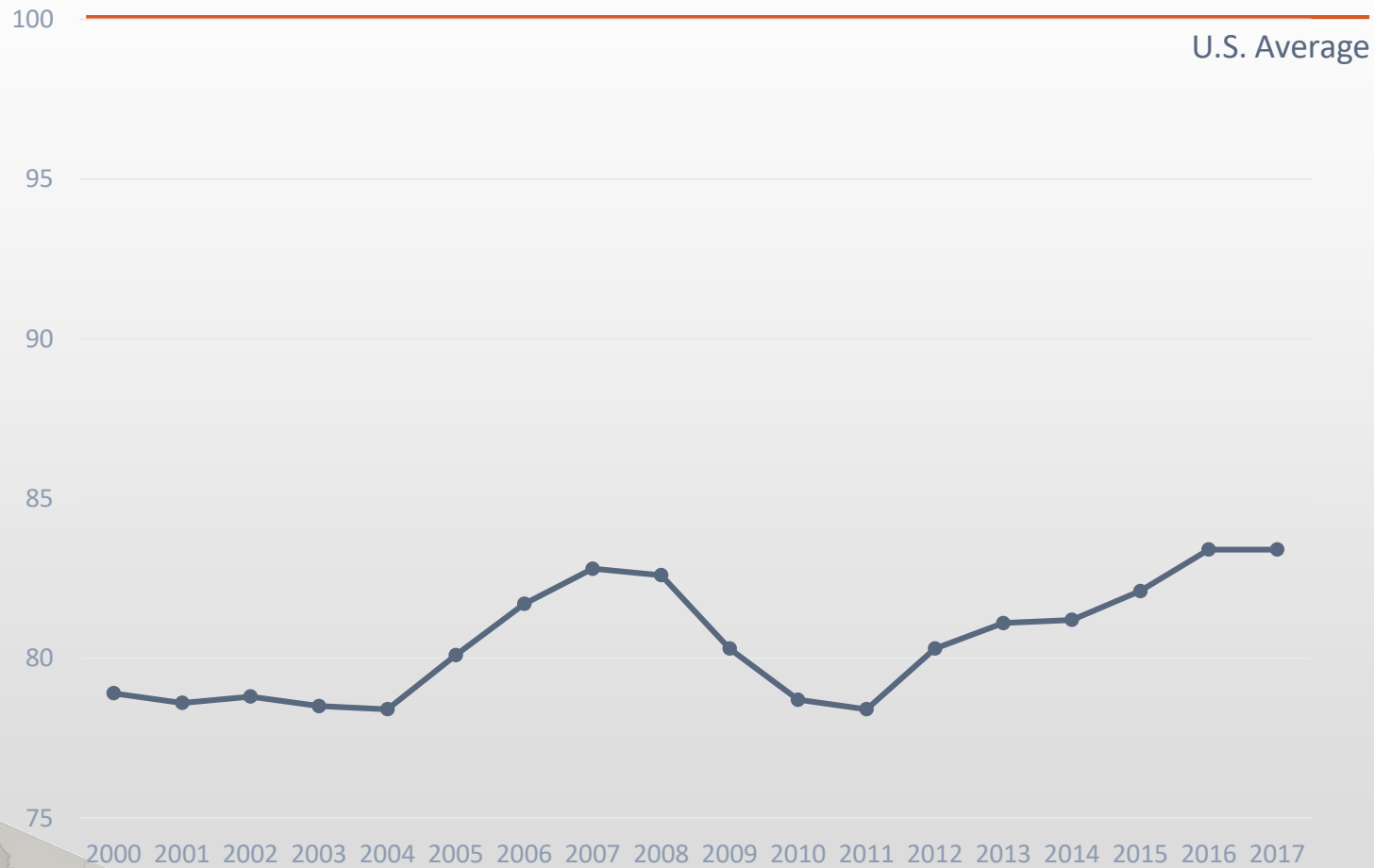
Change in Utah Population by Age & Race, 2007-2017



Source: U.S. Census Bureau, 2000 Census; Summary File 1; U.S. Census Bureau, Population Division; SC-EST2017-ALLDATA6: Annual State Resident Population Estimates for 6 Race Groups (5 Race Alone Groups and Two or More Races) by Age, Sex, and Hispanic Origin: April 1, 2010 to July 1, 2017; File: 7/1/2017 State Characteristics Population Estimates; Release Date: June 2018



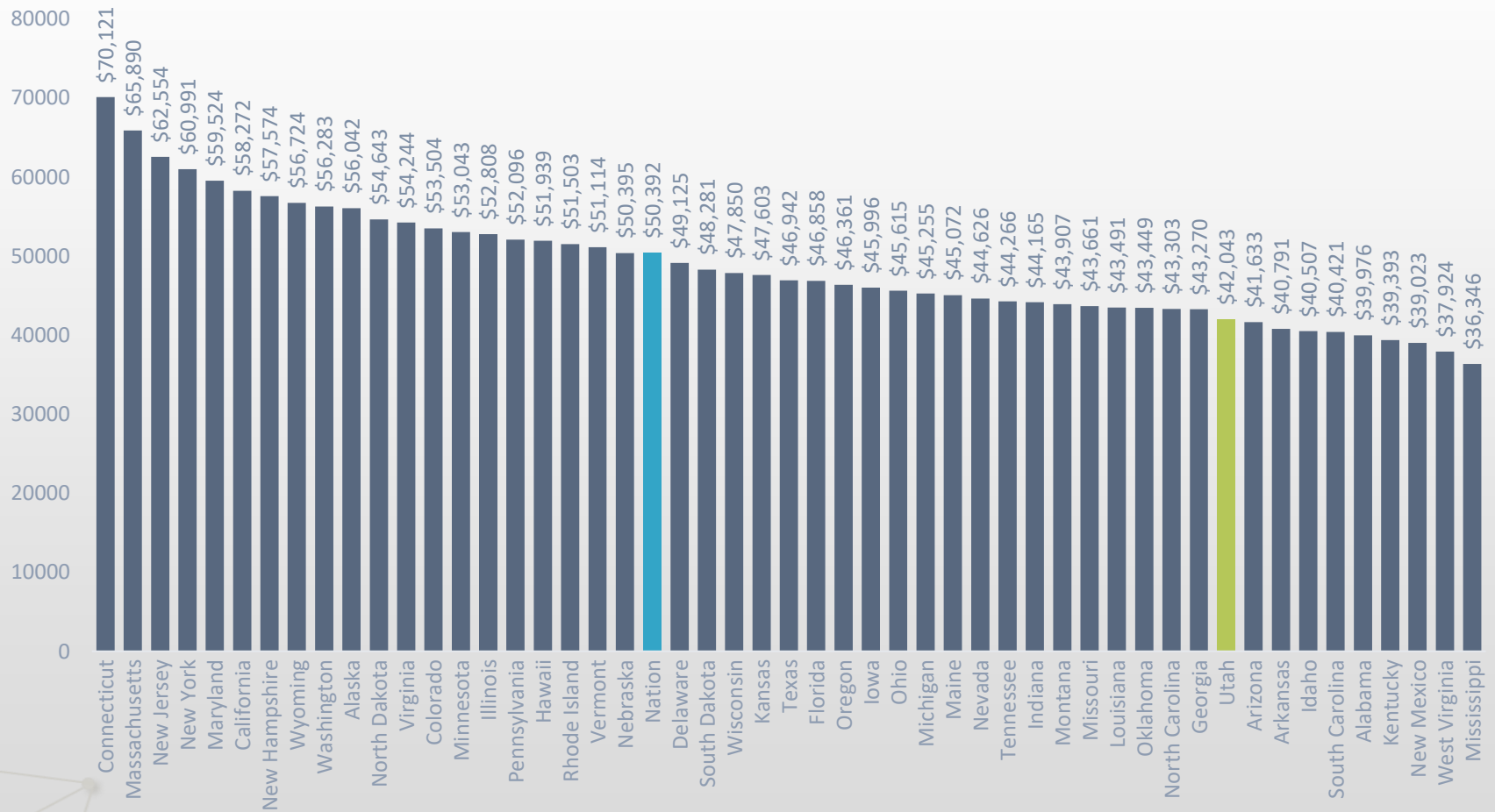
Trend in Per Capita Income as a Percent of US Average, Utah



Source: Bureau of Economic Analysis



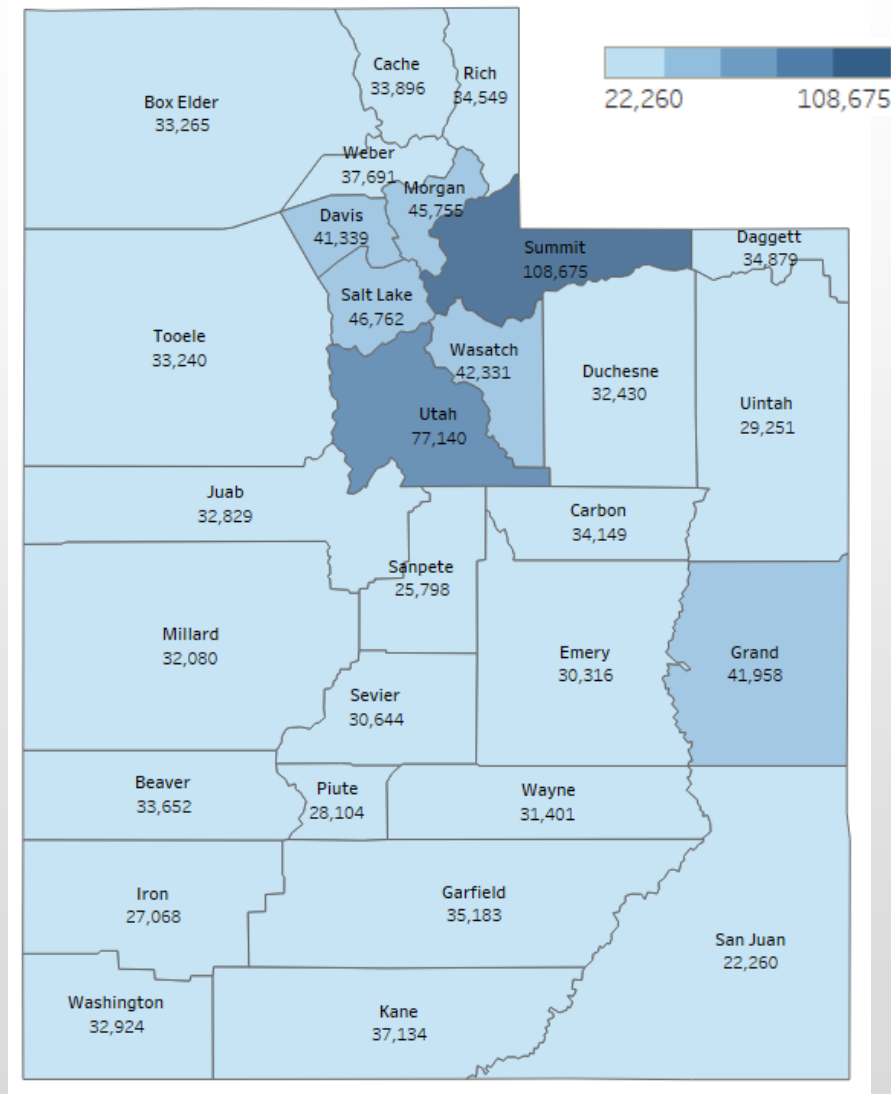
Per Capita Income by State, 2017



Source: Bureau of Economic Analysis



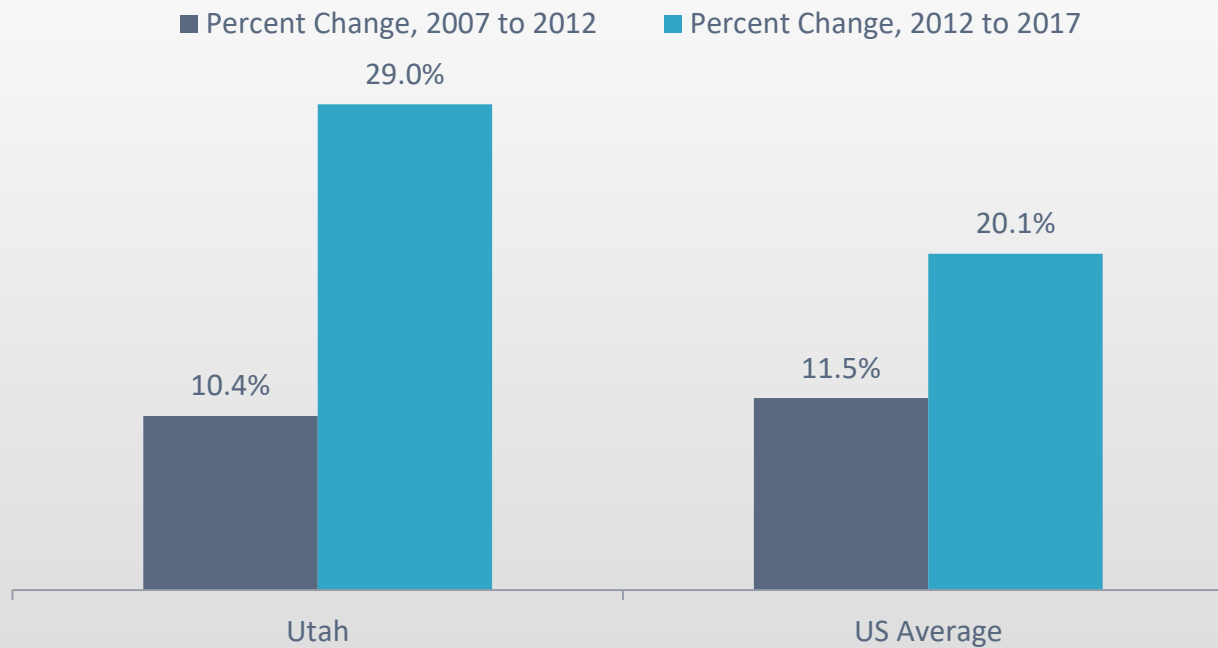
Per Capita Income by County, Utah (2016)



