



Semi-Annual
Workforce and Economic Report
Yuma/La Paz County - June 2017

Institutional Effectiveness, Research, and Grants

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Arizona Western College

Economy Overview

Yuma/La Paz Counties EMSI 2nd Quarter 2017 Data Set

Population (2016)	226,063
Jobs (2016)	94,125
Average Earnings (2016)	\$41,321
Unemployed (1/2017)	14,534
Completions (2015)	2,354

Population

2016 Population	Population Growth for the Last 5 Years
226,063	1.3%
3.3% of State	State Growth 6.9%

2016 Age Cohort Demographics

Age Cohort	2016 Population	2016 Percent
Under 20 years	62,508	27.7%
20 to 39 years	60,116	26.6%
40 to 59 years	47,793	21.1%
60 to 79 years	43,847	19.4%
80 years and over	11,799	5.2%

2016 Age Cohort Demographics

Age Cohort	2016 Population	% of Population
Under 5 years	16,377	7.2%
5 to 9 years	15,472	6.8%
10 to 14 years	15,489	6.9%
15 to 19 years	15,170	6.7%
20 to 24 years	18,430	8.2%
25 to 29 years	15,406	6.8%
30 to 34 years	14,012	6.2%
35 to 39 years	12,269	5.4%
40 to 44 years	11,567	5.1%
45 to 49 years	11,914	5.3%
50 to 54 years	12,098	5.4%
55 to 59 years	12,214	5.4%
60 to 64 years	11,027	4.9%
65 to 69 years	11,568	5.1%
70 to 74 years	11,636	5.1%
75 to 79 years	9,616	4.3%
80 to 84 years	6,808	3.0%
85 years and over	4,991	2.2%

2016 Race/Ethnicity Demographics

Race/Ethnicity	2016 Population	2016 Percent
All Other Race/Ethnicities	14,434	6.4%
Black, Non-Hispanic	4,308	1.9%
American Indian or Alaskan Native, Non-	4,434	2.0%
White, Non-Hispanic	77,559	34.3%
White, Hispanic	125,327	55.4%

2016 Educational Attainment

Education Level	2016 Population	2016 Percent
Less Than 9th Grade	28,222	19.4%
9th Grade to 12th Grade	14,535	10.0%
High School Diploma	39,645	27.3%
Some College	33,330	23.0%
Associate's Degree	10,746	7.4%
Bachelor's Degree	11,684	8.1%
Graduate Degree and Higher	6,963	4.8%

Top AWC Program Completions

Program	Completions (2015)	CIP
Liberal arts and sciences, general studies and humanities	936	24
Construction trades	434	46
Health professions and related programs	328	51
Mechanic and repair technologies/technicians	111	47
Homeland security, law enforcement, firefighting and related protective services	101	43
Business, management, marketing, and related support services	100	52
Education	53	13
Social sciences	44	45
Engineering technologies and engineering-related fields	35	15
Family and consumer sciences/human sciences	25	19

Based on Most Recent IPEDS

Regional Trends

Region	2001 Jobs	2016 Jobs	Change	% Change
Region	77,007	94,125	17,118	22.2%
LaPaz & Yuma	77,007	94,125	17,118	22.2%
State	2,830,199	3,603,285	773,086	27.3%
Nation	164,865,581	192,333,010	27,467,429	16.7%

Jobs by Industry

Total Jobs (2016)	Male	Female
94,125	56.5%	43.5%

Avg. Earnings (2016)
\$41,321
74% of Nation Avg.

(National: 52.9%)**(National: 47.1%)**

Industry	2016 Jobs	Avg. Earnings (2016)
Government	21,174	\$61,834
Crop and Animal Production	14,783	\$34,298
Retail Trade	10,676	\$30,945
Health Care and Social Assistance	8,658	\$49,502
Accommodation and Food Services	6,782	\$19,371
Administrative and Support and Waste Management and Remediation Services	6,503	\$26,430
Construction	3,514	\$35,548
Other Services (except Public Administration)	3,492	\$22,921
Real Estate and Rental and Leasing	3,189	\$25,956
Professional, Scientific, and Technical Services	3,127	\$56,075
Manufacturing	2,814	\$48,148
Transportation and Warehousing	2,067	\$37,910
Finance and Insurance	2,049	\$44,375
Wholesale Trade	1,743	\$62,527
Educational Services	917	\$28,029
Arts, Entertainment, and Recreation	822	\$17,384
Information	746	\$52,140
Mining, Quarrying, and Oil and Gas Extraction	423	\$38,233
Management of Companies and Enterprises	294	\$56,886
Utilities	247	\$78,366
Unclassified Industry	104	\$27,283

Top Regional Businesses

Business Name	Business Size
Morale Welfare Recreation	Large (250+)
Yuma Mesa Fruit Growers Assn	Large (250+)
Yuma Proving Ground Exchange	Large (250+)
Corrections Dept	Large (250+)
Blue Water Resort & Casino	Large (250+)

Growing & Declining Occupations

Occupation	Change in Jobs (2001-2016)
Customer Service Representatives	1,048
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	724
Correctional Officers and Jailers	627
Farmers, Ranchers, and Other Agricultural Managers	(185)
Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	(232)
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	(1,460)

Growing & Declining Industries

Industry	Change in Jobs (2001-2016)
Telemarketing Bureaus and Other Contact Centers	1,736
Warehouse Clubs and Supercenters	1,561
State Government, Excluding Education and Hospitals	1,535
Discount Department Stores	(490)
Fiber, Yarn, and Thread Mills	(519)
Crop Harvesting, Primarily by Machine	(1,412)

