# FutureMakers Coalition

# Southwest Florida Workforce Overview Study 2015



May 2016

# Prepared by the Research Team:







School of Business & Technology Johnson School of Business

Regional Economic Research Institute Lutgert College of Business

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## WORKFORCE NOW INITIATIVE

### 2015 Workforce Overview Study

### PREFACE

*Workforce Now* is a regional research initiative to identify current and future talent requirements for the five counties of Southwest Florida. The initiative was created in October 2012 as an outcome of discussions following the Education Summits produced by The News-Press Media Group. It is envisioned as a systematic, strategic multi-year focus on understanding and meeting critical workforce needs.

The initiative is designed to provide better information on workforce gaps including skills, knowledge, and characteristics desired by regional employers. The plan is to provide a continuous stream of labor force information to employers and educational institutions and to look for ways to create dialogue and new partnerships between businesses and educational institutions. The quality of the regional workforce is a primary competitive factor in the region's ability to grow and prosper in a global marketplace.

This report is an annual overview of the Southwest Florida labor market that identifies the mix of industries, the industry growth trends, current employment gaps, and the average annual projected demand for regional occupations through 2022. It also defines the size of the regional employment gaps and identifies areas for further research. This information will help students, parents, businesses, and educators make more informed decisions about careers, employees, and programs.

This project and report would not be possible without the assistance of the Florida Department of Economic Opportunity and the generous support of the founding Workforce Now investors:

The News-Press Media Group Partnership for Collier's Future Economy – Opportunity Naples The Lee County Industrial Development Authority The Southwest Florida Workforce Development Board Arthrex, Inc. Busey Bank Chico's FAS, Inc. Florida Gulf Coast University Florida Southwestern State College Hodges University Manhattan Construction

Workforce Now



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Page i

The authors would like to thank Sarah Owen, President and CEO of the Southwest Florida Community Foundation, for leading this effort and to its numerous sponsors. We would also like to acknowledge Mei-Mei Chan, the former President and Publisher of the News-Press Media Group, whose past leadership and influence helped shape Workforce Now into such an important ongoing research effort, and Dr. Gary Jackson, whose contributions to previous Workforce Overview studies added tremendous value to this project. Florida Gulf Coast University, Florida Southwestern State College, and Hodges University provided the research leadership and staff to complete this third Workforce Now annual overview report.

The views expressed in the report and any errors contained are those of the authors and not of the institutions or companies that supported or participated in the Workforce Now project. The Workforce Now Reports are available at:

www.fgcu.edu/cob/reri/wfn/.

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# **Table of Contents**

| Prefacei  |
|---|
| Executive Summaryv  |
| 1.0 Introduction1   |
| 2.0 Employment and Income Ranked by Industry  |
| 3.0 Southwest Florida Industry Mix Compared to the State of Florida                         |
| 4.0 Southwest Florida's Fastest and Slowest Growth Industries, 2010 to 2014 10              |
| 5.0 Projected Industry Employment Growth for Southwest Florida 2014-2022                    |
| 6.0 Southwest Florida Occupational Employment Gaps for November 201517                      |
| 7.0 Southwest Florida Current Employment Gaps by Major Occupational Group24                 |
| 8.0 Southwest Florida Long-term Average Annual Employment Growth by Occupation 2014 to 2022 |
| 9.0 Top Growth Occupations by Minimum Educational Requirement                               |
| 10.0 Herfindahl-Hirschman Index   |
| Summary/Conclusions   |







# **RESEARCH TEAM**

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## **EXECUTIVE SUMMARY**

This is the third annual Southwest Florida workforce overview study providing key information about industries, occupations, employment gaps, and projected job growth. The study is divided into three major sections:

- Historic, current, and projected employment by industry
- Current (December 2015) employment gaps by occupation
- Projected employment demand by occupation

This information can be used by key stakeholders throughout the region to define the size of the regional employment gaps. In addition, the information will help students, parents, businesses, and educators make more informed decisions about careers, employees, and programs. Finally, the study helps researchers target future areas of investigation that will be needed to identify the regional specific skills, tasks, knowledge, abilities, and work activities for the occupational gaps identified by this study.

The study was started in the middle of November 2015 and was completed by the end of that year. Primary data collection and analysis were conducted by Dr. Christopher Westley and the Regional Economic Research Institute at Florida Gulf Coast University. The predominant source of workforce data for the study was the Florida Department of Economic Opportunity. Final report development, editing, and formatting was supported by the Workforce Now team. The Southwest Florida region is defined as Charlotte, Collier, Glades, Hendry, and Lee Counties.







# **KEY FINDINGS**

## Historic, Current, and Projected Employment by Industry

- Economic recovery continues with employment and unemployment rates reaching levels closer to normal long-term values;
- Southwest Florida has 543,906 employed workers, compared to 9.16 million employed in Florida;
- The average annual Southwest Florida wage is \$38,852 compared to \$44,810 for Florida and \$51,296 for the nation;
- The largest industries by employment are retail trade (19.0%), accommodation and food services (15.5%), health care and social assistance (14.1%), construction (9.9%), and administrative and waste services (7.1%);
- The largest industries by wage income are health care and social assistance (18.1%), retail trade (13.8%), construction (10.3%), accommodation and food services (8.4%), and professional and technical services (8.3%);
- The fastest growing industries between 2010 and 2014 as measured by employment are accommodation and food services (10,656), retail trade (8,731), construction (7,574), health care and social assistance (4,825), and administrative and waste services (4,567);
- The slowest growth industries from 2010 to 2014 have been utilities (24), information (113), mining, quarrying, and natural gas extraction (122), and finance and insurance (299);
- The fastest growth industries between 2014 and 2022 are projected to be construction adding 1,675 jobs per year, health care and social assistance adding 1,460 jobs per year, retail trade adding 991 jobs per year, accommodations and food services adding 872 jobs per year, and self-employed and unpaid family workers adding 549 jobs per year.







### **Current Employment Gaps by Occupation (December 2015)**

The Florida Department of Economic Opportunity study/data identified 3,372 current employment gap positions for Southwest Florida, signifying a decline of one-third (or 1,638 positions) from the figure reported in the Workforce Overview Study for 2014.

The top 10 employment gaps where demand is estimated to be greater than supply are shown in the following table. Four of the top 10 occupations are in the health care industry, which compares from two of the top 10 in the previous report. These include registered nurses, retail supervisors, retail salespersons, supervisors for food preparation and serving, construction trades supervisors, maintenance and repair workers, speech language pathologists, landscaping and groundskeepers, medical and health services managers, and physical therapists. The median wage varies from \$10.59 per hour to \$46.17 per hour.

| The Current Top 10 Short-Term Employment Gaps<br>for Southwest Florida     |                       |                       |                |                      |  |  |
|--|-----------------------|-----------------------|----------------|----------------------|--|--|
| Occupation   | Current<br>Supply Gap | Current<br>Employment | Median<br>Wage | Minimum<br>Education |  |  |
| Registered Nurses  | -534                  | 8,762                 | 29.28          | Associate            |  |  |
| First-Line Supervisors of Retail Sales Workers                             | -397                  | 8,481                 | 18.73          | PS Adult Voc         |  |  |
| Retail Salespersons  | -384                  | 23,266                | 10.81          | HS/GED               |  |  |
| First-Line Supervisors of Food<br>Preparation and Serving Workers          | -344                  | 3,670                 | 16.69          | PS Adult Voc         |  |  |
| First-Line Supervisors of<br>Construction Trades and<br>Extraction Workers | -174                  | 2,516                 | 25.94          | Associate            |  |  |
| Maintenance and Repair<br>Workers, General                                 | -170                  | 4,715                 | 15.82          | PS Adult Voc         |  |  |
| Speech-Language Pathologists   | -165                  | 395                   | 36.77          | Master's or higher   |  |  |
| Landscaping and<br>Groundskeeping Workers                                  | -147                  | 11,155                | 10.59          | Less HS/GED          |  |  |
| Medical and Health Services<br>Managers                                    | -137                  | 724                   | 46.17          | Bachelor's           |  |  |
| Physical Therapists  | -133                  | 929                   | 39.78          | Doctorate            |  |  |

- Registered nurses had the largest employment gap of -534. This field did not make the top 10 list in the most previous workforce overview (in October 2014). On average, each 10 jobs filled are worth an additional \$585,600 in income;
- First line supervisors of retail salespersons had the next highest employment gap of -397. On average, each 10 jobs filled are worth an additional \$374,600 in income;
- Retail salespersons made up the next highest employment gap of -384. On average, for each 10 jobs filled, income would rise by \$216,200;

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- First line supervisors in the food prep industry's employment gap was -344. For each 10 positions filled, \$333,800 in additional income is earned;
- First line supervisors in the construction trades' employment gap was -174. For each 10 positions filled, income would rise by \$518,800;
- Maintenance and repair trades' employment gap was -170. On average, each 10 jobs filled would raise income by \$316,400;
- Speech language pathologists' employment gap came next, registering -165. For each 10 vacancies filled, additional income of \$735,400 would be generated;
- Another sign of the regional recovery is an employment gap for landscaping and groundskeeping occupations of -147 positions. For each 10 job vacancies filled, additional income of \$211,800 would be generated;
- Another occupational group is medical and health services management occupations. The study identified an employment gap of -137. On average, for each 10 job vacancies filled, additional income of \$923,400 would be generated;
- Other employment gaps were found in physical therapists, wholesale sales representatives, first line supervisors of mechanics and repairers, carpenters, financial services sales agents, tellers, insurance sales agents, computer systems analysts, janitors, occupational therapists, and medical secretaries.

# **Projected Employment Demand by Occupation**

The top 10 projected high demand regional growth occupations for 2014 to 2022 are shown in the following table. The top growth occupation is retail salespersons with an average annual demand for 1,199 employees per year. This is followed by waiters and waitresses at 1,001 employees per year, cashiers at 708 employees per year, food preparation and serving workers at 555 employees per year, and landscaping and groundskeeping workers at 463 employees per year.