Source: Bureau of Economic Analysis



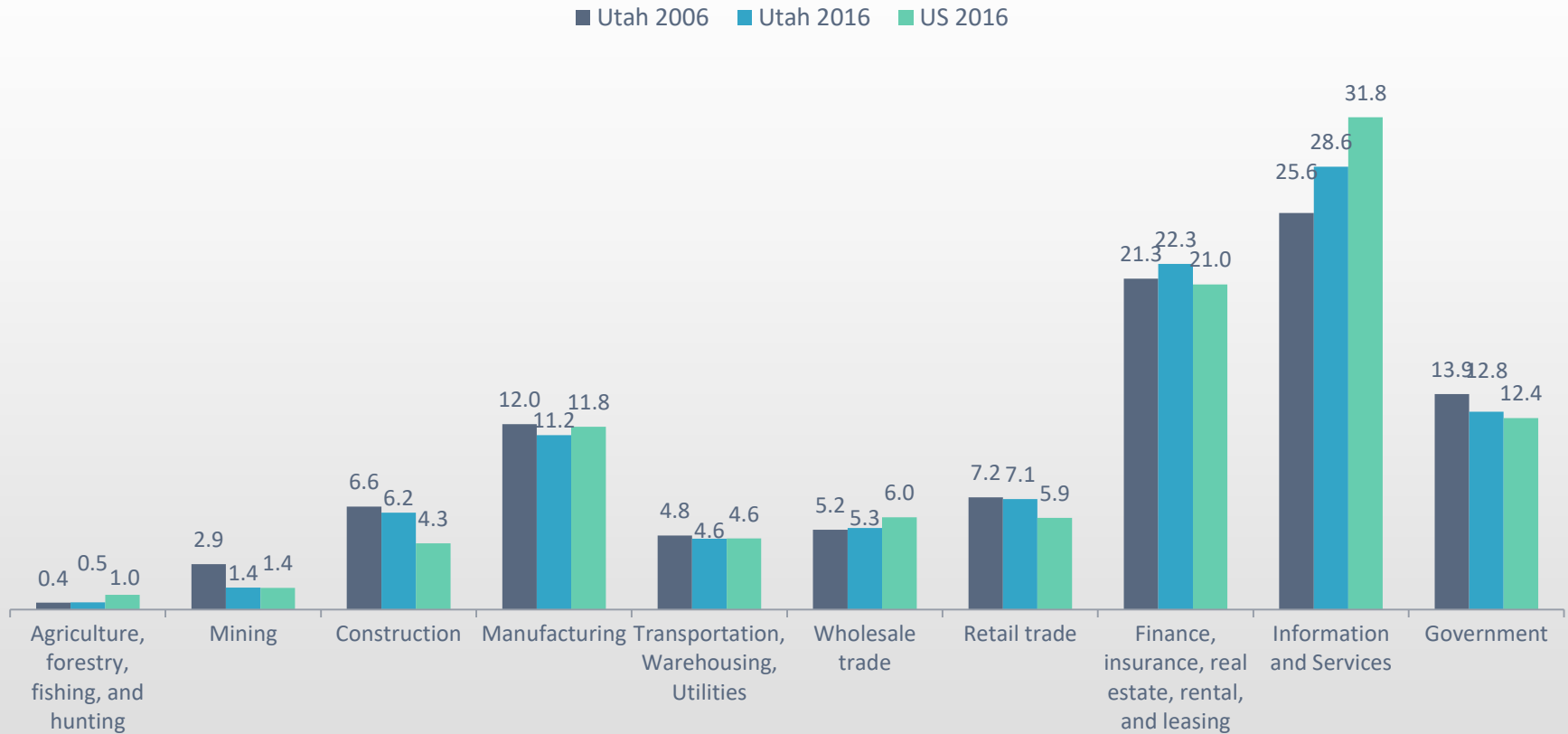
Percent Change in GDP, Utah & US



Source: Bureau of Economic Analysis



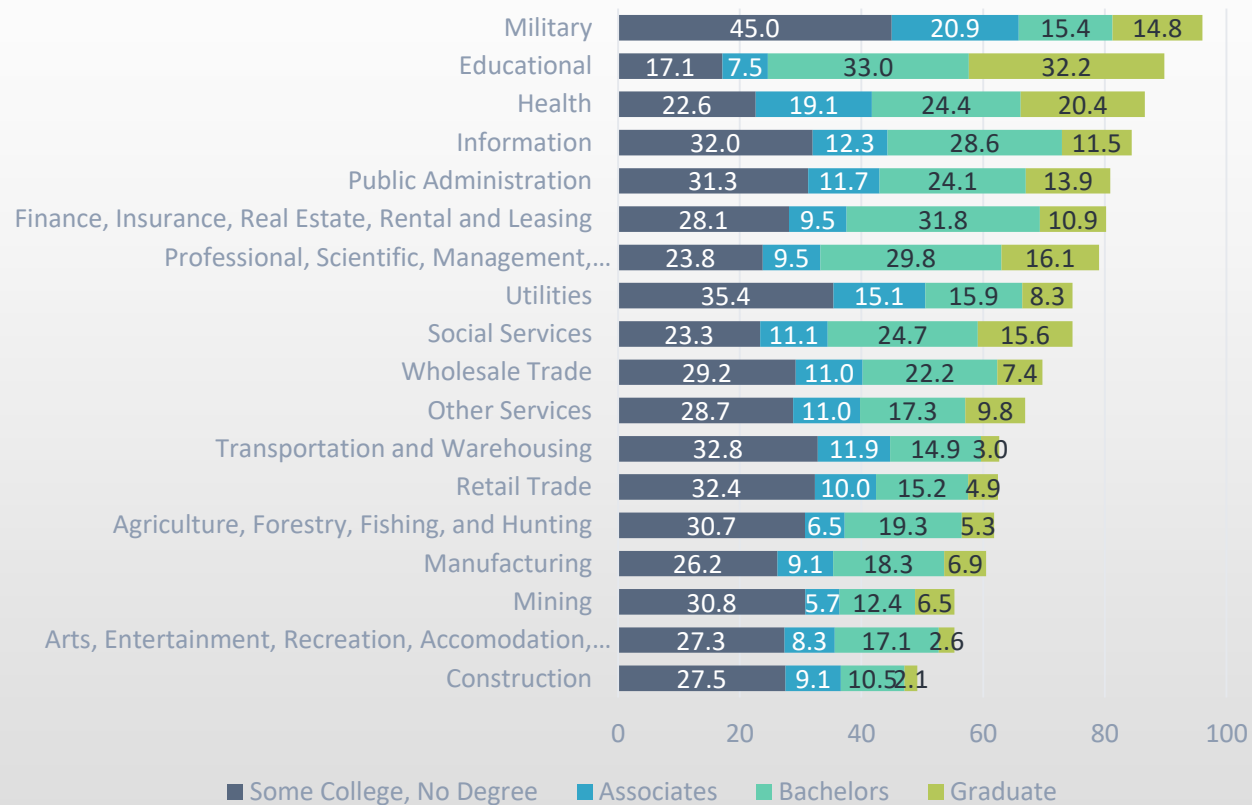
Percent of Total Gross State Product by Industry and Comparison to U.S.



Source: Bureau of Economic Analysis.



College Attainment by Industry (2012-16)



Source: 2012-16 American Community Survey (Public Use Microdata Sample)



Non Agricultural Jobs by Industry, State of Utah, 2007 and 2017

Industry	2007	2017	2017 Percent of Total	2007-2017 Change	Percent Growth
Total Non Agricultural Wage and Salary Jobs	1,251,233	1,469,068		217,835	17%
Government	76,410	79,402	5%	2,992	4%
Trade, Transportation & Utilities	259,098	293,394	20%	34,296	13%
Leisure & Hospitality	117,737	150,336	10%	32,599	28%
Education & Health Services	247,717	336,127	23%	88,410	36%
Natural Resources & Mining & Construction	115,648	107,305	7%	-8,343	-7%
Financial Activities	75,288	84,810	6%	9,522	13%
Other Services	36,149	40,731	3%	4,582	13%
Manufacturing	127,708	129,231	9%	1,523	1%
Information	33,681	39,770	3%	6,089	18%
Professional & Business Services	161,797	207,962	14%	46,165	29%



Utah Average Annual Employment by Major Industry Group and Number of Workers with a College Degree – 2012-16

Industry Title	Total Number Employed	Number Employed with a College Credential	Percent with a College Credential
Manufacturing	120,949	41459	34.3
Professional, Scientific, Management, Administrative, Waste Management Services	119,248	65971	55.3
Educational	110,397	80246	72.7
Retail Trade	107,909	32484	30.1
Health	104,599	66963	64.0
Finance, Insurance, Real Estate, Rental and Leasing	71,224	37155	52.2
Construction	70,672	15323	21.7
Arts, Entertainment, Recreation, Accommodation, Food Services	63,682	17794	27.9
Public Administration	60,417	29994	49.6
Transportation and Warehousing	45,274	13505	29.8
Other Services	37,032	14136	38.2
Wholesale Trade	29,103	11802	40.6
Information	24,115	12650	52.5
Mining	13,413	3291	24.5
Social Services	12,524	6433	51.4
Utilities	8,560	3365	39.3
Agriculture, Forestry, Fishing, and Hunting	7,334	2281	31.1
Military	2,882	1473	51.1
Total	1,009,334	456325	45.2

Source: U.S. Census Bureau, 2012-16 American Community Survey (ACS) Public Use Microdata Sample (PUMS) File.



Utah Average Annual Employment by Major Occupation Group and Number of Workers with a College Degree – 2012-16

Industry Title	Total Number Employed	Number Employed with a College Credential	Percent with a College Credential
Managerial	118,472	72,606	61.3
Education, Training, and Library	68,920	56,469	81.9
Office and Administrative Support	148,876	49,391	33.2
Healthcare Practitioners and Technical	56,735	48,454	85.4
Sales and Related	100,907	37,991	37.6
Computer and Mathematical	41,395	28,644	69.2
Financial Operations	28,221	21,331	75.6
Architecture and Engineering	22,803	17,088	74.9
Business	28,461	16,933	59.5
Arts, Entertainment, Design, Sports, and Media	18,599	12,918	69.5
Production	69,107	11,454	16.6
Community and Social Services	14,612	11,232	76.9
Transportation and Material Moving	58,582	9,953	17.0
Legal	10,614	8,937	84.2
Life, Physical, and Social Sciences	9,527	7,974	83.7
Installation, Maintenance, and Repair	34,882	7,699	22.1
Construction	52,208	6,935	13.3
Protective Services	17,752	6,798	38.3
Personal Care and Service	17,307	5,841	33.7
Healthcare Support	18,185	5,776	31.8
Food Preparation and Serving	33,676	5,450	16.2
Building, Grounds Cleaning and Maintenance	31,172	4,717	15.1
Military	1,500	794	52.9
Farming, Fishing, Forestry, and Hunting	3,751	636	17.0
Extraction	3,070	304	9.9
Total	1,009,334	456,325	45.2

Source: U.S. Census Bureau, 2012-16 American Community Survey (ACS) Public Use Microdata Sample (PUMS) File.

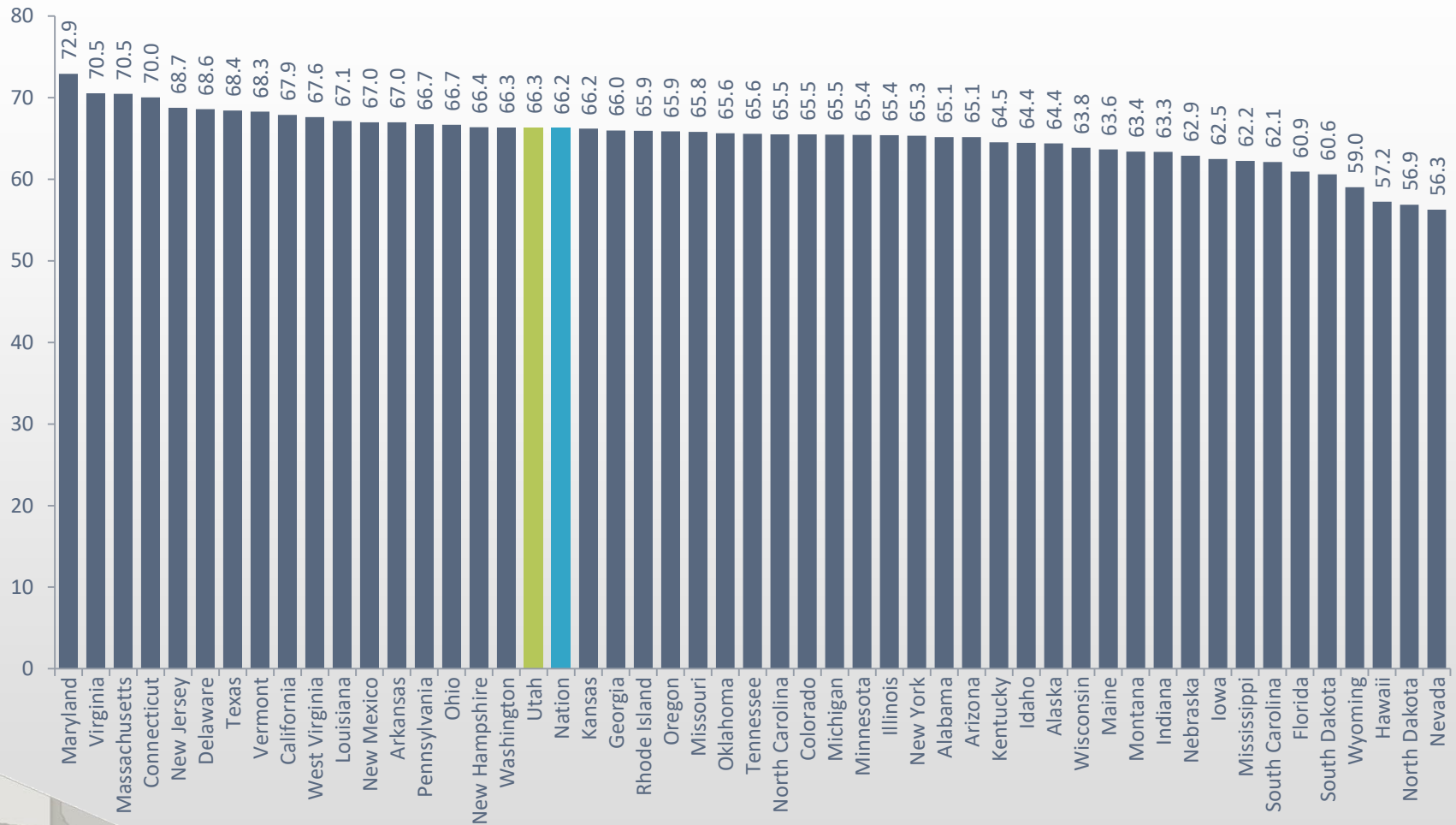


Occupational Employment & Growth, Utah, 2016-2026

Occupation Title	Employment, 2016	Employment 2026	Net Change	Percent Change	Average Annual Openings, Growth	Average Annual Openings, Replacement	Average Annual Openings, Total
Total, All	1,490,490	1,924,190	433,700	29.1	43,370	185,010	228,380
Office & Administrative Support	254,530	310,780	56,250	22.1	5,625	31,816	37,441
Sales & Related	150,100	182,510	32,410	21.6	3,241	22,054	25,295
Food Preparation & Serving Related	112,490	147,290	34,800	30.9	3,480	22,327	25,807
Management	97,400	126,930	29,530	30.3	2,953	8,657	11,610
Production	94,120	112,840	18,720	19.9	1,872	11,658	13,530
Construction & Extraction	93,310	131,290	37,980	40.7	3,799	11,277	15,076
Transportation & Material Moving	89,860	117,350	27,490	30.6	2,749	12,203	14,952
Education, Training, & Library	83,880	110,520	26,640	31.8	2,664	8,211	10,874
Business & Financial Operations	77,760	104,590	26,830	34.5	2,683	8,003	10,686
Healthcare Practitioners & Technical	70,560	94,700	24,140	34.2	2,415	4,320	6,734
Installation, Maintenance, & Repair	58,460	74,550	16,090	27.5	1,609	6,240	7,849
Building & Grounds Cleaning & Maintenance	51,780	67,170	15,390	29.7	1,539	7,374	8,913
Personal Care & Service	48,650	67,500	18,850	38.7	1,885	8,903	10,788
Computer & Mathematical	46,680	67,330	20,650	44.2	2,065	3,716	5,781
Healthcare Support	34,740	47,900	13,160	37.9	1,316	4,548	5,864
Architecture & Engineering	26,530	34,580	8,050	30.4	806	2,155	2,961
Arts, Design, Entertainment, Sports, & Media	26,480	35,120	8,640	32.6	864	2,949	3,813
Protective Service	23,020	27,980	4,960	21.5	496	2,914	3,410
Community & Social Service	21,230	27,990	6,760	31.9	677	2,650	3,327
Life, Physical, & Social Science	11,480	15,050	3,570	31.1	357	1,175	1,531
Legal	9,610	11,870	2,260	23.5	226	656	882
Farming, Fishing, & Forestry	7,840	8,370	530	6.7	53	1,206	1,259



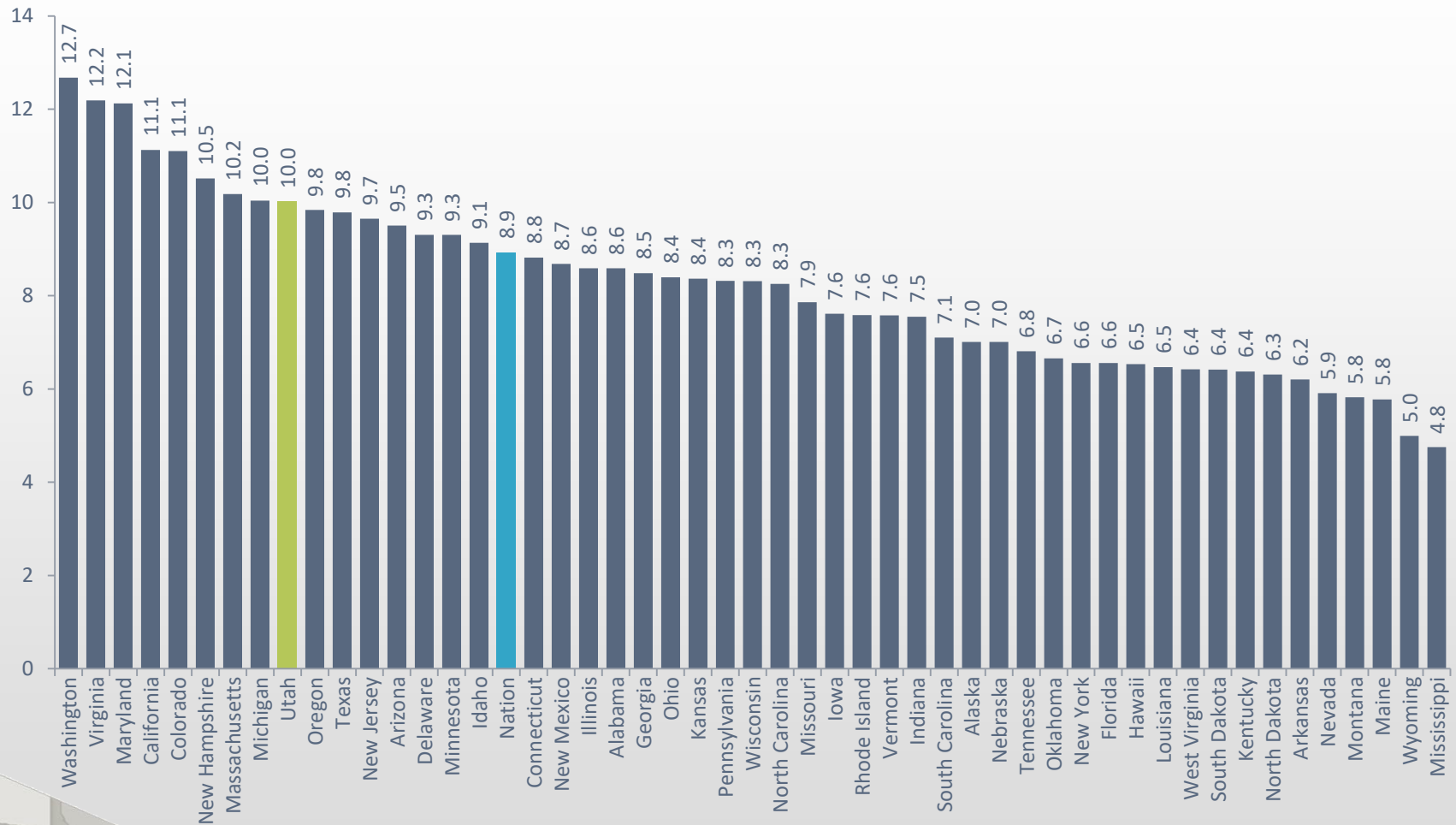
Percent of Adults Aged 25 to 64 with College Degrees Employed in Management and Professional Occupations (2012-16)



Source: 2012-16 American Community Survey (Public Use Microdata Sample)