Unemployment by Industry

Total Unemployment (1/2017)
14,534

Industry	Unemployed (1/2017)	% of Regional Unemployment
No Previous Work Experience/Unspecified	3,341	23%
Government	2,295	16%
Retail Trade	2,202	15%
Accommodation and Food Services	1,477	10%
Crop and Animal Production	1,367	9%
Health Care and Social Assistance	870	6%
Administrative and Support and Waste Management and Remediation Services	593	4%
Construction	507	3%
Manufacturing	424	3%
Other Services (except Public Administration)	399	3%
Professional, Scientific, and Technical Services	281	2%
Transportation and Warehousing	163	1%
Finance and Insurance	155	1%
Educational Services	127	1%
Real Estate and Rental and Leasing	87	1%
Arts, Entertainment, and Recreation	86	1%
Wholesale Trade	77	1%
Information	44	0%
Utilities	36	0%
Mining, Quarrying, and Oil and Gas Extraction	3	0%
Management of Companies and Enterprises	1	0%

Data Sources and Calculations

Input-Output Data

The input-output model in this report is Emsi's gravitational flows multi-regional social account matrix model (MR-SAM). It is based on data from the Census Bureau's Current Population Survey and American Community Survey; as well as the Bureau of Economic Analysis' National Income and Product Accounts, Input-Output Make and Use Tables, and Gross State Product data. In addition, several Emsi in-house data sets are used, as well as data from Oak Ridge National Labs on the cost of transportation between counties.

Completers Data

The completers data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Demographic Data

The demographic data in this report is compiled from several sources using a specialized process. Sources include annual population estimates and population projections from the US Census Bureau, birth and mortality rates from the US Health Department, and projected regional job growth.

Industry Data

Emsi industry data have various sources depending on the class of worker. (1) For QCEW Employees, Emsi primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

Institution Data

The institution data in this report is taken directly from the national IPEDS database published by the U.S. Department of Education's National Center for Education Statistics.

Unemployment Data

The unemployment data in this report comes from the Bureau of Labor Statistics' Local Area Unemployment

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level Emsi earnings by industry.

Educational Attainment Data

Emsi's educational attainment numbers are based on Emsi's demographic data and the American Community Survey. By combining these sources, Emsi interpolates for missing years and projects data at the county level. Educational attainment data cover only the population aged 25 years or more and indicate the highest level achieved.

Infogroup Business-Level Data

Data for individual businesses is provided by Infogroup, which maintains a database of more than 16 million U.S. business entities. Note that in aggregate it will not be consistent with Emsi labor market data due to differences in definitions, methodology, coverage, and industry/geographic classification.

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics; California Labor Market Information Department

Unemployment By Industry Yuma/La Paz Counties and National

Total Number of Unemployed 14534 (1/2017)

Industry	Unemployed (1/2017)	% of Regional Unemployment	% of National Unemployment
No Previous Work Experience/ Unspecified	3,341	23%	14%
Government	2,295	16%	6%
Retail Trade	2,202	15%	11%
Accommodation and Food Services	1,477	10%	11%
Crop and Animal Production	1,367	9%	3%
Health Care and Social Assistance	870	6%	6%
Administrative and Support and Waste Management and Remediation Services	593	4%	8%
Construction	507	3%	11%
Manufacturing	424	3%	8%
Other Services (except Public Administration)	399	3%	4%
Professional, Scientific, and Technical Services	281	2%	4%
Transportation and Warehousing	163	1%	3%
Finance and Insurance	155	1%	2%
Educational Services	127	1%	2%
Real Estate and Rental and Leasing	87	1%	1%
Arts, Entertainment, and Recreation	86	1%	3%
Wholesale Trade	77	1%	2%
Information	44	0%	1%
Utilities	36	0%	0%
Mining, Quarrying, and Oil and Gas Extraction	3	0%	1%
Management of Companies and Enterprises	1	0%	0%

Emsi 2017 2nd Quarter

Year	2011	2012	2013	2014	2015	2016	2017
National	9.0	8.1	7.4	6.2	5.3	4.9	4.1
State	9.5	8.3	8.0	6.8	6.1	5.2	5.1
Yuma Co	27.1	27.6	29.7	24.9	22.4	18.5	16.3
LaPaz Co	10.3	9.5	9.4	9	7.7	6	4.8

US Bureau of Labor Statistics June 2017

Preliminary Numbers

Appendix A - Data Sources and Calculations

Unemployment Data

The unemployment data in this report comes from the Bureau of Labor Statistics' Local Area Unemployment Statistics and is updated every two months.

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics.