The next five highest occupations in demand are registered nurses, carpenters, office clerks, customer service representatives, and secretaries and administrative assistants.







| The Top 10 Long-Term Growth Occupations<br>Southwest Florida 2014-2022 |       |        |          |              |  |  |
|--|-------|--------|----------|--------------|--|--|
| Occupation Average Annual Annual Growth Current Wage Education         |       |        |          |              |  |  |
| Retail Salespersons  | 1,199 | 23,266 | \$ 10.81 | HS/GED       |  |  |
| Waiters and Waitresses   | 1,001 | 14,685 | \$ 9.10  | Less HS/GED  |  |  |
| Cashiers   | 708   | 12,132 | \$ 9.43  | HS/GED       |  |  |
| Combined Food Prep and Servicing Workers                               | 555   | 11,644 | \$ 9.02  | Less HS/GED  |  |  |
| Landscaping and Groundskeeping Workers                                 | 463   | 11,155 | \$ 10.59 | Less HS/GED  |  |  |
| Registered Nurses  | 449   | 8,762  | \$ 29.28 | Some College |  |  |
| Carpenters   | 399   | 6,265  | \$ 17.12 | PS Adult Voc |  |  |
| Office Clerks, General   | 345   | 7,723  | \$ 12.37 | HS/GED       |  |  |
| Customer Service Representatives                                       | 323   | 6,670  | \$ 13.31 | PS Adult Voc |  |  |
| Secretaries and Administrative Assistants                              | 305   | 10,572 | \$ 14.71 | PS Adult Voc |  |  |

The study finally looked at long-run occupational growth by identifying the fastestgrowing occupations by the minimal educational requirement including:

- ✓ Post-Secondary Adult Vocational or Higher
- ✓ Some College or Higher
- ✓ Bachelor's Degree or Higher
- ✓ Master's Degree or Higher

#### <u>The Fastest Growing Occupations Requiring Post-Secondary Adult Vocational</u> <u>Training</u>

The top projected adult vocational education growth occupations are shown in the following table. These represent positions in sales, construction, health care, and maintenance and are expected to grow between 168 and 399 positions for each year from 2014 to 2022.







| The Top 10 Adult Vocational Growth Occupations<br>Southwest Florida 2014-2022       |     |        |         |            |  |  |
|---|-----|--------|---------|------------|--|--|
| Occupation Average Current Median Minin<br>Growth Brown Wage Education              |     |        |         |            |  |  |
| Carpenters  | 399 | 6,265  | \$17.12 | Adult Voc. |  |  |
| Customer Service Representatives  | 323 | 6,670  | \$13.31 | Adult Voc. |  |  |
| Secretaries and Administrative Assistants, Except                                   |     |        |         |            |  |  |
| Legal, Medical, and Executive   | 305 | 10,572 | \$14.71 | Adult Voc. |  |  |
| First-Line Supervisors of Retail Sales Workers                                      | 304 | 8,481  | \$18.73 | Adult Voc. |  |  |
| Nursing Assistants  | 258 | 5,704  | \$12.57 | Adult Voc. |  |  |
| Cooks, Restaurant   | 240 | 6,107  | \$11.21 | Adult Voc. |  |  |
| Painters, Construction and Maintenance  | 200 | 3,123  | \$14.13 | Adult Voc. |  |  |
| Real Estate Sales Agents  | 196 | 4,614  | \$18.41 | Adult Voc. |  |  |
| Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific |     |        |         |            |  |  |
| Products  | 177 | 4,061  | \$20.29 | Adult Voc. |  |  |
| Maintenance and Repair Workers, General   | 168 | 4,715  | \$15.82 | Adult Voc. |  |  |

#### The Fastest Growing Occupations Requiring "Some College"

The top projected "some college" education growth occupations are shown in the following table. These represent positions in health care, technology, and construction and are expected to grow between 111 and 449 positions for each year from 2014 to 2022.

| The Top 8 Some College Growth Occupations<br>Southwest Florida 2014-2022      |     |       |         |              |  |  |
|---|-----|-------|---------|--------------|--|--|
| Occupation Average Current Median Minimum<br>Growth Employment Wage Education |     |       |         |              |  |  |
| Registered Nurses   | 449 | 8,762 | \$29.28 | Some College |  |  |
| First-Line Supervisors of Construction Trades<br>and Extraction Workers       | 182 | 2,516 | \$25.94 | Some College |  |  |
| Bookkeeping, Accounting, and Auditing Clerks                                  | 179 | 5,393 | \$16.06 | Some College |  |  |
| First-Line Supervisors of Office and<br>Administrative Support Workers        | 176 | 3,744 | \$22.61 | Some College |  |  |
| Construction Managers   | 141 | 3,557 | \$32.92 | Some College |  |  |
| Farmers, Ranchers, and Other Agricultural Managers                            | 139 | 7,201 | \$28.69 | Some College |  |  |
| General and Operations Managers   | 117 | 3,800 | \$45.92 | Some College |  |  |
| Business Operations Specialists, All Other                                    | 111 | 2,672 | \$26.80 | Some College |  |  |





#### The Fastest Growing Occupations Requiring Bachelor's Degree or Higher

The top projected bachelor's degree or higher education growth occupations are shown in the following table. These represent positions in education, finance, medical care, finance, and management and are expected to grow between 42 and 187 positions for each year from 2014 to 2022.

| The Top 10 Bachelor's or Higher Growth Occupations<br>Southwest Florida 2014-2022 |     |       |         |                    |  |  |
|---|-----|-------|---------|--------------------|--|--|
| Occupation Average Current Median Minimum<br>Growth Employment Wage Education     |     |       |         |                    |  |  |
| Elementary School Teachers  | 187 | 3,896 | \$29.03 | Bachelor's         |  |  |
| Accountants and Auditors  | 162 | 3,686 | \$28.73 | Bachelor's         |  |  |
| Secondary School Teachers   | 95  | 2,202 | \$30.56 | Bachelor's         |  |  |
| Middle School Teachers  | 94  | 1,956 | \$29.28 | Bachelor's         |  |  |
| Management Analysts   | 86  | 1,625 | \$29.01 | Bachelor's         |  |  |
| Lawyers   | 75  | 1,812 | \$36.67 | Master's or higher |  |  |
| Family and General Practitioners  | 49  | 991   | \$91.72 | Master's or higher |  |  |
| Pharmacists   | 48  | 940   | \$59.40 | Master's or higher |  |  |
| Physical Therapists   | 44  | 929   | \$39.78 | Master's or higher |  |  |
| Market Research Analysts  | 42  | 510   | \$23.04 | Bachelor's         |  |  |

#### **Summary & Recommendations**

This third annual study is an important step in providing an annual overview of Southwest Florida's labor market including identification of current employment gaps and projected growth occupations. This provides an overall market assessment of the current and expected occupational needs which is an important component in the development of new or modified educational programs. The information gathered in this report includes the median hourly wage and the minimum educational requirements complementing the other Workforce Now studies completed last year. In closing, the following recommendations are put forward by the study team:







#### **Recommendations**

- A Southwest Florida Labor Market overview should be completed annually and timed to use the latest forecasts provided by the Florida Department of Economic Opportunity.
- 2. The labor market overviews should identify future research opportunities and collaborative opportunities for businesses and educators.
- Further study of the employment gaps is needed to explore local skills, knowledge, tasks, abilities and activities required to fill the employment gaps and increased demand.
- 4. The data show consistency with those of last year. However, there appears to be a gradual reduction in the median wage and some fluidity in the order and type of positions listed.







# Southwest Florida Workforce Overview Study 2015

# **1.0 Introduction**

*Workforce Now* is a recent regional initiative to better understand Southwest Florida's labor market including employment gaps, specific skills desired, and forecast occupational growth. This is the third in a series of Southwest Florida labor market overviews which are updated annually.

The purpose of this updated report is to conduct retrospective and prospective data analysis of information and forecasts from the *Florida Department of Economic Opportunity* to identify the mix of industries, the industry growth trends, current employment gaps, and the average annual projected demand for regional occupations through the year 2022.

The study was started in November 2015 and was completed at the end of that year. Primary data collection and analysis were conducted by Dr. Christopher Westley and the Regional Economic Research Institute at Florida Gulf Coast University. The final report development, editing, and formatting were supported by the Workforce Now research team. For the purposes of this study, the Southwest Florida region is defined as Charlotte, Collier, Glades, Hendry, and Lee Counties.









### 2.0 Employment and Income Ranked by Industry

The largest industry when ranked by employment is retail trade with 67,067 employees and 19 percent of all employment, as shown in Chart 1 and Table 1 which is based on the Quarterly Census of Employment and Wages (QCEW). The QCEW includes information on employees covered by the Florida unemployment insurance so it does not include workers who are self-employed.

The second largest industry employer is accommodation and food services, with 54,624 employees and 15.5 percent of regional employment. The third largest industry is health care and social assistance at 49,719, which represents slightly over 14 percent of the region's employment. Construction has rebounded from the recession and is the fourth largest industry with 34,898 employees and almost 10 percent of the region's employment. This constitutes a 14-percent increase in construction employment from 2013 to 2014. The top four industries comprise 58.6 percent of the region's workforce, which also constitutes an increase compared to 2013's measure of just over 50 percent. The fifth largest industry is administrative and waste services employing 24,923 and with 7.1 percent of the region's workforce. This industry includes many service-type occupations.

Southwest Florida has a comparative advantage in weather (sunshine and mild winter temperatures), beaches, and recreational activities. These quality of life characteristics are drivers that support the key industries in Southwest Florida, such as retail trade, health care, accommodation and food services, construction, and support

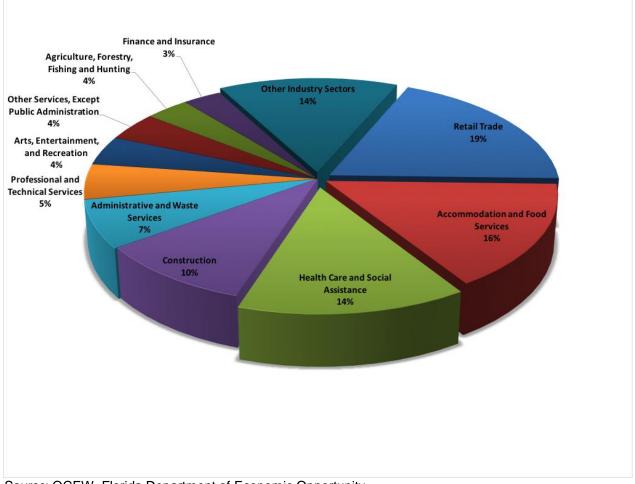




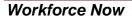


services. Population growth has been a strong driver of wealth for the region creating the need for housing, recreation, and services.





Source: QCEW, Florida Department of Economic Opportunity









# Table 1Employment by Industry2014 Southwest Florida

| Industry                                 | Average<br>Monthly<br>Employment | Percent of<br>Employment |
|--|----------------------------------|--------------------------|
| Retail Trade                             | 67,067                           | 19.0%                    |
| Accommodation and Food Services          | 54,624                           | 15.5%                    |
| Health Care and Social Assistance        | 49,719                           | 14.1%                    |
| Construction                             | 34,898                           | 9.9%                     |
| Administrative and Waste Services        | 24,923                           | 7.1%                     |
| Professional and Technical Services      | 18,227                           | 5.2%                     |
| Arts, Entertainment, and Recreation      | 15,079                           | 4.3%                     |
| Other Services                           | 14,711                           | 4.2%                     |
| Agriculture, Forestry, Fishing & Hunting | 12,262                           | 3.5%                     |
| Finance and Insurance                    | 10,673                           | 3.0%                     |
| Other Industry Sectors                   | 50,127                           | 14.2%                    |
| Total, All Industries                    | 352,310                          | 100.0%                   |

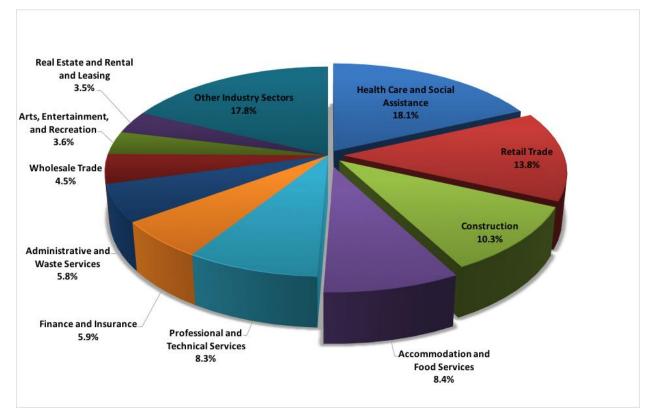
Source: QCEW, Florida Department of Economic Opportunity