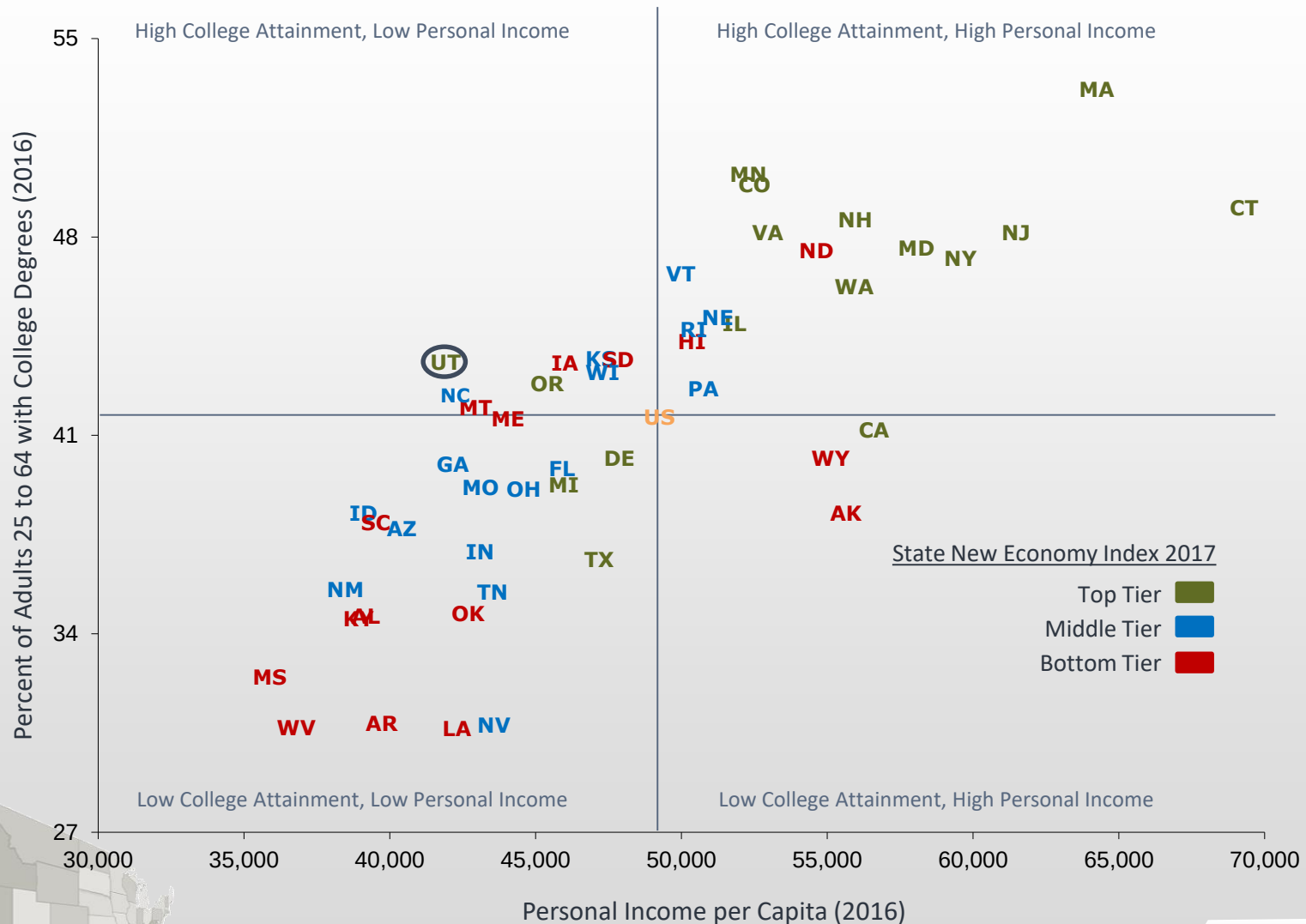
Percent of Adults Aged 25 to 64 with College Degrees Employed in High Tech Occupations (2012-16)



Source: 2012-16 American Community Survey (Public Use Microdata Sample)



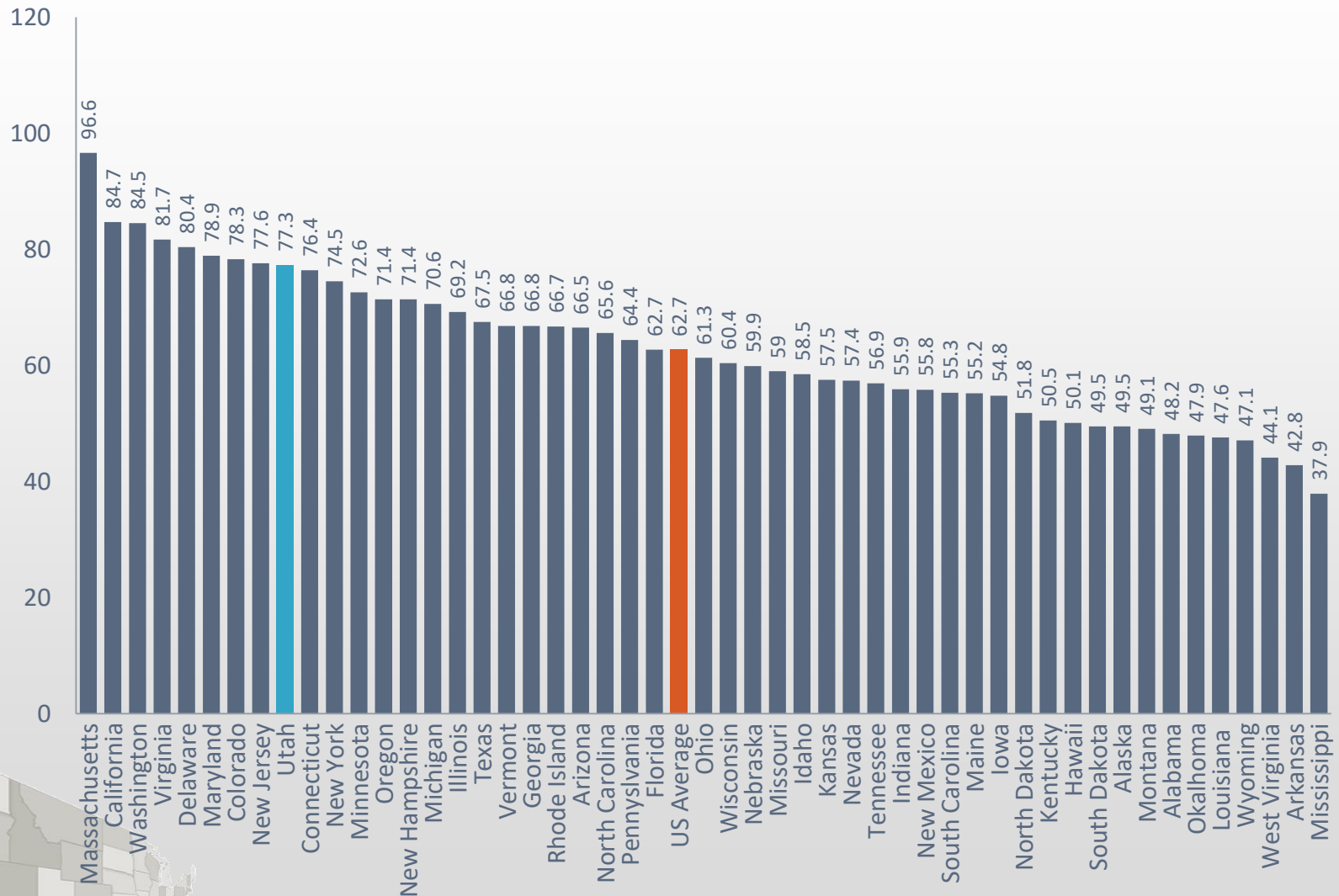
The Relationship Between Educational Attainment, Personal Income, and the State New Economy Index



Source: U.S. Census Bureau, American Community Survey; Bureau of Economic Analysis; ITIF



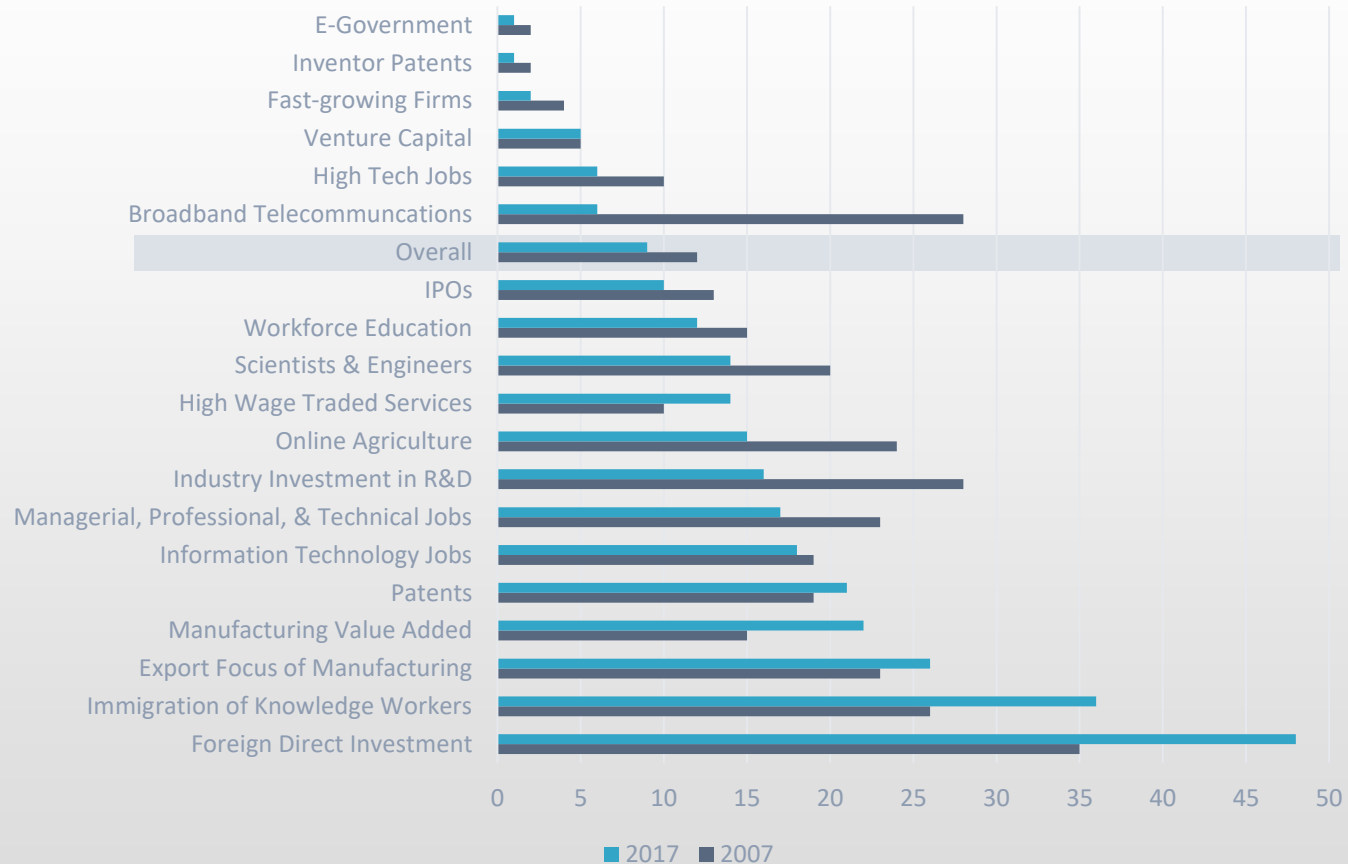
2017 State New Economy Index – Overall Index Scores



Source: ITIF 2017 States New Economy Index



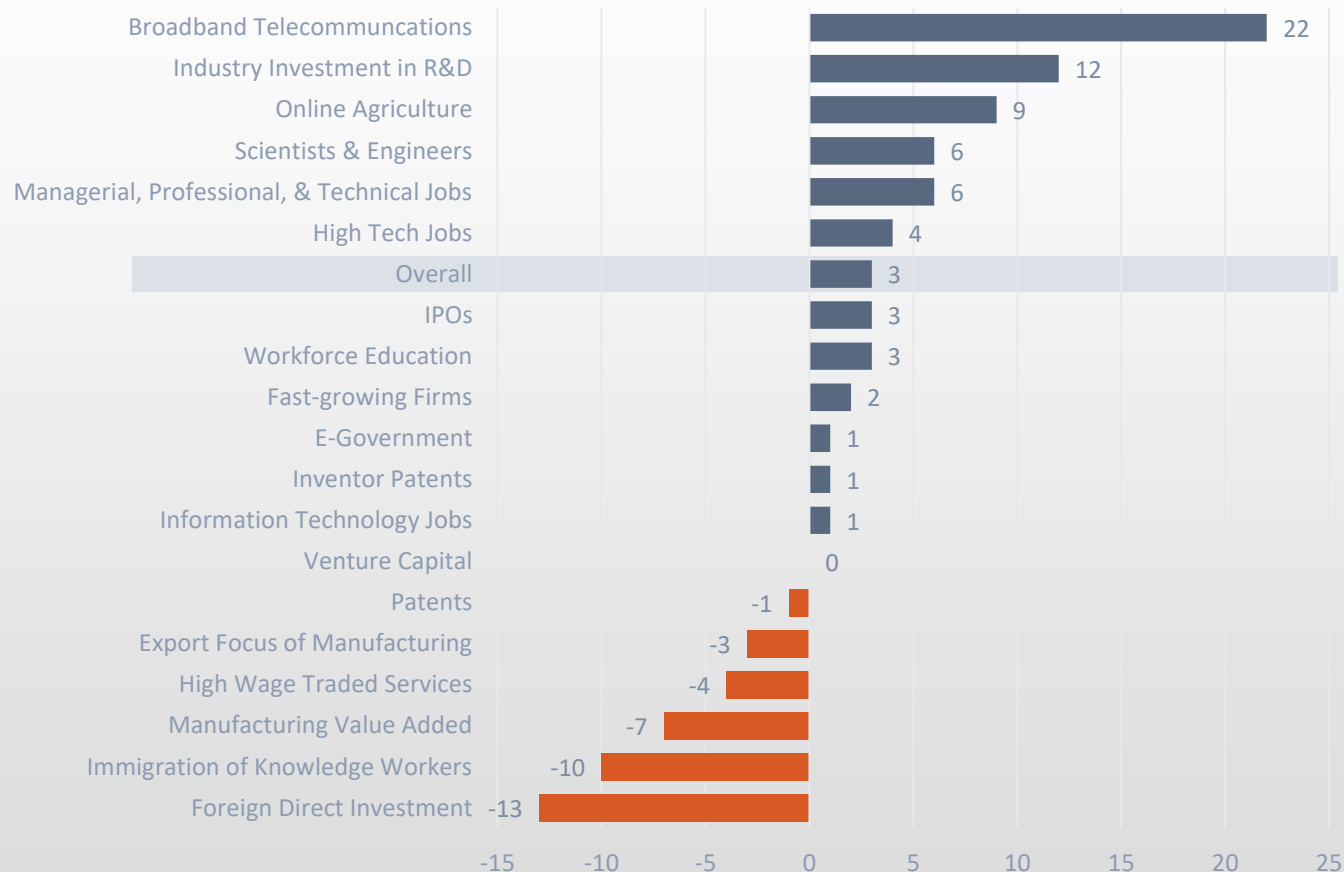
Utah Rankings in the New Economy Index, 2017 and 2007



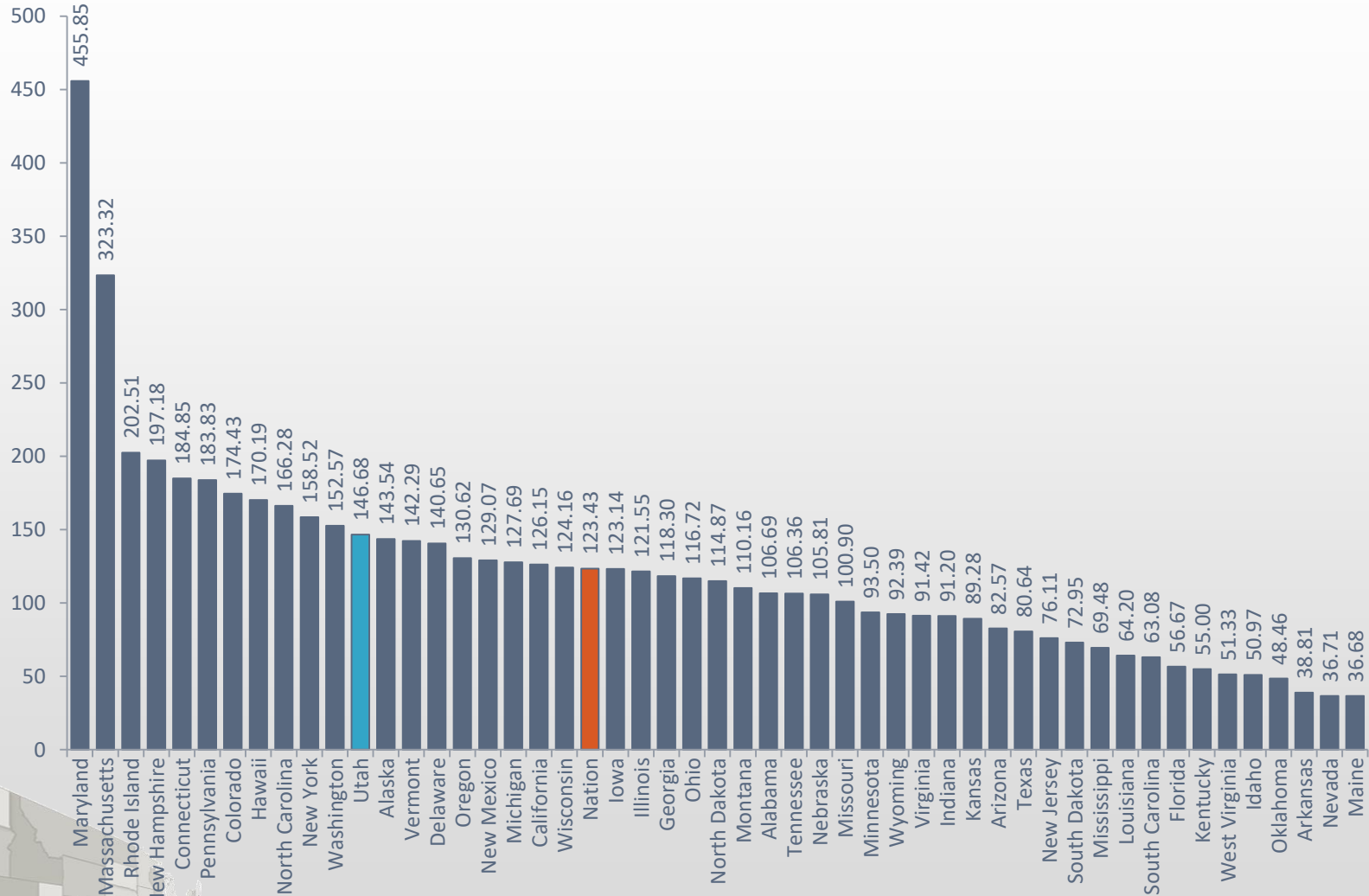
Source: ITIF, The 2017 State New Economy Index, The 2007 State New Economy Index



Positions Gained or Lost in the New Economy Index Rankings 2007-2017, Utah



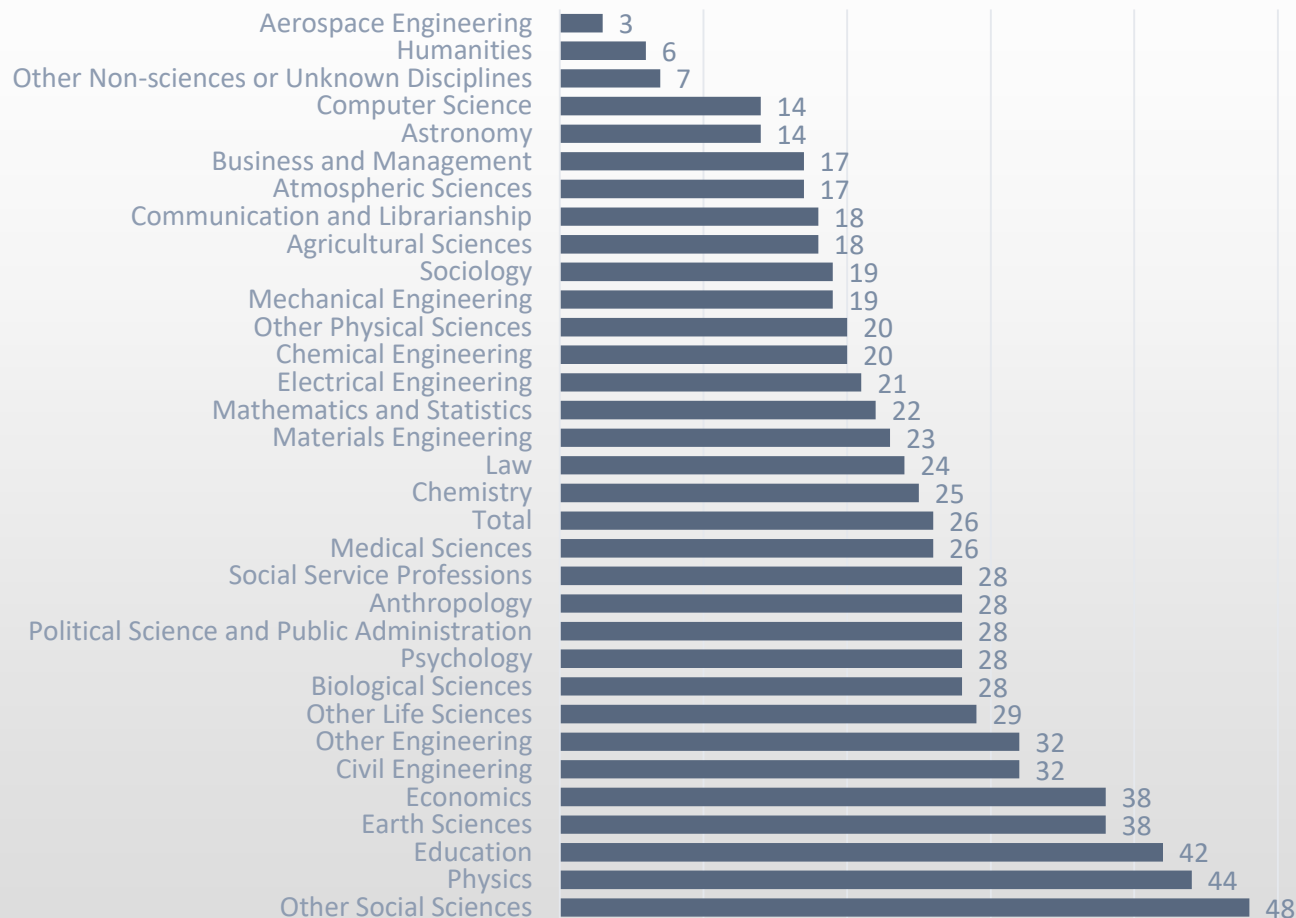
Federally Financed R&D Expenditures Per Capita, State Totals, 2013



Source: National Science Foundation; WebCASPAP



R&D By Field, Utah's Rank



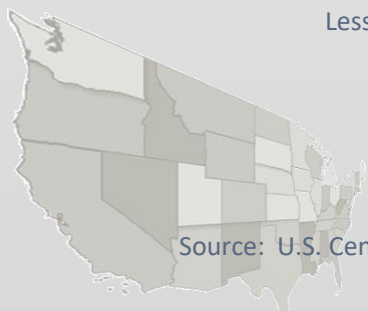
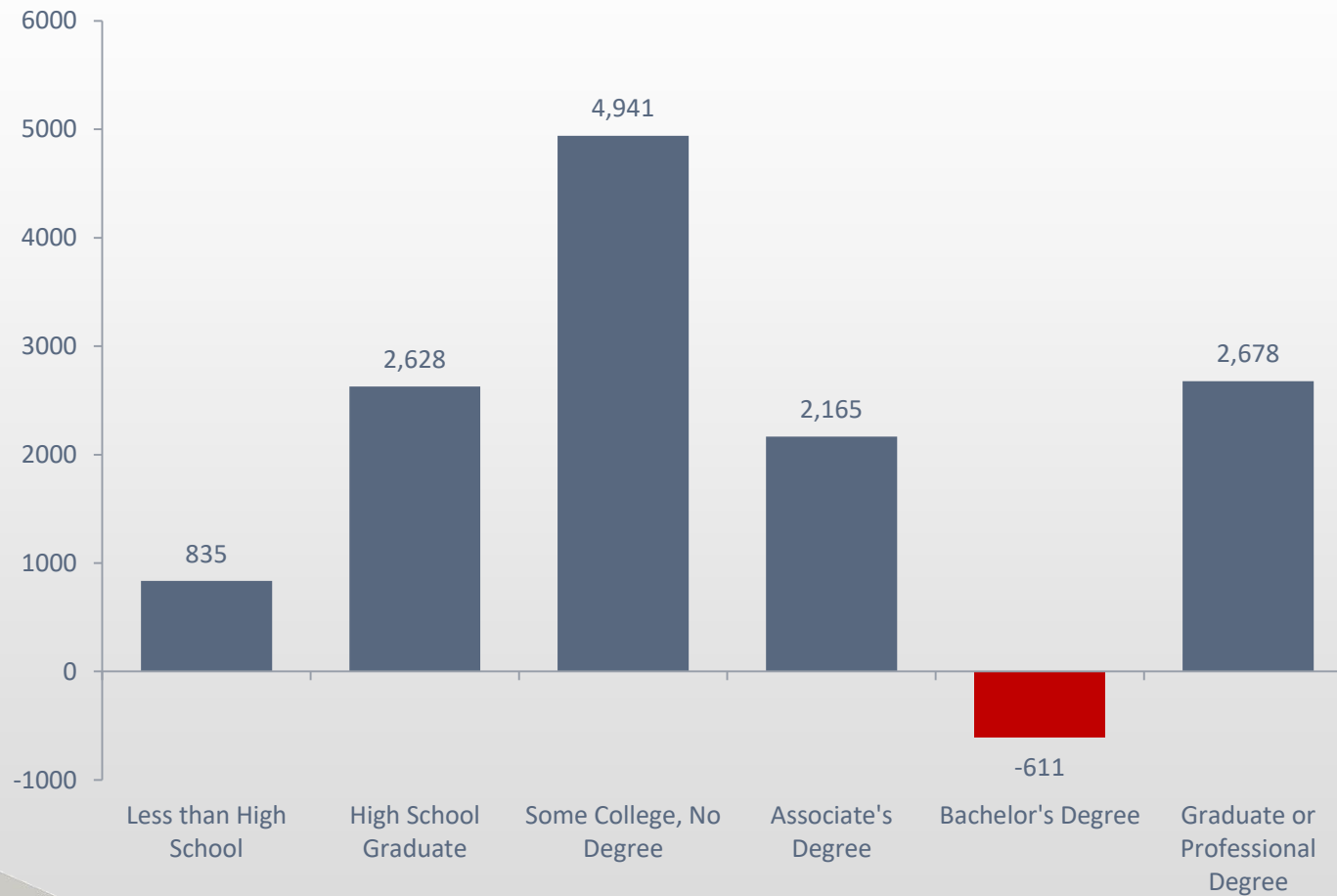
Source: National Science Foundation; WebCASPAP



Migration



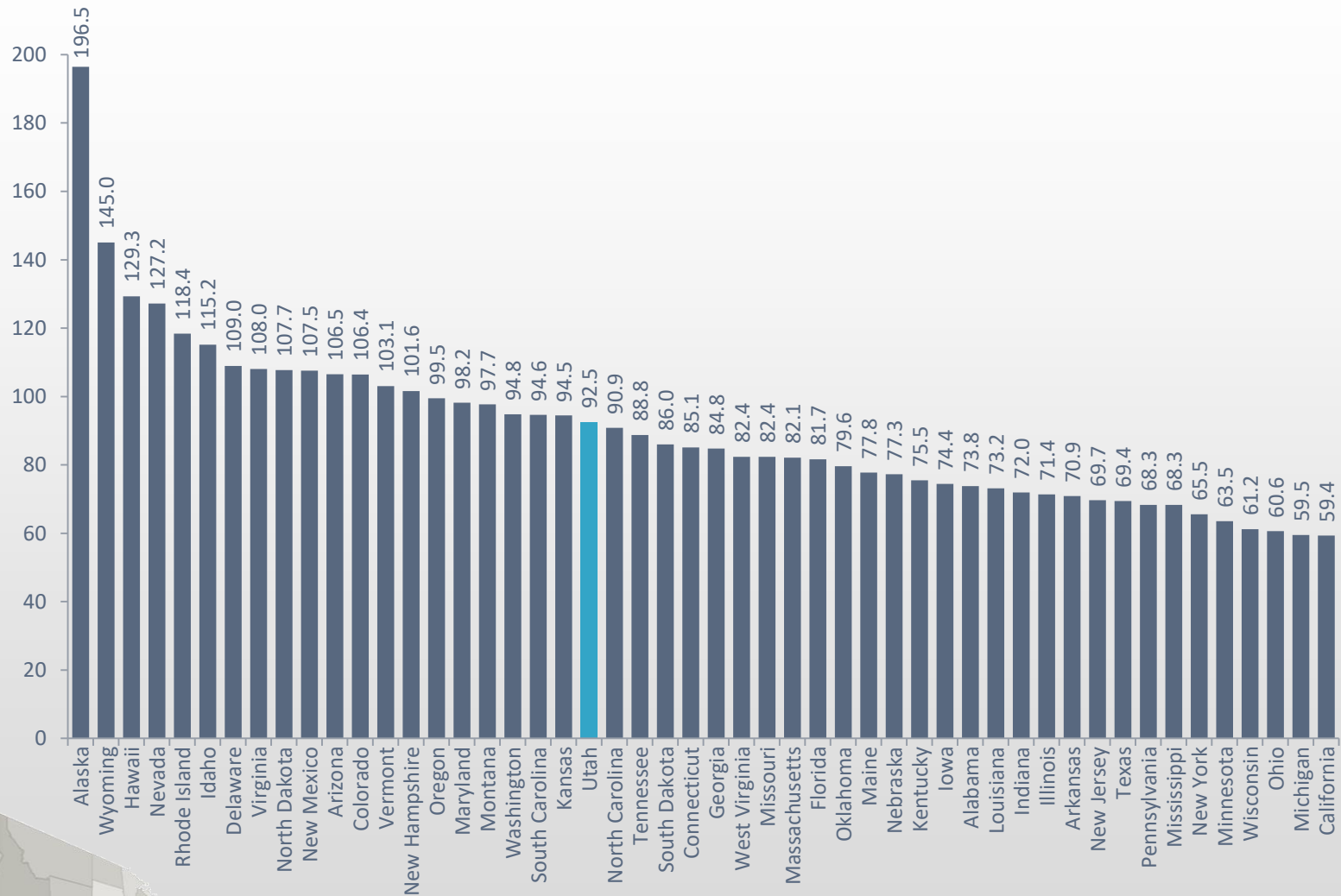
Average Annual Net Migration of 22 to 64 Year Olds by Education Level, Utah, 2012-16



Source: U.S. Census Bureau, 2012-16 American Community Survey (ACS) Five-Year Public Use Microdata Sample.



Migration Churn Rate Estimate 22-64 (Per 1,000 Population), Associates Degree & Above

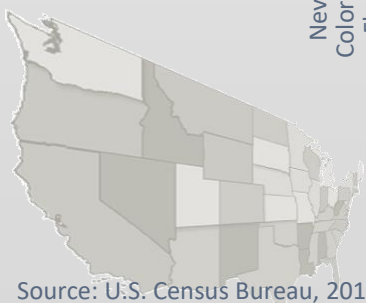
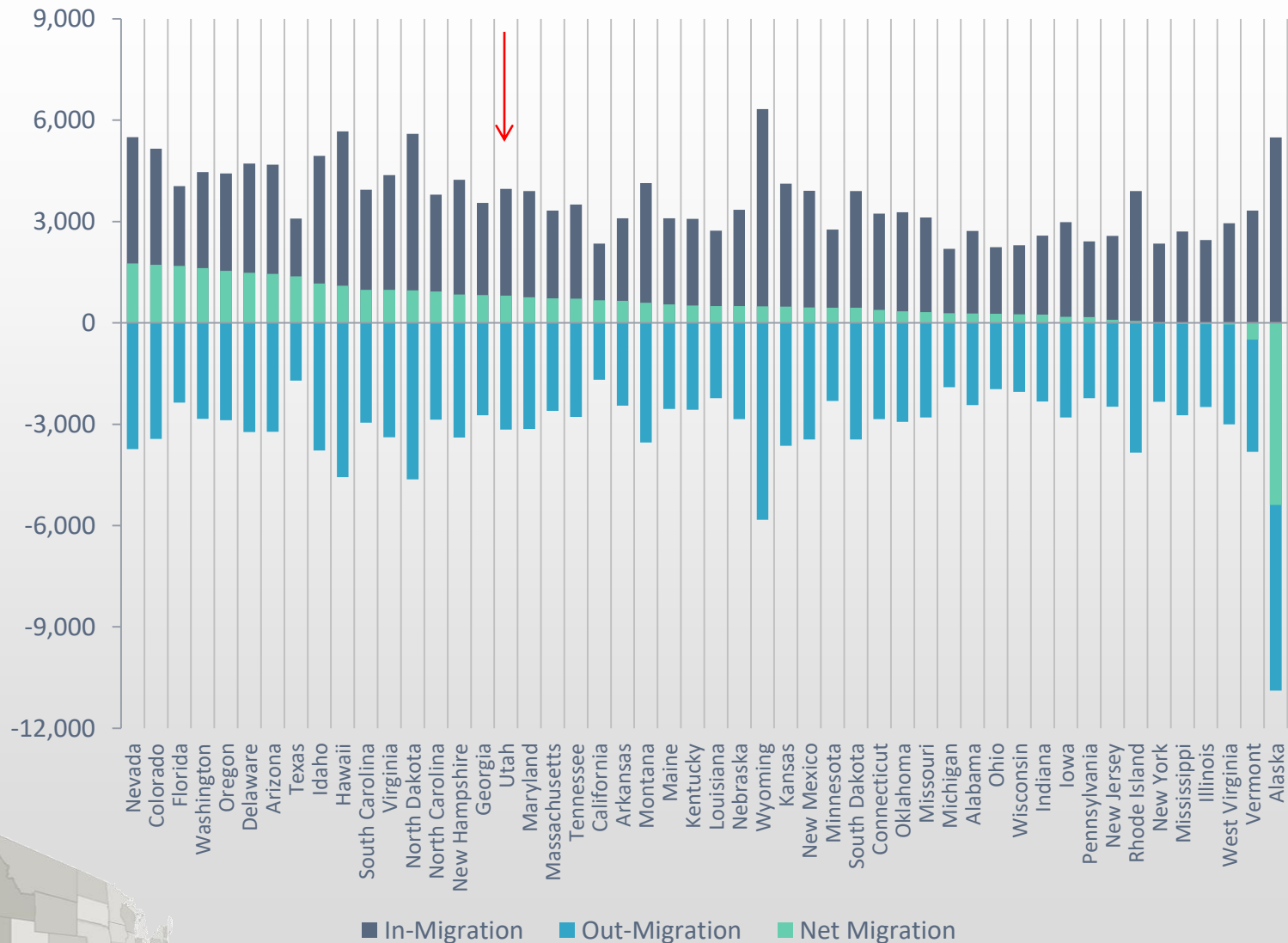


Note: Migration Churn Rate is the sum of in-migrants and out-migrants relative to 1,000 state population (population base excludes in-migrants for this calculation).

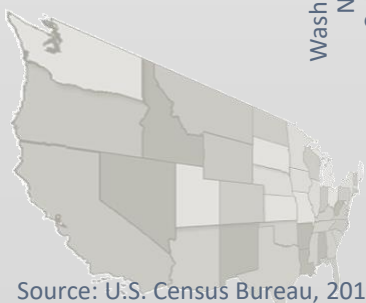
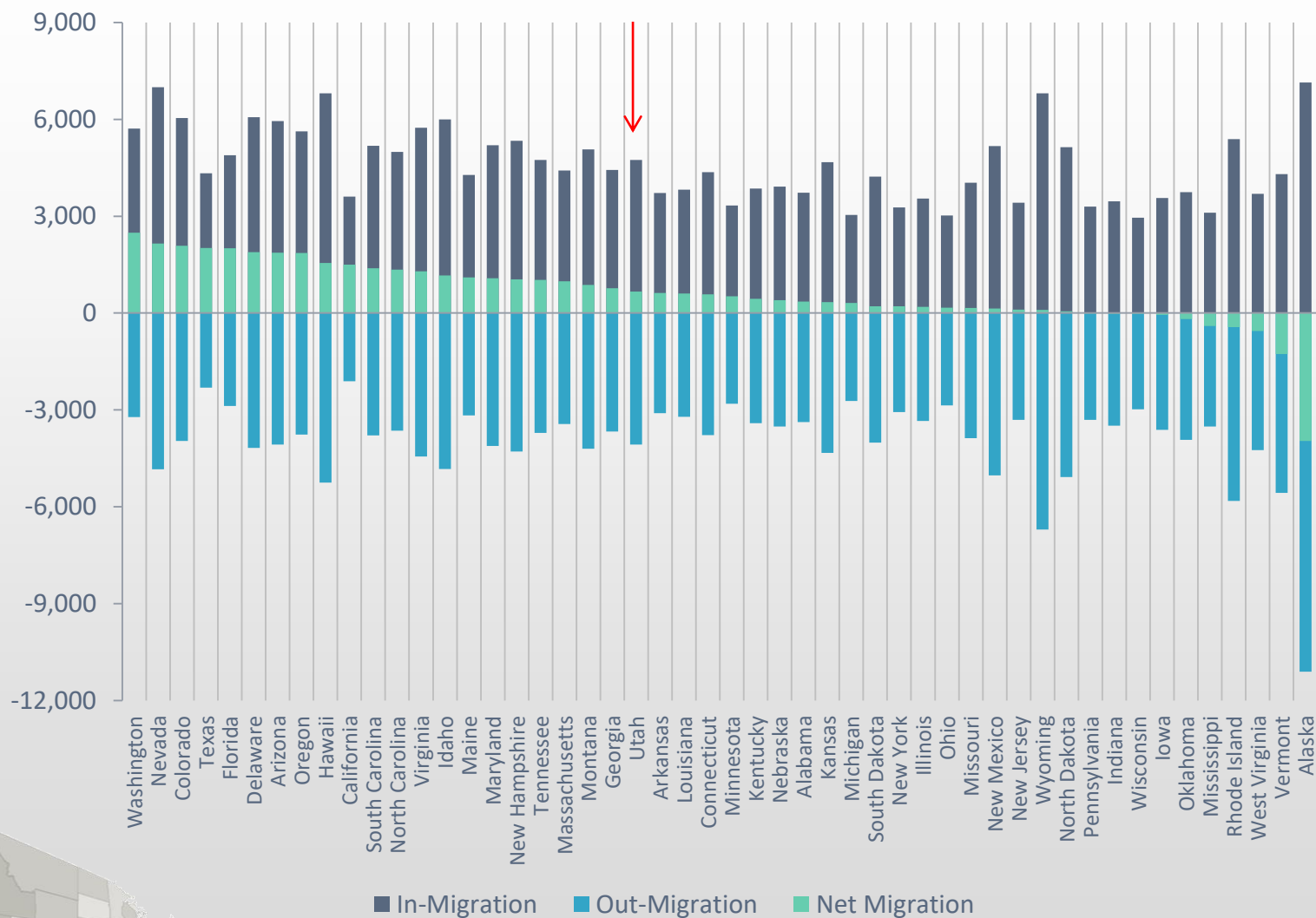
Source: U.S. Census Bureau, 2012-16 American Community Survey (ACS) Five-Year Public Use Microdata Sample.



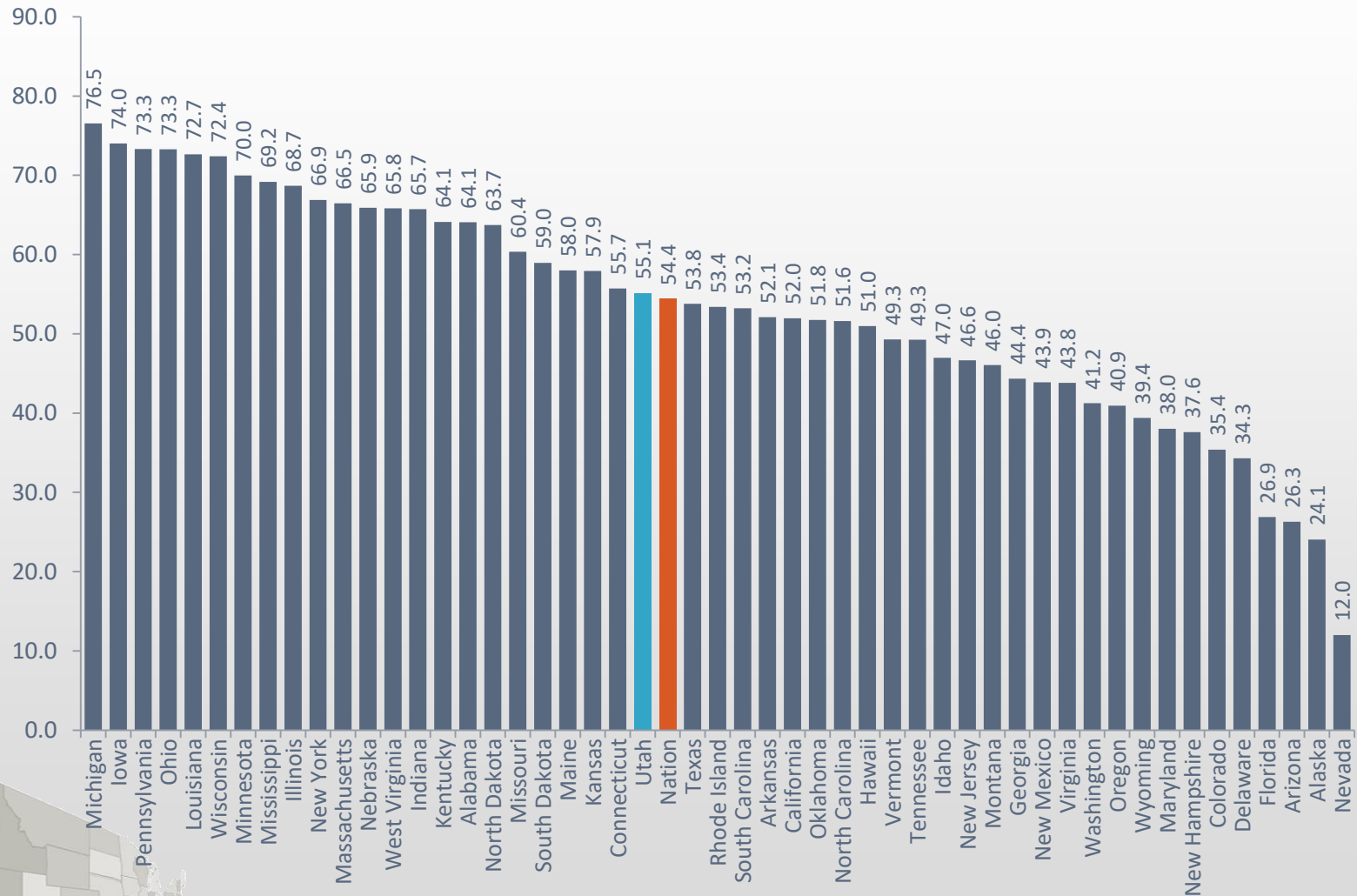
Average Annual In-, Out- and Net-Migration per 100,000 22-64 Year Olds, 2012-2016



Average Annual In-, Out- and Net-Migration per 100,000 22-64 Year Olds With an Associate's Degree or Above, 2012-2016



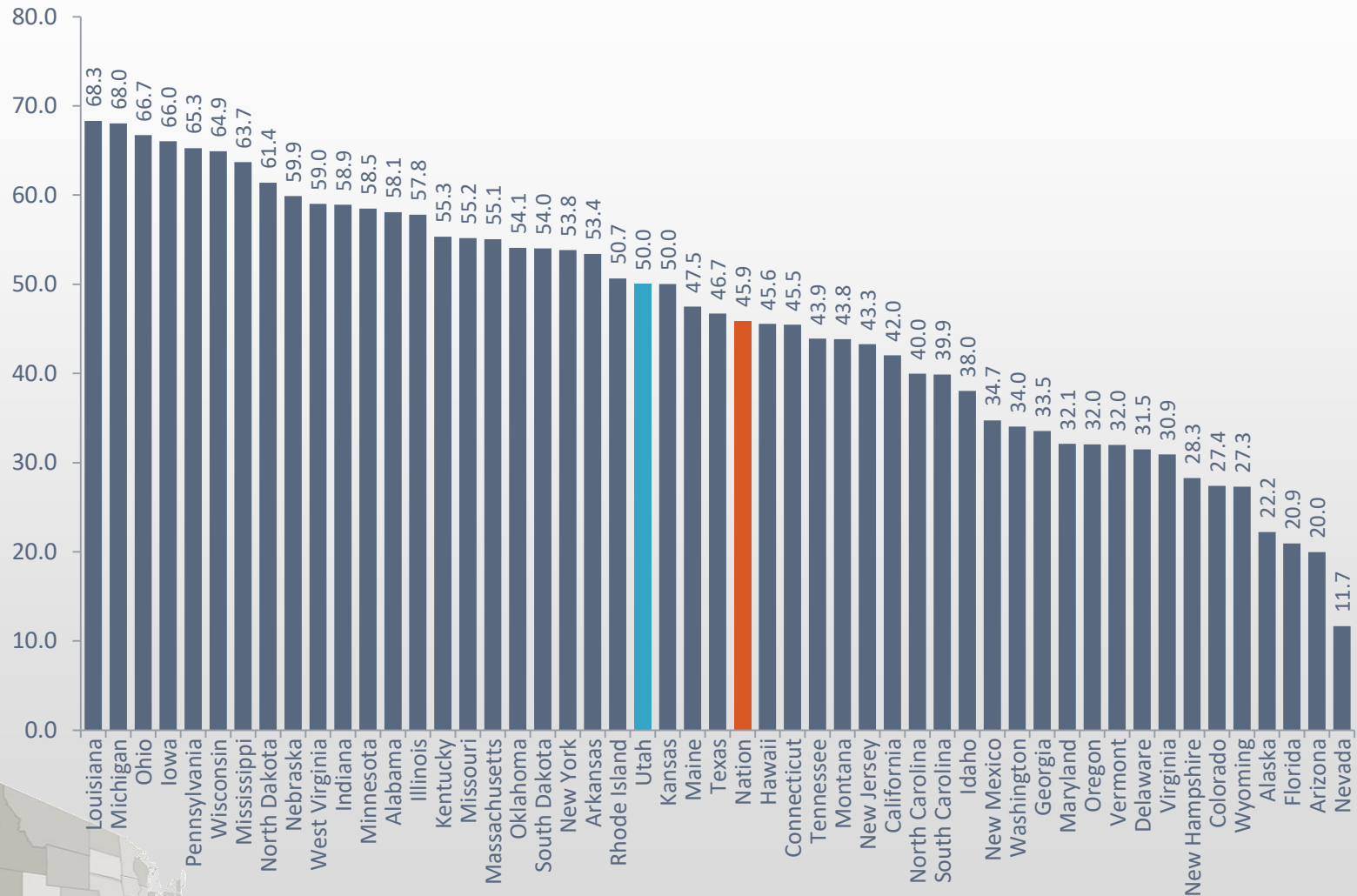
Percent of Population with an Associates Degree Who Were Born In-State, 2016



Source: U.S. Census Bureau, 2016 American Community Survey One-Year Public Use Microdata Sample.



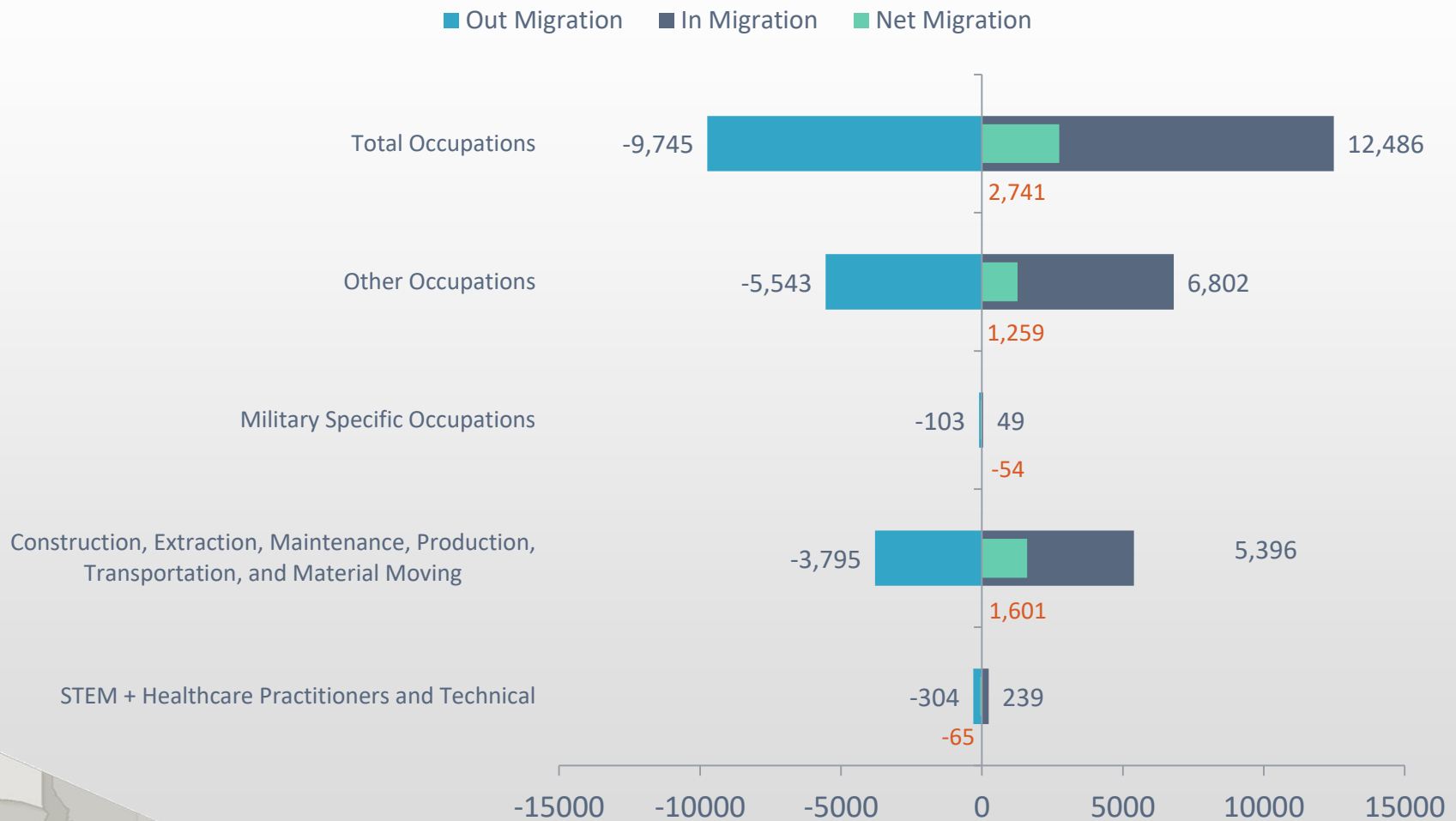
Percent of Population with a Bachelor's Degree Who Were Born In-State, 2016



Source: U.S. Census Bureau, 2016 American Community Survey One-Year Public Use Microdata Sample.



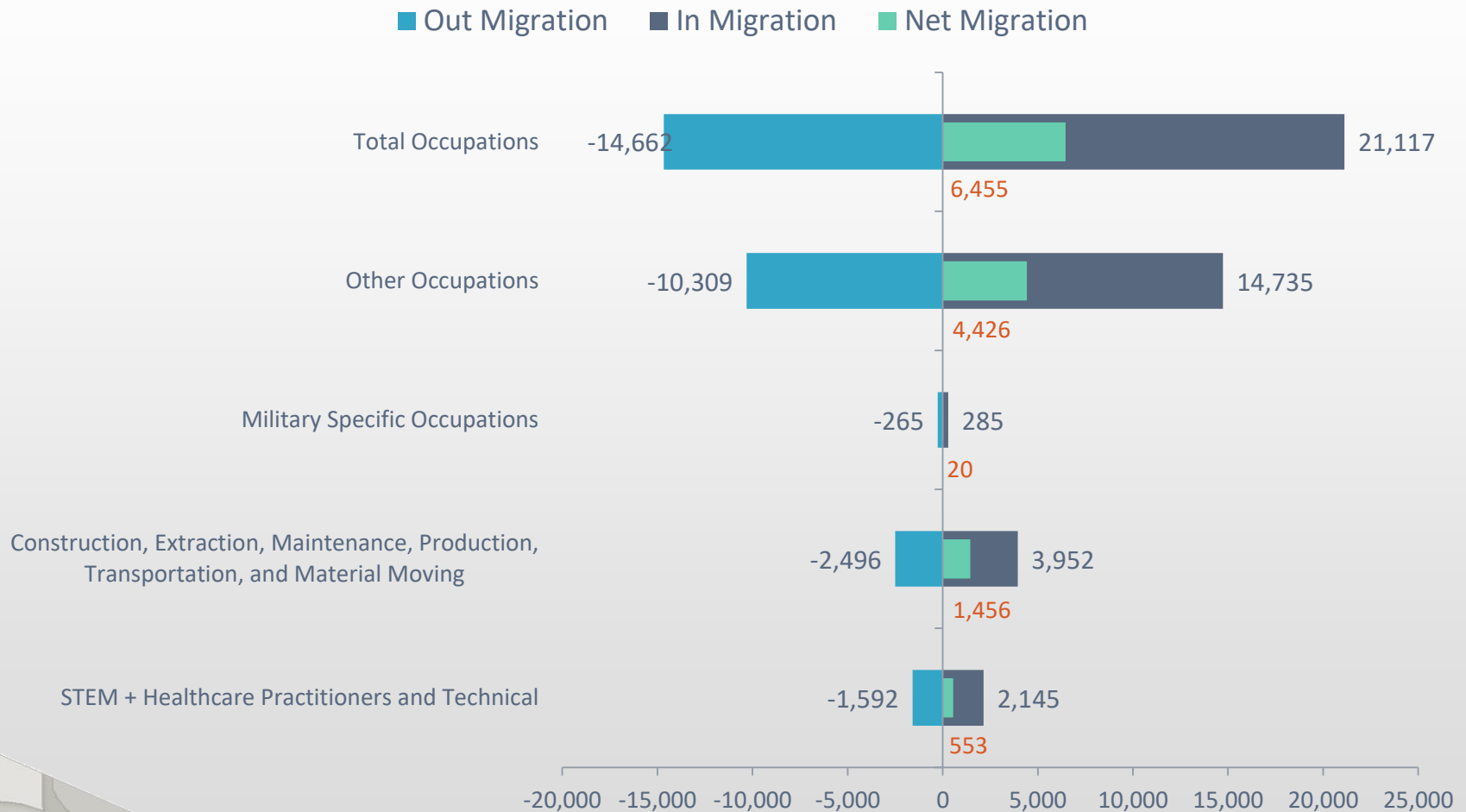
Net Migration by Education Level and Occupation Group, Adults Aged 22-64, 2012-16 - High School Graduate and Less



Source: U.S. Census Bureau 2012-16 American Community Survey Five-Year Public Use Microdata Sample.



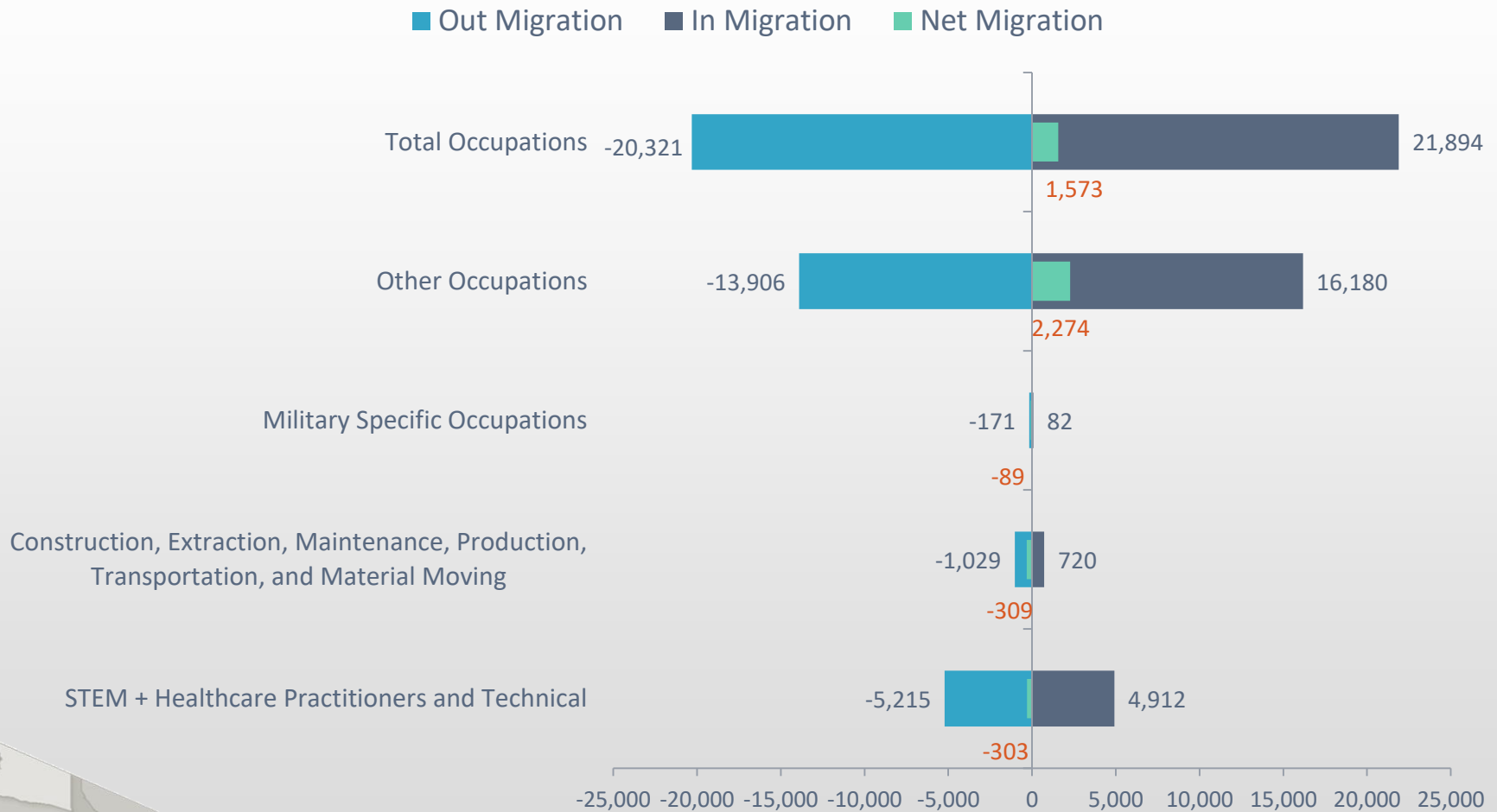
Net Migration by Education Level and Occupation Group, Adults Aged 22-64, 2012-16 - Some College, No Degree + Associates



Source: U.S. Census Bureau 2012-16 American Community Survey Five-Year Public Use Microdata Sample.



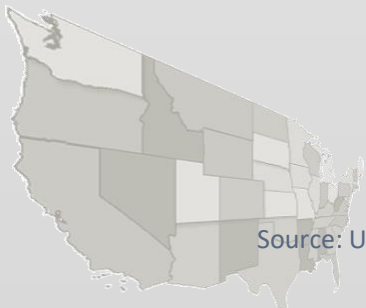
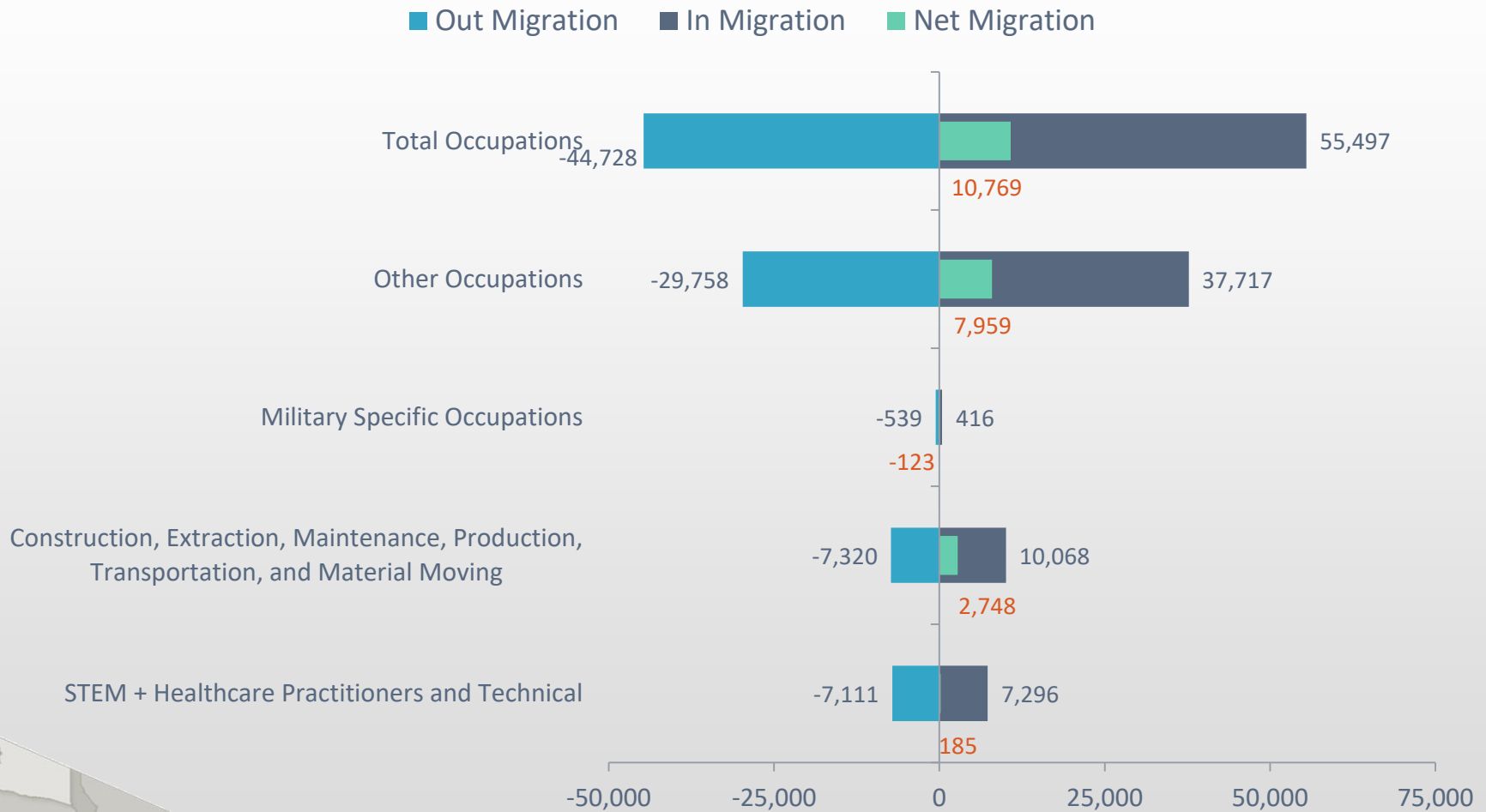
Net Migration by Education Level and Occupation Group, Adults Aged 22-64, 2012-16 - Bachelors Degree and Graduate/Professional



Source: U.S. Census Bureau 2012-16 American Community Survey Five-Year Public Use Microdata Sample.



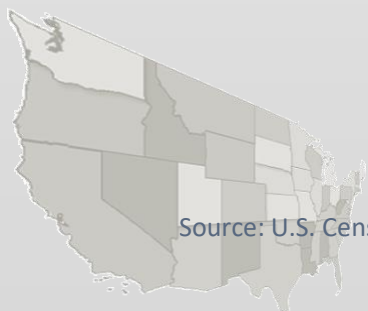
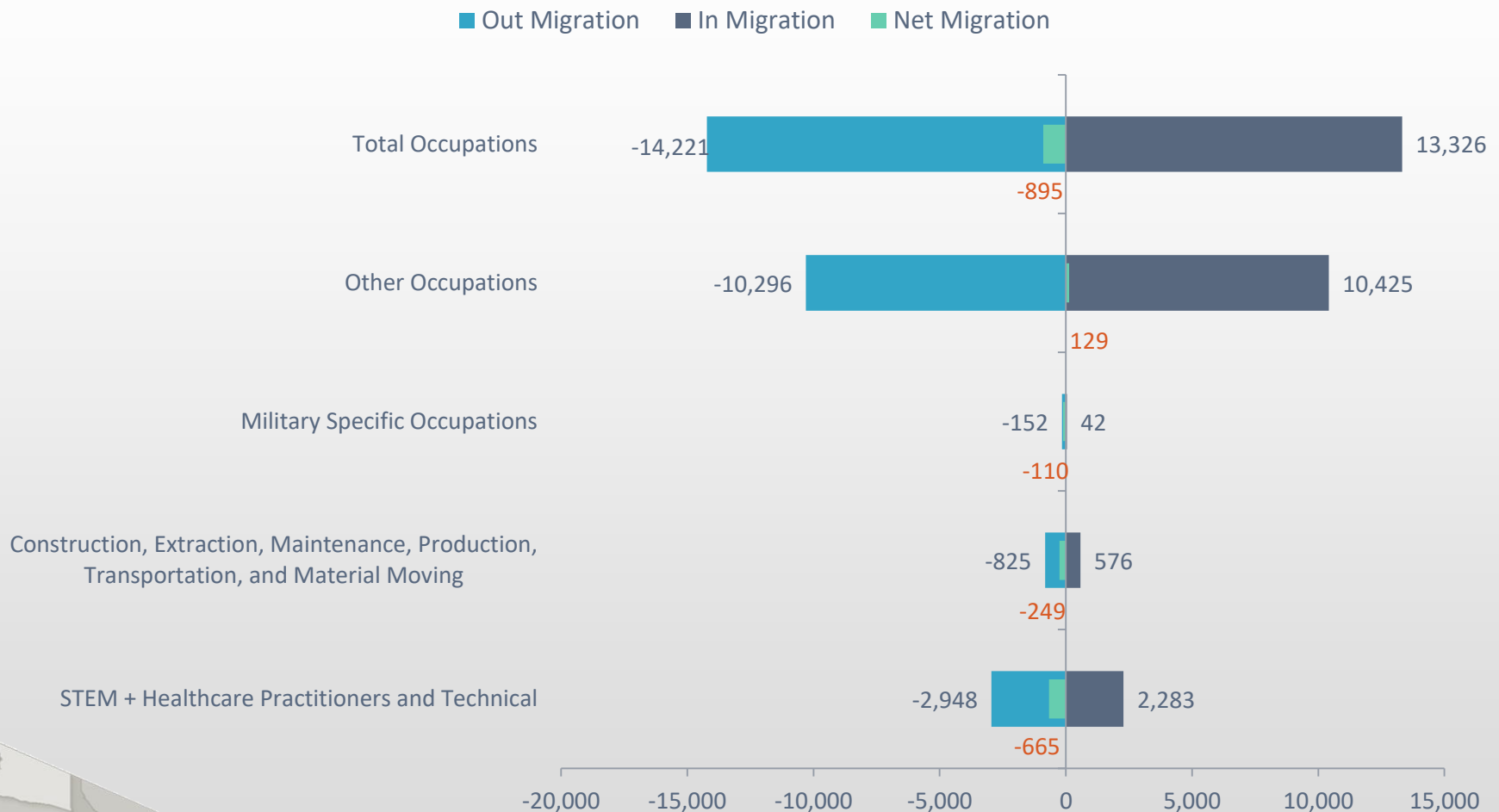
Net Migration by Education Level and Occupation Group, Adults Aged 22-64, 2012-16 - All Education Levels



Source: U.S. Census Bureau 2012-16 American Community Survey Five-Year Public Use Microdata Sample.



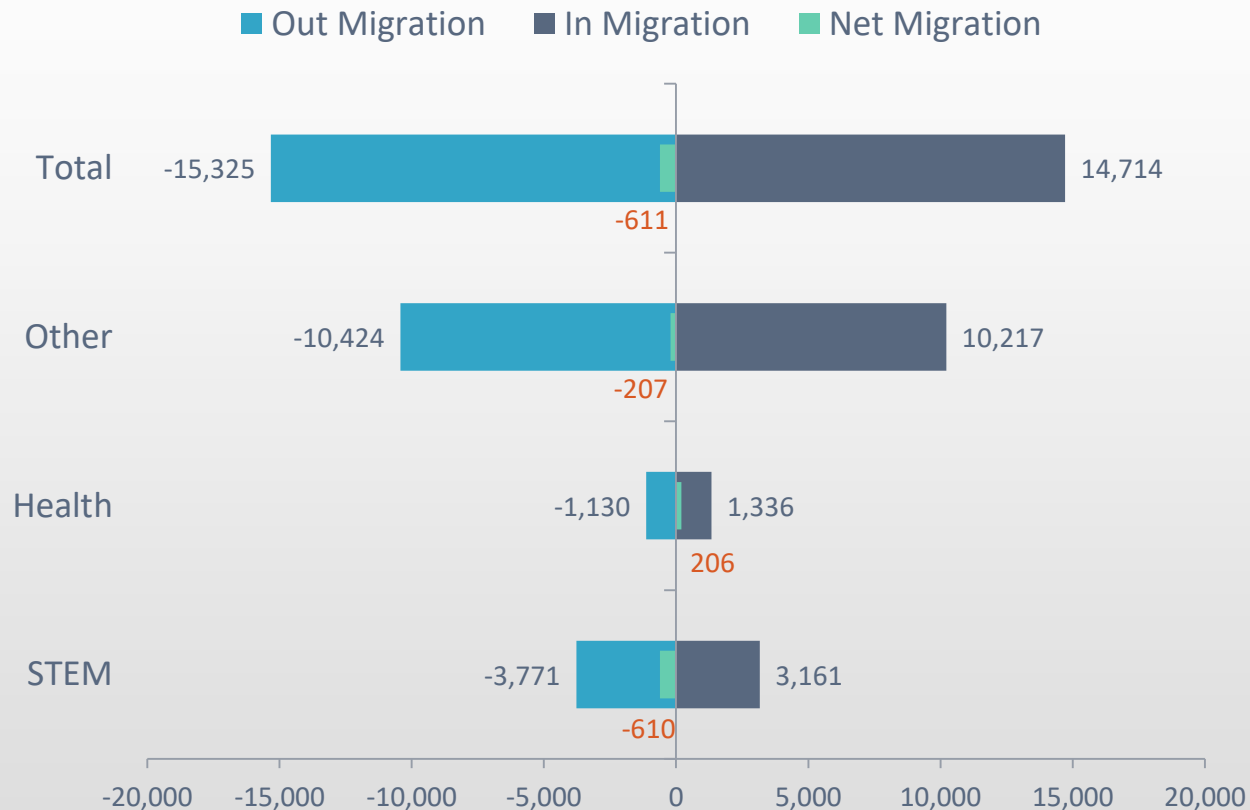
Net Migration by Education Level and Occupation Group, Adults Aged 22-64, 2012-16 - Bachelors Degree Only



Source: U.S. Census Bureau 2012-16 American Community Survey Five-Year Public Use Microdata Sample.



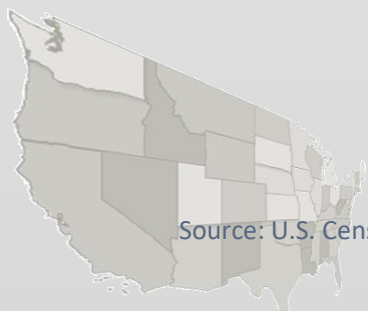
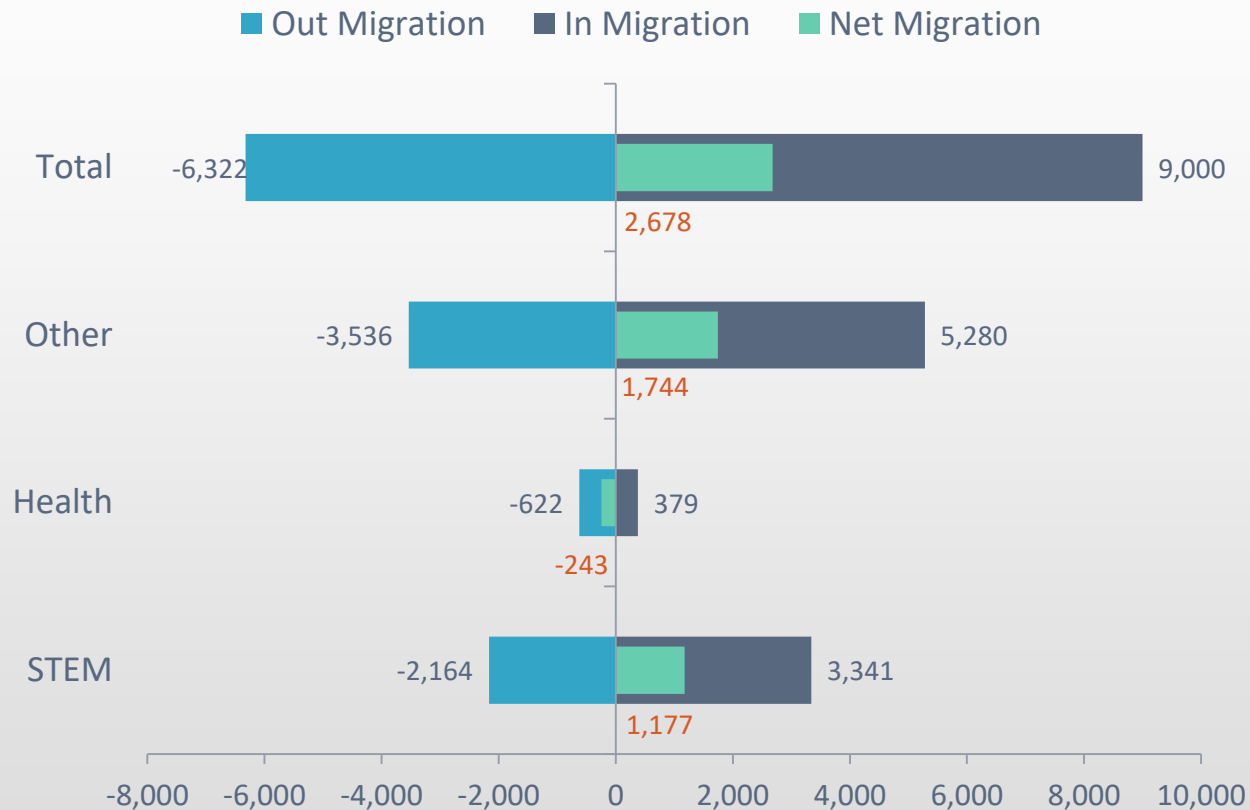
Net Migration by Field of Bachelor's Degree, Adults Aged 22-64, 2012-16



Source: U.S. Census Bureau 2012-16 American Community Survey Five-Year Public Use Microdata Sample.



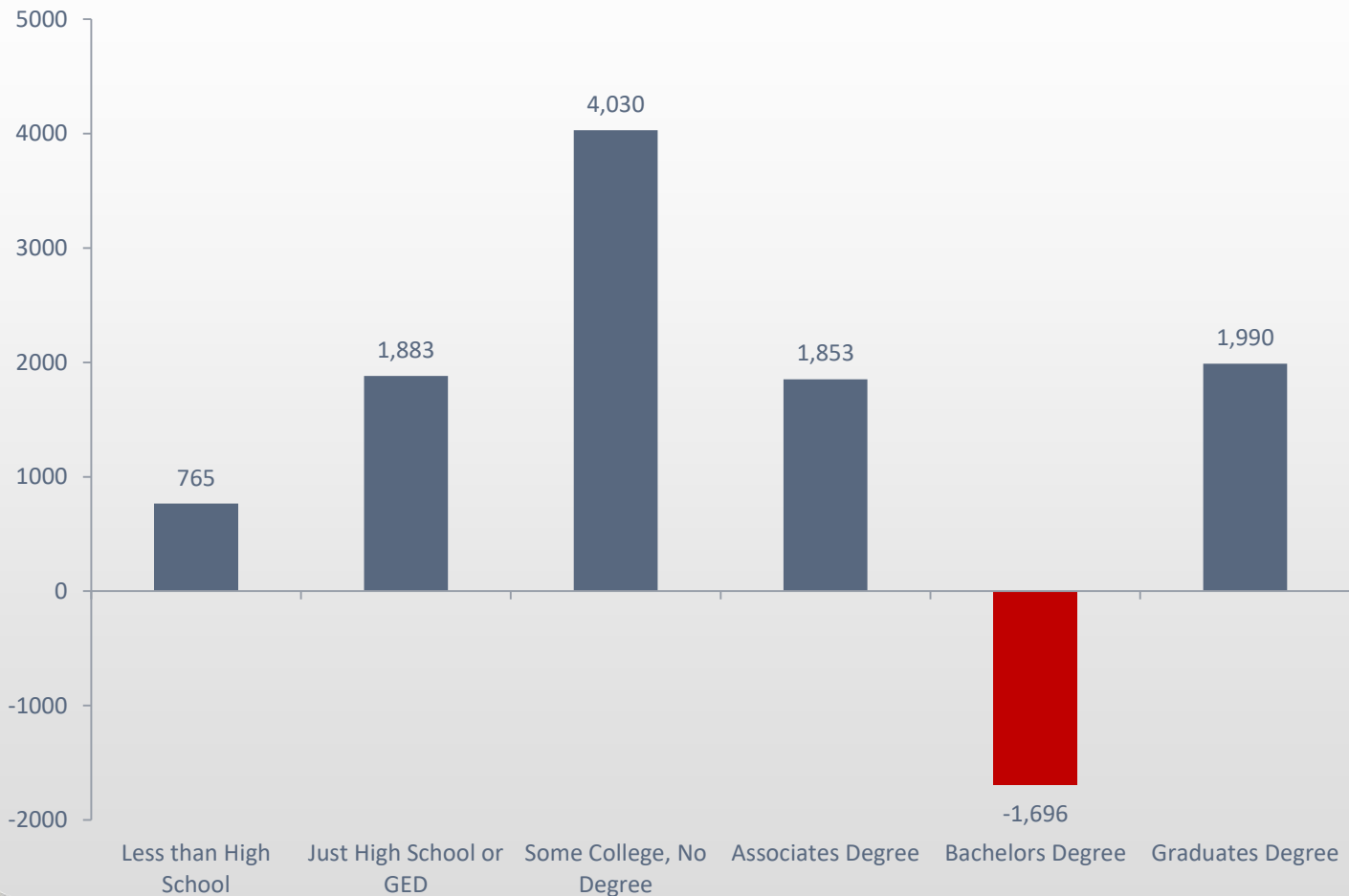
Net Migration by Field of Graduate or Professional Degree, Adults Aged 22-64, 2012-16



Source: U.S. Census Bureau 2012-16 American Community Survey Five-Year Public Use Microdata Sample.



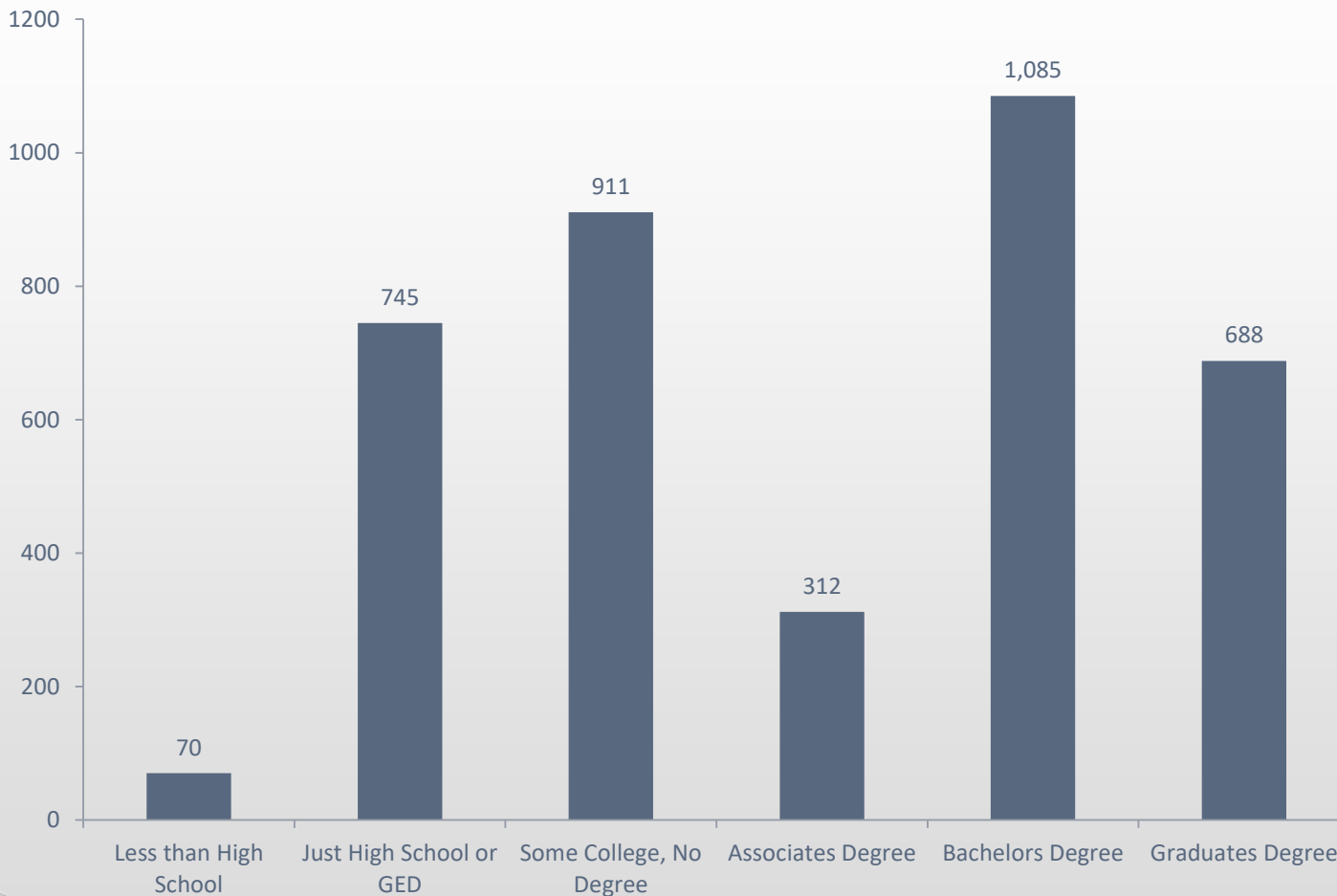
Average Annual Net Migration of 22 to 39 Year Olds by Education Level (2012-2016)



Source: U.S. Census Bureau, 2012-16 American Community Survey (ACS) Five-Year Public Use Microdata Sample.



Average Annual Net Migration of 40 to 64 Year Olds by Education Level (2012-2016)



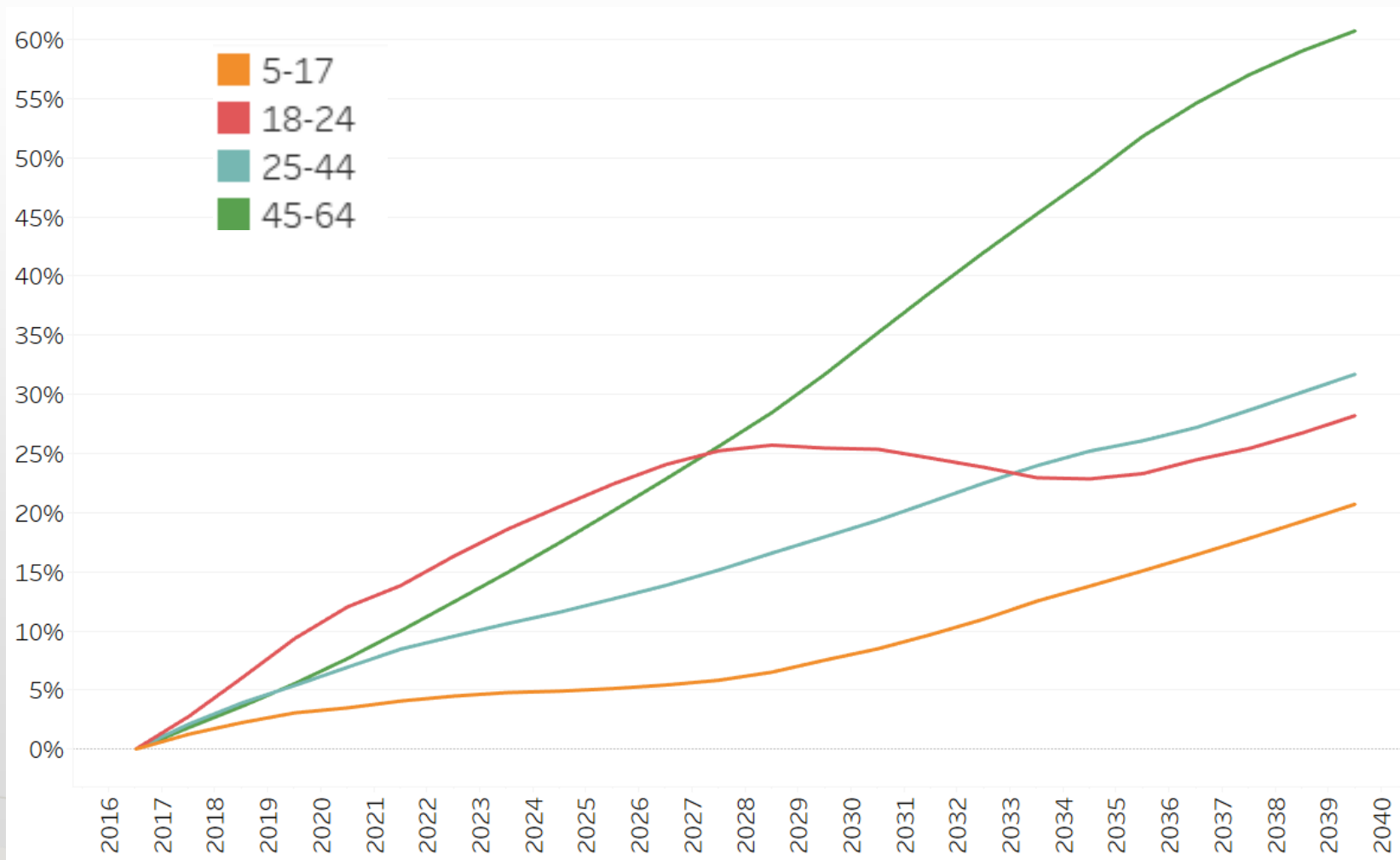
Source: U.S. Census Bureau, 2012-16 American Community Survey (ACS) Five-Year Public Use Microdata Sample.



Population Projections



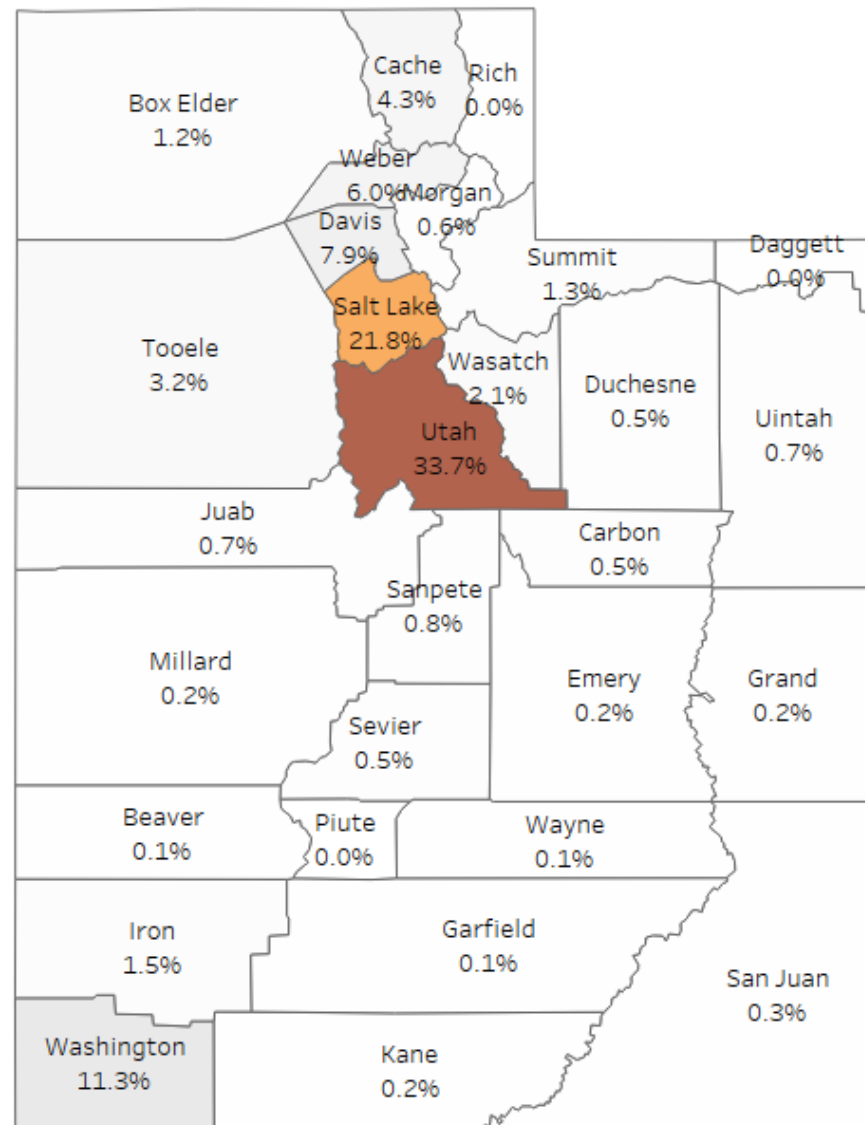
Projected Percent Change by Selected Age Group, 2016-2040



Source: Kem C. Gardner Institute.



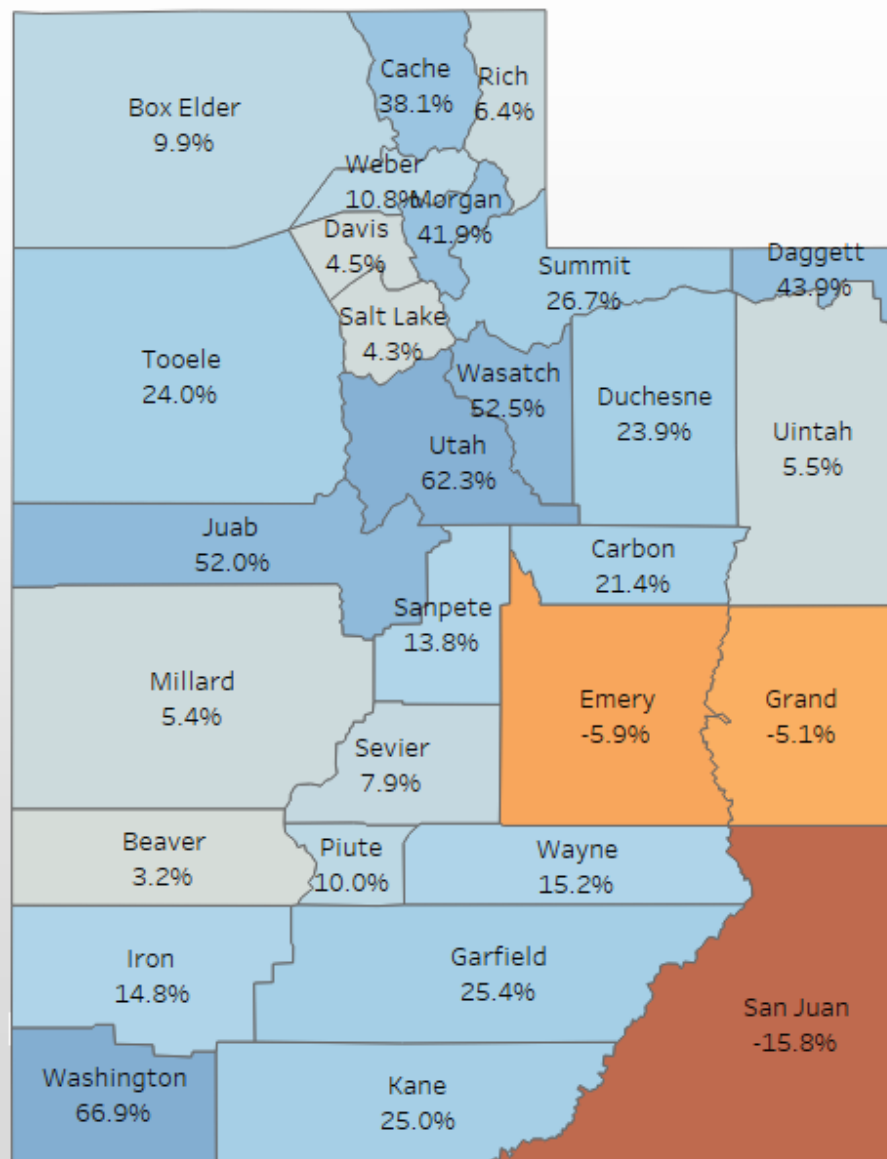
County Share of the Projected Change in Total State Population, 2015-2040



Source: Kem C. Gardner Institute.



Percent Change in Projected Population Aged 5-17 by County, 2015-2040

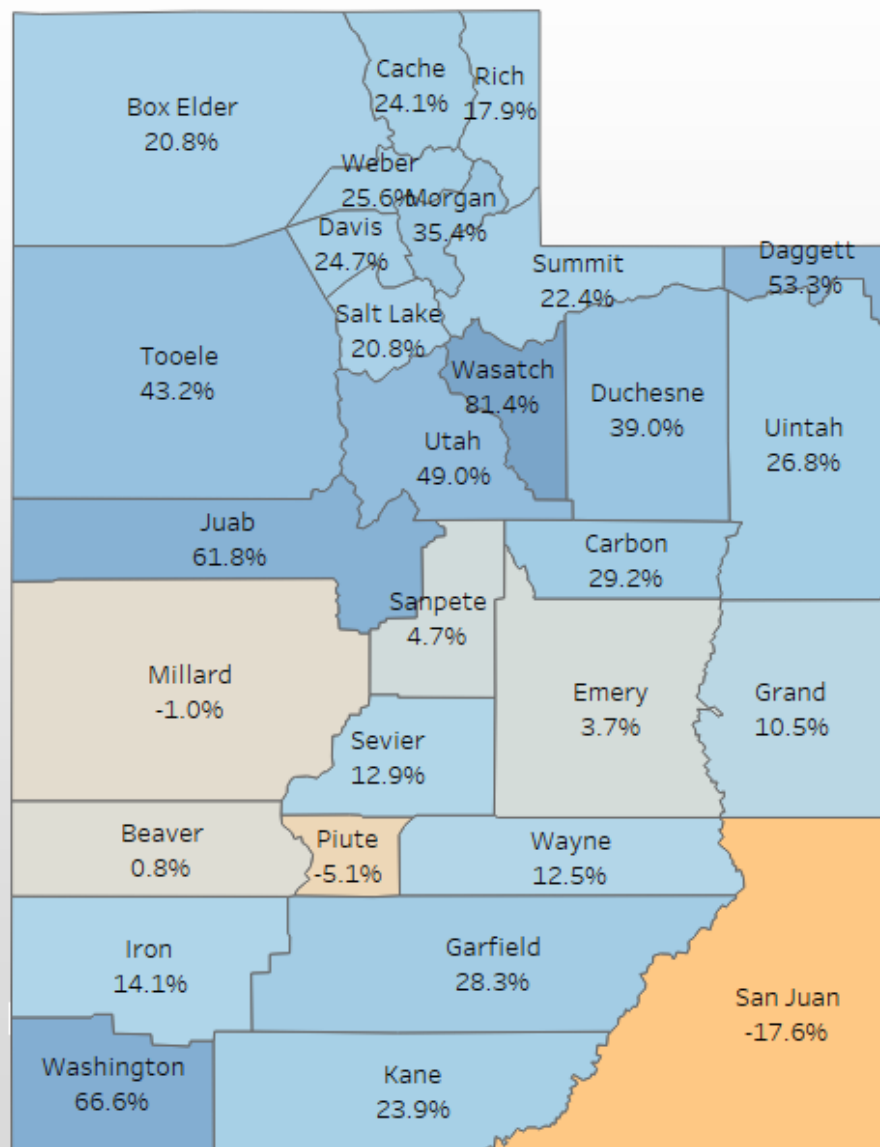


State of Utah: 24%

Source: Kem C. Gardner Institute.



Percent Change in Projected Population Aged 18-24 by County, 2015-2040

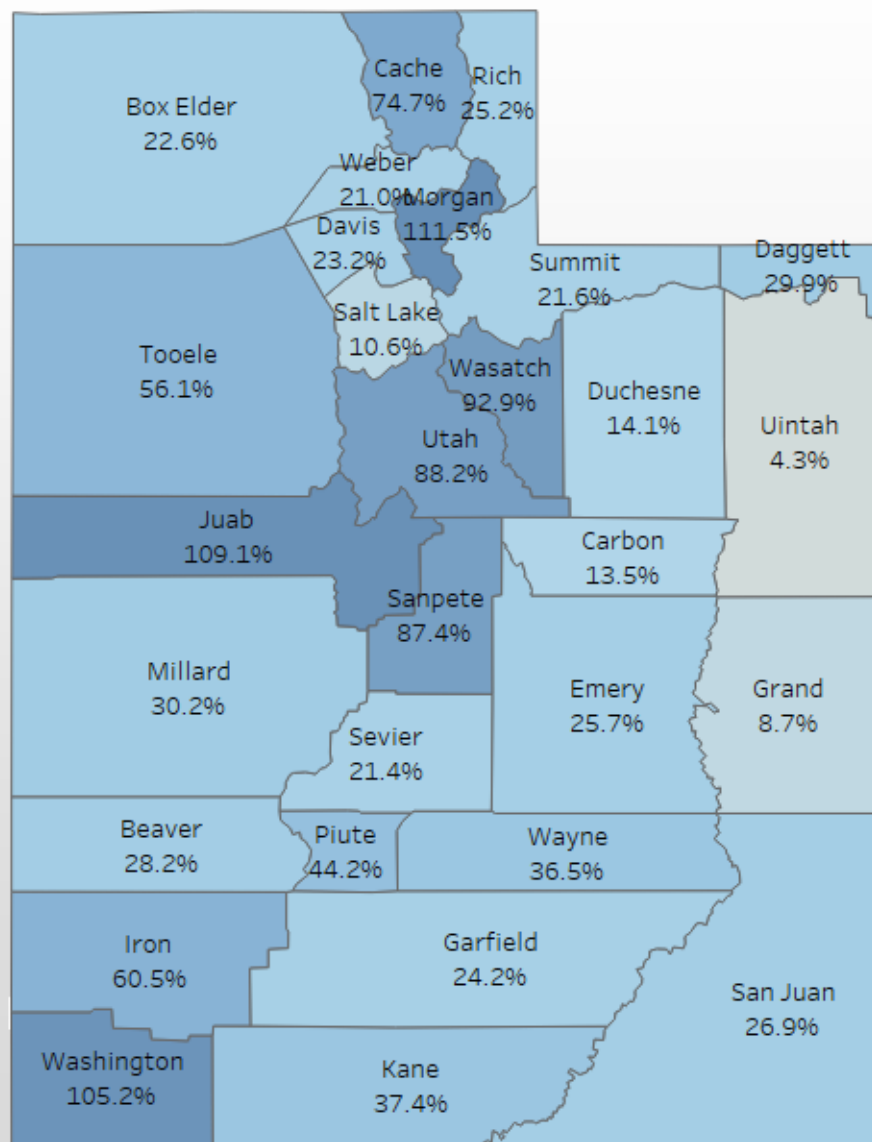


State of Utah: 32%

Source: Kem C. Gardner Institute.



Percent Change in Projected Population Aged 25-44 by County, 2015-2040

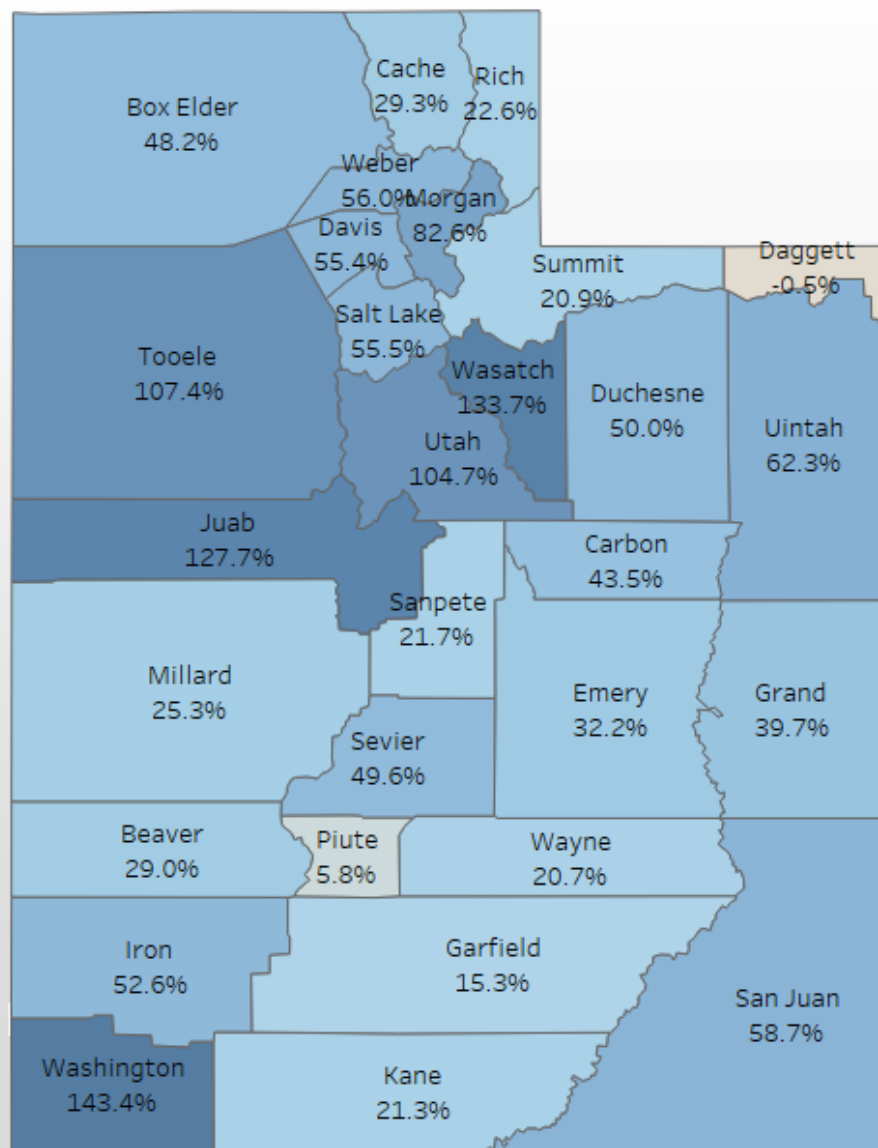


State of Utah: 38%

Source: Kem C. Gardner Institute.



Percent Change in Projected Population Aged 45-64 by County, 2015-2040

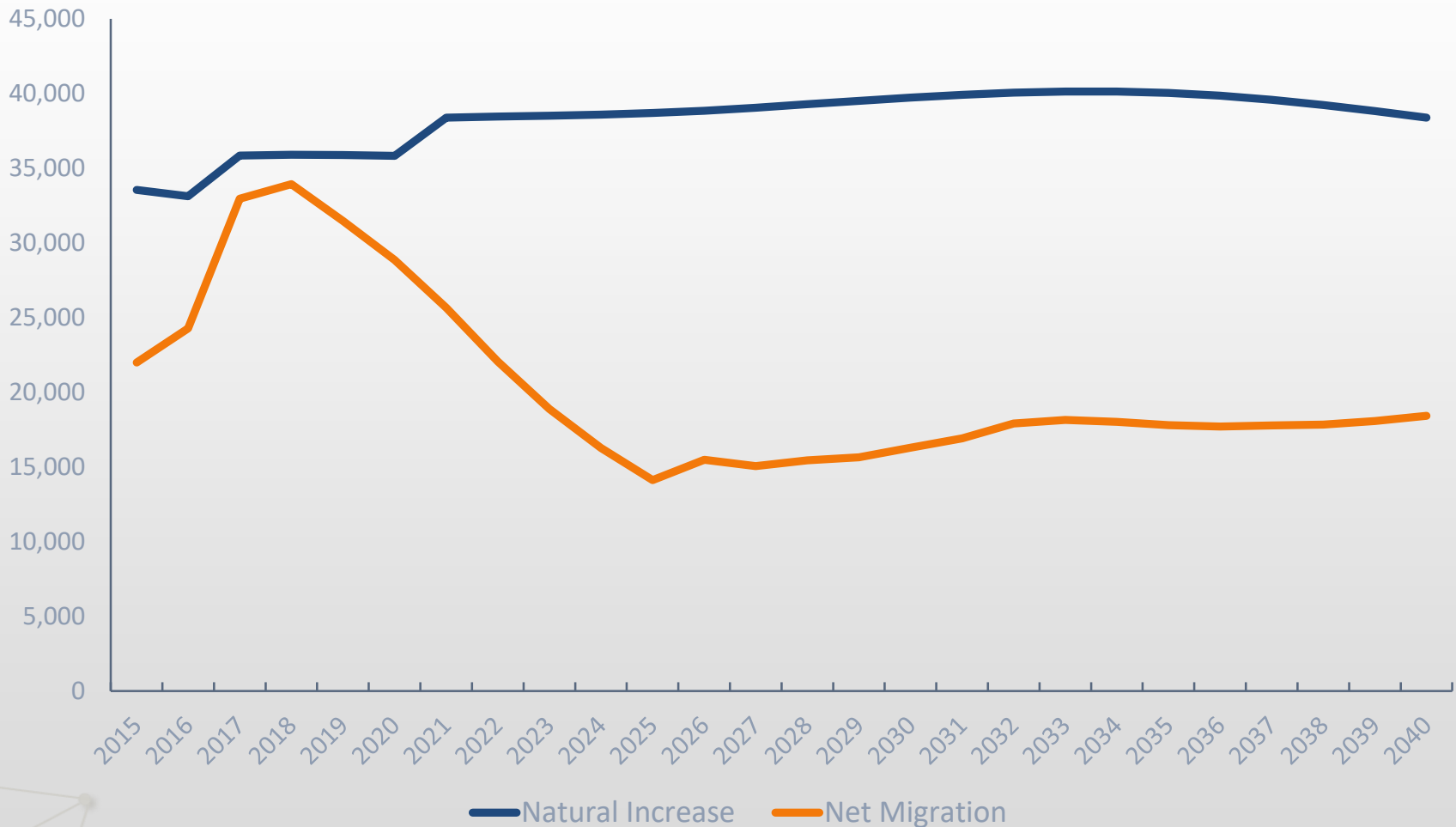


State of Utah: 67%

Source: Kem C. Gardner Institute.



Projected Natural Increase and Net Migration, State of Utah, 2015-2040



Source: Kem C. Gardner Institute.