Arizona Western College Completers with Job Openings and Wages

IPED's Data
EMSI 2nd Quarter 2017 Data Set

Highlighted numbers are top 10 Completions in column
Highlighted number represents more jobs openings than completers
Highlighted area is more job openings than completers and over \$20.00

CIP Code	Program	Arizona Western College Completions (2015)	Regional Openings (2017)	Regional Jobs (2017)	Regional Jobs (2027)	% Jobs Change (2017-2027)	Median Hourly Earnings
01.0000	Agriculture, General	1	1	17	21	24%	\$28.48
01.0101	Agricultural Business and Management, General	0	26	1,066	1,095	3%	\$15.47
01.0304	Crop Production	3	27	1,088	1,122	3%	\$15.48
01.1001	Food Science	0	6	45	73	62%	\$19.63
01.1101	Plant Sciences, General	0	26	1,075	1,104	3%	\$15.56
03.0104	Environmental Science	2	6	69	93	35%	\$28.21
04.0901	Architectural Technology/Technician	3	1	37	40	8%	\$18.53
09.0100	Communication, General	6	35	798	959	20%	\$25.93
09.0101	Speech Communication and Rhetoric	0	8	182	216	19%	\$16.36
09.0102	Mass Communication/Media Studies	0	8	165	193	17%	\$16.15
09.0199	Communication and Media Studies, Other	0	9	167	194	16%	\$16.37
09.0701	Radio and Television	0	2	34	33	(3%)	\$20.76
10.0202	Radio and Television Broadcasting Technology/Technician	0	1	21	18	(14%)	\$17.73
11.0101	Computer and Information Sciences, General	16	21	533	648	22%	\$33.08
11.0601	Data Entry/Microcomputer Applications, General	0	3	54	66	22%	\$16.43
11.0803	Computer Graphics	3	5	133	150	13%	\$23.72
11.0901	Computer Systems Networking and Telecommunications	2	23	497	619	25%	\$27.11
11.1003	Computer and Information Systems Security/Information Assurance	1	20	418	526	26%	\$22.84
12.0503	Culinary Arts/Chef Training	17	35	756	875	16%	\$10.53
12.0504	Restaurant, Culinary, and Catering Management/Manager	0	41	891	998	12%	\$14.13
13.0101	Education, General	0	100	2,592	2,960	14%	\$19.89
13.1202	Elementary Education and Teaching	1	39	1,073	1,191	11%	\$18.68
13.1205	Secondary Education and Teaching	14	4	135	171	27%	\$20.02
13.1210	Early Childhood Education and Teaching	37	20	461	509	10%	\$13.32
13.1314	Physical Education Teaching and Coaching	1	29	731	849	16%	\$17.43
13.1399	Teacher Education and Professional Development, Specific Subject Areas, Other	0	18	505	586	16%	\$18.56

CIP Code	Program	Arizona Western College Completions (2015)	Regional Openings (2017)	Regional Jobs (2017)	Regional Jobs (2027)	% Jobs Change (2017-2027)	Median Hourly Earnings
14.0101	Engineering, General	15	7	146	174	19%	\$44.04
15.0201	Civil Engineering Technology/Technician	0	3	46	58	26%	\$17.84
15.0303	Electrical, Electronic and Communications Engineering Technology/Technician	14	4	67	81	21%	\$32.49
15.0506	Water Quality and Wastewater Treatment Management and Recycling Technology/Technician	2	8	145	177	22%	\$19.05
15.0612	Industrial Technology/Technician	18	2	74	74	0%	\$23.45
15.0613	Manufacturing Engineering Technology/Technician	1	6	119	139	17%	\$26.35
15.1302	CAD/CADD Drafting and/or Design Technology/Technician	0	1	37	40	8%	\$18.53
16.0905	Spanish Language and Literature	5	3	88	99	13%	\$16.82
16.1601	American Sign Language (ASL)	0	3	88	99	13%	\$16.82
19.0101	Family and Consumer Sciences/Human Sciences, General	24	0	2	3	50%	\$21.00
19.0706	Child Development	1	65	1,542	1,632	6%	\$7.70
19.0709	Child Care Provider/Assistant	0	43	1,113	1,126	1%	\$6.35
22.0302	Legal Assistant/Paralegal	11	4	112	127	13%	\$20.01
23.0101	English Language and Literature, General	9	23	553	675	22%	\$30.12
24.0102	General Studies	936	0	0	0	0	0
26.0101	Biology/Biological Sciences, General	15	2	34	40	18%	\$37.08
27.0101	Mathematics, General	14	2	28	36	29%	\$40.40
31.0501	Health and Physical Education/Fitness, General	2	11	224	260	16%	\$15.29
31.0599	Health and Physical Education/Fitness, Other	0	9	278	312	12%	\$9.43
38.0101	Philosophy	1	23	553	675	22%	\$30.12
40.0501	Chemistry, General	1	4	36	59	64%	\$40.66
40.0601	Geology/Earth Science, General	1	2	36	44	22%	\$37.91
40.0607	Oceanography, Chemical and Physical	0	2	36	44	22%	\$37.91
40.0801	Physics, General	11	1	20	27	35%	\$44.64
42.0101	Psychology, General	0	6	112	136	21%	\$28.77
43.0103	Criminal Justice/Law Enforcement Administration	75	6	130	145	12%	\$32.30
43.0107	Criminal Justice/Police Science	0	45	1,269	1,372	8%	\$30.67
43.0110	Juvenile Corrections	0	57	1,388	1,554	12%	\$20.60
43.0114	Law Enforcement Investigation and Interviewing	3	65	1,701	1,920	13%	\$31.50
43.0199	Corrections and Criminal Justice, Other	3	48	1,155	1,283	11%	\$21.27