The largest contribution to total wage income is health care and social assistance with average annual wage expenditures of \$2.5 billion which represents 18.1 percent of total wage expenditures in Southwest Florida. Retail trade is the next largest total wage expenditure industry with 13.8 percent of the region's total annual wage and expenditures of \$1.9 billion. The third largest industry measured by total wage expenditures is construction, with 10.3 percent of the total regional wage expenditures at \$1.4 billion. Accommodation and food services is the fourth largest industry as measured by total wages at \$1.2 billion or 8.4 percent of the region's total wage expenditures. The total wage expenditures by industry are shown in Chart 2 and Table 2.













| Table 2                                |
|--|
| Average Annual Wage Income by Industry |
| 2014 Southwest Florida                 |

| Industry                            | Average<br>Annual Wage<br>Expenditures<br>(Billions \$) | Percent of<br>Total Wage |
|-------------------------------------|---|--------------------------|
| Health Care and Social Assistance   | \$2.54  | 18.1%                    |
| Retail Trade                        | \$1.89  | 13.8%                    |
| Construction                        | \$1.41  | 10.3%                    |
| Accommodation and Food Services     | \$1.15  | 8.4%                     |
| Professional and Technical Services | \$1.14  | 8.3%                     |
| Finance and Insurance               | \$0.81  | 5.9%                     |
| Administrative and Waste Services   | \$0.79  | 5.8%                     |
| Wholesale Trade                     | \$0.62  | 4.5%                     |
| Arts, Entertainment, and Recreation | \$0.49  | 3.6%                     |
| Real Estate and Rental and Leasing  | \$0.47  | 3.5%                     |
| Other Industry Sectors              | \$2.43  | 17.8%                    |
| Total, All Industries               | \$15.5  | 100.0%                   |

Source: QCEW, Florida Department of Economic Opportunity









# **3.0 Southwest Florida Industry Mix Compared to the State of Florida**

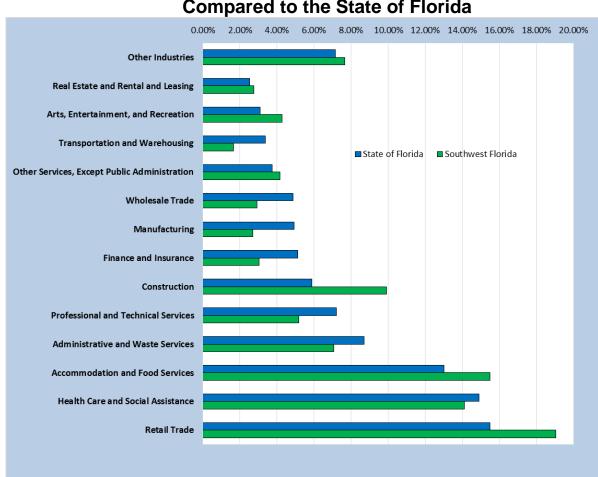
Southwest Florida has a higher percentage of employees in retail trade, accommodation and food services, construction, arts, entertainment, and recreation, other services, and real estate and rental and leasing, compared to the State of Florida, as shown in Chart 3 and Table 3. Southwest Florida's competitive advantage as a preferred location for tourism and retirement certainly helps to explain why the region differs from the state-level percentages. The largest differentials are in the areas, respectively, of construction and retail trade.

The region has a smaller percentage of employment than the state in manufacturing, finance and insurance, professional and technical services, and wholesale trade. Manufacturing employment in Southwest Florida is only 2.7 percent of employment, compared to 4.9 percent for the state as whole.



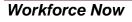






#### Chart 3 2014 Southwest Florida Industry Mix Compared to the State of Florida

Source: QCEW, Florida Department of Economic Opportunity









### Table 3 2014 Southwest Florida Industry Mix Compared to the State of Florida

(Percent)

| Industry                                     | State of<br>Florida | Southwest<br>Florida |
|--|---------------------|----------------------|
| Retail Trade                                 | 15.49%              | 19.04%               |
| Health Care and Social Assistance            | 14.90%              | 14.11%               |
| Accommodation and Food Services              | 13.01%              | 15.50%               |
| Administrative and Waste Services            | 8.69%               | 7.07%                |
| Professional and Technical Services          | 7.22%               | 5.17%                |
| Construction                                 | 5.89%               | 9.91%                |
| Finance and Insurance                        | 5.11%               | 3.03%                |
| Manufacturing                                | 4.92%               | 2.70%                |
| Wholesale Trade                              | 4.87%               | 2.93%                |
| Other Services, Except Public Administration | 3.74%               | 4.18%                |
| Transportation and Warehousing               | 3.36%               | 1.64%                |
| Arts, Entertainment, and Recreation          | 3.08%               | 4.28%                |
| Real Estate and Rental and Leasing           | 2.54%               | 2.76%                |
| Other Industries                             | 7.16%               | 7.67%                |

Source: QCEW, Florida Department of Economic Opportunity





# 4.0 Southwest Florida's Fastest and Slowest Growth Industries, 2010 to 2014

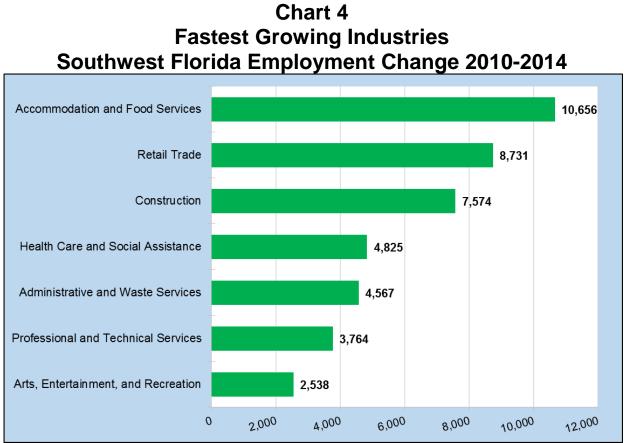
Although the economic recovery had been slow-going in Southwest Florida in 2010 and 2011, the strength of the recovery from 2012 through 2014 contributed to an overall increase in employees in our region by 75,260 employees from December 2010 to December 2014. The fastest-growing industries from 2010 to 2014 were accommodation and food services, retail trade, construction, health care and social assistance, and administrative and waste services, as shown in Chart 4.

The slowest-growing industries were utilities, information (media), mining, quarrying, and oil and natural gas extraction, and finance and insurance, as shown in Chart 5 and Table 4. Construction shifted from being among the lowest-growing industries in the five-year period ending in 2013 (reported last year) to one of the fastest in the five-year period ending in 2014. Given that the recession began as a "housing bubble" and turned into a financial crisis, it is not surprising that finance, construction, and utilities are taking longer to recover than some other sectors. However, the data shows that the region is strongly rebounding, with no industries contracting from 2010 through 2014.

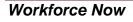








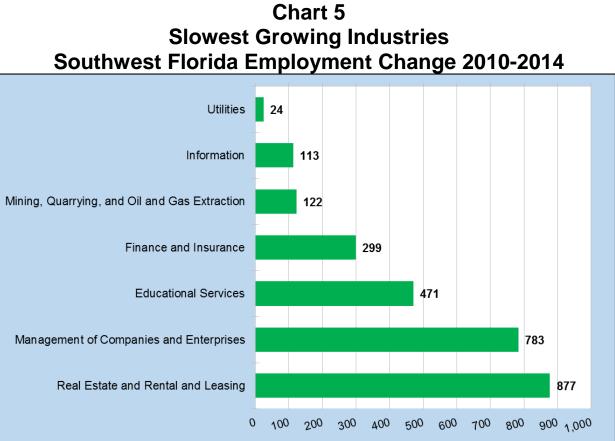
Source: QCEW, Florida Department of Economic Opportunity











Source: QCEW, Florida Department of Economic Opportunity









| Table 4                                       |
|---|
| Southwest Florida Employment Change 2010-2014 |

| Inductry Title                                | Cha    | Change  |  |  |
|---|--------|---------|--|--|
| Industry Title                                | Level  | Percent |  |  |
| Total, All Industries                         | 53,256 | 17.8%   |  |  |
| Accommodation and Food Services               | 10,656 | 24.2%   |  |  |
| Retail Trade                                  | 8,731  | 15.0%   |  |  |
| Construction                                  | 7,574  | 27.7%   |  |  |
| Health Care and Social Assistance             | 4,825  | 10.7%   |  |  |
| Administrative and Waste Services             | 4,567  | 22.4%   |  |  |
| Professional and Technical Services           | 3,764  | 26.0%   |  |  |
| Arts, Entertainment, and Recreation           | 2,538  | 20.2%   |  |  |
| Manufacturing                                 | 1,919  | 25.3%   |  |  |
| Other Services, Except Public Administration  | 1,599  | 12.2%   |  |  |
| Agriculture, Forestry, Fishing and Hunting    | 1,460  | 13.5%   |  |  |
| Wholesale Trade                               | 1,381  | 15.4%   |  |  |
| Transportation and Warehousing                | 1,373  | 31.1%   |  |  |
| Real Estate and Rental and Leasing            | 877    | 9.9%    |  |  |
| Management of Companies and Enterprises       | 783    | 26.7%   |  |  |
| Educational Services                          | 471    | 11.7%   |  |  |
| Finance and Insurance                         | 299    | 2.9%    |  |  |
| Mining, Quarrying, and Oil and Gas Extraction | 122    | 89.1%   |  |  |
| Information                                   | 113    | 2.3%    |  |  |
| Utilities                                     | 24     | 2.1%    |  |  |

Source: QCEW, Florida Department of Economic Opportunity







# 5.0 Projected Industry Employment Growth for Southwest Florida 2014-2022

Each year the Florida Department of Economic Opportunity provides an employment forecast by industry, which is shown in Chart 6 and Table 5. Construction is projected to be the fastest-growing industry in Southwest Florida, adding an average of 1,675 employees each year from 2014 to 2022. Health care and social assistance is projected to add the second largest number of employees, adding 1,460 per year. This is followed by retail trade at 991 employees per year, accommodation and food services at 872 employees per year, and self-employed and unpaid family workers at 549 employees per year. Professional, scientific, and technical services are projected to add 527 employees per year, administrative, support and waste management is projected to add 526 per year and other services is projected to add 220 per year. Arts, entertainment, and recreation is projected to grow by 211 employees per year, wholesale trade by 168 employees per year, management of companies by 150 employees per year, finance and insurance by 147 employees per year, real estate by 146 employees per year, educational services by 142 employees per year, and manufacturing by 118 employees.



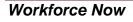




#### Chart 6 Projected Average Annual Employment Growth by Industry for Southwest Florida 2014-2022



Source: Florida Department of Economic Opportunity









# Table 5Projected Average Annual Employment Change by IndustrySouthwest Florida 2014-2022

| Industry   | Average<br>Annual<br>Increase | Average Annual<br>Percentage<br>Increase |
|--|-------------------------------|--|
| Construction                                     | 1,675                         | 5.0%                                     |
| Health Care and Social Assistance                | 1,460                         | 3.0%                                     |
| Retail Trade                                     | 991                           | 1.5%                                     |
| Accommodation and Food Services                  | 872                           | 1.6%                                     |
| Self-Employed and Unpaid Family Workers          | 549                           | 1.2%                                     |
| Professional, Scientific, and Technical Services | 527                           | 2.7%                                     |
| Administrative and Support and Waste Management  | 526                           | 2.1%                                     |
| Other Services                                   | 220                           | 1.3%                                     |
| Arts, Entertainment, and Recreation              | 211                           | 1.4%                                     |
| Wholesale Trade                                  | 168                           | 1.5%                                     |
| Management of Companies and Enterprises          | 150                           | 3.5%                                     |
| Finance and Insurance                            | 147                           | 1.3%                                     |
| Real Estate and Rental and Leasing               | 146                           | 1.5%                                     |
| Educational Services                             | 142                           | 2.6%                                     |
| Manufacturing                                    | 118                           | 1.3%                                     |
| Other  | -35                           | -0.1%                                    |

Source: Florida Department of Economic Opportunity









# 6.0 Southwest Florida Occupational Employment Gaps for November 2015

The study team worked with the Florida Department of Economic Opportunity to identify estimates of the most recent Southwest Florida employment gaps by using online job postings and graduations to identify November 2015 employment gaps. Employment gaps are defined as November 2015 demand minus the supply of applicants and graduates. The overall July employment gap identified by this study using the Florida Department of Economic Opportunity demand and supply analysis was approximately 3,372 positions.