CIP Code	Program	Arizona Western College Completions (2015)	Regional Openings (2017)	Regional Jobs (2017)	Regional Jobs (2027)	% Jobs Change (2017-2027)	Median Hourly Earnings
43.0203	Fire Science/Fire-fighting	18	17	414	465	12%	\$20.21
43.0301	Homeland Security	2	48	1,017	1,185	17%	\$27.19
43.9999	Homeland Security, Law Enforcement, Firefighting and Related Protective Services, Other	0	9	322	350	9%	\$15.15
44.0000	Human Services, General	0	57	1,124	1,391	24%	\$18.97
45.0101	Social Sciences, General	35	1	25	27	8%	\$33.65
45.1001	Political Science and Government, General	6	0	2	3	50%	\$42.00
46.0000	Construction Trades, General	315	46	2,411	2,269	(6%)	\$16.88
46.0101	Mason/Masonry	42	3	318	283	(11%)	\$20.39
46.0201	Carpentry/Carpenter	2	11	800	706	(12%)	\$17.18
46.0301	Electrical and Power Transmission Installation/Installer, General	0	6	288	278	(3%)	\$24.16
46.0302	Electrician	9	13	583	608	4%	\$21.40
46.0403	Building/Home/Construction Inspection/Inspector	7	6	319	304	(5%)	\$21.81
46.0503	Plumbing Technology/Plumber	0	7	408	396	(3%)	\$18.63
46.0599	Plumbing and Related Water Supply Services, Other	59	3	125	136	9%	\$13.02
46.9999	Construction Trades, Other	0	26	1,041	998	(4%)	\$15.69
47.0101	Electrical/Electronics Equipment Installation and Repair, General	0	8	208	237	14%	\$21.39
47.0199	Electrical/Electronics Maintenance and Repair Technology, Other	0	1	17	17	0%	\$16.26
47.0201	Heating, Air Conditioning, Ventilation and Refrigeration Maintenance Technology/Technician	21	4	253	256	1%	\$20.75
47.0604	Automobile/Automotive Mechanics Technology/Technician	90	20	506	559	10%	\$12.97
48.0508	Welding Technology/Welder	21	10	180	199	11%	\$18.01
50.0501	Drama and Dramatics/Theatre Arts, General	7	4	67	76	13%	\$16.74
50.0702	Fine/Studio Arts, General	15	3	65	75	15%	\$9.09
50.0706	Intermedia/Multimedia	0	4	97	111	14%	\$10.55
50.0901	Music, General	3	6	104	125	20%	\$15.61
51.0000	Health Services/Allied Health/Health Sciences, General	0	290	5,280	6,629	26%	\$27.54
51.0708	Medical Transcription/Transcriptionist	0	2	47	58	23%	\$15.68
51.0904	Emergency Medical Technology/Technician (EMT Paramedic)	55	1	57	63	11%	\$15.15
51.0911	Radiologic Technology/Science - Radiographer	16	4	124	142	15%	\$30.54

CIP Code	Program	Arizona Western College Completions (2015)	Regional Openings (2017)	Regional Jobs (2017)	Regional Jobs (2027)	% Jobs Change (2017-2027)	Median Hourly Earnings
51.0913	Athletic Training/Trainer	0	1	9	13	44%	\$20.86
51.1105	Pre-Nursing Studies	0	75	1,429	1,763	23%	\$32.03
51.1199	Health/Medical Preparatory Programs, Other	6	99	1,896	2,334	23%	\$39.16
51.2208	Community Health and Preventive Medicine	16	15	335	396	18%	\$28.29
51.3101	Dietetics/Dietitian	6	2	51	61	20%	\$23.49
51.3199	Dietetics and Clinical Nutrition Services, Other	0	1	36	43	19%	\$28.11
51.3501	Massage Therapy/Therapeutic Massage	19	5	118	146	24%	\$11.75
51.3801	Registered Nursing/Registered Nurse	57	63	1,236	1,513	22%	\$33.14
51.3802	Nursing Administration	0	8	155	190	23%	\$45.18
51.3901	Licensed Practical/Vocational Nurse Training	0	12	193	250	30%	\$24.92
51.3902	Nursing Assistant/Aide and Patient Care Assistant/Aide	153	27	581	697	20%	\$12.08
52.0101	Business/Commerce, General	25	137	2,992	3,467	16%	\$28.18
52.0201	Business Administration and Management, General	45	152	3,370	3,894	16%	\$26.64
52.0203	Logistics, Materials, and Supply Chain Management	2	3	101	109	8%	\$36.60
52.0204	Office Management and Supervision	2	31	707	862	22%	\$20.03
52.0212	Retail Management	0	121	2,806	3,228	15%	\$21.56
52.0301	Accounting	18	26	513	603	18%	\$25.83
52.0701	Entrepreneurship/Entrepreneurial Studies	1	105	2,101	2,503	19%	\$27.54
52.0901	Hospitality Administration/Management, General	1	11	327	338	3%	\$16.32
52.0904	Hotel/Motel Administration/Management	0	16	375	406	8%	\$15.99
52.1399	Management Sciences and Quantitative Methods, Other	0	2	21	30	43%	\$31.20
52.1401	Marketing/Marketing Management, General	3	16	357	425	19%	\$29.33
52.2001	Construction Management	2	2	138	114	(17%)	\$24.76
54.0101	History, General	2	0	5	5	0%	\$28.54

Data Set sorted by CIP Codes

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and

Yuma/La Paz Counties Occupational Growth with Median Earnings and Educational Level