Employment gaps are positions that have a regional demand greater than the estimated supply available for the Southwest Florida market. Some of these positions will be filled from outside the region, firms may hire less qualified candidates, or the positions may be left vacant for an extended period of time. It is our hope that identifying these regional employment gaps can assist parents, students, employers, and educators in identifying potential opportunities. This section provides charts and tables identifying the top 50 current employment gaps for Southwest Florida.

The top 10 employment gaps were for registered nurses, first-line supervisors of retail sales, retail salespersons, first-line supervisors of food preparation and service, first-line supervisors of construction trades, maintenance and repair workers, speechlanguage pathologists, landscaping and groundskeeping workers, medical and health services managers, and physical therapists, as shown in Chart 7. The employment gap, current employment level, median wage and minimum educational requirements for the top 10 employment gaps are shown in Table 6. The median hourly wages

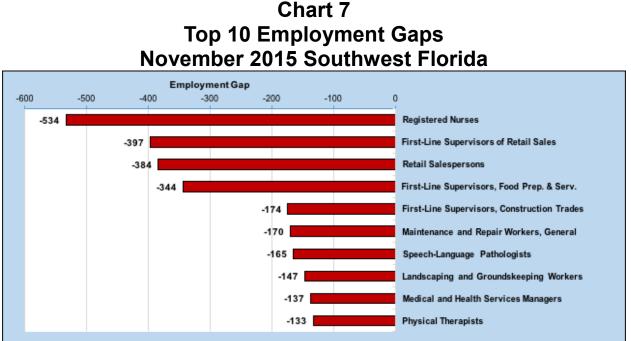


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ranged from \$10.59 per hour to \$46.17 per hour. The minimum education requirements

for each occupation varied from less than high school to at least a master's degree.



Source: Florida Department of Economic Opportunity

#### Table 6 Top 10 Employment Gaps For Southwest Florida November 2015

| No. | Occupation                                  | Current<br>Supply Gap | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|---|-----------------------|-----------------------|----------------|----------------------|
| 1   | Registered Nurses                           | -534                  | 8,762                 | \$ 29.28       | Some College         |
| 2   | First-Line Supervisors of Retail Sales      | -397                  | 8,481                 | \$ 18.73       | PS Adult Voc         |
| 3   | Retail Salespersons                         | -384                  | 23,266                | \$ 10.81       | HS/GED               |
| 4   | First-Line Supervisors, Food Prep. & Serv.  | -344                  | 3,670                 | \$ 16.69       | PS Adult Voc         |
| 5   | First-Line Supervisors, Construction Trades | -174                  | 2,516                 | \$ 25.94       | Some College         |
| 6   | Maintenance and Repair Workers, General     | -170                  | 4,715                 | \$ 15.82       | PS Adult Voc         |
| 7   | Speech-Language Pathologists                | -165                  | 395                   | \$ 36.77       | Master's or higher   |
| 8   | Landscaping and Groundskeeping Workers      | -147                  | 11,155                | \$ 10.59       | Less HS/GED          |
| 9   | Medical and Health Services Managers        | -137                  | 724                   | \$ 46.17       | Bachelor's           |
| 10  | Physical Therapists                         | -133                  | 929                   | \$ 39.78       | Master's or higher   |

Source: Florida Department of Economic Opportunity

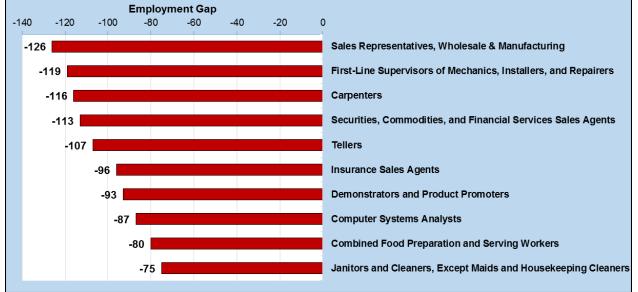






The top 11 to 20 November 2015 employment gaps for Southwest Florida are shown in Chart 8 and Table 7. These include a number of occupations in support of hospitality, health care, financial, construction, maintenance, sales, and real estate, with minimum educational requirements varying from less than high school to a bachelor's degree. The median hourly wage ranges from \$9 per hour to \$39 per hour.





Source: Florida Department of Economic Opportunity







| Table 7                             |
|-------------------------------------|
| Top 11-20 Employment Gaps           |
| For Southwest Florida November 2015 |

| No. | Occupation   | Current<br>Supply Gap | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|--|-----------------------|-----------------------|----------------|----------------------|
| 11  | Sales Representatives, Wholesale & Manufacturing                 | -126                  | 4,061                 | \$ 20.29       | PS Adult Voc         |
| 12  | First-Line Supervisors of Mechanics, Installers, and Repairers   | -119                  | 1,548                 | \$ 26.46       | PS Adult Voc         |
| 13  | Carpenters   | -116                  | 6,265                 | \$ 17.12       | PS Adult Voc         |
| 14  | Securities, Commodities, and Financial Services Sales<br>Agents  | -113                  | 891                   | \$ 37.30       | Bachelor's           |
| 15  | Tellers  | -107                  | 2,250                 | \$ 13.39       | PS Adult Voc         |
| 16  | Insurance Sales Agents   | -96                   | 1,524                 | \$ 22.28       | PS Adult Voc         |
| 17  | Demonstrators and Product Promoters                              | -93                   | N/R                   | \$ 10.19       | HS/GED               |
| 18  | Computer Systems Analysts  | -87                   | 438                   | \$ 38.99       | Some College         |
| 19  | Combined Food Preparation and Serving Workers                    | -80                   | 11,644                | \$ 9.02        | Less HS/GED          |
| 20  | Janitors and Cleaners, Except Maids and Housekeeping<br>Cleaners | -75                   | 5,463                 | \$ 10.98       | Less HS/GED          |

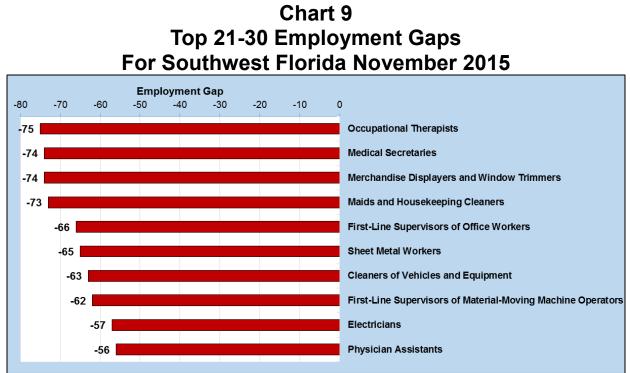
Source: Florida Department of Economic Opportunity

The top 21 to 30 current employment gaps for Southwest Florida are shown in Chart 9 and Table 8. These include a number of occupations in support of hospitality, health care, sales, information technology, trades, and transportation. The minimum education required ranges from less than high school to a master's degree and the median hourly wage ranges from \$9.46 per hour to \$47.89 per hour as shown in Table 8.









Source: Florida Department of Economic Opportunity

# Table 8Top 21-30 Employment GapsFor Southwest Florida November 2015

| No. | Occupation   | Current<br>Supply Gap | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|--|-----------------------|-----------------------|----------------|----------------------|
| 21  | Occupational Therapists  | -75                   | 386                   | \$ 41.70       | Master's or higher   |
| 22  | Medical Secretaries  | -74                   | 1,004                 | \$ 14.91       | PS Adult Voc         |
| 23  | Merchandise Displayers and Window Trimmers                     | -74                   | 165                   | \$ 11.19       | HS/GED               |
| 24  | Maids and Housekeeping Cleaners                                | -73                   | 5,410                 | \$ 10.07       | Less HS/GED          |
| 25  | First-Line Supervisors of Office Workers                       | -66                   | 3,744                 | \$ 22.61       | Some College         |
| 26  | Sheet Metal Workers  | -65                   | 741                   | \$ 15.90       | PS Adult Voc         |
| 27  | Cleaners of Vehicles and Equipment                             | -63                   | 1,400                 | \$ 9.46        | Less HS/GED          |
| 28  | First-Line Supervisors of Material-Moving Machine<br>Operators | -62                   | 414                   | \$ 22.31       | PS Adult Voc         |
| 29  | Electricians   | -57                   | 2,143                 | \$ 17.09       | PS Adult Voc         |
| 30  | Physician Assistants   | -56                   | 337                   | \$ 47.89       | Bachelor's           |

Source: Florida Department of Economic Opportunity

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The top 31 to 40 current employment gaps for Southwest Florida are shown in

Chart 10 and Table 9. These include a number of occupations in health care,

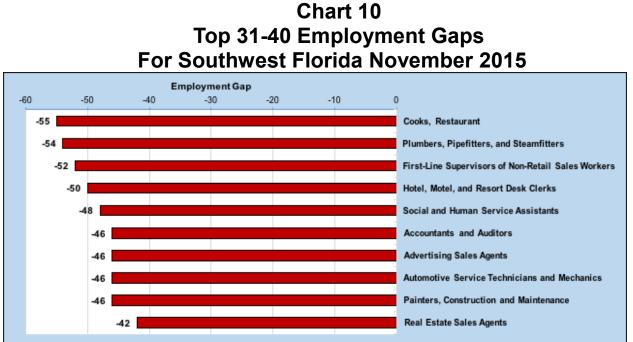
maintenance, marketing management, construction, education, sales, accounting, and

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trades. The median wage ranges from \$11 per hour to \$30 per hour and the minimum

education requirement ranges from high school to a bachelor's degree.



Source: Florida Department of Economic Opportunity

#### Table 9 Top 31-40 Employment Gaps For Southwest Florida November 2015

| No. | Occupation   | Current<br>Supply Gap | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|--|-----------------------|-----------------------|----------------|----------------------|
| 31  | Cooks, Restaurant                                  | -55                   | 6,107                 | \$ 11.21       | PS Adult Voc         |
| 32  | Plumbers, Pipefitters, and Steamfitters            | -54                   | 1,423                 | \$ 17.95       | PS Adult Voc         |
| 33  | First-Line Supervisors of Non-Retail Sales Workers | -52                   | 1,106                 | \$ 29.71       | Some College         |
| 34  | Hotel, Motel, and Resort Desk Clerks               | -50                   | 1,449                 | \$ 11.77       | HS/GED               |
| 35  | Social and Human Service Assistants                | -48                   | 442                   | \$ 14.75       | PS Adult Voc         |
| 36  | Accountants and Auditors                           | -46                   | 3,686                 | \$ 28.73       | Bachelor's           |
| 37  | Advertising Sales Agents                           | -46                   | 756                   | \$ 19.66       | PS Adult Voc         |
| 38  | Automotive Service Technicians and Mechanics       | -46                   | 3,085                 | \$ 18.35       | PS Adult Voc         |
| 39  | Painters, Construction and Maintenance             | -46                   | 3,123                 | \$ 14.13       | PS Adult Voc         |
| 40  | Real Estate Sales Agents                           | -42                   | 4,614                 | \$ 18.41       | PS Adult Voc         |

Source: Florida Department of Economic Opportunity

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The top 41 to 50 current employment gaps for Southwest Florida are shown in

Chart 11 and Table 10. These include a number of occupations in support of health





care, finance and banking, construction, information technology, and market research.