Top 100 Occupations 2016 By Median Hourly Earnings Per Educational Level

SOC	Description	Annual Openings	2016 Jobs	2027 Jobs	2017 - 2027 % Change	Median Hourly Earnings	Typical Entry Level Education
29-1063	Internists, General	2	59	66	10%	\$123.57	Doctoral or professional degree
29-1067	Surgeons	Insf. Data	15	20	25%	\$113.27	Doctoral or professional degree
29-1061	Anesthesiologists	2	36	44	19%	\$112.38	Doctoral or professional degree
29-1069	Physicians and Surgeons, All Other	7	144	175	18%	\$111.54	Doctoral or professional degree
29-1066	Psychiatrists	Insf. Data	10	13	18%	\$105.30	Doctoral or professional degree
29-1065	Pediatricians, General	Insf. Data	14	18	20%	\$77.83	Doctoral or professional degree
29-1062	Family and General Practitioners	3	72	86	16%	\$75.64	Doctoral or professional degree
29-1151	Nurse Anesthetists	Insf. Data	11	16	33%	\$75.49	Master's degree
29-1051	Pharmacists	8	140	188	28%	\$66.35	Doctoral or professional degree
29-1021	Dentists, General	4	72	98	29%	\$60.90	Doctoral or professional degree
29-1041	Optometrists	2	19	26	30%	\$58.32	Doctoral or professional degree
29-1071	Physician Assistants	7	139	178	24%	\$55.49	Master's degree
53-2021	Air Traffic Controllers	1	43	42	(2%)	\$53.72	Associate's degree
29-1171	Nurse Practitioners	8	123	170	32%	\$52.34	Master's degree
53-2011	Airline Pilots, Copilots, and Flight Engineers	Insf. Data	17	20	18%	\$49.26	Bachelor's degree
23-1023	Judges, Magistrate Judges, and Magistrates	1	31	37	16%	\$47.66	Doctoral or professional degree
17-2072	Electronics Engineers, Except Computer	2	42	53	20%	\$45.56	Bachelor's degree
11-9111	Medical and Health Services Managers	8	150	190	23%	\$45.18	Bachelor's degree
29-1131	Veterinarians	Insf. Data	22	27	17%	\$45.18	Doctoral or professional degree
17-2199	Engineers, All Other	3	96	108	10%	\$45.01	Bachelor's degree
29-1124	Radiation Therapists	Insf. Data	12	14	17%	\$44.75	Associate's degree
11-9121	Natural Sciences Managers	Insf. Data	15	21	31%	\$43.19	Bachelor's degree
11-9041	Architectural and Engineering Managers	4	46	66	35%	\$41.96	Bachelor's degree
15-1143	Computer Network Architects	Insf. Data	20	27	29%	\$41.65	Bachelor's degree
17-2061	Computer Hardware Engineers	Insf. Data	39	39	0%	\$41.46	Bachelor's degree

SOC	Description	Annual Openings	2016 Jobs	2027 Jobs	2017 - 2027 % Change	Median Hourly Earnings	Typical Entry Level Education
11-3061	Purchasing Managers	Insf. Data	21	23	10%	\$40.98	Bachelor's degree
29-2035	Magnetic Resonance Imaging Technologists	Insf. Data	15	17	13%	\$40.86	Associate's degree
29-2032	Diagnostic Medical Sonographers	1	19	26	37%	\$40.36	Associate's degree
23-1011	Lawyers	6	173	207	18%	\$40.14	Doctoral or professional degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	Insf. Data	11	12	9%	\$40.06	Doctoral or professional degree
49-9051	Electrical Power-Line Installers and Repairers	3	31	48	45%	\$40.03	High school diploma or equivalent
15-1133	Software Developers, Systems Software	2	31	44	38%	\$39.41	Bachelor's degree
17-2131	Materials Engineers	2	43	51	16%	\$39.39	Bachelor's degree
11-3021	Computer and Information Systems Managers	3	60	79	27%	\$39.26	Bachelor's degree
17-2141	Mechanical Engineers	6	79	111	34%	\$39.19	Bachelor's degree
11-2031	Public Relations and Fundraising Managers	Insf. Data	15	19	19%	\$38.91	Bachelor's degree
11-3071	Transportation, Storage, and Distribution Managers	2	59	65	8%	\$38.88	High school diploma or equivalent
11-2021	Marketing Managers	3	52	65	20%	\$38.68	Bachelor's degree
19-2031	Chemists	3	19	38	90%	\$38.54	Bachelor's degree
29-1123	Physical Therapists	6	56	97	59%	\$38.47	Doctoral or professional degree
41-9031	Sales Engineers	Insf. Data	18	21	11%	\$38.38	Bachelor's degree
11-1011	Chief Executives	11	210	286	30%	\$38.27	Bachelor's degree
19-2099	Physical Scientists, All Other	Insf. Data	19	21	11%	\$38.13	Bachelor's degree
49-3011	Aircraft Mechanics and Service Technicians	2	67	68	1%	\$37.84	Postsecondary nondegree award
15-1121	Computer Systems Analysts	7	180	225	21%	\$37.09	Bachelor's degree
29-2021	Dental Hygienists	6	81	125	44%	\$36.92	Associate's degree
33-3021	Detectives and Criminal Investigators	21	748	777	3%	\$36.91	High school diploma or equivalent
11-3131	Training and Development Managers	1	17	22	22%	\$36.72	Bachelor's degree

SOC	Description	Annual Openings	2016 Jobs	2027 Jobs	2017 - 2027 % Change	Median Hourly Earnings	Typical Entry Level Education
15-1132	Software Developers, Applications	3	61	87	36%	\$36.45	Bachelor's degree
13-2031	Budget Analysts	2	46	51	9%	\$36.07	Bachelor's degree
11-3031	Financial Managers	10	185	241	26%	\$35.75	Bachelor's degree
15-1199	Computer Occupations, All Other	2	81	91	10%	\$35.59	Bachelor's degree
13-1041	Compliance Officers	7	321	348	7%	\$35.58	Bachelor's degree
19-3099	Social Scientists and Related Workers, All Other	Insf. Data	22	23	5%	\$35.38	Bachelor's degree
11-9032	Education Administrators, Elementary and Secondary School	6	135	154	12%	\$35.00	Master's degree
53-2012	Commercial Pilots	2	62	66	6%	\$34.92	High school diploma or equivalent
17-2112	Industrial Engineers	3	31	48	45%	\$34.73	Bachelor's degree
13-1131	Fundraisers	Insf. Data	15	20	33%	\$34.58	Bachelor's degree
29-1122	Occupational Therapists	3	42	62	41%	\$34.48	Master's degree
17-2051	Civil Engineers	6	102	135	27%	\$34.35	Bachelor's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	Insf. Data	15	18	13%	\$34.27	Bachelor's degree
17-2041	Chemical Engineers	Insf. Data	12	14	17%	\$34.25	Bachelor's degree
29-1181	Audiologists	Insf. Data	12	16	23%	\$33.85	Doctoral or professional degree
11-9033	Education Administrators, Postsecondary	2	33	39	18%	\$33.77	Master's degree
17-2011	Aerospace Engineers	1	31	33	6%	\$33.57	Bachelor's degree
11-3121	Human Resources Managers	4	55	75	29%	\$33.54	Bachelor's degree
13-1081	Logisticians	Insf. Data	40	44	10%	\$33.23	Bachelor's degree
29-1141	Registered Nurses	60	1,199	1,513	22%	\$33.14	Bachelor's degree
17-2071	Electrical Engineers	3	65	82	21%	\$32.98	Bachelor's degree
13-2051	Financial Analysts	4	91	115	22%	\$32.89	Bachelor's degree
11-3011	Administrative Services Managers	4	96	122	22%	\$32.89	Bachelor's degree
29-1011	Chiropractors	Insf. Data	15	16	7%	\$32.74	Doctoral or professional degree
17-2031	Biomedical Engineers	2	46	53	13%	\$32.69	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	3	45	61	30%	\$32.65	Bachelor's degree
17-3023	Electrical and Electronics Engineering Technicians	3	64	81	21%	\$32.49	Associate's degree

SOC	Description	Annual Openings	2016 Jobs	2027 Jobs	2017 - 2027 % Change	Median Hourly Earnings	Typical Entry Level Education
33-1012	First-Line Supervisors of Police and Detectives	6	128	145	12%	\$32.30	High school diploma or equivalent
29-2011	Medical and Clinical Laboratory Technologists	2	48	58	18%	\$32.12	Bachelor's degree
19-1029	Biological Scientists, All Other	Insf. Data	17	18	6%	\$31.87	Bachelor's degree
13-1199	Business Operations Specialists, All Other	10	356	419	15%	\$31.87	Bachelor's degree
13-2072	Loan Officers	3	64	83	26%	\$31.71	Bachelor's degree
29-1126	Respiratory Therapists	2	35	48	30%	\$31.63	Associate's degree
19-1042	Medical Scientists, Except Epidemiologists	1	14	20	33%	\$31.34	Doctoral or professional degree
15-2031	Operations Research Analysts	1	20	30	43%	\$31.20	Bachelor's degree
53-6051	Transportation Inspectors	Insf. Data	11	14	27%	\$30.89	High school diploma or equivalent
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	5	105	122	14%	\$30.78	Bachelor's degree
15-1141	Database Administrators	1	22	29	26%	\$30.55	Bachelor's degree
13-2052	Personal Financial Advisors	14	270	343	22%	\$30.37	Bachelor's degree
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5	109	133	17%	\$30.34	Bachelor's degree
11-3051	Industrial Production Managers	4	83	99	15%	\$30.31	Bachelor's degree
11-2022	Sales Managers	8	203	234	13%	\$30.19	Bachelor's degree
25-1099	Postsecondary Teachers	23	538	675	22%	\$30.12	Doctoral or professional degree
13-2099	Financial Specialists, All Other	Insf. Data	45	50	9%	\$30.10	Bachelor's degree
13-1111	Management Analysts	7	196	236	17%	\$30.05	Bachelor's degree
21-1022	Healthcare Social Workers	4	72	92	24%	\$29.98	Master's degree
27-3042	Technical Writers	1	32	36	9%	\$29.51	Bachelor's degree
15-1131	Computer Programmers	2	58	63	9%	\$29.25	Bachelor's degree
19-1023	Zoologists and Wildlife Biologists	Insf. Data	16	18	13%	\$29.14	Bachelor's degree
29-2034	Radiologic Technologists	4	107	125	15%	\$29.11	Associate's degree

SOC	Description	Annual Openings	2016 Jobs	2027 Jobs	2017 - 2027 % Change	Median Hourly Earnings	Typical Entry Level Education
33-1021	First-Line Supervisors of Fire Fighting and Prevention Workers	4	62	72	14%	\$29.05	Postsecondary nondegree award
15-1142	Network and Computer Systems Administrators	3	82	103	23%	\$28.68	Bachelor's degree
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1	41	45	10%	\$28.56	Postsecondary nondegree award

EMSI 2017 2nd Quarter

Data Set sorted by Median Hourly Earnings

Data Sources and Calculations

Occupation Data

Emsi occupation employment data are based on final Emsi industry data and final Emsi staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level Emsi earnings by industry.