The median hourly wage ranges from \$9 per hour to \$60 per hour and the minimum

education requirement ranges from less than high school to master's degree.



Source: Florida Department of Economic Opportunity

### Table 10 Top 41-50 Employment Gaps For Southwest Florida November 2015

| No. | Occupation   | Current<br>Supply Gap | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|--|-----------------------|-----------------------|----------------|----------------------|
| 41  | Loan Officers  | -40                   | 553                   | \$ 40.75       | Some College         |
| 42  | Public Relations Specialists                           | -40                   | 392                   | \$ 23.76       | Bachelor's           |
| 43  | Dining Room and Cafeteria Attendants and Bartender     | -37                   | 2,754                 | \$ 9.13        | Less HS/GED          |
| 44  | Food Service Managers                                  | -37                   | 1,186                 | \$ 28.49       | Some College         |
| 45  | Bus and Truck Mechanics and Diesel Engine Specialists  | -35                   | 453                   | \$ 19.74       | PS Adult Voc         |
| 46  | Cost Estimators  | -35                   | 792                   | \$ 26.36       | Some College         |
| 47  | Pharmacists  | -35                   | 940                   | \$ 59.40       | Master's or higher   |
| 48  | Heating, Air Conditioning, and Refrigeration Mechanics | -34                   | 2,214                 | \$ 19.18       | PS Adult Voc         |
| 49  | Medical and Clinical Laboratory Technologists          | -34                   | 411                   | \$ 27.44       | Some College         |
| 50  | Counter and Rental Clerks                              | -33                   | 1,519                 | \$ 11.22       | HS/GED               |

Source: Florida Department of Economic Opportunity

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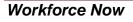
### 7.0 Southwest Florida Current Employment Gaps by Major **Occupational Group**

The Southwest Florida employment gaps can also be viewed by major occupational groups. The largest occupations groups with employment gaps include sales, health care, construction, installation, maintenance and repair, management, business and financial operations, computer, architecture and engineering, and office and administrative. The largest changes from last year's analysis are the increasing demands for construction, management, financial, computer, and engineering occupations. The major occupational groups are shown in Charts 12-20.



Chart 12

Source: Florida Department of Economic Opportunity

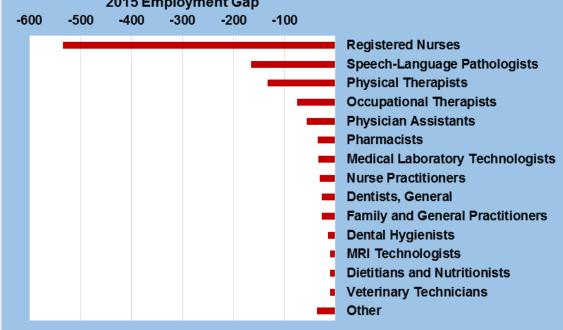












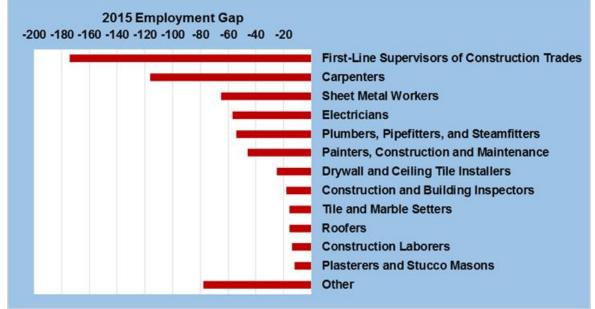
Source: Florida Department of Economic Opportunity







#### Chart 14 Employment Gap for Construction Occupations November 2015



Source: Florida Department of Economic Opportunity

#### Chart 15 Employment Gap for Installation, Maintenance, & Repair Occupations November 2015

| -200 | 2015 Employ<br>-150 -10 | • |   |
|------|-------------------------|---|---|
|      |                         |   | Maintenance and Repair Workers  |
|      |                         |   | First-Line Supervisors for Mechanics and Installers                   |
|      |                         |   | Automotive Service Technicians and Mechanics                          |
|      |                         |   | Bus and Truck Mechanics and Diesel Engine Specialists                 |
|      |                         |   | Heating, Air Conditioning, and Refrigeration Mechanics and Installers |
|      |                         |   | Telecommunications Equipment Installers and Repair                    |
|      |                         | - | Tire Repairers and Changers   |
|      |                         | - | Automotive Body and Related Repairers                                 |
|      |                         | - | Mechanical Door Repairers   |
|      |                         |   | Automotive Glass Installers and Repairers                             |
|      |                         | • | Recreational Vehicle Service Technicians                              |
|      |                         | 1 | Motorcycle Mechanics  |
|      |                         | _ | Other   |

#### Source: Florida Department of Economic Opportunity

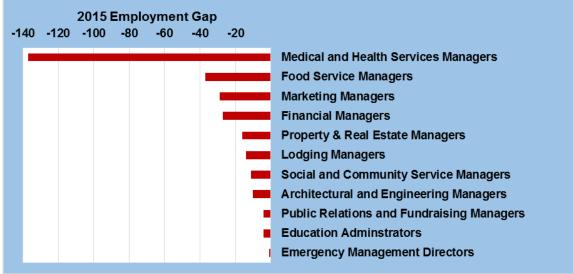
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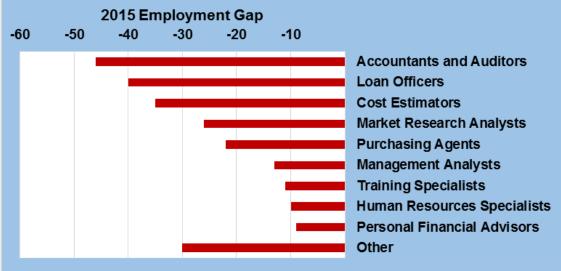


#### Chart 16 Employment Gap for Management Occupations November 2015



Source: Florida Department of Economic Opportunity



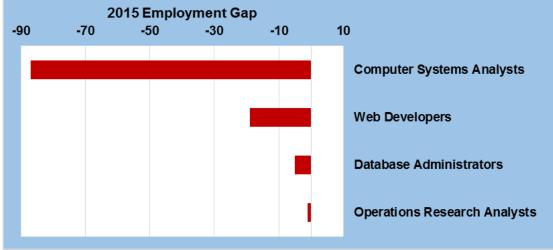


Source: Florida Department of Economic Opportunity

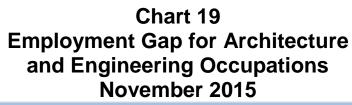


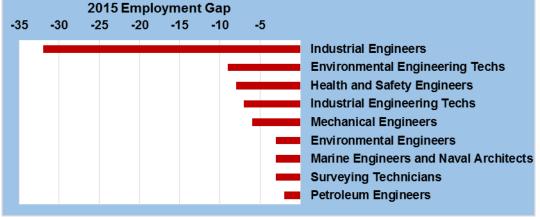




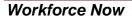


Source: Florida Department of Economic Opportunity





Source: Florida Department of Economic Opportunity

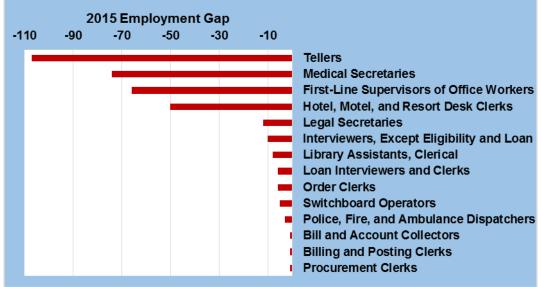




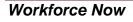




### Chart 20 Employment Gap for Office and Administrative Occupations November 2015



Source: Florida Department of Economic Opportunity









# 8.0 Southwest Florida Long-term Average Annual Employment Growth by Occupation 2014 to 2022

The Florida Department of Economic Opportunity provided its forecast average

annual demand for Southwest Florida employees for the period 2014 to 2022. This

forecast provides additional information about expected annual occupational demands

for the region. Information is presented for the top 50 growth occupations along with the

current hourly wage and educational requirements. The top 10 employment growth

occupations are:

- 1. Retail salespersons
- 2. Waiters and waitresses
- 3. Cashiers
- 4. Food preparation and serving workers
- 5. Landscaping and groundskeepers
- 6. Registered Nurses
- 7. Carpenters
- 8. Office clerks
- 9. Customer service representatives
- 10. Secretaries and administrative assistants

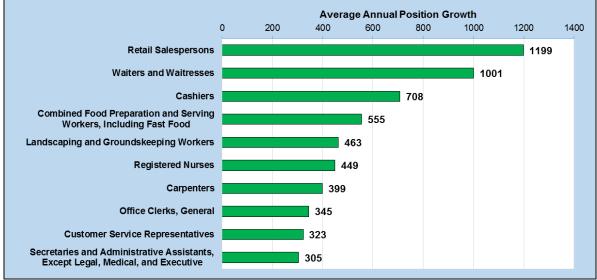
The top 10 growth occupations are shown in Chart 21 and Table 11 and provide the average annual growth per occupation along with the current median wage and minimum educational requirement. The top 10 growth occupations primarily reflect expected increases in retail, tourism, health care, and construction. Three of the top growth occupations require less than a high school degree, three require a high school degree or GED, three require adult vocational training, and one requires some college. Median wage varied from \$9 per hour to \$30 per hour and was highly correlated with the required minimum education.







#### Chart 21 The Top 10 Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

#### Table 11

|     | 14610   |                             |                       |                |                      |
|-----|---|-----------------------------|-----------------------|----------------|----------------------|
| No. | Occupation  | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
| 1   | Retail Salespersons   | 1,199                       | 23,266                | \$ 10.81       | HS/GED               |
| 2   | Waiters and Waitresses  | 1,001                       | 14,685                | \$ 9.10        | Less HS/GED          |
| 3   | Cashiers  | 708                         | 12,132                | \$ 9.43        | HS/GED               |
| 4   | Combined Food Preparation and Serving Workers, Including Fast Food              | 555                         | 11,644                | \$ 9.02        | Less HS/GED          |
| 5   | Landscaping and Groundskeeping Workers  | 463                         | 11,155                | \$ 10.59       | Less HS/GED          |
| 6   | Registered Nurses   | 449                         | 8,762                 | \$ 29.28       | Some College         |
| 7   | Carpenters  | 399                         | 6,265                 | \$ 17.12       | PS Adult Voc         |
| 8   | Office Clerks, General  | 345                         | 7,723                 | \$ 12.37       | HS/GED               |
| 9   | Customer Service Representatives  | 323                         | 6,670                 | \$ 13.31       | PS Adult Voc         |
| 10  | Secretaries and Administrative Assistants, Except Legal, Medical, and Executive | 305                         | 10,572                | \$ 14.71       | PS Adult Voc         |

Source: Florida Department of Economic Opportunity

The top 11-20 highest growth occupations for Southwest Florida include:

- 11. First line supervisors of retail sales workers,
- 12. Receptionists and Information Clerks
- 13. Nursing assistants
- 14. Laborers, Freight and Stock

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- 15. Sales reprsentatives, Services
- 16. Construction Laborers
- 17. Cooks in restaurants
- 18. Farmworkers, Crop, and Nursury
- 19. Stock Clerks
- 20. Painters, Construction and Maintenance

The information on these high-growth occupations is shown in Chart 22 and

Table 12. Again, the recovery and growth in the tourism, health care, and construction markets are driving the growth of many of these occupations. The demand for labor is said to be a "derived" demand which depends on consumer demands in the goods and services markets. Three of the top 11-20 growth occupations do not require high school graduation. Three require high school or GED, while four require adult vocational training. The median wage ranges from \$9 per hour to \$29 per hour.

#### Chart 22

### The Top 11-20 Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity





| No. | Occupation  | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|---|-----------------------------|-----------------------|----------------|----------------------|
| 11  | First-Line Supervisors of Retail Sales Workers          | 304                         | 8,481                 | \$ 18.73       | PS Adult Voc         |
| 12  | Receptionists and Information Clerks                    | 275                         | 4,535                 | \$ 12.72       | HS/GED               |
| 13  | Nursing Assistants                                      | 258                         | 5,704                 | \$ 12.57       | PS Adult Voc         |
| 14  | Laborers and Freight, Stock, and Material Movers, Hand  | 251                         | 4,849                 | \$ 10.78       | Less HS/GED          |
| 15  | Sales Representatives, Services, All Other              | 251                         | 4,089                 | \$ 28.52       | HS/GED               |
| 16  | Construction Laborers                                   | 248                         | 4,877                 | \$ 12.59       | Less HS/GED          |
| 17  | Cooks, Restaurant                                       | 240                         | 6,107                 | \$ 11.21       | PS Adult Voc         |
| 18  | Farmworkers and Laborers, Crop, Nursery, and Greenhouse | 219                         | 7,077                 | \$ 9.26        | Less HS/GED          |
| 19  | Stock Clerks and Order Fillers                          | 203                         | 6,523                 | \$ 11.20       | HS/GED               |
| 20  | Painters, Construction and Maintenance                  | 200                         | 3,123                 | \$ 14.13       | PS Adult Voc         |

Table 12

Source: Florida Department of Economic Opportunity

The Top 21-30 Long-term growth occupations for Southwest Florida include:

- 21. Food preperation workers
- 22. Real estate sales agents
- 23. Hosts and hostesses
- 24. Dishwashers
- 25. Elementary school teachers
- 26. Maids and housekeeping cleaners
- 27. First-line supervisors of construction trades
- 28. Janitors
- 29. Bookkeeping, accounting, and auditing clerks
- 30. Sales representatives of manufacturing

The information on these high-growth occupations is shown in Chart 23 and Table

13. These fast-growth occupations include elemtentary school teachers, accounting

and auditing clerks, and other occupations related to tourism, retail, and real estate

sales. The regional economy is providing significant employment opportuntities for

people with minimal educational attainment. In fact, five of the fast-growth occupations

do not require high school graduation or equivalent. Two require adult vocational

training, two require some college, and one requires a bachelor's degree or higher. The

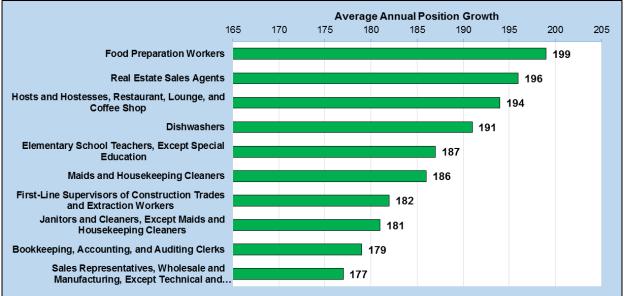




median wages ranged from \$9 per hour for a dining room attendant and bartender to a

high of \$29 per hour for elementary school teachers.

#### Chart 23 The Top 21-30 Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

#### Table 13

| No. | Occupation  | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|---|-----------------------------|-----------------------|----------------|----------------------|
| 21  | Food Preparation Workers  | 199                         | 3,753                 | \$ 10.42       | Less HS/GED          |
| 22  | Real Estate Sales Agents  | 196                         | 4,614                 | \$ 18.41       | PS Adult Voc         |
| 23  | Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop  | 194                         | 2,022                 | \$ 10.09       | Less HS/GED          |
| 24  | Dishwashers   | 191                         | 2,804                 | \$ 9.07        | Less HS/GED          |
| 25  | Elementary School Teachers, Except Special Education  | 187                         | 3,896                 | \$ 29.03       | Bachelor's           |
| 26  | Maids and Housekeeping Cleaners   | 186                         | 5,410                 | \$ 10.07       | Less HS/GED          |
| 27  | First-Line Supervisors of Construction Trades and<br>Extraction Workers                         | 182                         | 2,516                 | \$ 25.94       | Some College         |
| 28  | Janitors and Cleaners, Except Maids and Housekeeping<br>Cleaners                                | 181                         | 5,463                 | \$ 10.98       | Less HS/GED          |
| 29  | Bookkeeping, Accounting, and Auditing Clerks  | 179                         | 5,393                 | \$ 16.06       | Some College         |
| 30  | Sales Representatives, Wholesale and Manufacturing,<br>Except Technical and Scientific Products | 177                         | 4,061                 | \$ 20.29       | PS Adult Voc         |

Source: Florida Department of Economic Opportunity

The Top 31-40 highest growth occupations for Southwest Florida include:





- 31. First-line supervisors of office workers
- 32. Maintenance and repair workers
- 33. Accountants and auditors
- 34. Dining room or cafeteria attendants and bartenders
- 35. Licensed practical and vocational nurses
- 36. Security guards
- 37. Heating, AC, and refrigeration mechanics
- 38. Childcare workers
- 39. First-line supervisors of food preparation and servicing workers
- 40. Construction managers

The information on these forecast high-growth occupations is shown in Chart 24 and

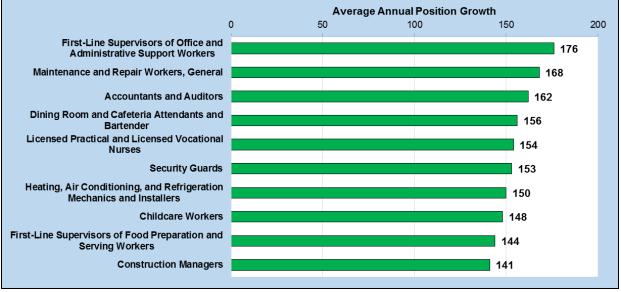
Table 14. Two of these occupations do not require high school graduation, five require

vocational training, two require some some college and one requires a bachelor's

degree. The median wage varied from \$9 per hour for bartenders to \$33 per hour

forconstruction managers.

#### Chart 24 The Top 31-40 Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

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|     | IUNIC  |                             |                       |                |                      |
|-----|--|-----------------------------|-----------------------|----------------|----------------------|
| No. | Occupation   | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
| 31  | First-Line Supervisors of Office and Administrative Support<br>Workers | 176                         | 3,744                 | \$ 22.61       | Some College         |
| 32  | Maintenance and Repair Workers, General                                | 168                         | 4,715                 | \$ 15.82       | PS Adult Voc         |
| 33  | Accountants and Auditors   | 162                         | 3,686                 | \$ 28.73       | Bachelor's           |
| 34  | Dining Room and Cafeteria Attendants and Bartender                     | 156                         | 2,754                 | \$ 9.13        | Less HS/GED          |
| 35  | Licensed Practical and Licensed Vocational Nurses                      | 154                         | 2,668                 | \$ 20.38       | PS Adult Voc         |
| 36  | Security Guards  | 153                         | 4,185                 | \$ 10.97       | PS Adult Voc         |
| 37  | Heating, Air Conditioning, and Refrigeration Mechanics and Installers  | 150                         | 2,214                 | \$ 19.18       | PS Adult Voc         |
| 38  | Childcare Workers  | 148                         | 2,627                 | \$ 10.19       | PS Adult Voc         |
| 39  | First-Line Supervisors of Food Preparation and Serving<br>Workers      | 144                         | 3,670                 | \$ 16.69       | PS Adult Voc         |
| 40  | Construction Managers  | 141                         | 3,557                 | \$ 32.92       | Some College         |

#### Table 14

Source: Florida Department of Economic Opportunity

The Top 41-50 highest growth occupations for Southwest Florida include:

- 41. Farmers, ranchers, and other agricultural managers
- 42. Automotive service technicians and mechanics
- 43. Electricians
- 44. Bartenders
- 45. Home health aides
- 46. Heavy truck drivers
- 47. General and operations managers
- 48. Counter attendants and food concession
- 49. Amusement and recreational attendants
- 50. Medical assistants

The information on these forecast high-growth occupations is shown in Chart 25 and

Table 15. Three occupations require less than a high school diploma, five require

vocational training, and two require some college. This forecast is consistent with

recent trends in employment observed on the national level, in which significant job

growth is comprised of positions amenable to part-time labor. Such positions are

especially concentrated in service-dominated economies such as those prevalent in



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Southwest Florida. The median wage varies from \$9 per hour for counter attendants to

\$46 per hour for general and operations managers.

#### Chart 25 The Top 41-50 Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

| Table | 15 |
|-------|----|
|-------|----|

| No. | Occupation  | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage | Minimum<br>Education |
|-----|---|-----------------------------|-----------------------|----------------|----------------------|
| 41  | Farmers, Ranchers, and Other Agricultural Managers              | 139                         | 7,201                 | \$ 28.69       | Some College         |
| 42  | Automotive Service Technicians and Mechanics                    | 137                         | 3,085                 | \$ 18.35       | PS Adult Voc         |
| 43  | Electricians  | 131                         | 2,143                 | \$ 17.09       | PS Adult Voc         |
| 44  | Bartenders  | 128                         | 2,581                 | \$ 9.07        | Less HS/GED          |
| 45  | Home Health Aides   | 124                         | 1,709                 | \$ 11.21       | PS Adult Voc         |
| 46  | Heavy and Tractor-Trailer Truck Drivers                         | 123                         | 3,153                 | \$ 16.19       | PS Adult Voc         |
| 47  | General and Operations Managers                                 | 117                         | 3,800                 | \$ 45.92       | Some College         |
| 48  | Counter Attendants, Cafeteria, Food Concession, and Coffee Shop | 115                         | 1,159                 | \$ 9.07        | Less HS/GED          |
| 49  | Amusement and Recreation Attendants                             | 114                         | 1,504                 | \$ 9.22        | Less HS/GED          |
| 50  | Medical Assistants  | 113                         | 2,436                 | \$ 14.79       | PS Adult Voc         |

Source: Florida Department of Economic Opportunity

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# 9.0 Top Growth Occupations by Minimum Educational Requirement

The study looked at long-run occupational growth by identifying the fastest-growing

occupations by the minimal educational requirement including:

- Post-Secondary Adult Vocational
- Some College
- Bachelor's Degree
- Master's Degree or Higher

The expected top long-run growth occupations requiring a minimum of post-

secondary adult vocational training are carpenters, customer service representatives,

secretaries and administrative assistants, first-line supervisors of retail sales, nursing

assistants, cooks, painters, sales representatives, and maintenance and repair workers,

as shown in Chart 26 and Table 16 along with the median wage and current

employment.

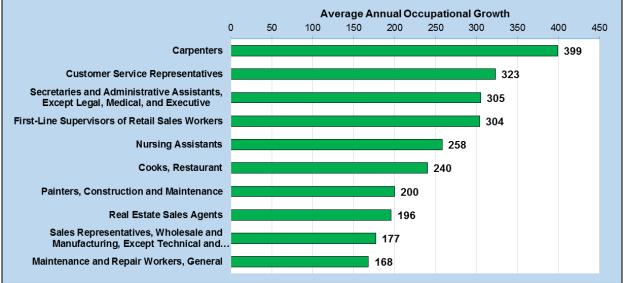








#### Chart 26 The Top 10 Adult Vocational Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

#### Table 16

| No. | Occupation                                     | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage |
|-----|--|-----------------------------|-----------------------|----------------|
| 1   | Carpenters                                     | 399                         | 6,265                 | \$ 17.12       |
| 2   | Customer Service Representatives               | 323                         | 6,670                 | \$ 13.31       |
| 3   | Medical, and Executive                         | 305                         | 10,572                | \$ 14.71       |
| 4   | First-Line Supervisors of Retail Sales Workers | 304                         | 8,481                 | \$ 18.73       |
| 5   | Nursing Assistants                             | 258                         | 5,704                 | \$ 12.57       |
| 6   | Cooks, Restaurant                              | 240                         | 6,107                 | \$ 11.21       |
| 7   | Painters, Construction and Maintenance         | 200                         | 3,123                 | \$ 14.13       |
| 8   | Real Estate Sales Agents                       | 196                         | 4,614                 | \$ 18.41       |
| 9   | Technical and Scientific Products              | 177                         | 4,061                 | \$ 20.29       |
| 10  | Maintenance and Repair Workers, General        | 168                         | 4,715                 | \$ 15.82       |

Source: Florida Department of Economic Opportunity

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The forecast top 11 to 20 occupations for growth from 2014 to 2022 requiring a minimum of post-secondary adult vocational training are licensed practical & vocational nurses, security guards, heating, AC, and refrigeration mechanics and installers,

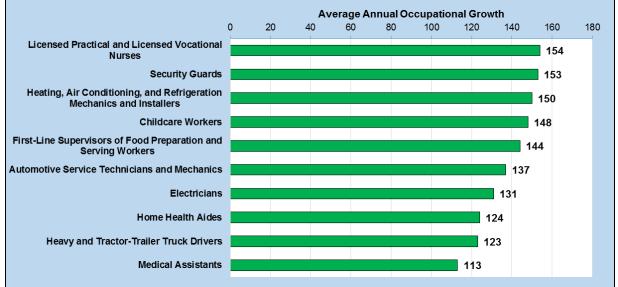


childcare workers, first-line supervisors of food preparation and serving, automotive

service technicians, electricians, home health aides, heavy and tractor-trailer truck

drivers, and medical assistants, as shown in Chart 27 and Table 17.

#### Chart 27 The Top 11-20 Adult Vocational Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

#### Table 17

| No. | Occupation  | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage |
|-----|---|-----------------------------|-----------------------|----------------|
| 11  | Licensed Practical and Licensed Vocational Nurses                     | 154                         | 2,668                 | \$ 20.38       |
| 12  | Security Guards   | 153                         | 4,185                 | \$ 10.97       |
| 13  | Heating, Air Conditioning, and Refrigeration Mechanics and Installers | 150                         | 2,214                 | \$ 19.18       |
| 14  | Childcare Workers   | 148                         | 2,627                 | \$ 10.19       |
| 15  | First-Line Supervisors of Food Preparation and Serving Workers        | 144                         | 3,670                 | \$ 16.69       |
| 16  | Automotive Service Technicians and Mechanics                          | 137                         | 3,085                 | \$ 18.35       |
| 17  | Electricians  | 131                         | 2,143                 | \$ 17.09       |
| 18  | Home Health Aides   | 124                         | 1,709                 | \$ 11.21       |
| 19  | Heavy and Tractor-Trailer Truck Drivers                               | 123                         | 3,153                 | \$ 16.19       |
| 20  | Medical Assistants  | 113                         | 2,436                 | \$ 14.79       |

Source: Florida Department of Economic Opportunity

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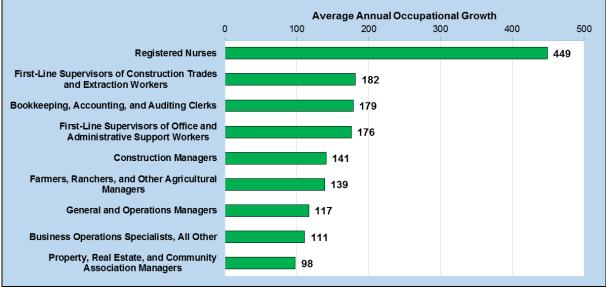




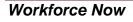


The forecast top 10 occupations for growth from 2014 to 2022 requiring a minimum of "some college" are registered nurses, first-line supervisors of construction trades, bookkeeping, accounting, and auditing clerks, first-line supervisors of office support, construction managers, farmers, ranchers and other agricultural managers, general and operations managers, business operations specialists, property, real estate, and community association managers, and cost estimators, as shown in Chart 28 and Table 18.

#### Chart 28 The Top 10 Some College Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity







| No. | Occupation   | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage |
|-----|--|-----------------------------|-----------------------|----------------|
| 1   | Registered Nurses  | 449                         | 8,762                 | \$ 29.2        |
| 2   | First-Line Supervisors of Construction Trades and Extraction Workers   | 182                         | 2,516                 | \$ 25.9        |
| 3   | Bookkeeping, Accounting, and Auditing Clerks                           | 179                         | 5,393                 | \$ 16.0        |
| 4   | First-Line Supervisors of Office and Administrative Support<br>Workers | 176                         | 3,744                 | \$ 22.6        |
| 5   | Construction Managers  | 141                         | 3,557                 | \$ 32.9        |
| 6   | Farmers, Ranchers, and Other Agricultural Managers                     | 139                         | 7,201                 | \$ 28.6        |
| 7   | General and Operations Managers  | 117                         | 3,800                 | \$ 45.9        |
| 8   | Business Operations Specialists, All Other                             | 111                         | 2,672                 | \$ 26.8        |
| 9   | Property, Real Estate, and Community Association Managers              | 98                          | 2,997                 | \$ 27.0        |
| 10  | Cost Estimators  | 65                          | 792                   | \$ 26.3        |

Table 18

Source: Florida Department of Economic Opportunity

The forecast top 11 to 20 occupations for growth from 2014 to 2022 requiring a minimum of "some college" are recreation workers, human resources specialists, preschool teachers, food service managers, first-line supervisors of non-retail sales workers, dental hygienists, managers, graphic designers, emergency medical technicians and paramedics, and veterinary technologists and technicians, as shown in

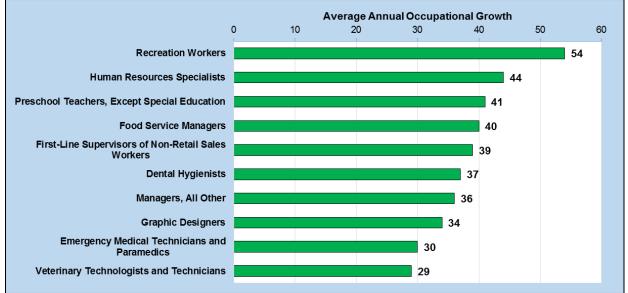
Chart 29 and Table 19







#### Chart 29 The Top 11-20 Some College Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

#### Table 19

| No. | Occupation   | Average<br>Annual<br>Growth | Current<br>Employment | <br>edian<br>/age |
|-----|--|-----------------------------|-----------------------|-------------------|
| 11  | Recreation Workers                                 | 54                          | 1,552                 | \$<br>11.40       |
| 12  | Human Resources Specialists                        | 44                          | 909                   | \$<br>23.38       |
| 13  | Preschool Teachers, Except Special Education       | 41                          | 883                   | \$<br>11.46       |
| 14  | Food Service Managers                              | 40                          | 1,186                 | \$<br>28.49       |
| 15  | First-Line Supervisors of Non-Retail Sales Workers | 39                          | 1,106                 | \$<br>29.71       |
| 16  | Dental Hygienists                                  | 37                          | 627                   | \$<br>35.39       |
| 17  | Managers, All Other                                | 36                          | 914                   | \$<br>36.54       |
| 18  | Graphic Designers                                  | 34                          | 719                   | \$<br>19.40       |
| 19  | Emergency Medical Technicians and Paramedics       | 30                          | 636                   | \$<br>17.68       |
| 20  | Veterinary Technologists and Technicians           | 29                          | 497                   | \$<br>15.30       |

Source: Florida Department of Economic Opportunity

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The forecast top 10 occupations for growth from 2014 to 2022 requiring a

bachelor's degree include elementary school teachers, accountants and auditors,

secondary school teachers, middle school teachers, management analysts, market

research analysts, medical and health service managers, kindergarden teachers,

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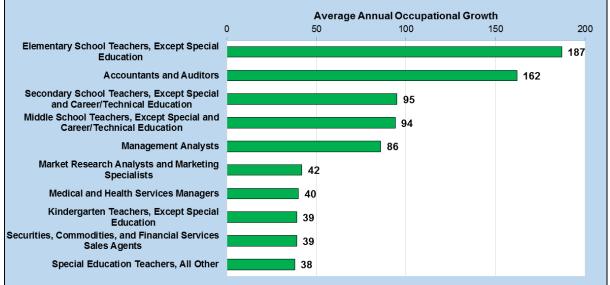


securities and financial sales agents, and special education teachers. These

occupations along with the current median hourly wage and current employment are

shown in Chart 30 and Table 20.

#### Chart 30 The Top 10 Bachelor's Degree Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

| Table 20 |
|----------|
|----------|

| No. | Occupation  | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage |       |
|-----|---|-----------------------------|-----------------------|----------------|-------|
| 1   | Elementary School Teachers, Except Special Education                        | 187                         | 3,896                 | \$             | 29.03 |
| 2   | Accountants and Auditors  | 162                         | 3,686                 | \$             | 28.73 |
| 3   | Secondary School Teachers, Except Special and<br>Career/Technical Education | 95                          | 2,202                 | \$             | 30.56 |
| 4   | Middle School Teachers, Except Special and Career/Technical Education       | 94                          | 1,956                 | \$             | 29.28 |
| 5   | Management Analysts   | 86                          | 1,625                 | \$             | 29.01 |
| 6   | Market Research Analysts and Marketing Specialists                          | 42                          | 510                   | \$             | 23.04 |
| 7   | Medical and Health Services Managers  | 40                          | 724                   | \$             | 46.17 |
| 8   | Kindergarten Teachers, Except Special Education                             | 39                          | 747                   | \$             | 28.24 |
| 9   | Securities, Commodities, and Financial Services Sales Agents                | 39                          | 891                   | \$             | 37.30 |
| 10  | Special Education Teachers, All Other                                       | 38                          | 1,112                 | \$             | 32.45 |

Source: Florida Department of Economic Opportunity

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The 11 through 20 top growth occupations requiring a minimum of a bachelor's

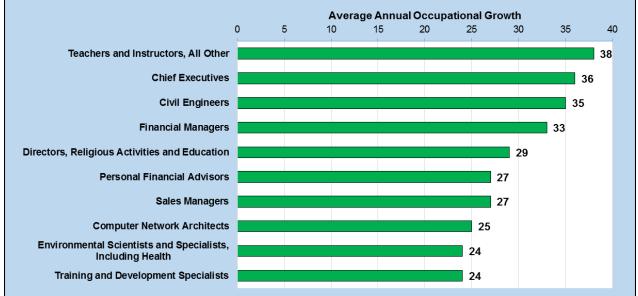
degree are teachers and instructors, chief executives, civil engineers, financial

managers, directors of religious activities, personal financial advisors, sales managers,

computer network architects, environmental scientists and specialists, and training and

development specialists, as shown in Chart 31 and Table 21.

#### Chart 31 The Top 11-20 Bachelor's degree Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity







| No. | Occupation   | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage |  |
|-----|--|-----------------------------|-----------------------|----------------|--|
| 11  | Teachers and Instructors, All Other                        | 38                          | 1,043                 | \$ 17.65       |  |
| 12  | Chief Executives   | 36                          | 832                   | \$ 91.88       |  |
| 13  | Civil Engineers  | 35                          | 666                   | \$ 36.39       |  |
| 14  | Financial Managers   | 33                          | 900                   | \$ 48.41       |  |
| 15  | Directors, Religious Activities and Education              | 29                          | 708                   | \$ 17.40       |  |
| 16  | Personal Financial Advisors                                | 27                          | 659                   | \$ 33.36       |  |
| 17  | Sales Managers   | 27                          | 522                   | \$ 61.06       |  |
| 18  | Computer Network Architects                                | 25                          | 619                   | \$ 29.19       |  |
| 19  | Environmental Scientists and Specialists, Including Health | 24                          | 555                   | \$ 24.12       |  |
| 20  | Training and Development Specialists                       | 24                          | 488                   | \$ 23.35       |  |

Table 21

Source: Florida Department of Economic Opportunity

The forecast top 10 occupations for growth from 2014 to 2022 requiring a

master's degree or higher include lawyers, family and general practitioners,

pharmacists, physical therapists, dentists, health care social workers, nurse

practitioners, occupational therapists, education, guidance and vocational counselors,

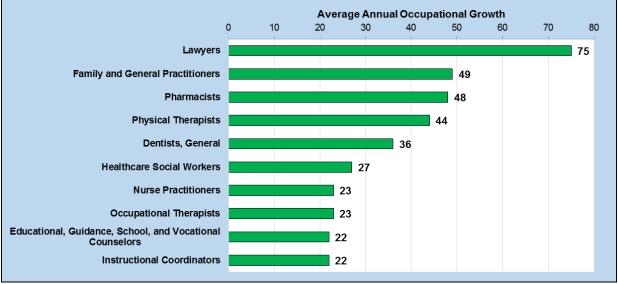
and instructional coordinators, as shown in Chart 32 and Table 22.







#### Chart 32 The Top 10 Master's Degree or Higher Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022



Source: Florida Department of Economic Opportunity

#### Table 22

| No. | Occupation   | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage |       |
|-----|--|-----------------------------|-----------------------|----------------|-------|
| 1   | Lawyers  | 75                          | 1,812                 | \$ 3           | 36.67 |
| 2   | Family and General Practitioners                         | 49                          | 991                   | \$ 9           | 91.72 |
| 3   | Pharmacists  | 48                          | 940                   | \$ 5           | 59.40 |
| 4   | Physical Therapists                                      | 44                          | 929                   | \$ 3           | 39.78 |
| 5   | Dentists, General  | 36                          | 648                   | \$6            | 66.33 |
| 6   | Healthcare Social Workers                                | 27                          | 415                   | \$ 2           | 22.72 |
| 7   | Nurse Practitioners                                      | 23                          | 410                   | \$ 4           | 47.07 |
| 8   | Occupational Therapists                                  | 23                          | 386                   | \$ 4           | 41.70 |
| 9   | Educational, Guidance, School, and Vocational Counselors | 22                          | 448                   | \$ 3           | 30.95 |
| 10  | Instructional Coordinators                               | 22                          | 453                   | \$ 2           | 21.77 |

Source: Florida Department of Economic Opportunity

The forecast top 11 to 20 occupations for growth from 2014 to 2022 requiring a

master's degree or higher include architects, speech-language pathologists,

veterinarians, biochemists and biophysicists, child, family and school social workers,

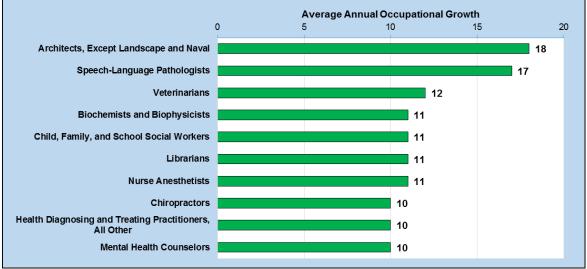




librarians, nurse anesthetists, chiropractors, health diagnosing and treating

practitioners, and mental health counselors, as shown in Chart 33 and Table 23.

#### Chart 33 The Top 11-20 Master's Degree or Higher Long-term Employment Growth Occupations Southwest Florida for 2014 to 2022

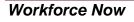


Source: Florida Department of Economic Opportunity

| Table 2 | 3 |
|---------|---|
|---------|---|

| No. | Occupation  | Average<br>Annual<br>Growth | Current<br>Employment | Median<br>Wage |       |
|-----|---|-----------------------------|-----------------------|----------------|-------|
| 11  | Architects, Except Landscape and Naval                  | 18                          | 324                   | \$             | 36.07 |
| 12  | Speech-Language Pathologists                            | 17                          | 395                   | \$             | 36.77 |
| 13  | Veterinarians   | 12                          | 236                   | \$             | 46.60 |
| 14  | Biochemists and Biophysicists                           | 11                          | 113                   | \$             | 26.34 |
| 15  | Child, Family, and School Social Workers                | 11                          | 269                   | \$             | 20.55 |
| 16  | Librarians  | 11                          | 240                   | \$             | 28.92 |
| 17  | Nurse Anesthetists                                      | 11                          | 185                   | \$             | 66.60 |
| 18  | Chiropractors   | 10                          | 226                   | \$             | 45.38 |
| 19  | Health Diagnosing and Treating Practitioners, All Other | 10                          | 233                   | \$             | 31.86 |
| 20  | Mental Health Counselors                                | 10                          | 185                   | \$             | 22.92 |

Source: Florida Department of Economic Opportunity







#### 10.0 Herfindahl-Hirschman Index

Starting with the present edition of the *Southwest Florida Workforce Overview Study*, the research team presents findings for the Herfindahl-Hirshman Index applied to the Southwest Florida workforce.

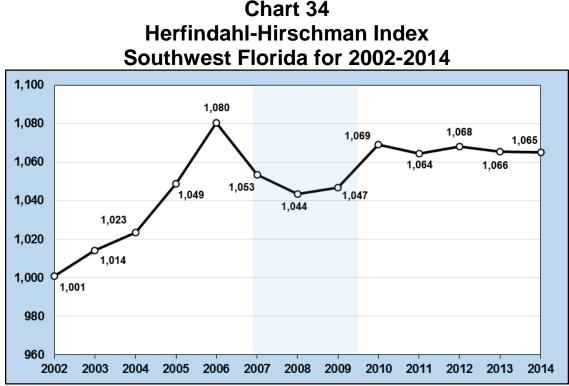
The HHI is a common economic measure of market concentration, typically used to gauge the extent to which a given market is served by few large firms (and is therefore relatively monopolistic) or many small firms (and is therefore relatively competitive). The higher the measure, the more monopolistic a given market is. For instance, it would be assumed that the market for health insurance would have a higher HHI because it is served by fewer and larger firms, whereas the market for commodities such as cotton have a lower HHI because it is served by many small producers.

The team computed the HHI for Southwest Florida's workforce in an effort to track, over time, its degree of workforce diversity based on the assumption that a more diverse labor market (in which most jobs are spread out among many industries) would have a lower HHI, and a less diverse one (in which most jobs are concentrated in a few industries) would have a higher HHI. When applied to firm size and concentration, the HHI is computed by summing the squared values of the market shares for each of the firms that comprise a given market. In this case, the research team treats Southwest Florida's workforce as a separate market, and sum the squared values of each industry's share of the market.

As shown in Chart 34, Southwest Florida's workforce became less diversified in the in the years leading up to the 2008 recession (shown in the shaded area). The increase in concentration from 2002 to 2006 is recorded by the HHI increasing from



FLORID SOUTHWESTER 1001 to 1080—an 8 percent increase. However, the decline in concentration that followed can be explained (partly) by the contraction of the construction industry (beginning prior to the recession), as well as by reductions in the labor force by other industries that contributed to workforce concentration during the boom.



Source: Data computed by the RERI, based on annual data obtained from the QCEW.

The HHI's relative stability in the post-recession years suggest a healthier and more stable labor market relative to the one that existed during the previous boom. A key point is not only whether the workforce is diverse enough to weather adverse economic conditions in the future, but also whether it is growing and dynamic enough to retain workers who would otherwise leave for better work opportunities elsewhere. Based on this analysis, it is reasonable to conclude that future increases in the HHI would suggest our region's economy will again growing at unsustainable rates. The

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concern is that high HHI measures would signal instability characterized by a tendency to overheat during boom periods and overcorrect during recessionary periods. Also, we note that the present range of the HHI (between 1,064 and 1,069 for the five-year period ending in 2014) is not necessarily ideal and that a more dynamic labor market and a more resilient regional economy might be characterized by lower HHI measures over time.







#### Summary/Conclusions

Education and training and other activities that improve human capital tend to lead to greater productivity and higher wages. Twelve percent of the top 50 employment gaps identified an education requirement less than high school with an average median wage in Southwest Florida of only \$11.58 per hour. Adult vocational training covers a wide range of occupations and represented 42 percent of the top 50 employment gaps identified. The median wage for occupations requiring adult vocational training was higher at \$14.72. Some college or higher including an associate degree was required by 18 percent of the top 50 employment gaps with a median wage of \$18.79. A bachelor's degree or higher was a requirement of 10 percent of the top 50 employment gaps identified with a median wage of \$26.69 per hour and a master's degree or higher was required by 8 percent of the top 50 employment gaps identified, earning a median wage of \$35.32 per hour. Given that the major employment gains over the last year have occurred in two industries (retail and food service and accommodation) and that the growth of these jobs far outpaces that of the higher wageearning occupations in our area, average wages in Southwest Florida have decreased. Assuming consistent metrics employed by the Florida Department of Economic Opportunity year on year, the net result is that the average annual wage in Southwest Florida has decreased by \$751 while the average annual wage in the state has increased by \$1,159 during the same time period.

This study has provided an overview of Southwest Florida's labor market including the mix of industries, current employment gaps and forecast growth occupations. The quality, depth, and diversity of a region's workforce are critical







components in fostering economic growth and development. The importance of this information in understanding what opportunities exist for students, parents, businesses, and educators will help foster discussion, better decisions, and more collaboration. Technology and globalization are driving change in our lives and employment opportunities. The Workforce Now research is designed to provide a continuous flow of research focused on Southwest Florida's labor market.