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics

Yuma/La Paz Counties Industrial Growth with Annual Earnings

10 Year Projection 2017-2027

Industries with Over 200 Jobs by 2027

NAICS	Description	2017 Jobs	2027 Jobs	2017 - 2027 Change	2017 - 2027 % Change	2017 - 2027 State % Change	2017 - 2027 National % Change	Current Wages, Salaries, & Proprietor Earnings
115115	Farm Labor Contractors and Crew Leaders	6,807	6,976	169	2%	7%	14%	\$21,925
903999	Local Government, Excluding Education and Hospitals	6,048	6,789	741	12%	13%	6%	\$38,278
901200	Federal Government, Military	4,497	5,490	993	22%	15%	3%	\$54,640
903611	Elementary and Secondary Schools (Local Government)	4,282	4,717	435	10%	10%	7%	\$34,657
111000	Crop Production	4,271	4,546	275	6%	2%	(0%)	\$33,416
901199	Federal Government, Civilian, Excluding Postal Service	3,540	3,470	(70)	(2%)	3%	(4%)	\$76,817
561422	Telemarketing Bureaus and Other Contact Centers	2,252	3,215	963	43%	45%	24%	\$20,478
722513	Limited-Service Restaurants	2,469	2,922	453	18%	19%	10%	\$14,068
622110	General Medical and Surgical Hospitals	2,380	2,717	337	14%	23%	8%	\$58,215
722511	Full-Service Restaurants	2,220	2,383	163	7%	13%	8%	\$17,448
452910	Warehouse Clubs and Supercenters	1,785	2,350	565	32%	31%	27%	\$25,513
115114	Postharvest Crop Activities (except Cotton Ginning)	2,012	2,194	182	9%	12%	14%	\$37,742
902999	State Government, Excluding Education and Hospitals	1,614	2,132	518	32%	6%	3%	\$45,281
561720	Janitorial Services	1,503	1,892	389	26%	16%	11%	\$19,567
621111	Offices of Physicians (except Mental Health Specialists)	1,404	1,793	389	28%	26%	18%	\$71,860
903612	Colleges, Universities, and Professional Schools (Local Government)	1,191	1,332	141	12%	8%	17%	\$22,724
541380	Testing Laboratories	947	1,306	359	38%	14%	7%	\$55,920
624410	Child Day Care Services	1,073	1,084	11	1%	3%	0%	\$10,735
561730	Landscaping Services	933	1,033	100	11%	11%	11%	\$17,672
445110	Supermarkets and Other Grocery (except Convenience) Stores	1,117	979	(138)	(12%)	10%	6%	\$24,711
441210	Recreational Vehicle Dealers	666	905	239	36%	23%	18%	\$48,903
721110	Hotels (except Casino Hotels) and Motels	805	870	65	8%	11%	10%	\$19,680
561330	Professional Employer Organizations	420	756	336	80%	3%	(6%)	\$36,029
441110	New Car Dealers	620	730	110	18%	15%	10%	\$52,555

NAICS	Description	2017 Jobs	2027 Jobs	2017 - 2027 Change	2017 - 2027 % Change	2017 - 2027 State % Change	2017 - 2027 National % Change	Current Wages, Salaries, & Proprietor Earnings
531210	Offices of Real Estate Agents and Brokers	715	721	6	1%	3%	4%	\$16,062
611110	Elementary and Secondary Schools	529	634	105	20%	23%	11%	\$29,108
621610	Home Health Care Services	381	600	219	57%	40%	39%	\$27,008
211111	Crude Petroleum and Natural Gas Extraction	396	591	195	49%	36%	29%	\$37,845
621210	Offices of Dentists	405	582	177	44%	25%	17%	\$43,157
452112	Discount Department Stores	497	571	74	15%	3%	(7%)	\$15,597
623110	Nursing Care Facilities (Skilled Nursing Facilities)	472	560	88	19%	33%	10%	\$33,623
447110	Gasoline Stations with Convenience Stores	660	559	(101)	(15%)	15%	7%	\$19,966
447190	Other Gasoline Stations	371	551	180	49%	22%	2%	\$19,944
446110	Pharmacies and Drug Stores	376	530	154	41%	14%	0%	\$41,791
531110	Lessors of Residential Buildings and Dwellings	484	527	43	9%	12%	16%	\$31,100
522110	Commercial Banking	464	523	59	13%	30%	3%	\$39,942
238210	Electrical Contractors and Other Wiring Installation Contractors	445	520	75	17%	11%	15%	\$36,295
524126	Direct Property and Casualty Insurance Carriers	312	518	206	66%	19%	(3%)	\$39,769
424910	Farm Supplies Merchant Wholesalers	428	510	82	19%	9%	3%	\$77,046
813110	Religious Organizations	443	506	63	14%	24%	9%	\$17,579
115113	Crop Harvesting, Primarily by Machine	679	501	(178)	(26%)	(18%)	23%	\$28,426
115112	Soil Preparation, Planting, and Cultivating	365	495	130	36%	32%	20%	\$31,698
531390	Other Activities Related to Real Estate	471	487	16	3%	4%	11%	\$24,265
311511	Fluid Milk Manufacturing	346	486	140	40%	30%	1%	\$35,628
238220	Plumbing, Heating, and Air-Conditioning Contractors	474	476	2	0%	11%	13%	\$32,533
454390	Other Direct Selling Establishments	498	455	(43)	(9%)	5%	(2%)	\$10,449
624120	Services for the Elderly and Persons with Disabilities	360	454	94	26%	29%	21%	\$12,537
484121	General Freight Trucking, Long-Distance, Truckload	450	454	4	1%	11%	4%	\$33,206
541330	Engineering Services	320	438	118	37%	(0%)	10%	\$60,576
721211	RV (Recreational Vehicle) Parks and Campgrounds	379	419	40	11%	12%	22%	\$24,195
812990	All Other Personal Services	386	408	22	6%	9%	8%	\$18,290
531311	Residential Property Managers	292	408	116	40%	29%	24%	\$21,054
115116	Farm Management Services	382	407	25	7%	11%	19%	\$21,071
524210	Insurance Agencies and Brokerages	376	403	27	7%	21%	7%	\$31,327

NAICS	Description	2017 Jobs	2027 Jobs	2017 - 2027 Change	2017 - 2027 % Change	2017 - 2027 State % Change	2017 - 2027 National % Change	Current Wages, Salaries, & Proprietor Earnings
551114	Corporate, Subsidiary, and Regional Managing Offices	265	385	120	45%	19%	10%	\$45,055
812112	Beauty Salons	337	383	46	14%	14%	11%	\$17,676
811111	General Automotive Repair	348	382	34	10%	10%	10%	\$27,745
722515	Snack and Nonalcoholic Beverage Bars	294	375	81	28%	28%	17%	\$14,137
621340	Offices of Physical, Occupational and Speech Therapists, and Audiologists	238	373	135	57%	37%	36%	\$34,804
623990	Other Residential Care Facilities	262	357	95	36%	24%	5%	\$13,656
531130	Lessors of Miniwarehouses and Self-Storage Units	289	355	66	23%	21%	21%	\$27,627
444110	Home Centers	305	354	49	16%	12%	9%	\$26,126
443142	Electronics Stores	289	343	54	19%	(6%)	(4%)	\$38,874
531120	Lessors of Nonresidential Buildings (except Miniwarehouses)	287	340	53	18%	18%	17%	\$29,253
811310	Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Maintenance	242	334	92	38%	14%	7%	\$38,745
531190	Lessors of Other Real Estate Property	331	311	(20)	(6%)	15%	14%	\$29,085
561110	Office Administrative Services	262	309	47	18%	28%	14%	\$34,072
622310	Specialty (except Psychiatric and Substance Abuse) Hospitals	194	304	110	57%	47%	25%	\$46,317
621498	All Other Outpatient Care Centers	252	293	41	16%	63%	40%	\$12,694
621492	Kidney Dialysis Centers	163	292	129	79%	45%	34%	\$49,277
517110	Wired Telecommunications Carriers	243	290	47	19%	(1%)	(5%)	\$75,972
221310	Water Supply and Irrigation Systems	217	290	73	34%	14%	15%	\$54,715
623220	Residential Mental Health and Substance Abuse Facilities	160	287	127	79%	50%	31%	\$27,880
523930	Investment Advice	228	280	52	23%	18%	11%	\$25,588
814110	Private Households	264	270	6	2%	9%	9%	\$10,343
492110	Couriers and Express Delivery Services	217	266	49	23%	8%	4%	\$34,014
441310	Automotive Parts and Accessories Stores	238	255	17	7%	10%	8%	\$27,240
453998	All Other Miscellaneous Store Retailers (except Tobacco Stores)	227	255	28	12%	9%	4%	\$18,750
441320	Tire Dealers	193	252	59	31%	13%	7%	\$34,044
561210	Facilities Support Services	282	250	(32)	(11%)	13%	18%	\$47,971

NAICS	Description	2017 Jobs	2027 Jobs	2017 - 2027 Change	2017 - 2027 % Change	2017 - 2027 State % Change	2017 - 2027 National % Change	Current Wages, Salaries, & Proprietor Earnings
722410	Drinking Places (Alcoholic Beverages)	220	247	27	12%	10%	7%	\$16,648
541511	Custom Computer Programming Services	248	245	(3)	(1%)	27%	18%	\$77,806
237130	Power and Communication Line and Related Structures Construction	150	235	85	57%	17%	44%	\$44,913
453991	Tobacco Stores	166	231	65	39%	36%	29%	\$21,099
624190	Other Individual and Family Services	245	230	(15)	(6%)	17%	7%	\$34,806
484110	General Freight Trucking, Local	176	230	54	31%	6%	5%	\$34,552
561790	Other Services to Buildings and Dwellings	180	227	47	26%	13%	12%	\$21,463
713990	All Other Amusement and Recreation Industries	156	227	71	46%	30%	19%	\$23,929
451110	Sporting Goods Stores	170	225	55	32%	25%	23%	\$26,048
335911	Storage Battery Manufacturing	178	217	39	22%	13%	2%	\$49,790
722330	Mobile Food Services	150	212	62	41%	33%	34%	\$21,308
452990	All Other General Merchandise Stores	185	210	25	14%	26%	20%	\$19,403
522130	Credit Unions	173	205	32	18%	14%	15%	\$40,767
311991	Perishable Prepared Food Manufacturing	224	202	(22)	(10%)	38%	20%	\$33,559
236115	New Single-Family Housing Construction (except For-Sale Builders)	380	201	(179)	(47%)	(23%)	(7%)	\$31,376
488210	Support Activities for Rail Transportation	126	200	74	59%	28%	14%	\$20,973

Emsi 2nd Quarter 2017

Data Set sorted by 2027 Jobs

Data Sources and Calculations

Industry Data

Emsi industry data have various sources depending on the class of worker. (1) For QCEW Employees, Emsi primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

State Data Sources

This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics