

# Ohio Short-Term Employment Forecast

1st Quarter 2018 to 1st Quarter 2020



#### Summary

Employment in Ohio is expected to increase by 1.4 percent from first quarter 2018 to first quarter 2020, a gain of 82,366 jobs. In addition, 670,119 job openings are projected annually. Of those, 269,806 are expected to be created because of workers leaving the labor force, and another 359,130 are expected to occur because of workers moving from one occupation to another occupation. Users familiar with projections data may notice that these values are significantly higher than past projections. This is due to a new methodology developed by the U.S. Bureau of Labor Statistics that changes the way job openings are estimated. The new methodology provides greater clarity in what is being measured, and the results are more reliable and more accurate for smaller occupations. However, because it is new, short-term projections from previous time periods should not be compared to newer projections going forward.

#### Methodology

The methodology reflects the changing workforce of the 21<sup>st</sup> century and recognizes that workers may have several career changes during their working lives. It considers job openings resulting from labor force exits (workers who leave the labor force entirely due to retirement or other reasons) and from occupational transfers (workers who move from one occupation into another occupation). The latter are much more common. Occupational transfers do not include workers who change jobs but stay in the same occupation.

#### **Total Openings in an Occupation**

The other source of job openings is industry growth. As the demand for products and services in an industry increases, the number of workers employed in that industry also increases. Occupational job growth is the difference between the base employment and projected employment for a time period. Overall, for most occupations, the number of openings created by growth is lower than the number of openings due to labor force exits and transfers.

#### **Key Points**

Educators, workforce professionals, employers, job seekers, students and others can use projections to learn about:

- Areas of the economy that are projected to have positive or negative growth.
- Occupations projected to have a significant number of job openings, informing those who prepare and train the workforce.
- Promising career pathways in occupations expected to have a high demand for workers.

#### **Technical Notes**

The Ohio short-term industry and occupational forecasts were derived primarily from data produced by the Occupational Employment Statistics (OES) and the Quarterly Census of Employment and Wages (QCEW) programs. The forecasts were funded by a grant from the U.S. Department of Labor (DOL).

Short-term (two-year) and long-term (ten-year) employment forecasts are calculated differently and serve different purposes. The two-year forecasts reflect seasonal and business-cycle changes; the 10-year forecasts are strongly influenced by structural changes in the economy. Short-term forecasts provide more timely information; long-term forecasts are helpful for extended economic planning and evaluation.

#### Industry Employment Forecast

The forecasting models utilized a historical monthly employment series from the QCEW program data through March 2018. Industry groups with three- or four-digit North American Industry Classification System (NAICS) codes were chosen. Trend, ordinary least squares regression, and autoregressive forecasting models were used. These methods measure the relationships between employment and one or more other economic variables, such as populations, labor force participation rate, income, housing, related industries, and more.

#### Occupational Employment Forecasts

Occupational estimates were derived from an industry-occupation matrix. From a three-year OES survey cycle, industry staffing patterns were generated based on the Standard Occupational Classification (SOC) coding structure. Occupational patterns for work arrangements outside the scope of the OES program (including agriculture, private household, self-employed and unpaid family workers) were developed using U.S. national staffing patterns and U.S. Census of Agriculture information.

#### Wages

The median wage estimates were produced using OES data, which are based on a semiannual mail survey. The survey gathers employment and wage data for specific occupations by geographic area and industry. Statewide Ohio wages were used when available.

#### Annual Openings

To project occupational openings, Ohio uses national separation rates calculated by the Bureau of Labor Statistics (BLS) caused by workers exiting the labor force due to retirement or other reasons (labor force exits) and separations caused by workers transferring to different occupations (occupational transfers). Projections of separations are combined with projections of employment change to determine occupational openings.

#### Educational and Training Classifications

DOL's educational and training classification system consists of three categories: a) typical education needed for entry, b) commonly required work experience in related occupations, and c) typical on-the-job training needed to obtain competency in the occupation. Complete definitions can be found at <a href="https://www.bls.gov/emp/documentation/education-training-system.htm">https://www.bls.gov/emp/documentation/education-training-system.htm</a>.

#### Data Limitations

Every effort was made to ensure the accuracy of the projections, but data and forecasts are subject to error. The information in this report is best used as an indicator of employment trends, not as an exact count or prediction. It should be used in combination with other data sources and information. Employment forecasts cannot predict unforeseen events or actions.

This report provides estimates of the number of jobs, not the number of employees. It makes no distinctions for employment characteristics such as full-time, part-time or secondary jobs.

For additional information or questions, visit <a href="http://OhioLMl.com">http://OhioLMl.com</a>, email <a href="mailto:ContactLMl@jfs.ohio.gov">ContactLMl@jfs.ohio.gov</a>, or call (888) 296-7541, option 6.

# **Employment Forecast Report by Major Industry**

First Quarter 2018 to First Quarter 2020

	2018	2020	Chang 2018-20	
Industry Title	Employment	Forecast	Employment	Percent
Total, All Industries	5,788,293	5,870,659	82,366	1.4%
Goods-Producing	997,325	1,009,333	12,008	1.2%
Agriculture, Forestry, Fishing and Hunting	95,224	95,140	-84	-0.1%
Mining	11,566	12,105	539	4.7%
Construction	197,055	208,248	11,193	5.7%
Manufacturing	693,480	693,840	360	0.1%
Service-Providing	4,501,116	4,565,377	64,261	1.4%
Wholesale Trade	230,970	234,675	3,705	1.6%
Retail Trade	559,390	555,096	-4,294	-0.8%
Transportation and Warehousing	200,786	204,174	3,388	1.7%
Utilities	19,259	19,722	463	2.4%
Information	70,919	69,259	-1,660	-2.3%
Finance and Insurance	244,162	248,813	4,651	1.9%
Real Estate and Rental and Leasing	61,993	63,473	1,480	2.4%
Professional, Scientific, and Technical Services	261,760	265,704	3,944	1.5%
Management of Companies and Enterprises	140,131	142,564	2,433	1.7%
Administrative and Waste Services	312,607	317,353	4,746	1.5%
Educational Services	459,192	459,883	691	0.2%
Health Care and Social Assistance	830,945	854,583	23,638	2.8%
Arts, Entertainment, and Recreation	64,693	69,377	4,684	7.2%
Accommodation and Food Services	468,849	483,406	14,557	3.1%
Other Services (Except Government)	229,886	231,633	1,747	0.8%
Government	345,574	345,662	88	0.0%
Self-Employed and Unpaid Family Workers	289,852	295,949	6,097	2.1%

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2019.

# Ohio Short-Term Industry Employment\* Forecast

First Quarter 2018 to First Quarter 2020

		2010		Chang	
NAICS		2018	2020	2018-20	
Code	Industry Title	Employment	Forecast	Employment	Percent
	Total, All Industries	5,788,293	5,870,659	82,366	1.4%
	Goods-Producing	997,325	1,009,333	12,008	1.2%
	Natural Resources, inc. Agriculture and Mining	106,790	107,245	455	0.4%
	Agriculture, Forestry, Fishing and Hunting	95,224	95,140	-84	-0.1%
	Mining	11,566	12,105	539	4.7%
	Construction	197,055	208,248	11,193	5.7%
236	Construction of Buildings	45,037	47,379	2,342	5.2%
237	Heavy and Civil Engineering Construction	24,994	26,716	1,722	6.9%
238	Specialty Trade Contractors	127,024	134,153	7,129	5.6%
	Manufacturing	693,480	693,840	360	0.1%
311	Food Manufacturing	61,155	62,900	1,745	2.9%
312	Beverage and Tobacco Product Manufacturing	9,030	9,652	622	6.9%
321	Wood Product Manufacturing	12,845	12,413	-432	-3.4%
322	Paper Manufacturing	19,975	19,199	-776	-3.9%
323	Printing and Related Support Activities	21,267	19,724	-1,543	-7.3%
325	Chemical Manufacturing	45,303	44,807	-496	-1.1%
326	Plastics and Rubber Products Manufacturing	57,574	58,229	655	1.1%
327	Nonmetallic Mineral Product Manufacturing	26,609	26,850	241	0.9%
331	Primary Metal Manufacturing	35,747	34,447	-1,300	-3.6%
332	Fabricated Metal Product Manufacturing	100,502	100,617	115	0.1%
333	Machinery Manufacturing	78,809	81,346	2,537	3.2%
334	Computer and Electronic Product Manufacturing	20,391	20,090	-301	-1.5%
335	Electrical Equipment and Appliance Mfg.	26,865	26,204	-661	-2.5%
336	Transportation Equipment Manufacturing	128,509	128,028	-481	-0.4%
337	Furniture and Related Product Manufacturing	16,121	16,853	732	4.5%
339	Miscellaneous Manufacturing	21,546	21,502	-44	-0.2%
	Service-Providing	4,501,116	4,565,377	64,261	1.4%
	Trade, Transportation and Utilities	1,010,405	1,013,667	3,262	0.3%
	Wholesale Trade	230,970	234,675	3,705	1.6%
423	Merchant Wholesalers, Durable Goods	136,567	138,955	2,388	1.7%
424	Merchant Wholesalers, Nondurable Goods	75,810	77,163	1,353	1.8%
425	Wholesale Electronic Markets and Agents and Brokers	18,593	18,557	-36	-0.2%
	Retail Trade	559,390	555,096	-4,294	-0.8%
441	Motor Vehicle and Parts Dealers	78,230	79,656	1,426	1.8%
442	Furniture and Home Furnishings Stores	13,692	13,610	-82	-0.6%
443	Electronics and Appliance Stores	15,648	15,479	-169	-1.1%
444	Building Mat./Garden Equip. and Supplies Dealers	49,453	51,991	2,538	5.1%
445	Food and Beverage Stores	102,977	102,540	-437	-0.4%
446	Health and Personal Care Stores	36,170	34,734	-1,436	-4.0%
447	Gasoline Stations	35,771	35,337	-434	-1.2%
448	Clothing and Clothing Accessories Stores	38,045	37,192	-853	-2.2%
451	Sporting Goods, Hobby, Book, and Music Stores	19,622	19,088	-534	-2.7%
452	General Merchandise Stores	112,644	109,707	-2,937	-2.6%
453	Miscellaneous Store Retailers	28,658	27,854	-804	-2.8%
454	Nonstore Retailers	28,480	27,908	-572	-2.0%
	Transportation and Warehousing	200,786	204,174	3,388	1.7%
481	Air Transportation	10,102	10,215	113	1.1%
484	Truck Transportation	69,269	71,909	2,640	3.8%
485	Transit and Ground Passenger Transport	10,820	11,113	293	2.7%
488	Support Activities for Transportation	20,038	20,363	325	1.6%
492	Couriers and Messengers	24,702	25,334	632	2.6%
493	Warehousing and Storage	55,884	55,170	-714	-1.3%

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First Quarter 2018 to First Quarter 2020

				Chang	
NAICS		2018	2020	2018-20	
Code	Industry Title	Employment	Forecast	Employment	Percent
	Utilities	19,259	19,722	463	2.4%
	Information	70,919	69,259	-1,660	-2.3%
511	Publishing Industries	21,384	19,777	-1,607	-7.5%
512	Motion Picture and Sound Recording Industries	5,760	5,698	-62	-1.1%
515	Broadcasting (except Internet)	5,981	5,649	-332	-5.6%
517	Telecommunications	24,051	24,030	-21	-0.1%
518	Data processing, hosting and related services	7,870	8,062	192	2.4%
519	Other Information Services	5,873	6,043	170	2.9%
	Financial Activities	306,155	312,286	6,131	2.0%
	Finance and Insurance	244,162	248,813	4,651	1.9%
522	Credit Intermediation and Related Activities	97,750	100,377	2,627	2.7%
523	Securities, commodity contracts and investments	18,857	19,539	682	3.6%
524	Insurance Carriers and Related Activities	126,317	127,665	1,348	1.1%
	Real Estate and Rental and Leasing	61,993	63,473	1,480	2.4%
531	Real Estate	43,986	45,573	1,587	3.6%
532	Rental and Leasing Services	17,324	17,211	-113	-0.7%
	Professional and Business Services	714,498	725,621	11,123	1.6%
	Professional, Scientific, and Technical Services	261,760	265,704	3,944	1.5%
5411	Legal Services	31,660	30,966	-694	-2.2%
5412	Accounting and Bookkeeping Services	33,604	33,500	-104	-0.3%
5413	Architectural, Engineering, and Related Services	41,242	41,680	438	1.1%
5414	Specialized Design Services	6,870	7,107	237	3.4%
5415	Computer Systems Design and Related Services	61,612	63,276	1,664	2.7%
5416	Management and Technical Consulting Services	33,711	33,862	151	0.4%
5417	Scientific Research and Development Services	17,221	18,147	926	5.4%
5418	Advertising and Related Services	12,840	12,889	49	0.4%
5419	Other Professional and Technical Services	23,000	24,277	1,277	5.6%
	Management of Companies and Enterprises	140,131	142,564	2,433	1.7%
	Administrative and Waste Services	312,607	317,353	4,746	1.5%
561	Administrative and Support Services	295,958	299,881	3,923	1.3%
562	Waste Management and Remediation Service	16,649	17,472	823	4.9%
	Education and Health Services	1,290,137	1,314,466	24,329	1.9%
	Educational Services	459,192	459,883	691	0.2%
6111	Elementary and Secondary Schools	285,490	283,797	-1,693	-0.6%
6112	Junior Colleges	23,669	23,278	-391	-1.7%
6113	Colleges, Universities, and Professional Schools	110,154	110,688	534	0.5%
6116	Other Schools and Instruction	11,187	11,073	-114	-1.0%
6117	Educational Support Services	24,109	26,781	2,672	11.1%
	Health Care and Social Assistance	830,945	854,583	23,638	2.8%
621	Ambulatory Health Care Services	270,028	280,466	10,438	3.9%
622	Hospitals	274,501	280,092	5,591	2.0%
623	Nursing and Residential Care Facilities	168,028	169,290	1,262	0.8%
624	Social Assistance	118,388	124,735	6,347	5.4%
	Leisure and Hospitality	533,542	552,783	19,241	3.6%
	Arts, Entertainment, and Recreation	64,693	69,377	4,684	7.2%
711	Performing Arts and Spectator Sports	12,743	13,088	345	2.7%
712	Museums, Historical Sites, and Similar Institution	6,263	6,487	224	3.6%
713	Amusement, Gambling, and Recreation Industries	45,687	49,802	4,115	9.0%
	Accommodation and Food Services	468,849	483,406	14,557	3.1%
721	Accommodation	35,864	37,874	2,010	5.6%
722	Food Services and Drinking Places	432,985	445,532	12,547	2.9%

# Ohio Short-Term Industry Employment\* Forecast

First Quarter 2018 to First Quarter 2020

NAICS		2018	2020	Change 2018-2020			
Code	Industry Title	Employment	Forecast	Employment	Percent		
	Other Services (Except Government)	229,886	231,633	1,747	0.8%		
811	Repair and Maintenance	47,756	48,576	820	1.7%		
812	Personal and Laundry Services	55,031	55,990	959	1.7%		
	Religious, Grantmaking, Civic, Professional, and Similar						
813	Organizations	108,121	108,701	580	0.5%		
814	Private Household	18,978	18,366	-612	-3.2%		
	Government	345,574	345,662	88	0.0%		
4911	Postal Service	22,956	23,292	336	1.5%		
9991	Federal Government, Excluding Post Office	55,137	56,209	1,072	1.9%		
9992	State Govt, excluding Education and Hospitals	52,759	51,383	-1,376	-2.6%		
9993	Local Govt, excluding Education and Hospitals	214,722	214,778	56	0.0%		
	Self-Employed and Unpaid Family Workers	289,852	295,949	6,097	2.1%		

<sup>\*</sup>Industries with at least 5,000 employment.

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2019.

#### Ohio Occupational Employment Forecast by Major Occupational Group

First Quarter 2018 to First Quarter 2020 Breakdown of Annual Openings

		Employ	ment	Change in		Annual Openings				
SOC		2018	2020	Employment	Change	Exits	Transfers			
Code	Occupational Title	Employment	Forecast	2018- 2020	[1]	[2]	[3]	Total		
00-0000	Total, All Occupations	5,788,293	5,870,659	82,366	41,183	269,806	359,130	670,119		
11-0000	Management Occupations	356,615	362,031	5,416	2,708	11,618	15,671	29,997		
13-0000	Business and Financial Operations Occupations	286,506	291,458	4,952	2,476	8,425	16,958	27,859		
15-0000	Computer and Mathematical Occupations	150,844	154,239	3,395	1,698	2,585	7,279	11,562		
17-0000	Architecture and Engineering Occupations	96,672	98,748	2,076	1,038	2,404	4,370	7,812		
19-0000	Life, Physical, and Social Science Occupations	37,412	38,090	678	339	990	2,337	3,666		
21-0000	Community and Social Service Occupations	104,603	107,292	2,689	1,344	4,302	6,952	12,598		
23-0000	Legal Occupations	35,399	35,487	88	44	874	1,234	2,152		
25-0000	Education, Training, and Library Occupations	332,510	334,586	2,076	1,038	13,578	13,546	28,162		
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	86,189	86,510	321	160	3,634	4,606	8,400		
29-0000	Healthcare Practitioners and Technical Occupations	371,952	380,140	8,188	4,094	10,034	9,660	23,788		
31-0000	Healthcare Support Occupations	205,853	212,183	6,330	3,165	11,957	11,337	26,459		
33-0000	Protective Service Occupations	115,978	116,477	499	250	5,742	6,462	12,454		
35-0000	Food Preparation and Serving Related Occupations	501,982	515,861	13,879	6,940	38,754	48,184	93,878		
37-0000	Building and Grounds Cleaning and Maintenance Occupations	185,656	188,338	2,682	1,341	11,390	11,876	24,607		
39-0000	Personal Care and Service Occupations	171,494	176,162	4,668	2,334	13,003	12,142	27,479		
41-0000	Sales and Related Occupations	535,957	536,979	1,022	511	30,852	40,904	72,267		
43-0000	Office and Administrative Support Occupations	844,793	847,266	2,473	1,236	43,048	50,428	94,712		
45-0000	Farming, Fishing, and Forestry Occupations	13,771	13,712	-59	-30	504	1,522	1,996		
47-0000	Construction and Extraction Occupations	204,041	214,128	10,087	5,044	7,338	13,766	26,148		
49-0000	Installation, Maintenance, and Repair Occupations	222,867	227,134	4,267	2,134	7,826	13,160	23,120		
51-0000	Production Occupations	508,043	506,907	-1,136	-568	20,051	36,250	55,733		
53-0000	Transportation and Material Moving Occupations	419,156	426,931	7,775	3,888	20,898	30,486	55,272		

Numeric change measures the projected annual number of job gains or losses in an occupation for the projection period.
 Exits are the projected number of workers leaving an occupation and exiting the labor force entirely.
 Transfers are the projected number of workers leaving an occupation and transferring to a different occupation.
 Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2019.

### Ohio's Fastest Growing Occupations\*

#### First Quarter 2018 to First Quarter 2020

SOC Code	Occupational Title	Percent Change	Total Annual Openings	Median Hourly Wage May 2018
47-2181	•	11.5%	814	\$18.65
47-2021	Brickmasons and Blockmasons	10.4%	513	\$26.63
47-3011	HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	10.4%	111	\$17.93
47-2051	Cement Masons and Concrete Finishers	9.8%	661	\$22.25
47-2121	Glaziers	9.6%	220	\$20.53
53-7032	Excavating and Loading Machine and Dragline Operators	9.3%	162	\$20.47
47-2044	Tile and Marble Setters	7.4%	110	\$20.51
47-2221	Structural Iron and Steel Workers	7.4%	421	\$29.02
47-4031	Fence Erectors	7.3%	101	\$18.06
29-1071	Physician Assistants	7.2%	296	\$50.94
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	7.2%	137	\$9.75
39-3091	Amusement and Recreation Attendants	7.1%	2,478	\$9.34
39-9021	Personal Care Aides	7.1%	5,908	\$10.94
47-2071	Paving, Surfacing, and Tamping Equipment Operators	7.0%	142	\$23.05
29-2056	Veterinary Technologists and Technicians	6.8%	395	\$15.41
29-1171	Nurse Practitioners	6.6%	569	\$48.56
29-1131	Veterinarians	6.6%	238	\$45.82
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	6.5%	532	\$12.08
47-2061	Construction Laborers	6.3%	5,684	\$19.22
49-9011	Mechanical Door Repairers	6.3%	120	\$20.06
25-9099	Education, Training, and Library Workers, All Other	6.1%	501	\$21.38
47-2141	Painters, Construction and Maintenance	5.9%	1,040	\$19.36
41-9021	Real Estate Brokers	5.9%	199	\$27.10
43-4081	Hotel, Motel, and Resort Desk Clerks	5.9%	1,130	\$10.30
31-1011	Home Health Aides	5.7%	9,894	\$10.67
47-2081	Drywall and Ceiling Tile Installers	5.6%	177	\$20.02
15-2041	Statisticians	5.6%	74	\$37.82
11-9081	Lodging Managers	5.6%	156	\$19.78
47-3012	HelpersCarpenters	5.6%	137	\$14.14
47-2031	Carpenters	5.5%	3,259	\$22.23

\*Based on occupations with at least 500 workers.
Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2019.

# Occupations in Ohio with the Most Annual Openings First Quarter 2018 to First Quarter 2020

soc		Total Annual	Median Hourly Wage
	Occupational Title	Openings	May 2018
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	33,145	\$9.31
41-2031	Retail Salespersons	21,240	\$11.06
41-2011	Cashiers	20,273	\$9.71
35-3031	Waiters and Waitresses	19,697	\$9.37
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	16,433	\$13.67
43-4051	Customer Service Representatives	11,942	\$16.18
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	11,780	\$12.03
43-9061	Office Clerks, General	10,917	\$15.74
43-5081	Stock Clerks and Order Fillers	10,381	\$11.96
31-1011	Home Health Aides	9,894	\$10.67
53-3032	Heavy and Tractor-Trailer Truck Drivers	9,246	\$20.66
43-6014	Secretaries and Administrative Assistants, Ex. Legal, Medical, and Executive	8,324	\$17.09
29-1141	Registered Nurses	8,196	\$30.87
31-1014	Nursing Assistants	7,413	\$13.00
43-3031	Bookkeeping, Accounting, and Auditing Clerks	7,301	\$18.50
53-7064	Packers and Packagers, Hand	6,402	\$11.82
49-9071	Maintenance and Repair Workers, General	6,092	\$19.15
39-9011	Childcare Workers	5,948	\$10.01
35-2014	Cooks, Restaurant	5,922	\$11.89
39-9021	Personal Care Aides	5,908	\$10.94
11-9013	Farmers, Ranchers, and Other Agricultural Managers	5,887	\$34.65
11-1021	General and Operations Managers	5,759	\$46.21
47-2061	Construction Laborers	5,684	\$19.22
37-2012	Maids and Housekeeping Cleaners	5,492	\$10.47
35-1012	FL Supervisors of Food Preparation and Serving Workers	5,445	\$14.43
37-3011	Landscaping and Groundskeeping Workers	5,354	\$13.22
41-1011	FL Supervisors of Retail Sales Workers	5,263	\$18.34
41-4012	Sales Reps, Wholesale and Manufacturing, Ex. Tech and Scientific Products	5,232	\$27.60
43-6013		5,197	\$16.30
43-1011	FL Supervisors of Office and Administrative Support Workers	4,656	\$25.93

Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2019.

Dec-   December   Propriet   Pr			Employ	mont	Chana	o in	ı	Annual (	Ononingo		Median
			2018		Employ	ment		Exits			Hourly Wage
Marganest Companions		·									· ·
10-201   Confederation Manager											
1990   1.00	11-1011	Chief Executives	7,145	7,059	-86	-1.2%	-43	205	292	454	
13.001   Adventions and Parents Continued Parents   1.000											
Machang Managane		v									
1920   1-200		Marketing Managers									
1921   1922   1922   192   193   194   195   1											
1920    Parameter Managers											
19.000   Production Troblection Managers											
15000   Transport Managem											
1971   1972   1972   1972   1973   1973   1975   1975   1975   2075		-									
Harmer Resources Messages   4,007   70   168, 35   110   728   38   38   73   50.00											
11-211   Telesing and Development Managers   12-2   10   17%   5   27   48   78   56-38											
1.0001   Flancetina Manipures   1.4711   1.6113   200   2.68   361   365   670   3.366   2.972   2.9713   2.9714   2.9715   2.9											
Education Administrations, Freedrical and Children's Center-Program   2,207   2,727   31   125   76   167   77   1827, 777											
1.5002   Education Administrators, Extended property   5,000   5,011   18   0.75   14   177   5817,700   170   170   170   180   170   1											
Education Administration, All Offices   1,083   1,092   39   37%   79   30   44   89   \$4,117											
1990   1990		Education Administrators, Postsecondary									
1909   Professor Managers   11,307   11,881   294   25%   102   386   881   5,368   823,33   11,9001   11,900   11,900   11,900   12,000											
1,000   1,00		ů ů ů									
	11-9061	Funeral Service Managers	1,283	1,289	6	0.5%	3	35	54	92	\$42.82
1997   Natural Scanness Managers   1,000   1,121   31   2,8%   16   75   62   130   88604											
199131   Postmarters and Mail Superintendents											
199151   Social and Community Service Managemen   April   5,007   190   A.1%   98   162   256   516   532.69											
1991											
19.1919   Managers, All Orbit   24,163   24,163   24,163   1,76   27   668   1,027   1,887   3448.29   1,800   1,027   1,887   3448.29   1,800   1,027   1,887   3448.29   1,800   1		, ,									
19-1011 Agente and Business Managers of Artists, Ferformers, and Atletees  13-1021 Busyness and Purchasing Agents, Exempt Products  333 339 4 1, 120 0, 30 5 18 13 \$16.73  13-1022 Wholesals and Brazil Buyers, Except Ferm Products  4,887 4,971 1-10 -0.3% -8 197 300 5-60 ▲  13-1022 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1022 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1022 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1023 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1024 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1025 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1026 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1027 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1027 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1027 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1027 Purchasing Agents, Exempt Wholesals, Rettal, and Farm Products  13-1028 Insurance Agents Agents, Exempt Wholesals, Rettal, and Farm Products  13-1029 Insurance Agents Agents, Exempt Wholesals, Rettal, and Farm Products  13-1029 Insurance Agents Agents, Exempt Wholesals, Rettal, Agents, Agents											
19-1012 Buyers and Furchssing Agents, Farm Products 4,987 4,971 1,00 - 0,05 - 1,00 -				_							
13-1022   Wholesale and Retail Buyers, Except Farm Products											
13-1032   Purchasing Agents, Except Wholestels, Retail, and Farm Products   13,317   13,260   5-7   0.4%   28   394   734   1,100   A											
13-1032   Insurance Appresiers, Auto Damage   727   722   5   0,7%   -2   18   40   50   \$28:585   \$32:801   \$13-1041   Complex Comp	13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	13,317	13,260	-57	-0.4%	-28	394	734	1,100	<b>A</b>
13-1041   Compliance Officers   7,324   1,7418   94   1,3%   47   206   372   625   529.80   13-1051   Cost Estimators   10,1817   1,124   485   4.5%   242   348   718   1,308   529.15   13-1071   Human Resources Specialists   20,179   20,442   263   1,3%   132   590   1,355   2,657   527.80   13-1071   Human Resources Specialists   6,319   6,229   10   0,2%   5   184   416   605   518.80   13-1075   Labor Resources Specialists   6,319   6,29   10   0,2%   5   184   416   605   518.80   13-1081   Logisticians   5,880   5,881   01   1,5%   46   146   418   610   534.87   13-1111   Management Analysis   22,288   22,775   3499   1,5%   46   146   418   610   534.87   13-1111   Management Analysis   22,288   22,775   3499   1,5%   46   145   230   371   351.31   13-1111   Management Analysis   2,2881   4,2655   73   2,5%   36   590   196   331   321.88   13-1131   Fundations   4,444   4,445   4,455   4,400											
13-107  Human Resources Specialists											
13-1075   Labor Relations Specialists								348			
13-108    Cogisticians											
13-1111   Management Analysts   22,388   22,757   369   1.6%   164   725   1,166   2,075   537,37   373,37		·									
13-1131   Fundraisers		v									
13-1141   Compensation, Benefits, and Job Analysis Specialists   9,402   9,573   171   15%   86   822   610   988   827.12											
13-1161   Training and Development Specialists   9,402   9,573   171   1.8%   86   292   610   988   \$27.12											
13-199   Business Operations Specialists, All Other   34,648   35,141   566   1.6%   283   1,092   2,010   3,385   \$31.70											
13-2011   Accountants and Auditors											
13-2021   Appraisers and Assessors of Real Estate   2.272   2.327   55   2.4%   28   80   66   174   \$27.10											
13-2051   Financial Analysts											
13-2052   Personal Financial Activiors   7,792   8,120   328   4,2%   164   196   389   749   \$35.76     13-2053   Insurance Underwriters   5,892   5,741   .151   .2.6%   .76   150   312   386   \$32.78     13-2051   Financial Examiners   3,533   3,652   119   3,4%   60   100   164   324   334.69     13-2072   Loan Officiors   12,907   13,336   429   3,3%   214   317   728   1,259   \$31.14     13-2081   Tax Examiners and Collectors, and Revenue Agents   1,654   1,651   .3   .0.2%   .2   50   64   112   \$30.01     13-2082   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2083   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Tax Prepares   2,983   2,983   0   0,0%   18   19   19   19   19   19   19   19	_	•									-
13-2053   Insurance Underwriters   5,892   5,741   .151   .2.6%   .7-6   150   312   336   \$32.78     13-2081   Financial Examiners   3,533   3,852   119   3.4%   60   100   164   324   \$34.69     13-2081   Tax Examiners and Collectors, and Revenue Agents   12,907   13,336   429   3.3%   214   317   728   1,259   \$31.14     13-2081   Tax Examiners and Collectors, and Revenue Agents   1,654   1,651   -3   -0.2%   -2   50   64   112   \$30.01     13-2082   Tax Preparers   2,983   2,983   0   0,0%   0   162   148   310   \$17.98     13-2093   Financial Specialists, All Other   5,793   5,940   147   2.5%   74   181   303   558   \$36.38     18-000   Computer and Mathematical Occupations   160.44   164.299   3,395   2.3%   1,698   2,586   7,279   11,662   \$37.47     15-1112   Computer and Information Research Scientists   179   184   5   2.8%   2   2   10   14   \$53.05     15-1121   Computer Systems Analysts   2,960   29,982   378   1,3%   189   544   1,330   2,063   \$40.43     15-1122   Computer Programmers   2,960   3,130   161   5,4%   80   54   1,48   282   \$42.97     15-1131   Computer Programmers   6,037   5,928   -109   -1.8%   -54   104   267   317   \$34.99     15-1132   Software Developers, Applications   36,073   37,758   1,685   4.7%   842   504   1,812   3,158   \$43.88     15-1144   Database Administrators   4,418   4,491   73   1,7%   36   94   185   315   \$43.26     15-1143   Network and Computer Systems Administrators   4,418   4,491   73   1,7%   36   94   185   315   \$43.26     15-1145   Network and Computer Network Architects   5,500   5,645   36   0.6%   18   77   374   \$46.41     15-1159   Computer Network Architects   5,500   5,645   36   0.6%   18   77   374   \$46.41     15-1159   Computer Network Architects   5,500   5,645   36   0.6%   18   77   374   \$46.41     15-1159   Computer Network Architects   5,500   5,645   36   0.6%   18   77   374   \$46.41     15-1169   Computer Network Architects   5,500   5,645   36   0.6%   18   77   374   \$46.41     15-1169   Computer Network Architects   5,500											
13-2061   Financial Examiners   12,907   13,336   429   3.3%   214   317   728   1,259   \$31.14   13-207   13,207   13,336   429   3.3%   214   317   728   1,259   \$31.14   13-2081   73.2081   7											
13-2081   Tax Examiners and Collectors, and Revenue Agents	13-2061	Financial Examiners	3,533	3,652	119	3.4%			164	324	\$34.69
Tax Preparers											
13-2099   Financial Specialists, All Other   5,793   5,940   147   2,5%   74   181   303   558   \$36.38   \$16000   Computer and Mathematical Occupations   160,844   164,239   3,395   2,3%   1,698   2,585   7,279   11,662   \$37.47   151:111   Computer and Information Research Scientists   179   184   5   2,8%   2   2   10   14   \$53.07   151:112   Computer Systems Analysts   29,604   29,982   378   1,3%   189   544   1,330   2,063   \$40.43   15:1122   Information Security Analysts   2,969   3,130   161   5,4%   80   54   148   282   \$42.97   15:1132   Computer Programmers   6,037   5,928   -109   -1,8%   -54   104   267   317   \$34.99   15:1132   Software Developers, Applications   36,073   37,758   1,685   4,7%   842   504   1,812   3,158   \$43.88   15:1133   Software Developers, Systems Software   5,956   6,060   104   1,7%   52   82   295   429   \$47.51   15:1134   Web Developers   3,850   3,893   43   1,1%   22   72   196   290   \$29.88   15:1142   Network and Computer Systems Administrators   4,418   4,491   73   1,7%   36   94   185   315   \$43.26   15:1142   Network and Computer Systems Administrators   14,280   14,392   112   0.8%   56   202   674   932   \$36.15   15:1152   Computer Network Architects   5,609   5,645   36   0.6%   18   79   277   374   366.15   15:1152   Computer Network Support Specialists   19,218   19,560   342   1.8%   171   394   998   1,563   \$22.66   15:1152   Computer Network Support Specialists   19,237   10,389   152   1.5%   76   210   531   817   \$22.66   15:2031   Operations Research Analysts   3,919   4,115   196   5.0%   98   82   151   331   \$38.26   15:2031   Operations Research Analysts   3,919   4,115   196   5.0%   98   82   151   331   \$38.26   17:0101   Architects, Except Landscape and Naval   3,571   3,581   10   0.3%   5   90   160   \$255   \$36.88   17:0101   Architects, Except Landscape and Naval   3,571   3,581   10   0.3%   5   90   160   \$255   \$36.88   17:0101   Architects, Except Landscape and Naval   3,672   89.48   994   912   8   0.9%   4   23   40   67											
15-1111   Computer and Information Research Scientists   179   184   5   2.8%   2   2   10   14   \$53.05     15-1121   Computer Systems Analysts   29,604   29,982   378   1.3%   189   544   1.330   2,063   \$40.43     15-1122   Information Security Analysts   29,969   3,130   161   5.4%   80   54   1.48   282   \$42.97     15-1131   Computer Programmers   6,037   5,928   -109   -1.8%   -54   104   267   317   \$34.99     15-1132   Software Developers, Applications   36,073   37,758   1,685   4.7%   842   504   1.812   3,158   \$43.88     15-1133   Software Developers, Systems Software   5,956   6,060   104   1.7%   52   82   295   429   \$47.51     15-1134   Web Developers   3,850   3,893   43   1.1%   22   72   196   290   \$29.88     15-1141   Database Administrators   4,418   4,491   73   1.7%   36   94   185   315   \$43.26     15-1143   Computer Network Architects   4,418   4,491   73   1.7%   36   94   185   315   \$43.26     15-1143   Computer Network Architects   5,609   5,645   36   0.6%   18   79   277   374   \$46.41     15-1151   Computer User Support Specialists   19,218   19,560   342   1.8%   171   394   998   1,563   \$22.66     15-1199   Computer Network Support Specialists   19,237   10,339   152   1.5%   76   210   531   817   \$27.60     15-2031   Actuaries   1,139   1,180   41   3.6%   20   14   54   88   \$45.19     15-2041   Statisticians   3,919   4,115   196   5.0%   93   82   151   331   \$38.26     15-2041   Statisticians   3,571   3,581   10   0.3%   5   90   160   255   \$36.88     17-1011   Architects, Except Landscape and Naval   3,571   3,581   10   0.3%   5   90   160   255   \$36.88     17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28     17-1011   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28     17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28     17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28     17-1012   Landscape Architects   904   912   8   0.9%   4   23   40	13-2099		5,793			2.5%					
15-1121   Computer Systems Analysts   29,604   29,982   378   1.3%   189   544   1,330   2,063   \$40.43   15-1122   Information Security Analysts   2,969   3,130   161   5.4%   80   54   148   282   \$42.97   15-1131   Computer Programmers   6,037   5,928   -109   -1.8%   -54   104   267   317   334.99   15-1132   Software Developers, Applications   36,073   37,758   1,685   4.7%   842   504   1,812   3,158   \$43.88   15-1133   Software Developers, Systems Software   5,956   6,060   104   1.7%   52   82   295   429   \$47.51   15-1134   Web Developers   3,850   3,893   43   1.1%   22   72   196   290   \$29.88   15-1142   Network and Computer Systems Administrators   4,418   4,491   73   1.7%   36   94   185   315   343.26   15-1142   Network and Computer Systems Administrators   14,280   14,392   112   0.8%   56   202   674   932   \$36.15   15-1143   Computer Network Architects   5,609   5,645   36   0.6%   18   79   277   374   \$46.41   15-1152   Computer Network Support Specialists   19,218   19,560   342   1.8%   171   394   998   1,563   \$22.66   15-1152   Computer Network Support Specialists   10,237   10,389   152   1.5%   76   210   531   817   \$27.60   15-201   Actuaries   4,115   196   5.0%   98   82   151   331   \$38.26   15-2041   Statisticians   716   756   40   5.6%   20   16   38   74   \$37.82   17-000   Architectus and Engineering Occupations   3,571   3,581   10   0.3%   5   90   160   255   \$36.88   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$32.88   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$32.88   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$32.88   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$32.828   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$32.828   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$32.828   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$32.828   17-1012   Land								-			
15-1122   Information Security Analysts											
15-1132   Software Developers, Applications   36,073   37,758   1,685   4.7%   842   504   1,812   3,158   \$43.88   15-1133   Software Developers, Systems Software   5,956   6,060   104   1.7%   52   82   295   429   \$47.51   15-1134   Web Developers   3,850   3,893   43   1.1%   22   72   196   290   \$29.88   15-1141   Database Administrators   4,418   4,491   73   1.7%   36   94   185   315   \$43.26   15-1142   Network and Computer Systems Administrators   14,280   14,392   112   0.8%   56   202   674   932   \$36.15   15-1143   Computer Network Architects   5,609   5,645   36   0.6%   18   79   277   374   \$46.41   15-1151   Computer User Support Specialists   19,218   19,560   342   1.8%   171   394   998   1,563   \$22.66   15-1152   Computer Network Support Specialists   19,237   10,389   152   1.5%   76   210   531   817   \$27.60   15-1199   Computer Occupations, All Other   6,545   6,676   131   2.0%   66   128   307   501   \$39.73   15-2011   Actuaries   1,139   1,180   41   3.6%   20   14   54   88   \$45.19   15-2031   Operations Research Analysts   3,919   4,115   196   5.0%   98   82   151   331   338.26   15-2041   Statisticians   716   756   40   5.6%   20   16   38   74   \$37.82   17-000   Architecture and Engineering Occupations   17-1011   Architects, Except Landscape and Naval   3,571   3,581   10   0.3%   5   90   160   255   \$36.88   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28   17-1012   Landscape Architects   904   912   8   0.9%   4   23   40   67   \$28.28   17-1012   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.20   1.	15-1122	Information Security Analysts	2,969	3,130	161	5.4%	80	54	148	282	\$42.97
15-1133         Software Developers, Systems Software         5,956         6,060         104         1.7%         52         82         295         429         \$47.51           15-1134         Web Developers         3,850         3,893         43         1.1%         22         72         196         290         \$29.88           15-1141         Database Administrators         4,418         4,491         73         1,7%         36         94         185         315         \$43.26           15-1142         Network and Computer Systems Administrators         14,280         14,392         112         0.8%         56         202         674         932         \$36.15           15-1143         Computer Network Architects         5,609         5,645         36         0.6%         18         79         277         374         \$46.41           15-1151         Computer Network Support Specialists         19,218         19,560         342         1.8%         171         394         998         1,563         \$22.66           15-1152         Computer Network Support Specialists         10,237         10,389         152         1.5%         76         210         531         817         \$27.60 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
15-1134         Web Developers         3,850         3,893         43         1.1%         22         72         196         290         \$29.88           15-1141         Database Administrators         4,418         4,491         73         1.7%         36         94         185         315         \$43.26           15-1142         Network and Computer Systems Administrators         14,280         14,392         112         0.8%         56         202         674         932         \$36.15           15-1143         Computer Network Architects         5,609         5,645         36         0.6%         18         79         277         374         \$46.41           15-1151         Computer Network Architects         5,609         5,645         36         0.6%         18         79         277         374         \$46.41           15-1151         Computer User Support Specialists         19,218         19,560         342         1.8%         171         394         998         1,563         \$22.66           15-1152         Computer Network Support Specialists         10,237         10,389         152         1.5%         76         210         531         817         \$27.60           15-1199											
15-1142     Network and Computer Systems Administrators     14,280     14,392     112     0.8%     56     202     674     932     \$36.15       15-1143     Computer Network Architects     5,609     5,645     36     0.6%     18     79     277     374     \$46.41       15-1151     Computer User Support Specialists     19,218     19,560     342     1.18%     171     394     998     1,563     \$22.66       15-1152     Computer Network Support Specialists     10,237     10,389     152     1.5%     76     210     531     817     \$27.60       15-1199     Computer Occupations, All Other     6,545     6,676     131     2.0%     66     128     307     501     \$39.73       15-2011     Actuaries     1,139     1,180     41     3.6%     20     14     54     88     \$45.19       15-2021     Operations Research Analysts     3,919     4,115     196     5.0%     98     82     151     331     \$38.26       15-2041     Statisticians     716     756     40     5.6%     20     16     38     74     \$37.82       17-000     Architecture and Engineering Occupations     96,672     98,748     2,076     2	15-1134	Web Developers	3,850	3,893	43	1.1%	22	72	196	290	\$29.88
15-1143         Computer Network Architects         5,609         5,645         36         0.6%         18         79         277         374         \$46.41           15-1151         Computer User Support Specialists         19,218         19,560         342         1.8%         171         394         998         1,563         \$22.66           15-1152         Computer Network Support Specialists         10,237         10,389         152         1.5%         76         210         531         817         \$27.60           15-1195         Computer Occupations, All Other         6,545         6,676         131         2.0%         66         128         307         501         \$39.73           15-2011         Actuaries         1,139         1,180         41         3.6%         20         14         54         88         \$45.19           15-2031         Operations Research Analysts         3,919         4,115         196         5.0%         98         82         151         331         \$38.26           15-2041         Statisticians         716         756         40         5.6%         20         16         38         74         \$37.82           17-0000         Architecture and Engine											
15-1151         Computer User Support Specialists         19,218         19,560         342         1.8%         171         394         998         1,563         \$22.66           15-1152         Computer Network Support Specialists         10,237         10,389         152         1.5%         76         210         531         817         \$27.60           15-1199         Computer Occupations, All Other         6,545         6,676         131         2.0%         66         128         307         501         \$39.73           15-2011         Actuaries         1,139         1,180         41         3.6%         20         14         54         88         \$45.19           15-2031         Operations Research Analysts         3,919         4,115         196         5.0%         98         82         151         331         \$38.26           15-2041         Statisticians         716         756         40         5.6%         20         16         38         74         \$37.82           17-0000         Architecture and Engineering Occupations         96,672         98,748         2,076         2,1%         1,038         2,404         4,370         7,812         \$36.07           17-1011											
15-1199         Computer Occupations, All Other         6,545         6,676         131         2.0%         66         128         307         501         \$39.73           15-2011         Actuaries         1,139         1,180         41         3.6%         20         14         54         88         \$45.19           15-2031         Operations Research Analysts         3,919         4,115         196         5.0%         98         82         151         331         \$38.26           15-2041         Statisticians         716         756         40         5.6%         20         16         38         74         \$37.82           17-0000         Architecture and Engineering Occupations         98,672         98,748         2,076         2,1%         1,038         2,404         4,370         7,812         \$36.07           17-1011         Architecture, Except Landscape and Naval         3,571         3,581         10         0,3%         5         90         160         255         \$36.88           17-1012         Landscape Architects         904         912         8         0,9%         4         23         40         67         \$28.28					342						
15-2011     Actuaries     1,139     1,180     41     3.6%     20     14     54     88     \$45.19       15-2031     Operations Research Analysts     3,919     4,115     196     5.0%     98     82     151     331     \$38.26       15-2041     Statisticians     716     756     40     5.6%     20     16     38     74     \$37.82       17-0000     Architecture and Engineering Occupations     96,672     98,748     2,076     2.1%     1,038     2,404     4,370     7,812     \$36.07       17-1011     Architects, Except Landscape and Naval     3,571     3,581     10     0,3%     5     90     160     255     \$36.88       17-1012     Landscape Architects     904     912     8     0,9%     4     23     40     67     \$28.28											
15-2031         Operations Research Analysts         3,919         4,115         196         5.0%         98         82         151         331         \$38.26           15-2041         Statisticians         716         756         40         5.6%         20         16         38         74         \$37.82           17-0000         Architecture and Engineering Occupations         96,672         98,748         2,076         2.1%         1,038         2,404         4,370         7,812         \$36.07           17-1011         Architects, Except Landscape and Naval         3,571         3,581         10         0.3%         5         90         160         255         \$36.88           17-1012         Landscape Architects         904         912         8         0.9%         4         23         40         67         \$28.28											
15-2041     Statisticians     716     756     40     5.6%     20     16     38     74     \$37.82       17-0000     Architecture and Engineering Occupations     96,672     98,748     2,076     2.1%     1,038     2,404     4,370     7,812     \$36.07       17-1011     Architects, Except Landscape and Naval     3,571     3,581     10     0.3%     5     90     160     255     \$36.88       17-1012     Landscape Architects     904     912     8     0.9%     4     23     40     67     \$28.28											
17-1011     Architects, Except Landscape and Naval     3,571     3,581     10     0.3%     5     90     160     255     \$36.88       17-1012     Landscape Architects     904     912     8     0.9%     4     23     40     67     \$28.28	15-2041	Statisticians	716	756	40	5.6%	20	16	38	74	\$37.82
17-1012 Landscape Architects 904 912 8 0.9% 4 23 40 67 \$28.28					•				_		

		Employ	mont	Chang	o in		Annual (	Openings		Median
soc		Employs 2018	2020	Employ		Change	Exits	Transfers		Hourly Wage
Code	Occupational Title**	Employment	Forecast	2018-2020	Percent	[1]	[2]	[3]	Total	May 2018
17-2011	Aerospace Engineers	5,030	5,172	142	2.8%	71	116	183	370	\$53.07
17-2031 17-2041	Biomedical Engineers Chemical Engineers	681 1,445	693 1,460	12 15	1.8%	6 8	15 32	30 60	51 100	\$38.10 \$45.19
17-2041	Civil Engineers	8,051	8,190	139	1.7%	70	176	400	646	\$37.68
17-2061	Computer Hardware Engineers	1,067	1,092	25	2.3%	12	21	46	79	\$48.81
17-2071	Electrical Engineers	6,261	6,402	141	2.3%	70	143	254	467	\$40.28
17-2072	Electronics Engineers, Except Computer	3,789	3,848	59	1.6%	30	86	153	269	\$46.00
17-2081 17-2111	Environmental Engineers  Health and Safety Engineers, Ex. Mining Safety Engineers and Inspectors	1,198 532	1,212 547	14 15	1.2% 2.8%	7 8	28 12	50 22	85 42	\$40.76 \$42.30
17-2111	Industrial Engineers	14,926	15,344	418	2.8%	209	345	617	1,171	\$38.79
17-2131	Materials Engineers	1,582	1,601	19	1.2%	10	50	61	121	\$40.93
17-2141	Mechanical Engineers	14,689	15,198	509	3.5%	254	304	622	1,180	\$37.24
17-2151 17-2171	Mining and Geological Engineers, Including Mining Safety Engineers	122 361	126 364	3	3.3% 0.8%	2	6	6 17	10 25	\$40.75 \$39.79
17-2171	Petroleum Engineers Engineers, All Other	7,403	7,542	139	1.9%	70	172	302	544	\$42.97
17-3011	Architectural and Civil Drafters	2,813	2,855	42	1.5%	21	84	153	258	\$24.71
17-3012	Electrical and Electronics Drafters	738	744	6	0.8%	3	22	40	65	\$27.51
17-3013	Mechanical Drafters	2,486	2,543	57	2.3%	28	74	136	238	\$25.82
17-3019 17-3021	Drafters, All Other	1,215 434	1,237 446	22 12	1.8% 2.8%	11 6	36 14	66 23	113 43	\$24.97 \$32.57
17-3021	Aerospace Engineering and Operations Technicians Civil Engineering Technicians	1,979	2,004	25	1.3%	12	64	105	181	\$27.75
17-3023	Electrical and Electronic Engineering Technicians	2,428	2,444	16	0.7%	8	78	128	214	\$29.59
17-3024	Electro-Mechanical Technicians	421	429	8	1.9%	4	14	22	40	\$27.03
17-3025	Environmental Engineering Technicians	324	326	2	0.6%	1	10	17	28	\$22.02
17-3026	Industrial Engineering Technicians	3,275	3,329	54 52	1.6%	27 26	106 74	174	307	\$26.35
17-3027 17-3029	Mechanical Engineering Technicians Engineering Technicians, Except Drafters, All Other	2,267 3,294	2,319 3,340	46	2.3% 1.4%	26	106	121 174	221 303	\$25.92 \$27.46
17-3031	Surveying and Mapping Technicians	1,501	1,518	17	1.1%	8	50	108	166	\$20.14
19-0000	Life, Physical, and Social Science Occupations	37,412	38,090	678	1.8%	339	990	2,337	3,666	\$28.99
19-1012	Food Scientists and Technologists	780	816	36	4.6%	18	22	58	98	\$32.93
19-1013	Soil and Plant Scientists	215 562	216 569	1 7	0.5%	0 4	6 12	16 36	22 52	\$26.59 \$30.02
19-1022 19-1023	Microbiologists Zoologists and Wildlife Biologists	167	166	-1	1.2% -0.6%	0	4	10	14	\$30.02 \$27.37
19-1029	Biological Scientists, All Other	821	857	36	4.4%	18	17	54	89	\$32.02
19-1031	Conservation Scientists	384	389	5	1.3%	2	8	24	34	\$25.37
19-1032	Foresters	178	177	-1	-0.6%	0	4	11	15	\$28.40
19-1041 19-1042	Epidemiologists	189	191 4,400	96	1.1%	1 48	4 80	12 277	17 405	\$31.74 \$32.62
19-1042	Medical Scientists, Except Epidemiologists Physicists	4,304 528	540	12	2.2%	6	11	30	405	\$56.67
19-2031	Chemists	4,109	4,162	53	1.3%	26	104	259	389	\$32.45
19-2032	Materials Scientists	633	647	14	2.2%	7	16	40	63	\$45.86
19-2041	Environmental Scientists and Specialists, Including Health	3,281	3,296	15	0.5%	8	71	226	305	\$36.00
19-2042 19-2043	Geoscientists, Except Hydrologists and Geographers Hydrologists	355 263	357 263	0	0.6%	0	8	24 18	33 24	\$36.13 \$38.40
19-2043	Physical Scientists, All Other	441	449	8	1.8%	4	8	26	38	\$50.10
19-3011	Economists	126	128	2	1.6%	1	2	7	10	\$52.31
19-3022	Survey Researchers	151	157	6	4.0%	3	4	10	17	\$26.55
19-3031	Clinical, Counseling, and School Psychologists	4,230	4,377	147	3.5%	74	108	164	346	\$35.06
19-3039 19-3051	Psychologists, All Other Urban and Regional Planners	461 559	473 568	12 9	2.6% 1.6%	6 4	12 11	18 34	36 49	\$48.93 \$32.00
19-3091	Anthropologists and Archeologists	114	114	0	0.0%	0	3	7	10	\$28.45
19-3099	Social Scientists and Related Workers, All Other	1,841	1,878	37	2.0%	18	53	114	185	\$36.32
19-4011	Agricultural and Food Science Technicians	495	509	14	2.8%	7	14	36	57	\$19.02
19-4021	Biological Technicians	2,940	2,991	51	1.7%	26	76	202	304	\$21.13
19-4031 19-4061	Chemical Technicians Social Science Research Assistants	3,845 336	3,879 339	34	0.9%	17 2	128 14	227 25	372 41	\$21.71 \$20.76
19-4091	Environmental Science and Protection Technicians, Including Health	1,596	1,611	15	0.9%	8	64	120	192	\$20.76
19-4092	Forensic Science Technicians	368	374	6	1.6%	3	15	28	46	\$30.97
19-4093	Forest and Conservation Technicians	243	243	0	0.0%	0	10	18	28	\$19.51
19-4099	Life, Physical, and Social Science Technicians, All Other	1,580	1,621	41 2 600	2.6%	20	64	120	204	\$24.98
<b>21-0000</b> 21-1011	Community and Social Service Occupations  Substance Abuse and Behavioral Disorder Counselors	104,603 3,181	<b>107,292</b> 3,305	<b>2,689</b> 124	<b>2.6%</b> 3.9%	<b>1,344</b>	<b>4,302</b> 119	<b>6,952</b> 212	<b>12,598</b> 393	\$20.70
21-1011	Educational, Guidance, School, and Vocational Counselors	10,390	10,517	127	1.2%	64	384	684	1,132	\$25.70
21-1013	Marriage and Family Therapists	512	535	23	4.5%	12	19	34	65	\$22.41
21-1014	Mental Health Counselors	5,471	5,756	285	5.2%	142	206	367	715	<b>A</b>
21-1015	Rehabilitation Counselors Counselors All Other	5,966	6,181 1,594	215	3.6%	108 26	224 58	397	729 186	\$16.58 \$21.15
21-1019	Counselors, All Other Child, Family, and School Social Workers	1,541 10,006	1,594	53 388	3.4%	194	366	102 648	1,208	\$21.15 \$20.54
21-1022	Healthcare Social Workers	9,573	9,803	230	2.4%	115	348	616	1,079	\$25.74
21-1023	Mental Health and Substance Abuse Social Workers	5,302	5,506	204	3.8%	102	194	344	640	\$19.35
21-1029	Social Workers, All Other	3,335	3,436	101	3.0%	50	122	215	387	\$23.68
21-1091	Health Educators  Probation Officers and Correctional Treatment Specialists	1,878	1,919	41 4	2.2%	20	86	141	247	\$26.21 \$23.64
21-1092	Probation Officers and Correctional Treatment Specialists  Social and Human Service Assistants	2,889 16,522	2,893 17,109	587	0.1% 3.6%	2 294	88 752	152 1,203	242 2,249	\$23.64 \$15.55
21-1094	Community Health Workers	1,579	1,626	47	3.0%	24	72	119	215	\$17.52
21-1099	Community and Social Service Specialists, All Other	3,082	3,156	74	2.4%	37	141	232	410	\$19.59
21-2011	Clergy	18,751	18,885	134	0.7%	67	863	1,154	2,084	\$21.62
21-2021	Directors, Religious Activities and Education	2,007	2,022	15	0.7%	8	90	152	250	\$21.10
21-2099 <b>23-0000</b>	Religious Workers, All Other  Legal Occupations	2,618 <b>35,399</b>	2,655 <b>35,487</b>	37 <b>88</b>	1.4% <b>0.2%</b>	18 <b>44</b>	172 <b>874</b>	178 <b>1,234</b>	368 <b>2,152</b>	\$13.35 <b>\$32.23</b>
23-1011	Lawyers	19,790	19,799	9	0.0%	4	393	428	825	\$47.37
23-1012	Judicial Law Clerks	346	346	0	0.0%	0	5	12	17	\$25.16
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	462	462	0	0.0%	0	9	10	19	\$45.42
23-1022	Arbitrators, Mediators, and Conciliators	146	146	0 -11	0.0%	0	3 48	3 52	6	\$28.02 \$37.05
23-1023 23-2011	Judges, Magistrate Judges, and Magistrates Paralegals and Legal Assistants	2,407 7,959	2,396 8,070	-11 111	-0.5% 1.4%	-6 56	264	52 533	94 853	\$37.05 \$21.79
20-2011	, aranogalo ana Logar Modiotanto	1,333	0,070		1.4/0	50	204	JJJ	ບບວ	Ψ41./3

		Employ	ment	Chang	e in		Annual (	Openings		Median
soc		2018	2020	Employ		Change	Exits	Transfers		Hourly Wage
Code	Occupational Title**	Employment	Forecast	2018-2020	Percent	[1]	[2]	[3]	Total	May 2018
23-2091	Court Reporters Title Examiners, Abstractors, and Searchers	461 2,720	460 2,690	-1 -30	-0.2% -1.1%	-15	16 96	21 124	37 205	\$24.23 \$22.34
23-2099	Legal Support Workers, All Other	1,108	1,118	10	0.9%	-15	40	51	96	\$24.75
25-0000	Education, Training, and Library Occupations	332,510	334,586	2,076	0.6%	1,038	13,578	13,546	28,162	\$25.13
25-1011	Business Teachers, Postsecondary	5,013	5,098	85	1.7%	42	185	193	420	\$87,390 **
25-1021 25-1022	Computer Science Teachers, Postsecondary  Mathematical Science Teachers, Postsecondary	1,420 2,172	1,417 2,169	-3 -3	-0.2% -0.1%	-2 -2	52 80	54 83	104 161	\$93,140 ** \$74,840 **
25-1022	Architecture Teachers, Postsecondary	508	509	1	0.2%	0	18	20	38	\$75,450 <sup>++</sup>
25-1032	Engineering Teachers, Postsecondary	1,390	1,404	14	1.0%	7	51	54	112	\$99,590 **
25-1042	Biological Science Teachers, Postsecondary	1,884	1,901	17	0.9%	8	70	72	150	\$83,770 **
25-1051 25-1052	Atmospheric, Earth, Marine, and Space Sci. Teachers, Postsecondary  Chemistry Teachers, Postsecondary	314 847	315 849	1 2	0.3%	1	12 31	12 32	24 64	\$87,920 ** \$81,120 **
25-1053	Environmental Science Teachers, Postsecondary	170	171	1	0.6%	0	6	6	12	\$100,000 **
25-1054	Physics Teachers, Postsecondary	593	594	1	0.2%	0	22	22	44	\$97,720 **
25-1061	Anthropology and Archeology Teachers, Postsecondary	241	242	1	0.4%	0	9	9	18	\$85,590 **
25-1062 25-1063	Area, Ethnic, and Cultural Studies Teachers, Postsecondary  Economics Teachers, Postsecondary	491 455	491 456	0	0.0%	0	18 16	18 18	36 34	\$70,140 ** \$99,920 **
25-1064	Geography Teachers, Postsecondary	231	231	0	0.0%	0	8	9	17	\$88,960 **
25-1065	Political Science Teachers, Postsecondary	579	581	2	0.3%	1	21	22	44	\$82,000 **
25-1066	Psychology Teachers, Postsecondary	1,327	1,342	15	1.1%	8	49	51	108	\$73,420 **
25-1067 25-1069	Sociology Teachers, Postsecondary Social Sciences Teachers, Postsecondary, All Other	662 399	662 397	-2	-0.5%	-1	24 14	25 15	49 28	\$80,210 ** \$70,500 **
25-1071	Health Specialties Teachers, Postsecondary	9,603	9,902	299	3.1%	150	357	372	879	\$106,750 **
25-1072	Nursing Instructors and Teachers, Postsecondary	3,618	3,721	103	2.8%	52	134	140	326	\$69,530 **
25-1081	Education Teachers, Postsecondary	3,440	3,453	13	0.4%	6	126	132	264	\$60,260 **
25-1082 25-1111	Library Science Teachers, Postsecondary  Criminal Justice and Law Enforcement Teachers, Postsecondary	368 548	369 551	1 3	0.3%	0	14 20	14 21	28 43	\$67,300 <sup>++</sup> \$60,450 <sup>++</sup>
25-1112	Law Teachers, Postsecondary	740	744	4	0.5%	2	27	28	57	\$111,140 <sup>+</sup>
25-1113	Social Work Teachers, Postsecondary	621	622	1	0.2%	0	23	24	47	\$69,670 **
25-1121	Art, Drama, and Music Teachers, Postsecondary	4,871	4,889	18	0.4%	9	178	186	373	\$69,290 **
25-1122 25-1123	Communications Teachers, Postsecondary  English Language and Literature Teachers, Postsecondary	1,463 3,129	1,466 3,127	-2	0.2% -0.1%	-1	54 114	56 120	112 233	\$61,160 ** \$64,110 **
25-1124	Foreign Language and Literature Teachers, Postsecondary	1,374	1,380	6	0.4%	3	50	52	105	\$62,580 **
25-1125	History Teachers, Postsecondary	908	910	2	0.2%	1	34	34	69	\$75,590 **
25-1126	Philosophy and Religion Teachers, Postsecondary	940	948	8	0.9%	4	34	36	74	\$66,040 **
25-1191 25-1194	Graduate Teaching Assistants Vocational Education Teachers, Postsecondary	1,772 4,466	1,790 4,396	18 -70	1.0%	-35	65 162	68 169	142 296	\$44,030 <sup>++</sup> \$28.59
25-2011	Preschool Teachers, Except Special Education	13,070	13,253	183	1.4%	92	567	703	1,362	\$12.63
25-2012	Kindergarten Teachers, Except Special Education	6,132	6,117	-15	-0.2%	-8	264	327	583	\$58,500 **
25-2021	Elementary School Teachers, Except Special Education	46,862	46,723	-139	-0.3%	-70	1,544	1,732	3,206	\$61,950 **
25-2022 25-2023	Middle School Teachers, Ex. Special and Career/Tech. Education  Career/Technical Education Teachers, Middle School	31,067 285	30,979 284	-88 -1	-0.3% -0.4%	-44 0	1,024 10	1,148 10	2,128 20	\$62,770 ** \$67,460 **
25-2031	Secondary School Teachers, Ex. Special and Career/Tech. Education	52,514	52,443	-71	-0.1%	-36	1,608	1,958	3,530	\$61,740 <sup>++</sup>
25-2032	Career/Technical Education Teachers, Secondary School	5,934	5,906	-28	-0.5%	-14	182	221	389	\$65,590 <sup>++</sup>
25-2051	Special Education Teachers, Preschool	972	1,006	34	3.5%	17	33	36	86	\$63,950 **
25-2052 25-2053	Special Education Teachers, Kindergarten and Elementary School Special Education Teachers, Middle School	7,954 4,607	7,965 4,612	11 5	0.1%	6	264 153	290 168	560 323	\$55,080 ** \$58,480 **
25-2054	Special Education Teachers, Secondary School	6,882	6,945	63	0.9%	32	230	252	514	\$58,990 **
25-2059	Special Education Teachers, All Other	706	724	18	2.5%	9	24	26	59	\$37,450 <sup>++</sup>
25-3011	Adult Basic and Secondary Education and Literacy Teachers and Instructors	2,300	2,246	-54	-2.3%	-27	138	106	217	\$22.58
25-3021 25-3097	Self-Enrichment Education Teachers Teachers and Instructors, All Other Except Substitute Teachers	10,530 6,207	10,542 6,329	12 122	0.1% 2.0%	6 61	642 382	493 294	1,141 737	\$16.74 \$39,120 **
25-3098	Substitute Teachers	19,684	20,394	710	3.6%	355	1,222	938	2,515	\$13.55
25-4011	Archivists	116	118	2	1.7%	1	5	7	13	\$21.47
25-4012	Curators	463	474	11	2.4%	6	20	27	53	\$24.03
25-4013 25-4021	Museum Technicians and Conservators  Librarians	340 3,838	351 3,844	11 6	3.2% 0.2%	6	14 210	20 144	40 357	\$18.30 \$25.53
25-4021	Library Technicians	3,963	3,976	13	0.2%	6	312	203	521	\$14.67
25-9031	Instructional Coordinators	3,080	3,137	57	1.9%	28	148	128	304	\$30.80
25-9041	Teacher Assistants	36,253	36,702	449	1.2%	224	2,002	1,664	3,890	\$25,950 **
25-9099 <b>27-0000</b>	Education, Training, and Library Workers, All Other  Arts, Design, Entertainment, Sports, and Media Occupations	4,129 <b>86,189</b>	4,379 <b>86,510</b>	250 <b>321</b>	6.1% <b>0.4%</b>	125 <b>160</b>	202 <b>3,634</b>	174 <b>4,606</b>	501 <b>8,400</b>	\$21.38 <b>\$20.05</b>
27-1011	Art Directors	2,792	2,790	-2	-0.1%	-1	136	82	217	\$38.13
27-1012	Craft Artists	473	475	2	0.4%	1	23	14	38	\$14.11
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	1,862	1,917	55	3.0%	28	92	55	175	\$17.96
27-1014 27-1021	Multimedia Artists and Animators  Commercial and Industrial Designers	927 1,473	911 1,490	-16 17	-1.7% 1.2%	-8 8	45 52	27 84	64 144	\$25.71 \$28.48
27-1021	Floral Designers	2,017	1,929	-88	-4.4%	-44	70	111	137	\$11.89
27-1024	Graphic Designers	8,616	8,611	-5	-0.1%	-2	304	484	786	\$22.47
27-1025	Interior Designers	2,299	2,359	60	2.6%	30	82	131	243	\$24.54
27-1026 27-1027	Merchandise Displayers and Window Trimmers Set and Exhibit Designers	5,533 472	5,503 486	-30 14	-0.5% 3.0%	-15 7	195 17	310 27	490 51	\$14.45 \$23.35
27-1027	Designers, All Other	198	199	14	0.5%	0	7	11	18	\$23.35 \$24.09
27-2011	Actors	943	987	44	4.7%	22	46	48	116	\$9.66
27-2012	Producers and Directors	2,031	2,019	-12	-0.6%	-6	51	125	170	\$25.57
27-2022	Coaches and Scouts	10,646	10,832	186	1.7%	93	599	810	1,502	\$26,360 <sup>++</sup>
27-2023 27-2031	Umpires, Referees, and Other Sports Officials  Dancers	337 409	351 415	14 6	4.2% 1.5%	7	19 26	26 29	52 58	\$21,780 ** \$14.31
27-2041	Music Directors and Composers	3,314	3,306	-8	-0.2%	-4	190	122	308	\$20.33
27-2042	Musicians and Singers	6,528	6,550	22	0.3%	11	376	242	629	\$23.31
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	452	469	17	3.8%	8	22	27	57	\$17.59
27-3011 27-3022	Radio and Television Announcers Reporters and Correspondents	1,290 1,680	1,210 1,518	-80 -162	-6.2% -9.6%	-40 -81	54 50	65 106	79 75	\$15.80 \$16.55
27-3031	Public Relations Specialists	7,149	7,272	123	1.7%	62	202	488	752	\$28.31
27-3041	Editors	2,649	2,477	-172	-6.5%	-86	85	162	161	\$25.22
27-3042	Technical Writers	1,755	1,757	2	0.1%	1	56	106	163	\$29.75

		Employ	ment	Chang	e in	I	Annual (	Openings		Median
SOC	Occupational Title**	2018	2020 Forecast	Employ: 2018-2020		Change	Exits	Transfers	Total	Hourly Wage
27-3043	Writers and Authors	Employment 4,015	3,977	-38	-0.9%	[ <b>1</b> ] -19	<b>[2]</b> 170	<b>[3]</b> 170	321	May 2018 \$21.75
27-3091	Interpreters and Translators	2,278	2,365	87	3.8%	44	105	101	250	\$25.29
27-3099 27-4011	Media and Communication Workers, All Other  Audio and Video Equipment Technicians	2,331 1,301	2,404 1,323	73 22	3.1% 1.7%	36 11	107 37	102 81	245 129	\$21.56 \$17.91
27-4012	Broadcast Technicians	889	858	-31	-3.5%	-16	24	54	62	\$14.27
27-4014	Sound Engineering Technicians	333	332	-1	-0.3%	0 102	10 280	20 230	30 612	\$21.74 \$14.39
27-4021 27-4031	Photographers  Camera Operators, Television, Video, and Motion Picture	6,452 542	6,657 537	205 -5	3.2% -0.9%	-2	16	34	48	\$26.86
27-4032	Film and Video Editors	440	444	4	0.9%	2	13	28	43	\$24.81
27-4099 <b>29-0000</b>	Media and Communication Equipment Workers, All Other  Healthcare Practitioners and Technical Occupations	316	317	1 0.100	0.3%	0	9 <b>10,034</b>	20	29	\$25.27 <b>\$29.34</b>
29-1011	Chiropractors	<b>371,952</b> 1,744	<b>380,140</b>	<b>8,188</b>	<b>2.2%</b> 1.9%	<b>4,094</b>	29	<b>9,660</b>	<b>23,788</b> 59	\$37.09
29-1021	Dentists, General	3,991	4,050	59	1.5%	30	74	30	134	\$90.57
29-1022 29-1023	Oral and Maxillofacial Surgeons Orthodontists	275 323	279 328	4 5	1.5% 1.5%	2	5 6	2	9 10	<u> </u>
29-1023	Dentists, All Other Specialists	377	384	7	1.5%	4	7	3	14	<b>▲</b> \$57.54
29-1031	Dietitians and Nutritionists	2,507	2,562	55	2.2%	28	80	72	180	\$27.48
29-1041 29-1051	Optometrists Pharmacists	1,276 12,747	1,310 12,605	34 -142	2.7% -1.1%	17 -71	22 292	17 244	56 465	\$54.03 \$58.54
29-1051	Anesthesiologists	1,355	1,392	37	2.7%	18	292	15	53	\$56.54
29-1062	Family and General Practitioners	4,601	4,729	128	2.8%	64	68	52	184	\$90.63
29-1063	Internists, General Obstetricians and Gynecologists	3,113 1,216	3,177	64 31	2.1%	32 16	46 18	34 14	112 48	\$194,500 <sup>+</sup>
29-1064 29-1065	Pediatricians, General	1,503	1,247 1,541	38	2.5% 2.5%	19	22	17	48 58	<b>▲</b> \$73.27
29-1066	Psychiatrists	1,483	1,512	29	2.0%	14	22	16	52	\$92.04
29-1067 29-1069	Surgeons Physicians and Surgeons, All Other	2,550 15,860	2,614 16,258	64 398	2.5% 2.5%	32 199	38 236	28 177	98 612	<u> </u>
29-1069	Physician Assistants	3,261	3,497	236	7.2%	118	236 58	177	296	\$50.94
29-1081	Podiatrists	748	762	14	1.9%	7	17	20	44	\$66.79
29-1122 29-1123	Occupational Therapists Physical Therapists	4,984 8,248	5,196 8,581	212 333	4.3%	106 166	105 162	141 175	352 503	\$40.54 \$41.81
29-1123	Radiation Therapists	617	629	12	1.9%	6	162	175	35	\$37.03
29-1125	Recreational Therapists	345	343	-2	-0.6%	-1	10	9	18	\$21.48
29-1126	Respiratory Therapists	6,310	6,609	299	4.7%	150	152	146	448	\$27.13
29-1127 29-1128	Speech-Language Pathologists  Exercise Physiologists	5,474 492	5,685 504	211 12	3.9% 2.4%	106 6	101 12	174 14	381 32	\$35.76 \$23.56
29-1129	Therapists, All Other	1,319	1,343	24	1.8%	12	32	38	82	\$32.75
29-1131	Veterinarians	3,442	3,669	227	6.6%	114	66	58	238	\$45.82
29-1141 29-1151	Registered Nurses  Nurse Anesthetists	128,875 2,652	132,121 2,742	3,246 90	2.5% 3.4%	1,623 45	3,736 37	2,837 89	8,196 171	\$30.87 \$76.39
29-1161	Nurse Midwives	250	258	8	3.2%	43	5	8	17	\$49.62
29-1171	Nurse Practitioners	6,867	7,323	456	6.6%	228	138	203	569	\$48.56
29-1181 29-1199	Audiologists  Health Diagnosing and Treating Practitioners, All Other	651 1,604	672 1,639	21 35	3.2% 2.2%	10 18	16 64	13 16	39 98	\$34.07 \$38.73
29-2011	Medical and Clinical Laboratory Technologists	6,872	6,994	122	1.8%	61	210	210	481	\$36.73 <b>A</b>
29-2012	Medical and Clinical Laboratory Technicians	6,373	6,496	123	1.9%	62	195	194	451	<b>A</b>
29-2021 29-2031	Dental Hygienists  Cardiovaccular Technologists and Technologists	7,897 2,316	8,019 2,374	122 58	1.5% 2.5%	61 29	288 60	178 58	527 147	\$33.24 \$26.15
29-2031	Cardiovascular Technologists and Technicians Diagnostic Medical Sonographers	2,186	2,374	92	4.2%	46	58	56	160	\$30.97
29-2033	Nuclear Medicine Technologists	918	934	16	1.7%	8	24	23	55	\$34.62
29-2034	Radiologic Technologists	8,860	9,062	202	2.3%	101	232	224	557	\$27.15
29-2035 29-2041	Magnetic Resonance Imaging Technologists  Emergency Medical Technicians and Paramedics	1,432 10,833	1,463 10,986	31 153	2.2% 1.4%	16 76	38 190	36 448	90 714	\$31.52 \$14.52
29-2051	Dietetic Technicians	662	668	6	0.9%	3	22	30	55	\$12.69
29-2052	Pharmacy Technicians	16,442	16,365	-77	-0.5%	-38	532	727	1,221	\$14.09
29-2053 29-2055	Psychiatric Technicians Surgical Technologists	1,126 4,073	1,125 4,163	-1 90	-0.1% 2.2%	0 45	36 134	50 182	86 361	\$15.80 \$22.07
29-2056	Veterinary Technologists and Technicians	3,486	3,723	237	6.8%	118	117	160	395	\$15.41
29-2057	Ophthalmic Medical Technicians	1,751	1,814	63	3.6%	32	58	79	169	\$17.51
29-2061 29-2071	Licensed Practical and Licensed Vocational Nurses  Medical Records and Health Information Technicians	40,134 9,621	40,382 9,759	248 138	0.6% 1.4%	124 69	1,420 284	1,398 288	2,942 641	\$20.81 \$19.14
29-2081	Opticians, Dispensing	3,075	3,093	18	0.6%	9	102	114	225	\$19.16
29-2092	Hearing Aid Specialists	410	404	-6 151	-1.5%	-3	12	14	23	\$26.20
29-2099 29-9011	Health Technologists and Technicians, All Other  Occupational Health and Safety Specialists	4,562 4,064	4,713 4,115	151 51	3.3% 1.3%	76 26	128 91	153 112	357 229	\$18.92 \$35.06
29-9012	Occupational Health and Safety Technicians	853	862	9	1.1%	4	19	24	47	\$24.74
29-9091	Athletic Trainers	1,307	1,358	51	3.9%	26	30	36	92	\$46,630 **
29-9092 29-9099	Genetic Counselors  Healthcare Practitioners and Technical Workers, All Other	111 736	116 755	5 19	4.5% 2.6%	10	2 16	3 20	7 46	\$36.74 \$30.42
<i>31-0000</i>	Healthcare Support Occupations	205,853	212,183	<i>6,330</i>	3.1%	3,165	11,957	11,337	26,459	\$12.80
31-1011	Home Health Aides	69,209	73,154	3,945	5.7%	1,972	4,324	3,598	9,894	\$10.67
31-1013 31-1014	Psychiatric Aides Nursing Assistants	1,174 67,324	1,146 67,180	-28 -144	-2.4% -0.2%	-14 -72	70 4,086	58 3,399	7,413	\$16.88 \$13.00
31-1014	Orderlies	2,255	2,292	37	1.6%	18	138	115	271	\$13.00
31-2011	Occupational Therapy Assistants	3,537	3,705	168	4.7%	84	182	260	526	\$28.40
31-2021 31-2022	Physical Therapist Assistants Physical Therapist Aides	6,367 914	6,668 953	301 39	4.7% 4.3%	150 20	286 41	480 69	916 130	\$27.98 \$12.90
31-2022	Massage Therapists	3,181	3,344	163	5.1%	82	214	117	413	\$12.90
31-9091	Dental Assistants	10,567	10,734	167	1.6%	84	544	610	1,238	\$17.77
31-9092	Medical Equipment Preparers	23,723	24,940	1,217 48	5.1%	608	1,068	1,494	3,170	\$15.23 \$16.36
31-9093 31-9094	Medical Equipment Preparers  Medical Transcriptionists	2,237 2,219	2,285 2,189	-30	2.1% -1.4%	-15	142 146	134 111	300 242	\$16.36 \$17.93
31-9095	Pharmacy Aides	830	811	-19	-2.3%	-10	54	56	100	\$12.18
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	2,823	3,007	184	6.5%	92	168	272	532	\$12.08
31-9097 31-9099	Phlebotomists  Healthcare Support Workers, All Other	5,474 3,945	5,652 4,047	178 102	3.3% 2.6%	89 51	240 250	321 238	650 539	\$16.29 \$18.22
J. 5555		0,040	7,047	102	2.0/0	31	200	230	333	Ψ10.22

		I Employe		Chana	- In		Ammuni	)maninas		Median
soc		Employs 2018	2020	Chang Employ		Change	Exits	Openings Transfers		Hourly Wage
Code	Occupational Title**	Employment	Forecast	2018-2020	Percent	[1]	[2]	[3]	Total	May 2018
33-0000	Protective Service Occupations	115,978	116,477	499	0.4%	250	5,742	6,462	12,454	\$19.47
33-1011	FL Supervisors of Correctional Officers	589	578	-11	-1.9%	-6	18	20	32	\$32.03
33-1012	FL Supervisors of Police and Detectives	2,491	2,500	9	0.4%	4	70	77	151	\$38.75
33-1021 33-1099	FL Supervisors of Fire Fighting and Prevention Workers FL Supervisors of Protective Service Workers, All Other	2,362 2,581	2,374 2,604	12 23	0.5%	6 12	80 118	72 130	158 260	\$34.15 \$17.09
33-1033	Firefighters	18,367	18,462	95	0.5%	48	412	780	1,240	\$22.07
33-3011	Bailiffs	1,423	1,407	-16	-1.1%	-8	50	64	106	\$21.97
33-3012	Correctional Officers and Jailers	13,117	12,745	-372	-2.8%	-186	456	581	851	\$22.49
33-3021	Detectives and Criminal Investigators	2,082	2,085	3	0.1%	2	56	73	131	\$32.68
33-3031	Fish and Game Wardens	147	145	-2	-1.4%	-1	8	5	12	\$31.16
33-3041 33-3051	Parking Enforcement Workers Police and Sheriff's Patrol Officers	160 24,180	147 24,253	-13 73	-8.1% 0.3%	-6 36	8 585	6 944	1,565	\$16.71 \$29.32
33-3051	Transit and Railroad Police	24,180	24,253	1	0.3%	0	6	10	1,505	\$74,030 <sup>+</sup>
33-9011	Animal Control Workers	335	339	4	1.2%	2	16	20	38	\$17.16
33-9021	Private Detectives and Investigators	1,263	1,270	7	0.6%	4	64	55	123	\$18.31
33-9031	Gaming Surveillance Officers and Gaming Investigators	512	522	10	2.0%	5	30	36	71	\$26.97
33-9032	Security Guards	32,289	32,657	368	1.1%	184	1,926	2,290	4,400	\$12.60
33-9091	Crossing Guards	1,590	1,600	10	0.6%	5	223	62	290	\$11.91
33-9092 33-9093	Lifeguards, Ski Patrol, and Other Recreational Protective Service Transportation Security Screeners	6,474 756	6,722 772	248 16	3.8% 2.1%	124 8	914 38	696 29	1,734 75	\$9.42 \$18.94
33-9099	Protective Service Workers, All Other	4,646	4,680	34	0.7%	17	646	492	1,155	\$14.07
35-0000	Food Preparation and Serving Related Occupations	501,982	515,861	13,879	2.8%	6,940	38,754	48,184	93,878	\$9.64
35-1011	Chefs and Head Cooks	4,408	4,551	143	3.2%	72	144	408	624	\$19.36
35-1012	FL Supervisors of Food Preparation and Serving Workers	34,952	35,907	955	2.7%	478	1,587	3,380	5,445	\$14.43
35-2011	Cooks, Fast Food	15,841	15,862	21	0.1%	10	928	1,268	2,206	\$9.84
35-2012	Cooks, Institution and Cafeteria	17,890	17,866	-24	-0.1%	-12	1,048	1,430	2,466	\$12.64
35-2014	Cooks, Restaurant	37,047	38,432	1,385 10	3.7% 0.1%	692 5	2,211 714	3,019 975	5,922 1,694	\$11.89 \$10.11
35-2015 35-2021	Cooks, Short Order Food Preparation Workers	12,185 25,256	12,195 25,740	484	1.9%	242	2,038	2,210	4,490	\$10.11
35-3011	Bartenders	22,484	22,880	396	1.8%	198	1,092	2,602	3,892	\$9.27
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	161,992	168,423	6,431	4.0%	3,216	14,629	15,300	33,145	\$9.31
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	16,687	16,900	213	1.3%	106	2,018	1,586	3,710	\$9.72
35-3031	Waiters and Waitresses	96,478	99,196	2,718	2.8%	1,359	7,242	11,096	19,697	\$9.37
35-3041	Food Servers, Nonrestaurant	14,301	14,421	120	0.8%	60	1,082	1,010	2,152	\$9.97
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	11,190	11,500	310	2.8%	155	1,010	899	2,064	\$9.40
35-9021	Dishwashers Petropolitic Control Contr	13,640	13,913	273	2.0%	136	1,020	1,098	2,254	\$9.65
35-9031 35-9099	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop Food Preparation and Serving Related Workers, All Other	15,961 1,016	16,375 1,057	414 41	2.6% 4.0%	207 20	1,862 92	1,770 82	3,839 194	\$9.37 \$10.49
<i>37-0000</i>	Building and Grounds Cleaning and Maintenance Occupations	1,016 185,656	1,057 188,338	2,682	1.4%	1,341	11,390	11,876	24,607	\$10.49 \$12.20
37-1011	FL Supervisors of Housekeeping and Janitorial Workers	6,691	6,795	104	1.6%	52	340	408	800	\$19.58
37-1012	FL Supervisors of Lndscp, Lawn Service, and Groundskeeping Workers	5,849	5,974	125	2.1%	62	192	357	611	\$21.50
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	87,698	88,680	982	1.1%	491	5,741	5,548	11,780	\$12.03
37-2012	Maids and Housekeeping Cleaners	39,804	40,370	566	1.4%	283	2,968	2,241	5,492	\$10.47
37-2019	Building Cleaning Workers, All Other	474	478	4	0.8%	2	31	30	63	\$15.89
37-2021 37-3011	Pest Control Workers	1,473	1,476	872	0.2% 2.1%	436	57 1,944	140 2,974	199 5,354	\$16.91 \$13.22
37-3011	Landscaping and Groundskeeping Workers  Pesticide Handlers, Sprayers, and Applicators, Vegetation	41,199 984	42,071 997	13	1.3%	436	1,944	2,974 71	123	\$13.22 \$15.39
37-3012	Tree Trimmers and Pruners	1,321	1,332	11	0.8%	6	62	95	163	\$18.58
37-3019	Grounds Maintenance Workers, All Other	163	165	2	1.2%	1	8	12	21	\$15.85
39-0000	Personal Care and Service Occupations	171,494	176,162	4,668	2.7%	2,334	13,003	12,142	27,479	\$10.90
39-1011	Gaming Supervisors	273	284	11	4.0%	6	14	30	50	<b>A</b>
39-1012	Slot Supervisors	106	110	4	3.8%	2	5	12	19	<u> </u>
39-1021	FL Supervisors of Personal Service Workers	7,980 696	8,222 709	242 13	3.0% 1.9%	121	388 34	364 44	873 84	\$16.93 \$11.40
39-2011 39-2021	Animal Trainers  Nonfarm Animal Caretakers	8,178	8,621	443	5.4%	6 222	574	677	1,473	\$10.19
39-3012	Gaming and Sports Book Writers and Runners	165	172	7	4.2%	4	10	15	29	\$11.56
39-3031	Ushers, Lobby Attendants, and Ticket Takers	2,377	2,412	35	1.5%	18	314	267	599	\$9.30
39-3091	Amusement and Recreation Attendants	9,255	9,909	654	7.1%	327	1,012	1,139	2,478	\$9.34
39-3092	Costume Attendants	115	118	3	2.6%	2	12	14	28	\$16.95
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	511	548	37	7.2%	18	56	63	137	\$9.75
39-4021 39-5012	Funeral Attendants Hairdressers, Hairstylists, and Cosmetologists	2,265 29,209	2,257	-8 -12	-0.4% 0.0%	-4 -6	200 1,948	139 1,458	335 3,400	\$12.65 \$10.73
39-5012	Manicurists and Pedicurists	29,209	29,197 2,473	-12	0.0%	-b 2	1,948	1,458	276	\$10.73
39-5093	Shampooers	191	191	0	0.1%	0	12	10	22	\$9.41
39-5094	Skincare Specialists	1,937	1,946	9	0.5%	4	117	98	219	\$14.61
39-6011	Baggage Porters and Bellhops	492	516	24	4.9%	12	24	44	80	\$9.50
39-6012	Concierges	299	314	15	5.0%	8	14	27	49	\$11.64
39-9011	Childcare Workers	40,831	40,981	150	0.4%	75	3,339	2,534	5,948	\$10.01
39-9021	Personal Care Aides	32,806	35,119	2,313	7.1%	1,156	2,710	2,042	5,908	\$10.94
39-9031 39-9032	Fitness Trainers and Aerobics Instructors  Recreation Workers	8,321 14,203	8,722 14,323	401 120	4.8% 0.8%	200 60	558 934	852 1,426	1,610 2,420	\$12.77 \$11.14
39-9032	Residential Advisors	3,189	3,351	162	5.1%	81	217	324	622	\$13.04
39-9099	Personal Care and Service Workers, All Other	1,542	1,549	7	0.5%	4	104	120	228	\$9.92
41-0000	Sales and Related Occupations	535,957	536,979	1,022	0.2%	511	30,852	40,904	72,267	\$12.99
41-1011	FL Supervisors of Retail Sales Workers	51,964	51,687	-277	-0.5%	-138	1,913	3,488	5,263	\$18.34
41-1012	FL Supervisors of Non-Retail Sales Workers	12,783	13,000	217	1.7%	108	430	718	1,256	\$33.50
41-2011	Cashiers	113,705	112,319	-1,386	-1.2%	-693	10,610	10,356	20,273	\$9.71
41-2012	Gaming Change Persons and Booth Cashiers	365	376	11 108	3.0%	6 54	35 698	34 975	75 1 727	\$11.51 \$11.81
41-2021 41-2022	Counter and Rental Clerks Parts Salespersons	13,231 10,530	13,339 10,705	108	0.8% 1.7%	54 88	698 462	975 840	1,727 1,390	\$11.81 \$13.54
41-2022	Retail Salespersons	153,182	152,105	-1,077	-0.7%	-538	9,664	12,114	21,240	\$13.54
41-3011	Advertising Sales Agents	3,879	3,700	-179	-4.6%	-90	142	328	380	\$21.37
41-3021	Insurance Sales Agents	21,315	21,828	513	2.4%	256	876	1,160	2,292	\$22.94
41-3031	Securities, Commodities, and Financial Services Sales Agents	11,026	11,279	253	2.3%	126	292	735	1,153	\$27.71
44 0044	Travel Agents	1,892	1,876	-16	-0.8%	-8	101	114	207	\$16.00
41-3041 41-3099	Sales Representatives, Services, All Other	33,413	34,114	701	2.1%	350	1,068	2,914	4,332	\$24.40

41-4011 Sales 41-4012 Sales 41-9011 Demo 41-9021 Real B	ntional Title**	Employi 2018	2020	Chang Employ		Change	Exits	Openings		Median
41-4011 Sales 41-4012 Sales 41-9011 Demo 41-9021 Real B								Transfers		Hourly Wage
41-4012 Sales 41-9011 Demo 41-9021 Real I	s Reps, Wholesale and Manufacturing, Tech and Scientific Products	Employment 17,947	Forecast 18,270	<b>2018-2020</b> 323	Percent 1.8%	[ <b>1</b> ]	<b>[2]</b> 598	[ <b>3</b> ]	<b>Total</b> 1,973	May 2018 \$36.27
41-9021 Real B	s Reps, Wholesale and Manufacturing, Tech and Scientific Products s Reps, Wholesale and Manufacturing, Ex. Tech and Scientific Products	48,171	48,927	756	1.6%	378	1,602	3,252	5,232	\$27.60
	onstrators and Product Promoters	1,204	1,219	15	1.2%	8	122	82	212	\$11.81
41-9022 Real F	Estate Brokers Estate Sales Agents	1,619 15,326	1,714 15,957	95 631	5.9% 4.1%	48 316	86 801	65 610	199 1,727	\$27.10 \$16.92
	s Engineers	3,666	3,730	64	1.7%	32	87	284	403	\$41.71
	marketers	13,246	13,216	-30	-0.2%	-15	789	1,248	2,022	\$11.38
	r-to-Door Sales Workers, News and Street Vendors, and Related Workers s and Related Workers, All Other	5,064 2,367	5,176 2,381	112 14	2.2% 0.6%	56 7	345 126	191 181	592 314	\$12.38 \$13.98
	and Administrative Support Occupations	844,793	847,266	2,473	0.3%	1,236	43,048	50,428	94,712	\$16.73
	upervisors of Office and Administrative Support Workers	46,478	46,785	307	0.7%	154	1,810	2,692	4,656	\$25.93
	chboard Operators, Including Answering Service phone Operators	2,662 341	2,558 328	-104 -13	-3.9% -3.8%	-52 -6	164 20	174 25	286 39	\$13.32 \$16.66
	and Account Collectors	13,919	13,817	-102	-0.7%	-51	521	910	1,380	\$16.51
	ng and Posting Clerks	22,167	22,647	480	2.2%	240	958	1,234	2,432	\$17.62
	kkeeping, Accounting, and Auditing Clerks ning Cage Workers	66,646 362	66,596 372	-50 10	-0.1% 2.8%	-25 5	4,125 22	3,201 34	7,301 61	\$18.50 \$13.11
	oll and Timekeeping Clerks	6,391	6,376	-15	-0.2%	-8	270	359	621	\$21.05
	urement Clerks	3,953	3,950	-3	-0.1%	-2	166	256	420	\$19.87
43-3071 Teller 43-3099 Finan	ers ncial Clerks, All Other	19,988 2,505	20,079 2,561	91 56	0.5% 2.2%	46 28	1,026 96	1,287 166	2,359 290	\$13.63 \$18.64
	erage Clerks	2,980	3,044	64	2.1%	32	76	229	337	\$22.39
43-4021 Corre	espondence Clerks	478	475	-3	-0.6%	-2	22	31	51	\$15.86
	rt, Municipal, and License Clerks lit Authorizers, Checkers, and Clerks	7,733 1,424	7,772 1,418	39 -6	0.5% -0.4%	20 -3	347 49	304 92	671 138	\$17.43 \$18.36
	omer Service Representatives	91,456	92,176	720	0.8%	360	4,694	6,888	11,942	\$16.18
43-4061 Eligib	bility Interviewers, Government Programs	4,270	4,301	31	0.7%	16	170	202	388	\$20.52
	Clerks sl, Motel, and Resort Desk Clerks	4,522 6,009	4,401 6,362	-121 353	-2.7% 5.9%	-60 176	274 342	270 612	484 1,130	\$16.25 \$10.30
	viewers, Except Eligibility and Loan	8,905	9,050	145	1.6%	72	480	561	1,113	\$15.09
	ary Assistants, Clerical	6,072	6,091	19	0.3%	10	484	367	861	\$11.88
	n Interviewers and Clerks r Accounts Clerks	11,907	12,309	402	3.4%	201	436	700	1,337	\$18.07
	or Clerks	2,370 10,136	2,395 10,051	25 -85	1.1% -0.8%	-42	102 468	147 660	261 1,086	\$16.63 \$15.01
	nan Resources Assistants, Except Payroll and Timekeeping	4,632	4,609	-23	-0.5%	-12	195	310	493	\$18.62
	eptionists and Information Clerks	26,059	26,347	288	1.1%	144	1,630	1,739	3,513	\$12.80
	ervation and Transportation Ticket Agents and Travel Clerks rmation and Record Clerks, All Other	2,066 3,753	2,115 3,816	49 63	2.4% 1.7%	24 32	90 184	125 237	239 453	\$13.16 \$20.15
	o and Freight Agents	2,761	2,823	62	2.2%	31	87	139	257	\$19.43
43-5021 Couri	riers and Messengers	2,054	2,085	31	1.5%	16	95	90	201	\$13.18
	ce, Fire, and Ambulance Dispatchers atchers, Except Police, Fire, and Ambulance	4,172 7,535	4,189 7,626	17 91	0.4% 1.2%	8 46	148 268	225 408	381 722	\$21.40 \$19.71
	er Readers, Utilities	1,003	1,004	1	0.1%	0	32	408	722	\$21.48
43-5051 Posta	al Service Clerks	2,683	2,729	46	1.7%	23	137	74	234	\$22.84
	al Service Mail Carriers	12,802	13,021	219 27	1.7%	110 14	499	364	973	\$25.10
	al Service Mail Sorters, Processors, and Processing Machine Operators luction, Planning, and Expediting Clerks	3,818 14,268	3,845 14,469	201	0.7% 1.4%	100	162 499	110 932	286 1,531	\$28.25 \$22.48
	ping, Receiving, and Traffic Clerks	35,234	35,252	18	0.1%	9	1,376	2,098	3,483	\$15.68
	k Clerks and Order Fillers	82,404	82,423	19	0.0%	10	4,500	5,871	10,381	\$11.96
	ghers, Measurers, Checkers, and Samplers, Recordkeeping cutive Secretaries and Executive Administrative Assistants	2,612 22,214	2,645 21,394	-820	1.3% -3.7%	16 -410	104 1,174	150 1,142	270 1,906	\$16.26 \$26.99
	al Secretaries	7,266	6,852	-414	-5.7%	-207	380	370	543	\$21.58
	ical Secretaries	40,817	42,371	1,554	3.8%	777	2,240	2,180	5,197	\$16.30
	retaries and Administrative Assistants, Ex. Legal, Medical, and Executive aputer Operators	83,764 1,446	82,719 1,376	-1,045 -70	-1.2% -4.8%	-522 -35	4,484 56	4,362 86	8,324 107	\$17.09 \$19.51
	Entry Keyers	6,195	5,922	-273	-4.4%	-136	312	391	567	\$14.81
	d Processors and Typists	1,784	1,674	-110	-6.2%	-55	110	83	138	\$18.64
	rance Claims and Policy Processing Clerks Clerks and Mail Machine Operators, Except Postal Service	20,625 3,572	21,012 3,412	387 -160	1.9% -4.5%	194 -80	890 190	1,169 196	2,253 306	\$18.43 \$14.79
	ce Clerks, General	94,366	94,339	-160	0.0%	-80 -14	5,536	5,395	10,917	\$14.79 \$15.74
43-9071 Office	e Machine Operators, Except Computer	2,942	2,868	-74	-2.5%	-37	128	192	283	\$14.66
	istical Assistants be and Administrative Support Workers, All Other	652 5,636	658 5.746	6 110	0.9% 2.0%	3 55	30 248	50 362	83 665	\$21.11 \$18.71
	se and Administrative Support Workers, All Other ing, Fishing, and Forestry Occupations	5,636 <b>13,771</b>	5,746 <b>13,712</b>	-59	-0.4%	-30	504	362 1,522	1,996	\$18.71 <b>\$13.85</b>
45-1011 FL Su	upervisors of Farming, Fishing, and Forestry Workers	633	631	-2	-0.3%	-1	20	62	81	\$26.49
	cultural Inspectors ders and Sorters, Agricultural Products	389 549	390 551	1 2	0.3%	0	16	34	50 75	\$22.22
	ders and Sorters, Agricultural Products cultural Equipment Operators	1,067	1,073	6	0.4%	3	22 39	52 122	75 164	\$11.12 \$17.50
45-2092 Farm	nworkers and Laborers, Crop, Nursery, and Greenhouse	8,880	8,850	-30	-0.3%	-15	324	1,010	1,319	\$11.15
	nworkers, Farm, Ranch, and Aquacultural Animals	1,368	1,347	-21	-1.5%	-10	50	154	194	\$13.74
45-4021 Faller 45-4022 Loggi	ors ging Equipment Operators	132 337	129 329	-3 -8	-2.3% -2.4%	-2 -4	12	12 30	14 38	\$11.91 \$15.04
47-0000 Constr	truction and Extraction Occupations	204,041	214,128	10,087	4.9%	5,044	7,338	13,766	26,148	\$23.14
	ervisors of Construction and Extraction Workers	15,482	16,275	793	5.1%	396	508	1,002	1,906	\$31.10
	ermakers kmasons and Blockmasons	600 3,646	613 4,025	13 379	2.2% 10.4%	6 190	19 111	40 212	65 513	\$35.12 \$26.63
	enters	27,156	28,651	1,495	5.5%	748	960	1,551	3,259	\$20.03
	net Installers	839	872	33	3.9%	16	27	44	87	\$16.84
	r Layers, Except Carpet, Wood, and Hard Tiles and Marble Setters	318 886	341 952	23 66	7.2% 7.4%	12 33	10 29	17 48	39 110	\$19.94 \$20.51
	ent Masons and Concrete Finishers	4,134	4,538	404	9.8%	202	165	294	661	\$20.51
47-2061 Const	struction Laborers	41,975	44,616	2,641	6.3%	1,320	1,510	2,854	5,684	\$19.22
	ng, Surfacing, and Tamping Equipment Operators	1,015	1,086	71	7.0%	36	34 550	72	142	\$23.05
	rating Engineers and Other Construction Equipment Operators vall and Ceiling Tile Installers	14,040 1,519	14,778 1,604	738 85	5.3% 5.6%	369 42	48	1,010 87	1,929 177	\$25.51 \$20.02
47-2082 Taper		240	255	15	6.3%	8	8	14	30	\$30.17

Property			Empley		Chana	- In		Ammuni	)naninaa		Madian
Coop Conception Tree**	soc						Change				
1.000   1.000	Code	Occupational Title**								Total	
April   Company natural vision Leafly and professions   April   Company											
1.000   1.000											
April   Content   Conten											
1.   Processor   1.		and the state of t									
1991   1992											
17210   Telesters and Place Obligates   122   122   12   12   12   12   12		, ,									
Secretary for an excloser Venters   417   627   22   459   10   11   22   522   522   522   522   522   522   522   522   522   523   52	47-2152	Plumbers, Pipefitters, and Steamfitters	16,179	16,655	476	2.9%	238	596	1,098	1,932	\$26.60
17211   Tender											
20-201   Control of the Property of the Prop											
Street   Comment   Comme											
Disport Schrickmanner, Schormeners, Bernard Marche Setter   909   071   88   1025   20   23   27   17   1717   1											
1975											
1.00000   Poliumor Communitary Technology   1.0000   1.0000   1.00000   1.000000   1.000000000   1.0000000000	47-3012		809	854						137	
1.2001											
47-971   Construction and Business and Requires   1,249   249   149   175   27   141   102   239   237.89											
1.2400   Feeder Centrolium Resources   529   648   11   2.75   6   177   44   67   58.33											
19-201   Prince Frances   681   731   59   735   58   38   58   19   101   510-504											
1.											
Segret Fans Servicers and Stoner Phys Cleaners   1,518   588   458   34   77   713   729   25.44											
2-4091	47-4051	Highway Maintenance Workers	7,640	7,659	19	0.2%	10	324	438	772	\$19.80
Section   Sect											
Service Unit Queration, Oil Cose, and Mining   981   983   22   25%   11   22   81   114   852.77											
25001   Centro Officer, Except of and Case   481   515   244   495   12   13   40   64   82071											
25001   Continuous Minrag Machine Operators   143   416   31   4.715   10   15   44   49   \$45,000											
Seption   Sept											
1995   Proceedings											
		Rock Splitters, Quarry				4.5%					\$16.15
49-0111   Compare, Automated Teller, and Office Methods Registers   1,000   17,000   331   20%   160   548   872   1,580   350.38   450.201   1 2001   1 2001   20.201   20.											
Redio, Cellular, and Tower Equipment Installare and Repairers   683   681   2   0.3%   -1   22   47   68   352.97											
Page   Telecommunications Equipment Installers and Repairers, Except Line Installers   9,083   9,102   39   0,4%   20   302   642   964   324,61											
Avenues Testminians											
Section   Process   Section   Process   Proc											
Bestroil and Electronical and Electronics Repairers, Commercial and Industrial Equipment   \$2,302	49-2092	Electric Motor, Power Tool, and Related Repairers	814	836	22	2.7%	11	25	50	86	\$21.00
49-2096   Electrical and Electronics Repairers, Powerhouse, Substation, and Relay   978   594   16   2.8%   8   14   36   88   \$35.65	49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	235	239		1.7%	2	6	14	22	\$28.48
49-2096   Electronic Equipment Intaliers and Repairers, Motor Vehicles   223   256   -18   -8.1%   -9   7   14   12   \$17.23											
1,920798   Electronic Home Entertainment Equipment Installers and Repairers   1,387   1,383   26   1.9%   13   48   92   153   \$12.99   2098   \$50.000   \$2.95   44   67   2.25   5.45   48   68   169   316   \$21.51   48-3011   Alternative and Service Technicians   4,157   4,247   30   2.25   45   131   186   302   \$28.69   49-3021   Automotive Odiva and Repairers   6,644   6,514   70   1.1%   53   224   386   645   \$18.55   49-3022   Automotive Gold and Repairers   986   990   5   0.5%   2   37   57   96   517.50   49-3022   Automotive Gold and Repairers   986   990   5   0.5%   2   37   57   96   517.50   49-3023   Automotive Service Technicians and Mechanics   28,373   28,3851   218   0.8%   109   988   1,702   2,727   \$18.09   49-3023   Automotive Service Technicians and Mechanics   49-3023											
Security and Fire Alarm Systems Installers											
49-30121   Altroraft Mechanics and Service Technicians   4,157   4,247   9.0   2,2%   45   131   186   582   \$28.69   49-3022   Automotive Body and Felated Repairers   6,444   6,51   70   1.1%   55   224   386   645   818.55   49-3022   Automotive Body and Felated Repairers   986   990   5   0.5%   2   37   57   98   \$17.90   59.90   2.89   3.90   2.89   3.90   2.80   3.90   2.90   3.90   2.90   3.90											
49-3022   Automotive Glass Installars and Repairers   6,44   6,514   70   1,1%   35   224   386   645   \$18.55     49-3022   Automotive Glass Installars and Repairers   885   890   5   0,5%   2   37   77   98   \$17.90     49-3023   Automotive Glass Installars and Repairers   885   822.28   128   0,8%   109   888   1,720   2,727   \$18.09     49-3031   Bus and Truck Mechanics and Diese Engines Specialists   12,225   12,18   333   32,8   196   381   708   1,285   \$22.28     49-3041   Farm Equipment Mechanics and Service Technicians   1,489   1,514   25   1,7%   12   46   94   152   \$18.90     49-3042   Molibe Heavy Equipment Mechanics Accept Engines   3,555   3,681   136   3,8%   66   112   228   408   \$26.27     49-3042   Molibe Heavy Equipment Mechanics and Service Technicians   403   3,555   2,08%   10   10   17   26   53   \$17.82     49-3053   Rail Car Repairers   403   403   40   40   40   40   40											
49-3022   Automotive Glass Installers and Repairers   886   890   5   0.5%   2   37   75   89   \$17.90											
49-9303   Bus and Truck Mechanics and Disself Engine Specialists   12,225   12,618   338   3,2%   196   381   708   1,285   522.28   49-9304   Farm Equipment Mechanics and Service Technicians   1,489   3,555   3,691   136   3,8%   68   112   228   408   526.27   49-9304   Mobile Heavy Equipment Mechanics, Except Engines   3,555   3,691   136   3,8%   68   112   228   408   526.27   49-9305   Motorboar Mechanics and Service Technicians   403   423   20   5,0%   10   17   26   53   517.82   49-9305   Motorboar Mechanics and Service Technicians   721   774   734   33   4,6%   16   30   46   92   517.82   49-9305   Motorboar Mechanics and Service Technicians   721   774   774   33   4,6%   16   30   46   92   517.82   49-9305   Motorboar Mechanics   11,158   1,195   37   32%   18   48   73   199   514.65   149.9305   Motorboar Mechanics   11,158   1,195   37   32%   18   48   73   199   514.65   149.9305   Motorboar Mechanics   3,20   331   11   3,4%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   331   11   3,4%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   331   11   3,4%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   331   11   3,4%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   331   11   3,4%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   3,31   11   3,4%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   3,31   11   3,4%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   3,31   11   3,24%   6   12   28   46   516.85   149.9305   Motorboar Mechanics   3,20   3	49-3022	Automotive Glass Installers and Repairers	985	990	5	0.5%	2	37	57	96	\$17.90
49-3041   Farm Equipment Mechanics and Service Technicians	49-3023		28,373	28,591	218	0.8%	109	898	1,720	2,727	\$18.09
49-3022   Mobile Heavy Equipment Mechanics, Except Engines											
49-3051   Mail Car Repairers											
49-3051   Motorboat Mechanics and Service Technicians   403   423   20   5.0%   10   17   26   53   \$17.82     49-3052   Motorboat Mechanics   721   75.4   33   4.6%   16   30   46   92   \$17.82     49-3053   Outdoor Power Equipment and Other Small Engine Mechanics   1,158   1,198   37   3.2%   18   48   72   139   \$14.65     49-3093   Bicycle Repairers   322   362   00   0.0%   00   14   31   45   \$12.71     49-3095   Recreational Vehicle Service Technicians   320   331   11   3.4%   6   12   28   44   \$15.86     49-3092   Recreational Vehicle Service Technicians   3.283   3.834   6   0.2%   3   142   328   473   \$12.66     49-9011   Mochanical Door Repairers   1,119   1,189   70   6.3%   35   28   57   120   \$20.06     49-9012   Control and Valve Installers and Repairers, Except Mechanical Door   1,355   1,374   19   1.4%   10   34   68   112   \$32.21     49-9021   Home Appliance Repairers   2,332   2,318   1.4   0.6%   7   114   102   209   \$17.31     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   796   1,248     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   796   1,248     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   796   1,248     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   796   1,248     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   378   2.88   322.64     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   328     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   328     49-9041   Moustrial Mechanics   1,179   1,246   327   2.8%   164   328   328     49-9041   Moustrial Mechanics   1,179   1,246   327   3.8%   3.8											
49-3052   Motorcycle Mechanics   721   754   33   4.6%   16   30   46   92   \$17.04											
49-3033   Outdoor Power Equipment and Other Small Engine Mechanics   1,158   1,155   37   2,2%   18   48   73   139   \$14.65											
49-3091   Bicycle Repairers   362   362   0   0.0%   0   14   31   45   \$12.71		'									
49-9031   Tire Repairers and Changers   3,828   3,834   6   0,2%   3   142   328   473   512.66		Bicycle Repairers	362	362	0	0.0%	0		31	45	
49-9011   Mechanical Door Repairers   1,119   1,188   70   6,3%   35   28   57   120   \$20.06   49-9012   Control and Valve Installers and Repairers, Except Mechanical Door   1,355   1,374   19   1,4%   10   34   68   112   \$32.21   49-9021   Heating, Air Conditioning, and Refrigeration Mechanics and Installers   11,719   12,046   327   2,8%   164   328   796   1,288   \$32.254   49-9031   Home Appliance Repairers   2,332   2,318   -14   -0.6%   -7   114   102   209   \$17.31   104.99041   Industrial Machinery Mechanics   19,751   20,231   480   2,4%   240   675   1,034   1,949   \$24.83   49-9043   Maintenance Workers, Machinery   2,567   2,699   42   1.6%   21   110   150   281   \$22.00   \$24.99044   Millwrights   2,335   2,388   39   1,7%   20   75   134   229   \$28.37   49-9041   Electrical Power-Line Installers and Repairers   3,293   3,403   110   3,3%   55   54   176   315   \$33.88   49-9052   Telecommunications Line Installers and Repairers   3,469   3,593   124   3,6%   62   86   262   410   \$20.08   49-9062   Medical Equipment Repairers   2,062   2,100   38   1,3%   19   80   98   197   \$22.53   49-9063   Musical Instrument Repairers and Tuners   370   365   5   1,4%   2   14   18   30   \$14.72   49-9064   49-9064   Millwrights   41   41   41   41   41   41   41   4											
49-9012   Control and Valve Installers and Repairers, Except Mechanical Door   1,355   1,374   19   1,4%   10   34   68   112   \$32.21		i v									
Heating, Air Conditioning, and Refrigeration Mechanics and Installers   11,719   12,046   327   2,8%   164   328   796   1,288   \$22,54   49-9031   Home Appliance Repairers   2,332   2,318   -14   -0,6%   -7   114   102   209   \$17,31   49-9041   Industrial Machinery Mechanics   19,751   20,231   480   2,4%   240   675   1,034   1,949   \$24,81   49-9043   Maintenance Workers, Machinery   2,567   2,609   42   1,6%   21   110   150   281   \$22,00   49-9044   Millwrights   2,350   2,389   39   1,7%   20   75   134   229   \$28,37   49-9051   Electrical Power-Line Installers and Repairers   3,293   3,403   110   3,3%   55   84   176   315   \$33,88   49-9052   Telecommunications Line Installers and Repairers   3,469   3,593   124   3,6%   62   86   262   410   \$20,08   49-9063   Musical Instrument Repairers   2,062   2,100   38   1,8%   19   80   98   197   \$22,53   49-9064   Watch Repairers   370   365   -5   -1,4%   -2   14   18   30   \$14,72   49-9064   Watch Repairers   44   143   -1   -0,7%   0   6   6   12   \$17,99   49-9071   Maintenance and Repair Workers, General   56,235   57,463   1,228   2,2%   614   2,316   3,162   6,092   \$19,15   49-9095   Manufactured Building and Mobile Home Installers   154   151   -3   -1,9%   -2   6   8   12   \$16,23   49-9098   Majorers   49-9098   Majorers   49-9098   Majorers   49-9098   Majorers   49-9098   Majorers   49-9098   Majorers   49-9099   Majorer											
49-9031   Home Appliance Repairers   2,332   2,318   1-14   -0.6%   -7   114   102   209   \$17.31											
49-9041 Industrial Machinery Mechanics 19,751 20,231 480 2.4% 240 675 1,034 1,949 \$24.83 49-9043 Maintenance Workers, Machinery 2,567 2,609 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 42 1.6% 21 110 150 281 \$22.00 1,000 48 1.8% 19 80 98 197 \$22.53 1,000 48 1.8% 19 80 98 197 \$22.53 1,000 48 1.8% 19 80 98 197 \$22.53 1,000 48 1.8% 19 80 98 197 \$22.53 1,000 48 1.8% 19 80 98 197 \$22.53 1,000 48 1.8% 19 80 98 197 \$22.53 1,000 48 1.8% 19 80 98 197 \$22.53 1,000 48 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0% 1.0%											
49-9043   Maintenance Workers, Machinery   2,567   2,608   42   1.6%   21   110   150   281   \$22.00   49-9044   Millwrights   2,250   2,389   39   1.7%   20   75   134   229   \$28.37   249.9051   Electrical Power-Line Installers and Repairers   3,293   3,403   110   3.3%   55   84   176   315   \$33.88   49-9052   Telecommunications Line Installers and Repairers   3,469   3,593   124   3.6%   62   86   262   410   \$20.08   49-9062   Medical Equipment Repairers   2,062   2,100   38   1.8%   19   80   98   197   \$22.53   49-9063   Musical Instrument Repairers and Tuners   370   365   -5   -1.4%   -2   14   18   30   \$14.72   49-9064   Watch Repairers   144   143   -1   -0.7%   0   6   6   6   12   \$17.99   49-9064   Watch Repairers   56,235   57,463   1,228   2.2%   614   2,316   3,162   6,092   \$19.15   49-9091   Coin, Vending, and Amusement Machine Servicers and Repairers   2,436   2,421   -15   -0.6%   -8   104   164   260   \$16.79   49-9095   Manufactured Building and Mobile Home Installers   154   151   -3   -1.9%   -2   6   8   12   \$16.23   49-9098   Helpers-Installation, Maintenance, and Repair Workers   2,112   2,173   61   2.9%   30   103   162   295   \$13.76   49-9099   Installation, Maintenance, and Repair Workers   30,967   31,271   304   1.0%   152   992   1,992   3,136   \$28.70   \$1.202   Coil Winders, Tapers, and Flinishers   56,265   515   -10   -1.9%   -5   22   32   49   \$20.04   \$4.8   51.202   Coil Winders, Tapers, and Flinishers   3,764   9,428   -336   -3.4%   -168   486   627   945   \$4.8   \$											
49-9051       Electrical Power-Line Installers and Repairers       3,293       3,403       110       3.3%       55       84       176       315       \$33.88         49-9052       Telecommunications Line Installers and Repairers       3,699       3,593       124       3.6%       62       86       262       410       \$20.08         49-9062       Medical Equipment Repairers       2,062       2,100       38       1.8%       19       80       98       197       \$22.53         49-9062       Musical Instrument Repairers and Tuners       370       365       -5       -1.4%       -2       14       18       30       \$14.72         49-9064       Watch Repairers       144       143       -1       -0.7%       0       6       6       12       \$17.99         49-9069       Precision Instrument and Equipment Repairers, All Other       706       726       20       2.8%       10       28       34       72       \$27.41         49-9071       Maintenance and Repair Workers, General       56,235       57,463       1,228       2.2%       614       2,316       3,612       49.901         49-9091       Coin, Vending, and Amusement Machine Servicers and Repairers       761       755	49-9043		2,567	2,609	42	1.6%	21	110	150	281	\$22.00
49-9052       Telecommunications Line Installers and Repairers       3,469       3,593       124       3.6%       62       86       262       410       \$20.08         49-9062       Medical Equipment Repairers       2,062       2,100       38       1.8%       19       80       98       197       \$22.53         49-9063       Musical Instrument Repairers and Tuners       370       365       -5       -1.4%       -2       14       18       30       \$14.72         49-9064       Watch Repairers       1144       143       -1       -0.7%       0       6       6       12       \$17.99         49-9069       Precision Instrument and Equipment Repairers, All Other       706       726       20       2.8%       10       28       34       72       \$27.41         49-9071       Maintenance and Repair Workers, General       56,235       57,463       1,228       2.2%       614       2,316       3,162       6,092       \$19.15         49-9091       Coin, Vending, and Amusement Machine Servicers and Repairers       761       755       -6       -0.8%       -3       38       32       67       \$18.85         49-9091       Coin, Vending, and Safe Repairers       761       755		ů									
49-9062   Medical Equipment Repairers   2,062   2,100   38   1.8%   19   80   98   197   \$22.53     49-9063   Musical Instrument Repairers and Tuners   370   365   -5   -1.4%   -2   14   18   30   \$14.72     49-9064   Watch Repairers   144   143   -1   -0.7%   0   6   6   12   \$17.99     49-9069   Precision Instrument and Equipment Repairers, All Other   706   726   20   2.8%   10   28   34   72   \$27.41     49-9071   Maintenance and Repair Workers, General   56,235   57,463   1,228   2.2%   614   2,316   3,162   6,092   \$19.15     49-9091   Coin, Vending, and Amusement Machine Servicers and Repairers   2,436   2,421   -15   -0.6%   -8   104   164   260   \$16.79     49-9094   Locksmiths and Safe Repairers   761   755   -6   -0.8%   -3   38   32   67   \$18.85     49-9095   Manufactured Building and Mobile Home Installers   154   151   -3   -1.9%   -2   6   8   12   \$16.23     49-9096   Riggers   386   392   6   1.6%   3   12   26   41   \$21.12     49-9098   HelpersInstallation, Maintenance, and Repair Workers   2,112   2,173   61   2.9%   30   103   162   295   \$13.76     49-9099   Installation, Maintenance, and Repair Workers   5686   5,826   140   2.5%   70   212   330   612   \$18.84     51-0000   Production Occupations   508,043   506,907   -1,136   -0.2%   -568   20,051   36,250   55,733   \$17.28     51-2011   Aircraft Structure, Surfaces, Rigging, and Systems Assemblers   525   515   -10   -1.9%   -5   22   32   34   49   58   \$18.13     51-2022   Electrical and Electronic Equipment Assemblers   9,764   9,428   -336   -3.4%   -168   486   627   945   ▲											
49-9063       Musical Instrument Repairers and Tuners       370       365       -5       -1.4%       -2       14       18       30       \$14.72         49-9064       Watch Repairers       144       143       -1       -0.7%       0       6       6       12       \$17.99         49-9069       Precision Instrument and Equipment Repairers, All Other       706       726       20       2.8%       10       28       34       72       \$27.41         49-9071       Maintenance and Repair Workers, General       56,235       57,463       1,228       2.2%       614       2,316       3,162       6,092       \$19.15         49-9091       Coin, Vending, and Amusement Machine Servicers and Repairers       2,436       2,421       -15       -0.6%       -8       104       164       260       \$16.79         49-9094       Locksmiths and Safe Repairers       761       755       -6       -0.8%       -3       38       32       67       \$18.85         49-9094       Locksmiths and Safe Repairers       154       151       -3       -1.9%       -2       6       8       12       \$16.23         49-9095       Manufactured Building and Mobile Home Installers       154       151		'									
49-9064   Watch Repairers   144   143   -1   -0.7%   0   6   6   12   \$17.99											
49-9069       Precision Instrument and Equipment Repairers, All Other       706       726       20       2.8%       10       28       34       72       \$27.41         49-9071       Maintenance and Repair Workers, General       56,235       57,463       1,228       2.2%       614       2,316       3,162       6,092       \$19.15         49-9091       Coin, Vending, and Amusement Machine Servicers and Repairers       2,436       2,421       -15       -0.6%       -8       104       164       260       \$16.79         49-9094       Locksmiths and Safe Repairers       761       755       -6       -0.9%       -3       38       32       67       \$18.85         49-9095       Manufactured Building and Mobile Home Installers       154       151       -3       -1.9%       -2       6       8       12       \$16.23         49-9096       Riggers       386       392       6       1.6%       3       12       26       41       \$21.12         49-9098       HelpersInstallation, Maintenance, and Repair Workers       2,112       2,173       61       2.9%       30       103       162       295       \$13.76         49-9099       Installation, Maintenance, and Repair Workers, All Other <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
49-9071       Maintenance and Repair Workers, General       56,235       57,463       1,228       2.2%       614       2,316       3,162       6,092       \$19.15         49-9091       Coin, Vending, and Amusement Machine Servicers and Repairers       2,436       2,421       -15       -0.6%       -8       104       164       260       \$16.79         49-9094       Locksmiths and Safe Repairers       761       755       -6       -0.8%       -3       38       32       67       \$18.85         49-9095       Manufactured Building and Mobile Home Installers       154       151       -3       -1.9%       -2       6       8       12       \$16.23         49-9096       Riggers       386       392       6       1.6%       3       12       26       41       \$21.12         49-9098       Helpers-Installation, Maintenance, and Repair Workers       2,112       2,173       61       2.9%       30       103       162       295       \$13.76         49-9099       Installation, Maintenance, and Repair Workers, All Other       5,686       5,826       140       2.5%       70       212       330       612       \$18.84         51-0000       Production Occupations       506,907       -		· ·									
49-9094       Locksmiths and Safe Repairers       761       755       -6       -0.8%       -3       38       32       67       \$18.85         49-9095       Manufactured Building and Mobile Home Installers       154       151       -3       -1.9%       -2       6       8       12       \$16.23         49-9096       Riggers       386       392       6       1.6%       3       12       26       41       \$21.12         49-9098       Helpers-Installation, Maintenance, and Repair Workers       2,112       2,173       61       2.9%       30       103       162       295       \$13.76         49-9099       Installation, Maintenance, and Repair Workers, All Other       5,686       5,826       140       2.5%       70       212       330       612       \$18.48         81-0000       Production Occupations       508,043       506,907       -1,136       -0.2%       -568       20,051       36,250       55,733       \$17.28         51-1011       FL Supervisors of Production and Operating Workers       30,967       31,271       304       1.0%       152       992       1,992       3,136       \$28.70         51-2012       Aircraft Structure, Surfaces, Rigging, and Systems Assemblers <t< td=""><td>49-9071</td><td>Maintenance and Repair Workers, General</td><td>56,235</td><td>57,463</td><td>1,228</td><td></td><td>614</td><td>2,316</td><td>3,162</td><td>6,092</td><td>\$19.15</td></t<>	49-9071	Maintenance and Repair Workers, General	56,235	57,463	1,228		614	2,316	3,162	6,092	\$19.15
49-9095       Manufactured Building and Mobile Home Installers       154       151       -3       -1.9%       -2       6       8       12       \$16.23         49-9096       Riggers       386       392       6       1.6%       3       12       26       41       \$21.12         49-9098       HelpersInstallation, Maintenance, and Repair Workers       2,112       2,173       61       2.9%       30       103       162       295       \$13.76         49-9099       Installation, Maintenance, and Repair Workers       5,826       140       2.5%       70       212       330       612       \$18.48         51-000       Production Occupations       508,043       506,907       -1,136       -0.2%       -568       20,051       36,250       55,733       \$17.28         51-1011       FL Supervisors of Production and Operating Workers       30,967       31,271       304       1.0%       152       992       1,992       3,136       \$28.70         51-2011       Aircraft Structure, Surfaces, Rigging, and Systems Assemblers       525       515       -10       -1.9%       -5       22       32       49       \$20.40         51-2021       Coil Winders, Tapers, and Finishers       636       607<											
49-9096       Riggers       386       392       6       1.6%       3       12       26       41       \$21.12         49-9098       Helpers-Installation, Maintenance, and Repair Workers       2,112       2,173       61       2.9%       30       103       162       295       \$13.76         49-9099       Installation, Maintenance, and Repair Workers, All Other       5,826       140       2.5%       70       212       330       612       \$18.48         51-0000       Production Occupations       506,043       506,907       -1,136       -0.2%       -568       20,051       36,250       55,733       \$17.28         51-1011       FL Supervisors of Production and Operating Workers       30,967       31,271       304       1.0%       152       992       1,992       3,136       \$28.70         51-2011       Aircraft Structure, Surfaces, Rigging, and Systems Assemblers       525       515       -10       -1.9%       -5       22       32       49       \$20.40         51-2021       Coil Winders, Tapers, and Finishers       636       607       -29       -4,6%       -14       32       40       58       \$18.13         51-2022       Electrical and Electronic Equipment Assemblers       9,764											
49-9098       HelpersInstallation, Maintenance, and Repair Workers       2,112       2,173       61       2.9%       30       103       162       295       \$13.76         49-9099       Installation, Maintenance, and Repair Workers, All Other       5,686       5,826       140       2.5%       70       212       330       612       \$18.48         51-0000       Production Occupations       506,043       506,907       -1,136       -0.2%       -568       20,051       36,250       55,733       \$17.28         51-1011       FL Supervisors of Production and Operating Workers       30,967       31,271       304       1.0%       152       992       1,992       3,166       \$28.70         51-2011       Aircraft Structure, Surfaces, Rigging, and Systems Assemblers       525       515       -10       -1.9%       -5       22       32       49       \$20.40         51-2012       Coil Winders, Tapers, and Finishers       636       607       -29       -4.6%       -14       32       40       58       \$18.13         51-2022       Electrical and Electronic Equipment Assemblers       9,764       9,428       -336       -3.4%       -168       486       627       945       ▲											
49-9099       Installation, Maintenance, and Repair Workers, All Other       5,686       5,826       140       2.5%       70       212       330       612       \$18.48         51-0000       Production Occupations       508,043       506,907       -1,136       -0.2%       -568       20,051       36,250       55,733       \$17.28         51-1011       FL Supervisors of Production and Operating Workers       30,967       31,271       304       1.0%       152       992       1,992       3,136       \$28.70         51-2011       Aircraft Structure, Surfaces, Rigging, and Systems Assemblers       525       515       -10       -1.9%       -5       22       32       49       \$20.40         51-2012       Coil Winders, Tapers, and Finishers       636       607       -29       -4.6%       -14       32       40       58       \$18.13         51-2022       Electrical and Electronic Equipment Assemblers       9,764       9,428       -336       -3.4%       -168       486       627       945       ▲											
51-0000         Production Occupations         508,043         506,907         -1,136         -0.2%         -568         20,051         36,250         55,733         \$17.28           51-1011         FL Supervisors of Production and Operating Workers         30,967         31,271         304         1.0%         152         992         1,992         3,136         \$28.70           51-2011         Aircraft Structure, Surfaces, Rigging, and Systems Assemblers         525         515         -10         -1.9%         -5         22         32         49         \$20.40           51-2021         Coil Winders, Tapers, and Finishers         636         607         -29         -4.6%         -14         32         40         58         \$18.13           51-2022         Electrical and Electronic Equipment Assemblers         9,764         9,428         -336         -3.4%         -168         486         627         945         ▲											
51-1011     FL Supervisors of Production and Operating Workers     30,967     31,271     304     1.0%     152     992     1,992     3,136     \$28.70       51-2011     Aircraft Structure, Surfaces, Rigging, and Systems Assemblers     525     515     -10     -1.9%     -5     22     32     49     \$20.40       51-2021     Coil Winders, Tapers, and Finishers     636     607     -29     -4.8%     -14     32     40     58     \$18.13       51-2022     Electrical and Electronic Equipment Assemblers     9,764     9,428     -336     -3.4%     -168     486     627     945     ▲											
51-2011       Aircraft Structure, Surfaces, Rigging, and Systems Assemblers       525       515       -10       -1.9%       -5       22       32       49       \$20.40         51-2021       Coil Winders, Tapers, and Finishers       636       607       -29       -4.6%       -14       32       40       58       \$18.13         51-2022       Electrical and Electronic Equipment Assemblers       9,764       9,428       -336       -3.4%       -168       486       627       945       ▲											
51-2021 Coil Winders, Tapers, and Finishers 636 607 -29 -4.6% -14 32 40 58 \$18.13 51-2022 Electrical and Electronic Equipment Assemblers 9,764 9,428 -336 -3.4% -168 486 627 945 ▲											
	51-2021	Coil Winders, Tapers, and Finishers					-14	32	40		
51-2023   Electromechanical Equipment Assemblers   2,049   1,997   -52   -2.5%   -26   102   132   208   ▲											
	51-2023	Electromechanical Equipment Assemblers	2,049	1,997	-52	-2.5%	-26	102	132	208	<b>A</b>

		Employ	ment	Chang	e in	I	Annual (	Openings		Median
soc		2018	2020	Employ	ment	Change	Exits	Transfers		Hourly Wage
<b>Code</b> 51-2031	Occupational Title**  Engine and Other Machine Assemblers	Employment 6,700	Forecast 6,580	-120	Percent -1.8%	[ <b>1</b> ]	<b>[2]</b>	<b>[3]</b> 495	Total 602	May 2018 \$22.73
51-2031	Structural Metal Fabricators and Fitters	3,482	3,466	-120	-0.5%	-8	120	254	366	\$17.28
51-2091	Fiberglass Laminators and Fabricators	475	490	15	3.2%	8	20	35	63	\$17.01
51-2092 51-2099	Team Assemblers Assemblers and Fabricators, All Other	42,090 31,346	41,236 30,563	-854 -783	-2.0% -2.5%	-427 -392	1,780 1,322	3,018 2,242	4,371 3,172	<u> </u>
51-3011	Bakers	6,299	6,361	62	1.0%	31	406	476	913	\$12.37
51-3021	Butchers and Meat Cutters	4,889	4,917	28	0.6%	14	220	374	608	\$16.90
51-3022 51-3023	Meat, Poultry, and Fish Cutters and Trimmers  Slaughterers and Meat Packers	2,242 3,115	2,291 3,196	49 81	2.2%	24 40	102 142	172 240	298 422	\$13.58 \$13.00
51-3023	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	856	875	19	2.2%	10	36	62	108	\$16.46
51-3092	Food Batchmakers	6,201	6,355	154	2.5%	77	345	524	946	\$15.83
51-3093 51-3099	Food Cooking Machine Operators and Tenders Food Processing Workers, All Other	1,555 2,285	1,601 2,337	46 52	3.0% 2.3%	23 26	86 100	128 156	237 282	\$16.59 \$12.10
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	13,584	13,803	219	1.6%	110	378	960	1,448	\$19.42
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	2,037	2,121	84	4.1%	42	58	146	246	\$23.57
51-4021 51-4022	Extruding and Drawing Machine S/O/T, Metal and Plastic Forging Machine Setters, Operators, and Tenders, Metal and Plastic	6,556 1,021	6,518 968	-38 -53	-0.6% -5.2%	-19 -26	164 28	490 71	635 73	\$16.24 \$18.74
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	2,699	2,615	-84	-3.1%	-42	76	190	224	\$19.03
51-4031	Cutting, Punching, and Press Machine S/O/T, Metal and Plastic	17,947	17,727	-220	-1.2%	-110	646	1,350	1,886	\$16.31
51-4032 51-4033	Drilling and Boring Machine Tool S/O/T, Metal and Plastic Grinding, Lapping, Polishing, and Buffing Machine Tool S/O/T, Metal and Plastic	670 6,997	644 6,952	-26 -45	-3.9% -0.6%	-13 -22	24 242	46 487	57 707	\$19.85 \$16.01
51-4034	Lathe and Turning Machine Tool S/O/T, Metal and Plastic	1,750	1,720	-30	-1.7%	-15	51	118	154	\$18.79
51-4035	Milling and Planing Machine S/O/T, Metal and Plastic	1,383	1,311	-72	-5.2%	-36	50	93	107	\$22.47
51-4041 51-4051	Machinists  Metal-Refining Furnace Operators and Tenders	28,198 1,131	28,628 1,107	430 -24	1.5% -2.1%	215 -12	987 36	1,850 72	3,052 96	\$19.90 \$17.03
51-4051	Pourers and Casters, Metal	533	504	-24	-5.4%	-12	17	33	36	\$17.03
51-4061	Model Makers, Metal and Plastic	460	453	-7	-1.5%	-4	17	32	45	\$27.05
51-4062 51-4071	Patternmakers, Metal and Plastic Foundry Mold and Coremakers	344 1,694	336 1,623	-8 -71	-2.3% -4.2%	-4 -36	12 60	24 126	32 150	\$19.62 \$15.53
51-4071	Molding, Coremaking, and Casting Machine S/O/T, Metal and Plastic	16,053	15,963	-90	-0.6%	-45	586	1,212	1,753	\$14.35
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	14,300	14,365	65	0.5%	32	531	992	1,555	\$16.72
51-4111	Tool and Die Makers	7,954	7,893	-61	-0.8%	-30	310	430	710	\$23.96
51-4121 51-4122	Welders, Cutters, Solderers, and Brazers  Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	18,367 3,194	18,842 3,113	475 -81	2.6% -2.5%	238 -40	496 84	1,453 246	2,187 290	\$18.94 \$18.38
51-4191	Heat Treating Equipment S/O/T, Metal and Plastic	1,701	1,691	-10	-0.6%	-5	63	118	176	\$17.30
51-4192	Layout Workers, Metal and Plastic	149	154	5	3.4%	2	6	10	18	\$19.12
51-4193 51-4194	Plating and Coating Machine S/O/T, Metal and Plastic Tool Grinders, Filers, and Sharpeners	2,464 751	2,487 755	23 4	0.9%	12	62 22	182 70	256 94	\$15.77 \$18.12
51-4199	Metal Workers and Plastic Workers, All Other	1,431	1,405	-26	-1.8%	-13	52	98	137	\$15.36
51-5111	Prepress Technician and Workers	1,783	1,631	-152	-8.5%	-76	71	129	124	\$19.19
51-5112	Printing Press Operators	8,983 2,844	8,557 2,659	-426 -185	-4.7%	-213 -92	342 208	570 152	699 268	\$17.18
51-5113 51-6011	Print Binding and Finishing Workers  Laundry and Dry-Cleaning Workers	6,588	6,709	121	-6.5% 1.8%	-92 60	446	447	953	\$14.49 \$10.35
51-6021	Pressers, Textile, Garment, and Related Materials	2,151	2,211	60	2.8%	30	132	143	305	\$11.12
51-6031	Sewing Machine Operators	3,191	3,141	-50	-1.6%	-25	180	153	308	\$11.82
51-6041 51-6062	Shoe and Leather Workers and Repairers Textile Cutting Machine Setters, Operators, and Tenders	454 242	456 240	-2	-0.8%	-1	21 16	22 16	44 31	\$12.07 \$14.45
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	157	155	-2	-1.3%	-1	8	10	17	\$13.40
51-6091	Extruding and Forming Machine S/O/T, Synthetic and Glass Fibers	714	725	11	1.5%	6	38	48	92	\$18.24
51-6093 51-6099	Upholsterers Textile, Apparel, and Furnishings Workers, All Other	1,068 304	1,109 299	41 -5	3.8% -1.6%	20 -2	48 16	63 20	131 34	\$15.42 \$15.43
51-7011	Cabinetmakers and Bench Carpenters	4,882	5,088	206	4.2%	103	232	276	611	\$16.91
51-7021	Furniture Finishers	1,410	1,482	72	5.1%	36	80	52	168	\$14.73
51-7041 51-7042	Sawing Machine Setters, Operators, and Tenders, Wood Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,177 4,684	1,179 4,716	2 32	0.2%	1 16	48 180	87 327	136 523	\$14.87 \$14.76
51-8012	Power Distributors and Dispatchers	824	837	13	1.6%	6	20	51	77	\$40.65
51-8013	Power Plant Operators	1,174	1,199	25	2.1%	12	29	73	114	\$35.22
51-8021 51-8031	Stationary Engineers and Boiler Operators  Water and Wastewater Treatment Plant and System Operators	1,066 4,643	1,075 4,590	-53	-1.1%	-26	34 132	76 246	114 352	\$27.67 \$23.66
51-8031	Chemical Plant and System Operators	2,544	2,488	-53 -56	-2.2%	-28	58	189	219	\$23.00
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	1,492	1,509	17	1.1%	8	34	112	154	\$32.10
51-8099 51-9011	Plant and System Operators, All Other  Chemical Equipment Operators and Tenders	437 5,688	439 5,608	-80	0.5% -1.4%	-40	10 155	33 443	558	\$25.80 \$22.79
51-9011	Separating, Filtering, Clarifying, Precipitating, and Still Machine S/O/T	1,964	2,041	-80 77	-1.4% 3.9%	-40 38	155 55	157	250	\$22.79 \$19.94
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	1,176	1,199	23	2.0%	12	43	89	144	\$17.38
51-9022	Grinding and Polishing Workers, Hand	814	785	-29	-3.6%	-14	29	60	75	\$13.27 \$17.01
51-9023 51-9032	Mixing and Blending Machine Setters, Operators, and Tenders Cutting and Slicing Machine Setters, Operators, and Tenders	7,772 3,880	7,837 3,851	65 -29	-0.7%	32 -14	281 140	584 294	897 420	\$17.91 \$17.10
51-9041	Extruding, Forming, Pressing, and Compacting Machine S/O/T	6,963	6,948	-15	-0.2%	-8	270	558	820	\$15.67
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	1,467	1,465	-2	-0.1%	-1	62	81	142	\$16.68
51-9061 51-9071	Inspectors, Testers, Sorters, Samplers, and Weighers Jewelers and Precious Stone and Metal Workers	31,629 1,148	30,961 1,141	-668 -7	-2.1% -0.6%	-334 -4	1,301 68	2,396 50	3,363 114	\$18.51 \$17.39
51-9081	Dental Laboratory Technicians	997	1,010	13	1.3%	6	43	67	116	\$19.50
51-9082	Medical Appliance Technicians	701	714	13	1.9%	6	30	47	83	\$17.41
51-9083 51-9111	Ophthalmic Laboratory Technicians  Packaging and Filling Machine Operators and Tenders	966 18,519	967 18,951	1 432	0.1% 2.3%	0 216	42 886	64 1,244	106 2,346	\$14.86 \$14.94
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	6,737	6,893	156	2.3%	78	194	510	782	\$16.96
51-9122	Painters, Transportation Equipment	2,657	2,647	-10	-0.4%	-5	76	198	269	\$18.46
51-9141	Semiconductor Processors Photographic Process Workers and Processing Machine Operators	673 974	660 925	-13 -49	-1.9% -5.0%	-6 -24	26 50	48 98	68 124	\$18.27 \$14.14
51-9151 51-9191	Adhesive Bonding Machine Operators and Tenders	974 899	925 891	-49 -8	-5.0%	-24 -4	42	98 54	92	\$14.14 \$16.27
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	1,392	1,427	35	2.5%	18	66	116	200	\$16.02
51-9193	Cooling and Freezing Equipment Operators and Tenders	897	911	14	1.6%	7	36	66	109	\$14.84
51-9194 51-9195	Etchers and Engravers  Molders, Shapers, and Casters, Except Metal and Plastic	582 2,537	577 2,548	-5 11	-0.9% 0.4%	-2 6	36 98	34 157	68 261	\$16.39 \$16.46
51-9196	Paper Goods Machine Setters, Operators, and Tenders	4,127	3,971	-156	-3.8%	-78	146	264	332	\$19.31
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		Employ	ment	Chang	je in		Annual	Openings		Median
SOC		2018	2020	Employ		Change	Exits	Transfers		Hourly Wage
Code	Occupational Title**	Employment	Forecast	2018-2020	Percent	[1]	[2]	[3]	Total	May 2018
51-9197	Tire Builders	1,130	1,099	-31	-2.7%	-16	36	89	109	\$24.67
51-9198	HelpersProduction Workers	18,238	18,679	441	2.4%	220	990	1,758	2,968	\$14.41
51-9199	Production Workers, All Other	18,239	18,318	79	0.4%	40	718	1,336	2,094	\$15.58
53-0000	Transportation and Material Moving Occupations	419,156	426,931	7,775	1.9%	3,888	20,898	30,486	55,272	\$15.13
53-1021	FL Supervisors of Helpers, Laborers, and Material Movers, Hand	7,427	7,536	109	1.5%	54	240	514	808	<b>A</b>
53-1031	FL Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	7,255	7,426	171	2.4%	86	236	504	826	<b>A</b>
53-2011	Airline Pilots, Copilots, and Flight Engineers	1,113	1,110	-3	-0.3%	-2	31	71	100	\$102,010 **
53-2012	Commercial Pilots	2,126	2,180	54	2.5%	27	60	138	225	\$81,050 **
53-2021	Air Traffic Controllers	766	784	18	2.3%	9	25	46	80	\$67.29
53-2022	Airfield Operations Specialists	279	285	6	2.2%	3	9	16	28	\$19.47
53-2031	Flight Attendants	773	784	11	1.4%	6	38	44	88	\$58,230 <sup>++</sup>
53-3011	Ambulance Drivers and Attendants, Ex. Emergency Medical Technicians	914	931	17	1.9%	8	56	74	138	\$12.12
53-3021	Bus Drivers, Transit and Intercity	5,976	5,994	18	0.3%	9	470	244	723	\$18.45
53-3022	Bus Drivers, School or Special Client	11,203	11,380	177	1.6%	88	886	461	1,435	\$14.18
53-3031	Driver/Sales Workers	24,195	24,178	-17	-0.1%	-8	1,026	1,520	2,538	\$9.59
53-3032	Heavy and Tractor-Trailer Truck Drivers	75,279	77,680	2,401	3.2%	1,200	3,242	4,804	9,246	\$20.66
53-3033	Light Truck or Delivery Services Drivers	38,542	39,326	784	2.0%	392	1,651	2,446	4,489	\$14.32
53-3041	Taxi Drivers and Chauffeurs	12,509	13,172	663	5.3%	332	762	520	1,614	\$10.99
53-3099	Motor Vehicle Operators, All Other	5,396	5,526	130	2.4%	65	631	302	998	\$11.16
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	251	254	3	1.2%	2	6	14	22	\$27.62
53-4021	Railroad Brake, Signal, and Switch Operators	319	320	1	0.3%	0	8	22	30	\$26.85
53-5011	Sailors and Marine Oilers	206	217	11	5.3%	6	8	16	30	\$18.23
53-5021	Captains, Mates, and Pilots of Water Vessels	263	282	19	7.2%	10	9	18	37	\$22.30
53-6011	Bridge and Lock Tenders	176	181	5	2.8%	2	8	12	22	\$26.18
53-6021	Parking Lot Attendants	3,746	3,847	101	2.7%	50	222	334	606	\$10.12
53-6031	Automotive and Watercraft Service Attendants	4,582	4,657	75	1.6%	38	248	504	790	\$11.20
53-6041	Traffic Technicians	108	109	1	0.9%	0	4	8	12	\$24.26
53-6051	Transportation Inspectors	759	770	11	1.4%	6	27	46	79	\$23.65
53-6061	Transportation Attendants, Except Flight Attendants	340	340	0	0.0%	0	28	16	44	\$12.99
53-6099	Transportation Workers, All Other	1,044	1,070	26	2.5%	13	46	73	132	\$16.63
53-7011	Conveyor Operators and Tenders	1,209	1,219	10	0.8%	5	60	101	166	\$15.43
53-7021	Crane and Tower Operators	1,799	1,824	25	1.4%	12	60	127	199	\$21.17
53-7032	Excavating and Loading Machine and Dragline Operators	1,016	1,110	94	9.3%	47	39	76	162	\$20.47
53-7041	Hoist and Winch Operators	114	112	-2	-1.8%	-1	6	10	15	\$17.73
53-7051	Industrial Truck and Tractor Operators	23,210	23,358	148	0.6%	74	811	1,742	2,627	\$16.29
53-7061	Cleaners of Vehicles and Equipment	13,014	13,294	280	2.2%	140	678	1,141	1,959	\$11.20
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	113,866	115,728	1,862	1.6%	931	5,687	9,815	16,433	\$13.67
53-7063	Machine Feeders and Offbearers	4,004	4,020	16	0.4%	8	216	322	546	\$15.00
53-7064	Packers and Packagers, Hand	41,955	42,192	237	0.6%	118	2,850	3,434	6,402	\$11.82
53-7071	Gas Compressor and Gas Pumping Station Operators	159	162	3	1.9%	2	6	14	22	\$35.15
53-7072	Pump Operators, Except Wellhead Pumpers	196	203	7	3.6%	4	7	16	27	\$18.66
53-7073 53-7081	Wellhead Pumpers Refuse and Recyclable Material Collectors	599	610	11 280	1.8% 3.8%	6 140	22 336	50 540	78 1,016	\$18.77
53-7081		7,277 239	7,557 234	280 -5	-2.1%	140 -2	336 10	540 18	1,016	\$17.94 \$15.93
53-7121	Tank Car, Truck, and Ship Loaders  Material Moving Workers, All Other	239 447	234 445	-5 -2	-2.1%	-2 -1	20	18 32	26 51	\$15.93 \$12.49
53-7199	iviateriai iviovirig vvoikers, Ali Other	44/	445	-2	-0.4%	-1	20	32	51	\$12.49

<sup>[1]</sup> Numeric change measures the projected annual number of job gains or losses in an occupation for the projection period.
[2] Exits are the projected number of workers leaving an occupation and exiting the labor force entirely.
[3] Transfers are the projected number of workers leaving an occupation and transferring to a different occupation.

(3) Transfers are the projected number of workers leaving an occupation and transferring to a different \*\* Occupations with 100 or more workers.

\*\* Title Abbreviations
FL = First-Line
S/O/T = Setters, Operators and Tenders
Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2019

<sup>▲</sup> Wage data unavailable - OES consolidated these occupations in 2018. + National Wage ++ Annual Wage

SOC Code	Occupational Title**	Typical Education Required for Entry	Commonly Required Work Experience in Related Occupation	Typical On-the-Job Training to Obtain Competency	Median Hourly Wage May 2018
00-0000	Total, All Occupations		·	· ·	
<i>11-0000</i> 11-1011	Management Occupations Chief Evenutions	Pashalaria dagras	E veere or more	None	\$46.45 \$94.47
11-1011	Chief Executives General and Operations Managers	Bachelor's degree Bachelor's degree	5 years or more 5 years or more	None None	\$46.21
11-1031	Legislators	Bachelor's degree	Less than 5 years	None	\$19,350 **
11-2011 11-2021	Advertising and Promotions Managers  Marketing Managers	Bachelor's degree Bachelor's degree	Less than 5 years 5 years or more	None None	\$47.38 \$58.77
11-2022	Sales Managers	Bachelor's degree	Less than 5 years	None	\$58.23
11-2031	Public Relations and Fundraising Managers	Bachelor's degree	5 years or more	None	\$49.19
11-3011 11-3021	Administrative Services Managers  Computer and Information Systems Managers	Bachelor's degree Bachelor's degree	Less than 5 years 5 years or more	None None	\$40.84 \$59.97
11-3031	Financial Managers	Bachelor's degree	5 years or more	None	\$56.78
11-3051 11-3061	Industrial Production Managers	Bachelor's degree	5 years or more	None	\$47.96 \$56.16
11-3061	Purchasing Managers Transportation, Storage, and Distribution Managers	Bachelor's degree High school diploma or equivalent	5 years or more 5 years or more	None None	\$42.85
11-3111	Compensation and Benefits Managers	Bachelor's degree	5 years or more	None	\$57.10
11-3121 11-3131	Human Resources Managers Training and Development Managers	Bachelor's degree Bachelor's degree	5 years or more	None None	\$52.70 \$49.36
11-9013	Farmers, Ranchers, and Other Agricultural Managers	High school diploma or equivalent	5 years or more 5 years or more	None	\$34.65
11-9021	Construction Managers	Bachelor's degree	None	Moderate-term on-the-job training	\$43.81
11-9031 11-9032	Education Administrators, Preschool and Childcare Center/Program  Education Administrators, Elementary and Secondary School	Bachelor's degree Master's degree	Less than 5 years	None None	\$21.13 \$87,700 **
11-9032	Education Administrators, Elementary and Secondary School	Master's degree	5 years or more Less than 5 years	None	\$43.80
11-9039	Education Administrators, All Other	Bachelor's degree	Less than 5 years	None	\$41.17
11-9041 11-9051	Architectural and Engineering Managers	Bachelor's degree	5 years or more	None	\$61.82 \$24.33
11-9061	Food Service Managers Funeral Service Managers	High school diploma or equivalent Associate's degree	Less than 5 years Less than 5 years	None None	\$24.33 \$42.82
11-9081	Lodging Managers	High school diploma or equivalent	Less than 5 years	None	\$19.78
11-9111 11-9121	Medical and Health Services Managers Natural Sciences Managers	Bachelor's degree	Less than 5 years 5 years or more	None None	\$43.89 \$58.04
11-9121	Postmasters and Mail Superintendents	Bachelor's degree High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$36.68
11-9141	Property, Real Estate, and Community Association Managers	High school diploma or equivalent	Less than 5 years	None	\$24.88
11-9151 11-9161	Social and Community Service Managers  Emergency Management Directors	Bachelor's degree Bachelor's degree	Less than 5 years 5 years or more	None None	\$32.69 \$33.14
11-9199	Managers, All Other	Bachelor's degree	Less than 5 years	None	\$46.92
13-0000	Business and Financial Operations Occupations				\$30.59
13-1011 13-1021	Agents and Business Managers of Artists, Performers, and Athletes Buyers and Purchasing Agents, Farm Products	Bachelor's degree Bachelor's degree	Less than 5 years	None Moderate-term on-the-job training	\$16.73
13-1021	Wholesale and Retail Buyers, Except Farm Products	Bachelor's degree	None None	Moderate-term on-the-job training	A A
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	Bachelor's degree	None	Moderate-term on-the-job training	<b>A</b>
13-1031 13-1032	Claims Adjusters, Examiners, and Investigators	High school diploma or equivalent Postsecondary non-degree award	None	Long-term on-the-job training	\$31.25 \$29.59
13-1032	Insurance Appraisers, Auto Damage Compliance Officers	Bachelor's degree	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$29.80
13-1051	Cost Estimators	Bachelor's degree	None	Moderate-term on-the-job training	\$29.15
13-1071 13-1075	Human Resources Specialists Labor Relations Specialists	Bachelor's degree Bachelor's degree	None Less than 5 years	None None	\$27.80 \$18.80
13-1073	Logisticians	Bachelor's degree	None	None	\$34.87
13-1111	Management Analysts	Bachelor's degree	Less than 5 years	None	\$37.37
13-1121 13-1131	Meeting, Convention, and Event Planners Fundraisers	Bachelor's degree Bachelor's degree	None None	None None	\$21.58 \$25.95
13-1141	Compensation, Benefits, and Job Analysis Specialists	Bachelor's degree	Less than 5 years	None	\$28.10
13-1151	Training and Development Specialists	Bachelor's degree	Less than 5 years	None	\$27.12
13-1161 13-1199	Market Research Analysts and Marketing Specialists  Business Operations Specialists, All Other	Bachelor's degree Bachelor's degree	None None	None None	\$28.82 \$31.70
13-2011	Accountants and Auditors	Bachelor's degree	None	None	\$31.07
13-2021	Appraisers and Assessors of Real Estate	Bachelor's degree	None	Long-term on-the-job training	\$27.10
13-2041 13-2051	Credit Analysts Financial Analysts	Bachelor's degree Bachelor's degree	None None	None None	\$33.90 \$34.58
13-2052	Personal Financial Advisors	Bachelor's degree	None	Long-term on-the-job training	\$35.76
13-2053	Insurance Underwriters	Bachelor's degree	None	Moderate-term on-the-job training	\$32.78
13-2061 13-2072	Financial Examiners Loan Officers	Bachelor's degree Bachelor's degree	None None	Long-term on-the-job training Moderate-term on-the-job training	\$34.69 \$31.14
13-2081	Tax Examiners and Collectors, and Revenue Agents	Bachelor's degree	None	Moderate-term on-the-job training	\$30.01
13-2082	Tax Preparers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.98
13-2099 15-0000	Financial Specialists, All Other  Computer and Mathematical Occupations	Bachelor's degree	None	Moderate-term on-the-job training	\$36.38 \$37.47
15-1111	Computer and Information Research Scientists	Master's degree	None	None	\$53.05
15-1121 15-1122	Computer Systems Analysts Information Security Analysts	Bachelor's degree	None Less than 5 years	None None	\$40.43 \$42.97
15-1122	Computer Programmers	Bachelor's degree Bachelor's degree	None	None	\$42.97 \$34.99
15-1132	Software Developers, Applications	Bachelor's degree	None	None	\$43.88
15-1133	Software Developers, Systems Software Web Developers	Bachelor's degree	None	None	\$47.51
15-1134 15-1141	Web Developers Database Administrators	Associate's degree Bachelor's degree	None None	None None	\$29.88 \$43.26
15-1142	Network and Computer Systems Administrators	Bachelor's degree	None	None	\$36.15
15-1143	Computer Network Architects	Bachelor's degree	5 years or more	None	\$46.41
15-1151 15-1152	Computer User Support Specialists Computer Network Support Specialists	Some college, no degree Associate's degree	None None	None None	\$22.66 \$27.60
15-1199	Computer Occupations, All Other	Bachelor's degree	None	None	\$39.73
15-2011 15-2031	Actuaries Operations Research Analysts	Bachelor's degree Bachelor's degree	None None	Long-term on-the-job training None	\$45.19 \$38.26
15-2031	Statisticians	Master's degree	None	None	\$37.82
17-0000	Architecture and Engineering Occupations				\$36.07
17-1011 17-1012	Architects, Except Landscape and Naval  Landscape Architects	Bachelor's degree Bachelor's degree	None None	Internship/residency Internship/residency	\$36.88 \$28.28
17-1012	Surveyors	Bachelor's degree	None	Internship/residency	\$28.28
17-2011	Aerospace Engineers	Bachelor's degree	None	None	\$53.07
17-2031	Biomedical Engineers Chamical Engineers	Bachelor's degree	None None	None None	\$38.10 \$45.19
17-2041 17-2051	Chemical Engineers Civil Engineers	Bachelor's degree Bachelor's degree	None None	None None	\$45.19 \$37.68
17-2061	Computer Hardware Engineers	Bachelor's degree	None	None	\$48.81
17-2071 17-2072	Electrical Engineers Electronics Engineers, Except Computer	Bachelor's degree	None	None None	\$40.28 \$46.00
17-2072	Environmental Engineers	Bachelor's degree Bachelor's degree	None None	None None	\$46.00
17-2111	Health and Safety Engineers, Ex. Mining Safety Engineers and Inspectors	Bachelor's degree	None	None	\$42.30
17-2112	Industrial Engineers	Bachelor's degree	None	None	\$38.79

17-2131 Materials Engineer		Typical Education Required for Entry	Work Experience in Related Occupation	Training to Obtain Competency	Hourly Wage May 2018
		Bachelor's degree	None	None	\$40.93
17-2141 Mechanical Engine 17-2151 Mining and Geolog	ers ical Engineers, Including Mining Safety Engineers	Bachelor's degree	None None	None None	\$37.24 \$40.75
17-2171 Petroleum Enginee		Bachelor's degree Bachelor's degree	None	None	\$39.79
17-2199 Engineers, All Othe	r	Bachelor's degree	None	None	\$42.97
17-3011 Architectural and C		Associate's degree	None	None	\$24.71
17-3012 Electrical and Elect 17-3013 Mechanical Drafter		Associate's degree Associate's degree	None None	None None	\$27.51 \$25.82
17-3019 Drafters, All Other	•	Associate's degree	None	None	\$24.97
	ring and Operations Technicians	Associate's degree	None	None	\$32.57
17-3022 Civil Engineering T 17-3023 Electrical and Elect	echnicians ronic Engineering Technicians	Associate's degree Associate's degree	None None	None None	\$27.75 \$29.59
17-3024 Electro-Mechanical		Associate's degree	None	None	\$27.03
17-3025 Environmental Eng	ineering Technicians	Associate's degree	None	None	\$22.02
17-3026 Industrial Engineer		Associate's degree	None	None	\$26.35
17-3027 Mechanical Engine 17-3029 Engineering Techn	icians, Except Drafters, All Other	Associate's degree Associate's degree	None None	None None	\$25.92 \$27.46
17-3031 Surveying and Map		High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.14
	ocial Science Occupations				\$28.99
19-1012 Food Scientists and 19-1013 Soil and Plant Scie		Bachelor's degree	None None	None None	\$32.93 \$26.59
19-1013 Soli and Flant Scie	itists	Bachelor's degree Bachelor's degree	None	None	\$30.02
19-1023 Zoologists and Wil	dlife Biologists	Bachelor's degree	None	None	\$27.37
19-1029 Biological Scientist		Bachelor's degree	None	None	\$32.02
19-1031 Conservation Scier 19-1032 Foresters	ITISTS	Bachelor's degree Bachelor's degree	None None	None None	\$25.37 \$28.40
19-1032 Foresters 19-1041 Epidemiologists		Master's degree	None	None	\$28.40 \$31.74
19-1042 Medical Scientists,	Except Epidemiologists	Doctoral or professional degree	None	None	\$32.62
19-2012 Physicists		Doctoral or professional degree	None	None	\$56.67
19-2031 Chemists 19-2032 Materials Scientists		Bachelor's degree Bachelor's degree	None None	None None	\$32.45 \$45.86
	entists and Specialists, Including Health	Bachelor's degree	None	None	\$36.00
19-2042 Geoscientists, Exce	pt Hydrologists and Geographers	Bachelor's degree	None	None	\$36.13
19-2043 Hydrologists 19-2099 Physical Scientists	All Other	Bachelor's degree	None	None	\$38.40 \$50.10
19-3011 Economists	All Other	Bachelor's degree Master's degree	None None	None None	\$52.31
19-3022 Survey Researcher	S	Master's degree	None	None	\$26.55
	g, and School Psychologists	Doctoral or professional degree	None	Internship/residency	\$35.06
19-3039 Psychologists, All ( 19-3051 Urban and Regional		Master's degree	None	Internship/residency	\$48.93
19-3051 Urban and Regional 19-3091 Anthropologists and		Master's degree Master's degree	None None	None None	\$32.00 \$28.45
	d Related Workers, All Other	Bachelor's degree	None	None	\$36.32
	od Science Technicians	Associate's degree	None	Moderate-term on-the-job training	\$19.02
19-4021 Biological Technici		Bachelor's degree	None	None	\$21.13
19-4031 Chemical Technicia 19-4061 Social Science Res		Associate's degree Bachelor's degree	None None	Moderate-term on-the-job training None	\$21.71 \$20.76
	ence and Protection Technicians, Including Health	Associate's degree	None	None	\$21.27
19-4092 Forensic Science T		Bachelor's degree	None	Moderate-term on-the-job training	\$30.97
19-4093 Forest and Conserv 19-4099 Life, Physical, and	ration Technicians Social Science Technicians, All Other	Associate's degree Associate's degree	None None	None None	\$19.51 \$24.98
	ial Service Occupations	Associate 3 degree	None	None	\$20.70
	nd Behavioral Disorder Counselors	Bachelor's degree	None	None	<b>A</b>
21-1012 Educational, Guida 21-1013 Marriage and Fami	nce, School, and Vocational Counselors	Master's degree	None	None Internship/residency	\$25.70 \$22.41
21-1013 Marriage and Famil	,	Master's degree Master's degree	None None	Internship/residency	\$22.41
21-1015 Rehabilitation Cour		Master's degree	None	None	\$16.58
21-1019 Counselors, All Oth		Master's degree	None	None	\$21.15
21-1021 Child, Family, and 3 21-1022 Healthcare Social V	School Social Workers	Bachelor's degree Master's degree	None None	None Internship/residency	\$20.54 \$25.74
	Substance Abuse Social Workers	Master's degree	None	Internship/residency	\$19.35
21-1029 Social Workers, All	Other	Bachelor's degree	None	None	\$23.68
21-1091 Health Educators	and Correctional Treatment Considiate	Bachelor's degree	None	None	\$26.21
21-1092 Probation Officers 21-1093 Social and Human	and Correctional Treatment Specialists Service Assistants	Bachelor's degree High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$23.64 \$15.55
21-1094 Community Health	Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$17.52
	cial Service Specialists, All Other	Bachelor's degree	None	None	\$19.59
21-2011 Clergy 21-2021 Directors, Religious	Activities and Education	Bachelor's degree Bachelor's degree	None Less than 5 years	Moderate-term on-the-job training None	\$21.62 \$21.10
21-2099 Religious Workers,		Bachelor's degree	None	None	\$13.35
23-0000 Legal Occupations					\$32.23
23-1011 Lawyers		Doctoral or professional degree	None	None	\$47.37
23-1012 Judicial Law Clerks 23-1021 Administrative Law	Judges, Adjudicators, and Hearing Officers	Doctoral or professional degree  Doctoral or professional degree	None 5 years or more	None Short-term on-the-job training	\$25.16 \$45.42
	ors, and Conciliators	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$28.02
23-1023 Judges, Magistrate	Judges, and Magistrates	Doctoral or professional degree	5 years or more	Short-term on-the-job training	\$37.05
23-2011 Paralegals and Leg 23-2091 Court Reporters	al Assistants	Associate's degree Postsecondary non-degree award	None None	None Short-term on-the-job training	\$21.79 \$24.23
	estractors, and Searchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.23 \$22.34
23-2099 Legal Support Wor	kers, All Other	Associate's degree	None	None	\$24.75
	and Library Occupations				\$25.13
25-1011 Business Teachers 25-1021 Computer Science	Postsecondary Teachers, Postsecondary	Doctoral or professional degree  Doctoral or professional degree	None None	None None	\$87,390 ** \$93,140 **
	nce Teachers, Postsecondary	Doctoral or professional degree	None	None	\$93,140 \$74,840 **
25-1031 Architecture Teach	ers, Postsecondary	Doctoral or professional degree	None	None	\$75,450 **
25-1032 Engineering Teach		Doctoral or professional degree	None	None	\$99,590 **
	Teachers, Postsecondary , Marine, and Space Sci. Teachers, Postsecondary	Doctoral or professional degree  Doctoral or professional degree	None None	None None	\$83,770 ** \$87,920 **
25-1051 Atmospheric, Earth 25-1052 Chemistry Teacher		Doctoral or professional degree  Doctoral or professional degree	None	None	\$87,920 ** \$81,120 **
25-1053 Environmental Scientification	ence Teachers, Postsecondary	Doctoral or professional degree	None	None	\$100,000 **
25-1054 Physics Teachers, I		Doctoral or professional degree	None	None	\$97,720 **
	Archeology Teachers, Postsecondary ultural Studies Teachers, Postsecondary	Doctoral or professional degree  Doctoral or professional degree	None None	None None	\$85,590 ** \$70,140 **
	rs, Postsecondary	Doctoral or professional degree  Doctoral or professional degree	None	None	\$70,140 \$99,920 **
25-1063 Economics reache		Doctoral or professional degree	None	None	\$88,960 **
25-1064 Geography Teache	rs, Fostsecondary				
25-1064 Geography Teache	achers, Postsecondary	Doctoral or professional degree Doctoral or professional degree	None None	None None	\$82,000 ** \$73,420 **

1979   Control Services Assessment Restrictions (1979)   Control Services Assessment Restrictions (1979)   Control Services (1979)   Control Servi	SOC Code	Occupational Title**	Typical Education Required for Entry	Commonly Required Work Experience in Related Occupation	Typical On-the-Job Training to Obtain Competency	Median Hourly Wage May 2018
19.00   19.0						\$80,210 **
1979						
Secretary	25-1072	Nursing Instructors and Teachers, Postsecondary	Doctoral or professional degree	Less than 5 years	None	\$69,530 **
19.111   1						
Section   Sect	25-1002	,				\$60,450 ***
20.000   1.000	25-1112			· · · · · · · · · · · · · · · · · · ·		\$111,140 **
\$1.152   Comparison Statement Professional						\$69,670
\$1.154   Single-Language and European Figures (**) processor of the Committee of the Comm	25-1122	Communications Teachers, Postsecondary	Doctoral or professional degree	None	None	\$61,160 **
15-126   Marco Technology						\$64,110 **
Stock   Annie Prenches American   Annie Prenches American   Annie Prenches American   Annie Prenches   Ann						\$75,590 **
2019    Contract of Education Technicals, Nature Control						\$66,040 **
Section   Sect						\$12.63
Section   Sect	25-2012					
Second						
Second Comment Institution Teachers Secondary School   Secondary	25-2023	Career/Technical Education Teachers, Middle School	Bachelor's degree			\$67,460 **
Section   Sect						
Secret Service Secret S	25-2051					\$63,950 **
Source   Sou						
Secolal Education Facebrary, All Other   Secolal Education Facebrary (April 1982)   Secolal Education Facebrary, Teachman and Instructions   Secolar Segure   None   None   123,258						
25   2017   Technical and International Authorities   Selective diagrams or equivalent   Learn throughout Authorities   Selective diagrams   Nove   Nove   Nove   Selective diagrams   Select	25-2059	Special Education Teachers, All Other	Bachelor's degree	None	None	\$37,450 **
Section   Sect						
Substitute Techness						
Materiar degingre	25-3098	Substitute Teachers	Bachelor's degree	None	None	\$13.55
25-001   Learner Segure						
Season   Instructional Coordinators   Season			Master's degree			
59.540   Education Training, and Unitary Workers, All Other   September   S						
27-2000   Arte, Designer, Entertainment, Sports, and Ankelor Designers   Separation of Separation   Separation of Separation   Separation of Separation   Sepa				,		\$25,950 **
27-1012   Carl Affants, Including Painters, Soulptons, and Illustrations   Section			Bachelor's degree	None	None	
27-1012   Fine Africate   No formal educational ordential   None   Long-term on-the-job training   \$11.75   27-1013   Fine Africate, Including Palmers, Sculptors, and Illustrators   Stachelor's degree   None   Long-term on-the-job training   \$17.56   27-1014   Multimodia Africas and Aministors   Stachelor's degree   None   None   None   None   \$25.71   27-1015   Pine African   None			Bachelor's degree	5 years or more	None	
27-1016	27-1012	Craft Artists				\$14.11
27-1072    Commercial and Industrial Designers   Sachebor's degree   None   None   S24.08						
Commercial and Industrial Designers     Bachelor's degree     None   None						
	27-1021	Commercial and Industrial Designers	Bachelor's degree	None	None	\$28.48
Interior Designers   None   None   S24.54						
Stand Exhibit Designers	27-1025					
Actors	27-1026					
27.2012   Producers and Directors   Bachelor's degree   None   \$28.57   27.2022   Cockes and Scouts   Bachelor's degree   None   None   \$28.58   27.2023   Umpires, Referees, and Other Sports Officials   High school diploma or equivalent   None   Moderate-term on-the-job training   \$21,730   27.2031   Dancers   Bachelor's degree   None   Moderate-term on-the-job training   \$21,730   27.2042   Music Directors and Composers   Bachelor's degree   None   None   Sports   27.2042   Music Directors and Composers   Normal educational credential   None   Sports   27.2042   Music Directors and Composers   Normal educational credential   None   Sports   27.2042   Music Directors and Composers   Normal educational credential   None   Sports   27.2042   Music Directors and Performers, Sports and Related Workers, All Other   No formal educational credential   None   Sports   27.2042   Music Directors and Performers, Sports and Related Workers, All Other   No formal educational credential   None   Sports   27.2042   Music Directors   None   None   Sports   27.2042   Music Directors   Sports   27.2042   Music Directors   Sports   27.2042   Music Directors   Sports   27.2043   Music Directors   Sports   27.2044   Editors   Sports   27.2045   Sports   Sports   27.2046   Editors   Sports   27.2046   Editors   Sports   27.2047   Public Relations Spoedalists   Sports   27.2048   Sports   Sports   27.2049   Editors   Sports   27.2049   Sports   Sports   27.2040   Editors   Sports   27.2040   Sports   Sports   Sports   27.2040   Sports   Sports   Sports   27.2040   Sports   Sports   Sports   27.2040   Sports   Sports   Sports   Sports   27.2040   Sports   Sports   Sports   Sports   Sports   Sports   27.2040   Sports   S						
Umpires, Referees, and Other Sports Officials   High school officians or equivalent   None   Moderate-term on-the-job training   \$21,780	27-2012		Bachelor's degree			\$25.57
Properties of the Composers   No formal educational ordential   None   Long-term on-the-job training   \$14,31			ÿ			
27-2041   Music Directors and Composers   Bachelor's degree   Less than 5 years   None   \$20.33	27-2023				, ,	
27.2099   Entertainers and Performers, Sports and Related Workers, All Other   No formal educational credential   None   Short-term on-the-job training   \$17.59					None	
27-3011   Radio and Television Announcers   Bachelor's degree   None   None   \$15.80						
Public Relations Specialists   Bachelor's degree   None   \$28.31	27-3011					
Editors   Bachelor's degree   Less than 5 years   None   \$25.22						
Technical Writers   Bachelor's degree   Less than 5 years   Short-term on-the-job training   \$29.75						
Interpreters and Translators   Bachelor's degree   None   None   S25.29	27-3042		Bachelor's degree	Less than 5 years		\$29.75
27-3099   Media and Communication Workers, All Other   High school diploma or equivalent   None   Short-term on-the-job training   \$21.56			ÿ			
Postsecondary non-degree award   None   Short-term on-the-job training   \$17.91	27-3091					
Postsecondary non-degree award   None   Short-term on-the-job training   \$21.74	27-4011	Audio and Video Equipment Technicians	Postsecondary non-degree award	None	Short-term on-the-job training	\$17.91
Photographers   High school diploma or equivalent   None   Long-term on-the-job training   \$14.39						
Film and Video Editors   Bachelor's degree   None   None   S24.81	27-4021	Photographers	High school diploma or equivalent	None	Long-term on-the-job training	\$14.39
Media and Communication Equipment Workers, All Other   High school diploma or equivalent   None   Short-term on-the-job training   \$25.27	27-4031					
29-000   Healthcare Practitioners and Technical Occupations   S29.34	27-4032					
Dentists, General   Dentists, General   Doctoral or professional degree   None   None   Sy0.57	29-0000	Healthcare Practitioners and Technical Occupations				\$29.34
29-1022 Oral and Maxillofacial Surgeons  Doctoral or professional degree None Internship/residency A 29-1023 Orthodontists Doctoral or professional degree None Internship/residency S57.54 29-1031 Dentists, All Other Specialists Doctoral or professional degree None Internship/residency S57.54 29-1031 Dietitians and Nutritionists Bachelor's degree None Internship/residency S57.48 29-1041 Optometrists Doctoral or professional degree None None None S58.03 Pharmacists Doctoral or professional degree None None None S58.04 29-1061 Anesthesiologists Doctoral or professional degree None Internship/residency A 29-1062 Family and General Practitioners Doctoral or professional degree None Internship/residency S90.63 Internists, General Doctoral or professional degree None Internship/residency S194,500 Doctoral or professional degree None Internship/residency A 29-1065 Pediatricians, General Doctoral or professional degree None Internship/residency S73.27 S92-1065 Surgeons Doctoral or professional degree None Internship/residency S73.27 Surgeons Doctoral or professional degree None Internship/residency S92.04 29-1067 Surgeons Doctoral or professional degree None Internship/residency S92.04 A 29-1069 Physicians and Surgeons, All Other Doctoral or professional degree None Internship/residency A 29-1071 Physician Assistants Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-1071 Physician Assistants Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-108	29-1011					
29-1023 Orthodontists Doctoral or professional degree None Internship/residency ▲ 29-1029 Dentists, All Other Specialists Doctoral or professional degree None Internship/residency \$57.54 29-1031 Dietitians and Nutritionists Bachelor's degree None Internship/residency \$27.48 29-1041 Optometrists Doctoral or professional degree None None None \$54.03 29-1051 Pharmacists Doctoral or professional degree None None None \$54.03 29-1051 Anesthesiologists Doctoral or professional degree None Internship/residency ▲ 29-1062 Family and General Practitioners Doctoral or professional degree None Internship/residency \$90.63 29-1063 Internists, General Doctoral or professional degree None Internship/residency \$194,500 29-1064 Obstetricians and Gynecologists Doctoral or professional degree None Internship/residency \$194,500 29-1065 Pediatricians, General Doctoral or professional degree None Internship/residency \$73.27 29-1065 Psychiatrists Doctoral or professional degree None Internship/residency \$73.27 29-1065 Psychiatrists Doctoral or professional degree None Internship/residency \$73.27 29-1066 Psychiatrists Doctoral or professional degree None Internship/residency \$92.04 29-1067 Surgeons Doctoral or professional degree None Internship/residency \$92.04 29-1069 Physicians and Surgeons, All Other Doctoral or professional degree None Internship/residency \$29-1067 Anset Surgeons Doctoral or professional degree None Internship/residency \$92.04 Apset Doctoral or professional degree None Internship/residency \$0.04 Apset Doctoral or professional degr	29-1021					
29-1031 Dietitians and Nutritionists  Bachelor's degree None None None None None None None No	29-1023	Orthodontists	Doctoral or professional degree	None	Internship/residency	<b>A</b>
29-1041   Optometrists   Optometrists   Optometrists   Optoral or professional degree   None   None   \$54.03						
29-1061 Anesthesiologists Doctoral or professional degree None Internship/residency ▲ 29-1062 Family and General Practitioners Doctoral or professional degree None Internship/residency \$90.63 29-1063 Internists, General Doctoral or professional degree None Internship/residency \$194,500 29-1064 Obstetricians and Gynecologists Doctoral or professional degree None Internship/residency ▲ 29-1065 Pediatricians, General Doctoral or professional degree None Internship/residency \$73.27 29-1065 Psychiatrists Doctoral or professional degree None Internship/residency \$73.27 29-1067 Surgeons Doctoral or professional degree None Internship/residency \$92.04 29-1069 Physicians and Surgeons, All Other Doctoral or professional degree None Internship/residency \$29-1069 Physician Assistants Master's degree None Internship/residency A 29-1081 Podiatrists Doctoral or professional degree None Internship/residency A 29-1081 Podiatrists None None None S50.94 29-1081 Podiatrists Doctoral or professional degree None Internship/residency \$30.94 29-1081 Podiatrists None None None S60.79	29-1041					\$54.03
29-1062   Family and General Practitioners   Doctoral or professional degree   None   Internship/residency   \$90.63	29-1051	Pharmacists	Doctoral or professional degree	None	None	\$58.54
29-1063   Internists, General   Doctoral or professional degree   None   Internship/residency   \$194,500						
29-1065     Pediatricians, General     Doctoral or professional degree     None     Internship/residency     \$73.27       29-1066     Psychiatrists     Doctoral or professional degree     None     Internship/residency     \$2.20       29-1067     Surgeons     Doctoral or professional degree     None     Internship/residency     ▲       29-1069     Physicians and Surgeons, All Other     Doctoral or professional degree     None     Internship/residency     ▲       29-1071     Physician Assistants     Master's degree     None     None     None       29-1081     Podiatrists     Doctoral or professional degree     None     Internship/residency     \$66.79	29-1063	Internists, General	Doctoral or professional degree			\$194,500 <sup>+</sup>
29-1066     Psychiatrists     Doctoral or professional degree     None     Internship/residency     \$92.04       29-1067     Surgeons     Doctoral or professional degree     None     Internship/residency     ▲       29-1069     Physicians and Surgeons, All Other     Doctoral or professional degree     None     Internship/residency     ▲       29-1071     Physician Assistants     Master's degree     None     None     \$50.94       29-1081     Podiatrists     Doctoral or professional degree     None     Internship/residency     \$66.79	29-1064					
29-1067     Surgeons     Doctoral or professional degree     None     Internship/residency     ▲       29-1089     Physicians and Surgeons, All Other     Doctoral or professional degree     None     Internship/residency     ▲       29-1071     Physician Assistants     Master's degree     None     None     None       29-1081     Podiatrists     Doctoral or professional degree     None     Internship/residency     \$66.79						\$73.27 \$92.04
29-1071         Physician Assistants         Master's degree         None         None         \$50.94           29-1081         Podiatrists         Doctoral or professional degree         None         Internship/residency         \$66.79	29-1067	Surgeons	Doctoral or professional degree	None	Internship/residency	<b>A</b>
29-1081 Podiatrists Doctoral or professional degree None Internship/residency \$66.79	29-1069					
	29-1122					\$40.54

SOC Code	Occupational Title**	Typical Education Required for Entry	Commonly Required Work Experience in Related Occupation	Typical On-the-Job Training to Obtain Competency	Median Hourly Wage May 2018
29-1123	Physical Therapists	Doctoral or professional degree	None	None	\$41.81
29-1124 29-1125	Radiation Therapists Recreational Therapists	Associate's degree Bachelor's degree	None None	None None	\$37.03 \$21.48
29-1126	Respiratory Therapists	Associate's degree	None	None	\$27.13
29-1127 29-1128	Speech-Language Pathologists Exercise Physiologists	Master's degree Bachelor's degree	None None	Internship/residency None	\$35.76 \$23.56
29-1129	Therapists, All Other	Bachelor's degree	None	None	\$32.75
29-1131 29-1141	Veterinarians Registered Nurses	Doctoral or professional degree Bachelor's degree	None None	None None	\$45.82 \$30.87
29-1151	Nurse Anesthetists	Master's degree	None	None	\$76.39
29-1161 29-1171	Nurse Midwives Nurse Practitioners	Master's degree Master's degree	None None	None None	\$49.62 \$48.56
29-1181	Audiologists	Doctoral or professional degree	None	None	\$34.07
29-1199 29-2011	Health Diagnosing and Treating Practitioners, All Other  Medical and Clinical Laboratory Technologists	Master's degree Bachelor's degree	None None	None None	\$38.73 <b>A</b>
29-2012	Medical and Clinical Laboratory Technicians	Associate's degree	None	None	<b>A</b>
29-2021 29-2031	Dental Hygienists Cardiovascular Technologists and Technicians	Associate's degree Associate's degree	None None	None None	\$33.24 \$26.15
29-2032	Diagnostic Medical Sonographers	Associate's degree	None	None	\$30.97
29-2033 29-2034	Nuclear Medicine Technologists Radiologic Technologists	Associate's degree Associate's degree	None None	None None	\$34.62 \$27.15
29-2034	Magnetic Resonance Imaging Technologists	Associate's degree	Less than 5 years	None	\$31.52
29-2041	Emergency Medical Technicians and Paramedics	Postsecondary non-degree award	None	None	\$14.52
29-2051 29-2052	Dietetic Technicians Pharmacy Technicians	Associate's degree High school diploma or equivalent	None None	None Moderate-term on-the-job training	\$12.69 \$14.09
29-2053	Psychiatric Technicians	Postsecondary non-degree award	Less than 5 years	Short-term on-the-job training	\$15.80
29-2055 29-2056	Surgical Technologists  Veterinary Technologists and Technicians	Postsecondary non-degree award Associate's degree	None None	None None	\$22.07 \$15.41
29-2057	Ophthalmic Medical Technicians	Postsecondary non-degree award	None	None	\$17.51
29-2061 29-2071	Licensed Practical and Licensed Vocational Nurses  Medical Records and Health Information Technicians	Postsecondary non-degree award Postsecondary non-degree award	None None	None None	\$20.81 \$19.14
29-2081	Opticians, Dispensing	High school diploma or equivalent	None	Long-term on-the-job training	\$19.16
29-2092 29-2099	Hearing Aid Specialists	High school diploma or equivalent	None	Moderate-term on-the-job training	\$26.20 \$18.92
29-2099	Health Technologists and Technicians, All Other  Occupational Health and Safety Specialists	Postsecondary non-degree award Bachelor's degree	None None	None None	\$35.06
29-9012	Occupational Health and Safety Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.74
29-9091 29-9092	Athletic Trainers Genetic Counselors	Bachelor's degree Master's degree	None None	None None	\$46,630 ** \$36.74
29-9099	Healthcare Practitioners and Technical Workers, All Other	Postsecondary non-degree award	None	None	\$30.42
<i>31-0000</i> 31-1011	Healthcare Support Occupations Home Health Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$12.80 \$10.67
31-1011	Psychiatric Aides	High school diploma or equivalent	None	Short-term on-the-job training	\$16.88
31-1014	Nursing Assistants	Postsecondary non-degree award	None	None	\$13.00
31-1015 31-2011	Orderlies Occupational Therapy Assistants	High school diploma or equivalent Associate's degree	None None	Short-term on-the-job training None	\$12.93 \$28.40
31-2021	Physical Therapist Assistants	Associate's degree	None	None	\$27.98
31-2022 31-9011	Physical Therapist Aides  Massage Therapists	High school diploma or equivalent Postsecondary non-degree award	None None	Short-term on-the-job training None	\$12.90 \$17.63
31-9091	Dental Assistants	Postsecondary non-degree award	None	None	\$17.77
31-9092 31-9093	Medical Assistants Medical Equipment Preparers	Postsecondary non-degree award High school diploma or equivalent	None None	None Moderate-term on-the-job training	\$15.23 \$16.36
31-9094	Medical Transcriptionists	Postsecondary non-degree award	None	None	\$17.93
31-9095 31-9096	Pharmacy Aides Veterinary Assistants and Laboratory Animal Caretakers	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$12.18 \$12.08
31-9097	Phlebotomists	Postsecondary non-degree award	None	None	\$16.29
31-9099	Healthcare Support Workers, All Other	High school diploma or equivalent	None	None	\$18.22
<i>33-0000</i> 33-1011	Protective Service Occupations  FL Supervisors of Correctional Officers	High school diploma or equivalent	Less than 5 years	None	\$19.47 \$32.03
33-1012	FL Supervisors of Police and Detectives	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$38.75
33-1021 33-1099	FL Supervisors of Fire Fighting and Prevention Workers FL Supervisors of Protective Service Workers, All Other	Postsecondary non-degree award High school diploma or equivalent	Less than 5 years Less than 5 years	Moderate-term on-the-job training None	\$34.15 \$17.09
33-2011	Firefighters	Postsecondary non-degree award	None	Long-term on-the-job training	\$22.07
33-3011 33-3012	Bailitts Correctional Officers and Jailers	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Moderate-term on-the-job training	\$21.97 \$22.49
33-3021	Detectives and Criminal Investigators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$32.68
33-3031 33-3041	Fish and Game Wardens Parking Enforcement Workers	Bachelor's degree High school diploma or equivalent	None None	Moderate-term on-the-job training Short-term on-the-job training	\$31.16 \$16.71
33-3051	Police and Sheriff's Patrol Officers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.32
33-3052 33-9011	Transit and Railroad Police	High school diploma or equivalent	None	Moderate-term on-the-job training	\$74,030 <sup>+</sup> \$17.16
33-9011	Animal Control Workers Private Detectives and Investigators	High school diploma or equivalent High school diploma or equivalent	None Less than 5 years	Moderate-term on-the-job training Moderate-term on-the-job training	\$17.16 \$18.31
33-9031	Gaming Surveillance Officers and Gaming Investigators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$26.97
33-9032 33-9091	Security Guards Crossing Guards	High school diploma or equivalent No formal educational credential	None None	Short-term on-the-job training Short-term on-the-job training	\$12.60 \$11.91
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service	No formal educational credential	None	Short-term on-the-job training	\$9.42
33-9093 33-9099	Transportation Security Screeners Protective Service Workers, All Other	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$18.94 \$14.07
35-0000	Food Preparation and Serving Related Occupations				\$9.64
35-1011 35-1012	Chefs and Head Cooks FL Supervisors of Food Preparation and Serving Workers	High school diploma or equivalent High school diploma or equivalent	5 years or more Less than 5 years	None None	\$19.36 \$14.43
35-2011	Cooks, Fast Food	No formal educational credential	None	Short-term on-the-job training	\$9.84
35-2012 35-2014	Cooks, Institution and Cafeteria Cooks, Restaurant	No formal educational credential  No formal educational credential	None Less than 5 years	Short-term on-the-job training Moderate-term on-the-job training	\$12.64 \$11.89
35-2014 35-2015	Cooks, Short Order	No formal educational credential	None	Short-term on-the-job training	\$11.89
35-2021	Food Preparation Workers	No formal educational credential	None	Short-term on-the-job training	\$10.11
35-3011 35-3021	Bartenders  Combined Food Preparation and Serving Workers, Including Fast Food	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training Short-term on-the-job training	\$9.27 \$9.31
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	No formal educational credential	None	Short-term on-the-job training	\$9.72
35-3031 35-3041	Waiters and Waitresses Food Servers, Nonrestaurant	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training Short-term on-the-job training	\$9.37 \$9.97
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	No formal educational credential	None	Short-term on-the-job training	\$9.40
35-9021 35-9031	Dishwashers  Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training Short-term on-the-job training	\$9.65 \$9.37
35-9031	Food Preparation and Serving Related Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$10.49
<i>37-0000</i>	Building and Grounds Cleaning and Maintenance Occupations	High school diploma ori	Loce than E years	None	\$12.20 \$19.58
37-1011	FL Supervisors of Housekeeping and Janitorial Workers	High school diploma or equivalent	Less than 5 years	None	\$19.58

SOC Code	Occupational Title**	Typical Education Required for Entry	Commonly Required Work Experience in Related Occupation	Typical On-the-Job Training to Obtain Competency	Median Hourly Wage May 2018
37-1012	FL Supervisors of Lndscp, Lawn Service, and Groundskeeping Workers	High school diploma or equivalent	Less than 5 years	None	\$21.50
37-2011 37-2012	Janitors and Cleaners, Except Maids and Housekeeping Cleaners  Maids and Housekeeping Cleaners	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training Short-term on-the-job training	\$12.03 \$10.47
37-2019	Building Cleaning Workers, All Other	No formal educational credential	None	Short-term on-the-job training	\$15.89
37-2021 37-3011	Pest Control Workers  Landscaping and Groundskeeping Workers	High school diploma or equivalent No formal educational credential	None None	Moderate-term on-the-job training Short-term on-the-job training	\$16.91 \$13.22
37-3011	Pesticide Handlers, Sprayers, and Applicators, Vegetation	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.39
37-3013	Tree Trimmers and Pruners	High school diploma or equivalent	None	Short-term on-the-job training	\$18.58
37-3019 <i>39-0000</i>	Grounds Maintenance Workers, All Other  Personal Care and Service Occupations	No formal educational credential	None	Short-term on-the-job training	\$15.85 \$10.90
39-1011	Gaming Supervisors	High school diploma or equivalent	Less than 5 years	None	<b>A</b>
39-1012	Slot Supervisors	High school diploma or equivalent	Less than 5 years	None	<b>A</b>
39-1021 39-2011	FL Supervisors of Personal Service Workers Animal Trainers	High school diploma or equivalent High school diploma or equivalent	Less than 5 years None	None Moderate-term on-the-job training	\$16.93 \$11.40
39-2021	Nonfarm Animal Caretakers	High school diploma or equivalent	None	Short-term on-the-job training	\$10.19
39-3012 39-3031	Gaming and Sports Book Writers and Runners Ushers, Lobby Attendants, and Ticket Takers	High school diploma or equivalent  No formal educational credential	None None	Short-term on-the-job training Short-term on-the-job training	\$11.56 \$9.30
39-3091	Amusement and Recreation Attendants	No formal educational credential	None	Short-term on-the-job training	\$9.34
39-3092	Costume Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$16.95
39-3093 39-4021	Locker Room, Coatroom, and Dressing Room Attendants Funeral Attendants	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$9.75 \$12.65
39-5012	Hairdressers, Hairstylists, and Cosmetologists	Postsecondary non-degree award	None	None	\$10.73
39-5092	Manicurists and Pedicurists	Postsecondary non-degree award	None	None	\$11.80
39-5093 39-5094	Shampooers Skincare Specialists	No formal educational credential  Postsecondary non-degree award	None None	Short-term on-the-job training None	\$9.41 \$14.61
39-6011	Baggage Porters and Bellhops	High school diploma or equivalent	None	Short-term on-the-job training	\$9.50
39-6012	Concierges	High school diploma or equivalent	None	Moderate-term on-the-job training	\$11.64
39-9011 39-9021	Childcare Workers Personal Care Aides	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$10.01 \$10.94
39-9031	Fitness Trainers and Aerobics Instructors	High school diploma or equivalent	None	Short-term on-the-job training	\$12.77
39-9032 39-9041	Recreation Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.14 \$13.04
39-9041	Residential Advisors Personal Care and Service Workers, All Other	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$13.04
41-0000	Sales and Related Occupations				\$12.99
41-1011 41-1012	FL Supervisors of Retail Sales Workers	High school diploma or equivalent	Less than 5 years	None None	\$18.34 \$33.50
41-1012	FL Supervisors of Non-Retail Sales Workers Cashiers	High school diploma or equivalent  No formal educational credential	Less than 5 years None	Short-term on-the-job training	\$33.50
41-2012	Gaming Change Persons and Booth Cashiers	No formal educational credential	None	Short-term on-the-job training	\$11.51
41-2021 41-2022	Counter and Rental Clerks Parts Salespersons	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training	\$11.81 \$13.54
41-2022	Retail Salespersons	No formal educational credential	None	Moderate-term on-the-job training Short-term on-the-job training	\$13.54
41-3011	Advertising Sales Agents	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.37
41-3021 41-3031	Insurance Sales Agents	High school diploma or equivalent	None None	Moderate-term on-the-job training Moderate-term on-the-job training	\$22.94 \$27.71
41-3031	Securities, Commodities, and Financial Services Sales Agents Travel Agents	Bachelor's degree High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.00
41-3099	Sales Representatives, Services, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.40
41-4011 41-4012	Sales Reps, Wholesale and Manufacturing, Tech and Scientific Products  Sales Reps, Wholesale and Manufacturing, Ex. Tech and Scientific Products	Bachelor's degree High school diploma or equivalent	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$36.27 \$27.60
41-9011	Demonstrators and Product Promoters	No formal educational credential	None	Short-term on-the-job training	\$11.81
41-9021	Real Estate Brokers	High school diploma or equivalent	Less than 5 years	None	\$27.10
41-9022 41-9031	Real Estate Sales Agents Sales Engineers	High school diploma or equivalent Bachelor's degree	None None	Moderate-term on-the-job training Moderate-term on-the-job training	\$16.92 \$41.71
41-9041	Telemarketers	No formal educational credential	None	Short-term on-the-job training	\$11.38
41-9091	Door-to-Door Sales Workers, News and Street Vendors, and Related Workers	No formal educational credential	None	Short-term on-the-job training	\$12.38
41-9099 <i>43-0000</i>	Sales and Related Workers, All Other  Office and Administrative Support Occupations	High school diploma or equivalent	None	None	\$13.98 \$16.73
43-1011	FL Supervisors of Office and Administrative Support Workers	High school diploma or equivalent	Less than 5 years	None	\$25.93
43-2011	Switchboard Operators, Including Answering Service	High school diploma or equivalent	None	Short-term on-the-job training	\$13.32
43-2021 43-3011	Telephone Operators Bill and Account Collectors	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Moderate-term on-the-job training	\$16.66 \$16.51
43-3021	Billing and Posting Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.62
43-3031	Bookkeeping, Accounting, and Auditing Clerks	Some college, no degree	None	Moderate-term on-the-job training	\$18.50 \$12.11
43-3041	Payroll and Timekeeping Clerks	High school diploma or equivalent High school diploma or equivalent	None	Moderate-term on-the-job training	\$13.11 \$21.05
43-3061	Procurement Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.87
43-3071 43-3099	Tellers Financial Clerks, All Other	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$13.63 \$18.64
43-4011	Brokerage Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.39
43-4021	Correspondence Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$15.86
43-4031 43-4041	Court, Municipal, and License Clerks Credit Authorizers, Checkers, and Clerks	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$17.43 \$18.36
43-4051	Customer Service Representatives	High school diploma or equivalent	None	Short-term on-the-job training	\$16.18
43-4061	Eligibility Interviewers, Government Programs	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.52
43-4071 43-4081	File Clerks Hotel, Motel, and Resort Desk Clerks	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$16.25 \$10.30
43-4111	Interviewers, Except Eligibility and Loan	High school diploma or equivalent	None	Short-term on-the-job training	\$15.09
43-4121	Library Assistants, Clerical	High school diploma or equivalent	None	Short-term on-the-job training	\$11.88
43-4131 43-4141	Loan Interviewers and Clerks New Accounts Clerks	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Moderate-term on-the-job training	\$18.07 \$16.63
43-4151	Order Clerks	High school diploma or equivalent	None	Short-term on-the-job training	\$15.01
43-4161 43-4171	Human Resources Assistants, Except Payroll and Timekeeping Receptionists and Information Clerks	Associate's degree High school diploma or equivalent	None None	None Short-term on-the-job training	\$18.62 \$12.80
43-4171	Reservation and Transportation Ticket Agents and Travel Clerks	High school diploma or equivalent	None	Short-term on-the-job training  Short-term on-the-job training	\$12.80
43-4199	Information and Record Clerks, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$20.15
43-5011 43-5021	Cargo and Freight Agents Couriers and Messengers	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$19.43 \$13.18
43-5021	Police, Fire, and Ambulance Dispatchers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.40
43-5032	Dispatchers, Except Police, Fire, and Ambulance	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.71
43-5041 43-5051	Meter Readers, Utilities Postal Service Clerks	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$21.48 \$22.84
43-5051	Postal Service Clerks Postal Service Mail Carriers	High school diploma or equivalent	None	Short-term on-the-job training	\$25.10
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	High school diploma or equivalent	None	Short-term on-the-job training	\$28.25
43-5061 43-5071	Production, Planning, and Expediting Clerks Shipping, Receiving, and Traffic Clerks	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Short-term on-the-job training	\$22.48 \$15.68
43-5081	Stock Clerks and Order Fillers	High school diploma or equivalent	None	Short-term on-the-job training	\$11.96
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	High school diploma or equivalent	None	Short-term on-the-job training	\$16.26

SOC Code	Occupational Title**	Typical Education Required for Entry	Commonly Required Work Experience in Related Occupation	Typical On-the-Job Training to Obtain Competency	Median Hourly Wage May 2018
43-6011	Executive Secretaries and Executive Administrative Assistants	High school diploma or equivalent	Less than 5 years	None	\$26.99
43-6012 43-6013	Legal Secretaries	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.58 \$16.30
43-6014	Medical Secretaries Secretaries and Administrative Assistants, Ex. Legal, Medical, and Executive	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Short-term on-the-job training	\$17.09
43-9011	Computer Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.51
43-9021 43-9022	Data Entry Keyers Word Processors and Typists	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$14.81 \$18.64
43-9041	Insurance Claims and Policy Processing Clerks	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.43
43-9051 43-9061	Mail Clerks and Mail Machine Operators, Except Postal Service	High school diploma or equivalent	None	Short-term on-the-job training	\$14.79 \$15.74
43-9071	Office Clerks, General Office Machine Operators, Except Computer	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$14.66
43-9111	Statistical Assistants	Bachelor's degree	None	None	\$21.11
43-9199 <i>45-0000</i>	Office and Administrative Support Workers, All Other Farming, Fishing, and Forestry Occupations	High school diploma or equivalent	None	Short-term on-the-job training	\$18.71 \$13.85
45-1011	FL Supervisors of Farming, Fishing, and Forestry Workers	High school diploma or equivalent	Less than 5 years	None	\$26.49
45-2011	Agricultural Inspectors	Bachelor's degree	None	Moderate-term on-the-job training	\$22.22
45-2041 45-2091	Graders and Sorters, Agricultural Products Agricultural Equipment Operators	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training Moderate-term on-the-job training	\$11.12 \$17.50
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	No formal educational credential	None	Short-term on-the-job training	\$11.15
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	No formal educational credential	None	Short-term on-the-job training	\$13.74
45-4021 45-4022	Fallers Logging Equipment Operators	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Moderate-term on-the-job training	\$11.91 \$15.04
47-0000	Construction and Extraction Occupations			g	\$23.14
47-1011	Supervisors of Construction and Extraction Workers	High school diploma or equivalent	5 years or more	None	\$31.10
47-2011 47-2021	Boilermakers Brickmasons and Blockmasons	High school diploma or equivalent High school diploma or equivalent	None None	Apprenticeship Apprenticeship	\$35.12 \$26.63
47-2031	Carpenters	High school diploma or equivalent	None	Apprenticeship	\$22.23
47-2041 47-2042	Carpet Installers Floor Layers, Except Carpet, Wood, and Hard Tiles	No formal educational credential	None	Short-term on-the-job training	\$16.84 \$19.94
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles Tile and Marble Setters	No formal educational credential  No formal educational credential	None None	Moderate-term on-the-job training Long-term on-the-job training	\$19.94 \$20.51
47-2051	Cement Masons and Concrete Finishers	No formal educational credential	None	Moderate-term on-the-job training	\$22.25
47-2061 47-2071	Construction Laborers  Paying Surfacing and Tamping Equipment Operators	No formal educational credential High school diploma or equivalent	None None	Short-term on-the-job training Moderate-term on-the-job training	\$19.22 \$23.05
47-2071	Paving, Surfacing, and Tamping Equipment Operators  Operating Engineers and Other Construction Equipment Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$25.51
47-2081	Drywall and Ceiling Tile Installers	No formal educational credential	None	Moderate-term on-the-job training	\$20.02
47-2082 47-2111	Tapers	No formal educational credential	None	Moderate-term on-the-job training	\$30.17 \$25.08
47-2111	Electricians Glaziers	High school diploma or equivalent High school diploma or equivalent	None None	Apprenticeship Apprenticeship	\$20.53
47-2131	Insulation Workers, Floor, Ceiling, and Wall	No formal educational credential	None	Short-term on-the-job training	\$18.66
47-2132 47-2141	Insulation Workers, Mechanical Painters, Construction and Maintenance	High school diploma or equivalent	None	Apprenticeship  Moderate-term on-the-job training	\$27.63 \$19.36
47-2141	Paperhangers	No formal educational credential  No formal educational credential	None None	Long-term on-the-job training	\$18.74
47-2151	Pipelayers	No formal educational credential	None	Short-term on-the-job training	\$22.75
47-2152 47-2161	Plumbers, Pipefitters, and Steamfitters Plasterers and Stucco Masons	High school diploma or equivalent	None	Apprenticeship	\$26.60 \$22.76
47-2101	Reinforcing Iron and Rebar Workers	No formal educational credential High school diploma or equivalent	None None	Long-term on-the-job training Apprenticeship	\$22.76
47-2181	Roofers	No formal educational credential	None	Moderate-term on-the-job training	\$18.65
47-2211 47-2221	Sheet Metal Workers Structural Iron and Steel Workers	High school diploma or equivalent High school diploma or equivalent	None None	Apprenticeship Apprenticeship	\$26.19 \$29.02
47-3011	HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	No formal educational credential	None	Short-term on-the-job training	\$17.93
47-3012	HelpersCarpenters	No formal educational credential	None	Short-term on-the-job training	\$14.14
47-3013 47-3015	HelpersElectricians HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters	High school diploma or equivalent High school diploma or equivalent	None None	Short-term on-the-job training Short-term on-the-job training	\$13.76 \$14.66
47-3019	Helpers, Construction Trades, All Other	No formal educational credential	None	Short-term on-the-job training	\$14.29
47-4011	Construction and Building Inspectors	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training	\$27.89
47-4021 47-4031	Elevator Installers and Repairers Fence Erectors	High school diploma or equivalent No formal educational credential	None None	Apprenticeship  Moderate-term on-the-job training	\$36.38 \$18.06
47-4041	Hazardous Materials Removal Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.20
47-4051	Highway Maintenance Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.80
47-4071 47-4099	Septic Tank Servicers and Sewer Pipe Cleaners  Construction and Related Workers, All Other	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Moderate-term on-the-job training	\$20.46 <b>A</b>
47-5012	Rotary Drill Operators, Oil and Gas	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.79
47-5013	Service Unit Operators, Oil, Gas, and Mining	No formal educational credential	None	Moderate-term on-the-job training	\$23.72
47-5021 47-5041	Earth Drillers, Except Oil and Gas Continuous Mining Machine Operators	High school diploma or equivalent No formal educational credential	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$20.71 \$54,520 <sup>+</sup>
47-5042	Mine Cutting and Channeling Machine Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.11
47-5051	Rock Splitters, Quarry	No formal educational credential	None	Short-term on-the-job training	\$16.15
47-5071 47-5081	Roustabouts, Oil and Gas HelpersExtraction Workers	No formal educational credential High school diploma or equivalent	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$17.13 \$17.70
49-0000	Installation, Maintenance, and Repair Occupations				\$21.37
49-1011	FL Supervisors of Mechanics, Installers, and Repairers Computer, Automated Teller, and Office Machine Repairers	High school diploma or equivalent	Less than 5 years	None Short-term on-the-job training	\$30.38 \$15.08
49-2011 49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	Some college, no degree Associate's degree	None None	Moderate-term on-the-job training	\$15.98 \$25.97
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$24.61
49-2091 49-2092	Avionics Technicians Electric Motor, Power Tool, and Related Repairers	Associate's degree	None Less than 5 years	None Moderate-term on-the-job training	\$24.07 \$21.00
49-2092	Electric Motor, Power 1001, and Related Repairers  Electrical and Electronics Installers and Repairers, Transportation Equipment	High school diploma or equivalent Postsecondary non-degree award	None	Long-term on-the-job training	\$21.00
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	Postsecondary non-degree award	None	Long-term on-the-job training	\$27.76
49-2095 49-2096	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay  Electronic Equipment Installers and Repairers, Motor Vehicles	Postsecondary non-degree award High school diploma or equivalent	Less than 5 years None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$35.65 \$17.23
49-2096	Electronic Equipment Installers and Repairers, Motor Venicles  Electronic Home Entertainment Equipment Installers and Repairers	Postsecondary non-degree award	None	Short-term on-the-job training	\$17.23
49-2098	Security and Fire Alarm Systems Installers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.51
49-3011 49-3021	Aircraft Mechanics and Service Technicians Automotive Body and Related Repairers	Postsecondary non-degree award High school diploma or equivalent	None None	None Long-term on-the-job training	\$28.69 \$18.55
49-3021	Automotive Glass Installers and Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.90
49-3023	Automotive Service Technicians and Mechanics	Postsecondary non-degree award	None	Short-term on-the-job training	\$18.09
49-3031 49-3041	Bus and Truck Mechanics and Diesel Engine Specialists  Farm Equipment Mechanics and Service Technicians	High school diploma or equivalent High school diploma or equivalent	None None	Long-term on-the-job training  Long-term on-the-job training	\$22.28 \$18.90
49-3041	Mobile Heavy Equipment Mechanics, Except Engines	High school diploma or equivalent	None	Long-term on-the-job training	\$26.27
49-3043	Rail Car Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$22.41
49-3051 49-3052	Motorboat Mechanics and Service Technicians  Motorcycle Mechanics	High school diploma or equivalent Postsecondary non-degree award	None None	Long-term on-the-job training Short-term on-the-job training	\$17.82 \$17.04
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.65
49-3091	Bicycle Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$12.71
49-3092 49-3093	Recreational Vehicle Service Technicians Tire Repairers and Changers	High school diploma or equivalent High school diploma or equivalent	None None	Long-term on-the-job training Short-term on-the-job training	\$16.86 \$12.66
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SOC Code	Occupational Title**	Typical Education Required for Entry	Commonly Required Work Experience in Related Occupation	Typical On-the-Job Training to Obtain Competency	Median Hourly Wage May 2018
49-9011	Mechanical Door Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$20.06
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	High school diploma or equivalent	None	Moderate-term on-the-job training	\$32.21
49-9021 49-9031	Heating, Air Conditioning, and Refrigeration Mechanics and Installers  Home Appliance Repairers	Postsecondary non-degree award High school diploma or equivalent	None None	Long-term on-the-job training Moderate-term on-the-job training	\$22.54 \$17.31
49-9041	Industrial Machinery Mechanics	High school diploma or equivalent	None	Long-term on-the-job training	\$24.83
49-9043	Maintenance Workers, Machinery	High school diploma or equivalent	None	Long-term on-the-job training	\$22.00
49-9044	Millwrights	High school diploma or equivalent	None	Apprenticeship	\$28.37
49-9051	Electrical Power-Line Installers and Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$33.88
49-9052 49-9062	Telecommunications Line Installers and Repairers  Medical Equipment Repairers	High school diploma or equivalent Associate's degree	None None	Long-term on-the-job training Moderate-term on-the-job training	\$20.08 \$22.53
49-9063	Musical Instrument Repairers and Tuners	High school diploma or equivalent	None	Apprenticeship	\$14.72
49-9064	Watch Repairers	High school diploma or equivalent	None	Long-term on-the-job training	\$17.99
49-9069	Precision Instrument and Equipment Repairers, All Other	High school diploma or equivalent	None	Long-term on-the-job training	\$27.41
49-9071	Maintenance and Repair Workers, General	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.15
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	High school diploma or equivalent	None	Short-term on-the-job training	\$16.79
49-9094 49-9095	Locksmiths and Safe Repairers  Manufactured Building and Mobile Home Installers	High school diploma or equivalent High school diploma or equivalent	None None	Long-term on-the-job training Short-term on-the-job training	\$18.85 \$16.23
49-9096	Riggers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$21.12
49-9098	HelpersInstallation, Maintenance, and Repair Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$13.76
49-9099	Installation, Maintenance, and Repair Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.48
51-0000	Production Occupations				\$17.28
51-1011 51-2011	FL Supervisors of Production and Operating Workers	High school diploma or equivalent	Less than 5 years	None	\$28.70 \$20.40
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers Coil Winders, Tapers, and Finishers	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Moderate-term on-the-job training	\$18.13
51-2022	Electrical and Electronic Equipment Assemblers	High school diploma or equivalent	None	Moderate-term on-the-job training	<b>↓</b> 10.15
51-2023	Electromechanical Equipment Assemblers	High school diploma or equivalent	None	Moderate-term on-the-job training	<b>A</b>
51-2031	Engine and Other Machine Assemblers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.73
51-2041	Structural Metal Fabricators and Fitters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.28
51-2091 51-2092	Fiberglass Laminators and Fabricators Team Assemblers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.01
51-2092	Assemblers and Fabricators, All Other	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Moderate-term on-the-job training	<b>A</b>
51-3011	Bakers	No formal educational credential	None	Long-term on-the-job training	\$12.37
51-3021	Butchers and Meat Cutters	No formal educational credential	None	Long-term on-the-job training	\$16.90
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	No formal educational credential	None	Short-term on-the-job training	\$13.58
51-3023	Slaughterers and Meat Packers	No formal educational credential	None	Short-term on-the-job training	\$13.00
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	No formal educational credential	None	Moderate-term on-the-job training	\$16.46
51-3092 51-3093	Food Batchmakers Food Cooking Machine Operators and Tenders	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$15.83 \$16.59
51-3099	Food Processing Workers, All Other	No formal educational credential	None	Moderate term on the job training	\$12.10
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.42
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	Postsecondary non-degree award	None	Moderate-term on-the-job training	\$23.57
51-4021	Extruding and Drawing Machine S/O/T, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.24
51-4022 51-4023	Forging Machine Setters, Operators, and Tenders, Metal and Plastic Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$18.74 \$19.03
51-4023	Cutting, Punching, and Press Machine S/O/T, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.31
51-4032	Drilling and Boring Machine Tool S/O/T, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.85
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool S/O/T, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.01
51-4034	Lathe and Turning Machine Tool S/O/T, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.79
51-4035	Milling and Planing Machine S/O/T, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$22.47
51-4041 51-4051	Machinists Metal-Refining Furnace Operators and Tenders	High school diploma or equivalent High school diploma or equivalent	None None	Long-term on-the-job training Moderate-term on-the-job training	\$19.90 \$17.03
51-4052	Pourers and Casters, Metal	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.40
51-4061	Model Makers, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$27.05
51-4062	Patternmakers, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.62
51-4071	Foundry Mold and Coremakers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.53
51-4072 51-4081	Molding, Coremaking, and Casting Machine S/O/T, Metal and Plastic  Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$14.35 \$16.72
51-4111	Tool and Die Makers	Postsecondary non-degree award	None	Long-term on-the-job training	\$23.96
51-4121	Welders, Cutters, Solderers, and Brazers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.94
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.38
51-4191	Heat Treating Equipment S/O/T, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.30
51-4192	Layout Workers, Metal and Plastic	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.12
51-4193 51-4194	Plating and Coating Machine S/O/T, Metal and Plastic Tool Grinders, Filers, and Sharpeners	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$15.77 \$18.12
51-4199	Metal Workers and Plastic Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.36
51-5111	Prepress Technician and Workers	Postsecondary non-degree award	None	None	\$19.19
51-5112	Printing Press Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.18
51-5113	Print Binding and Finishing Workers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.49
51-6011 51-6021	Laundry and Dry-Cleaning Workers  Pressers, Textile, Garment, and Related Materials	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training Short-term on-the-job training	\$10.35 \$11.12
51-6021	Sewing Machine Operators	No formal educational credential	None	Short-term on-the-job training	\$11.12
51-6041	Shoe and Leather Workers and Repairers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$12.07
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.45
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Short-term on-the-job training	\$13.40
51-6091	Extruding and Forming Machine S/O/T, Synthetic and Glass Fibers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.24
51-6093 51-6099	Upholsterers Textile, Apparel, and Furnishings Workers, All Other	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training Short-term on-the-job training	\$15.42 \$15.43
51-7011	Cabinetmakers and Bench Carpenters	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.91
51-7021	Furniture Finishers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.73
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.87
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.76
51-8012	Power Plant Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$40.65 \$25.22
51-8013 51-8021	Power Plant Operators Stationary Engineers and Boiler Operators	High school diploma or equivalent High school diploma or equivalent	None None	Long-term on-the-job training  Long-term on-the-job training	\$35.22 \$27.67
51-8021	Water and Wastewater Treatment Plant and System Operators	High school diploma or equivalent	None	Long-term on-the-job training	\$23.66
51-8091	Chemical Plant and System Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$29.59
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$32.10
51-8099	Plant and System Operators, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$25.80
51-9011 51-9012	Chemical Equipment Operators and Tenders  Separating, Filtering, Clarifying, Precipitating, and Still Machine S/O/T	High school diploma or equivalent	None	Moderate-term on-the-job training  Moderate-term on-the-job training	\$22.79 \$19.94
51-9012	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training	\$19.94 \$17.38
51-9022	Grinding and Polishing Workers, Hand	No formal educational credential	None	Moderate-term on-the-job training	\$13.27
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.91
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.10
51-9041	Extruding, Forming, Pressing, and Compacting Machine S/O/T	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.67

SOC Code	Occupational Title**	Typical Education Required for Entry	Commonly Required Work Experience in Related Occupation	Typical On-the-Job Training to Obtain Competency	Median Hourly Wage May 2018
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.68
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.51
51-9071	Jewelers and Precious Stone and Metal Workers	High school diploma or equivalent	None	Long-term on-the-job training	\$17.39
51-9081	Dental Laboratory Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.50
51-9082	Medical Appliance Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$17.41
51-9083	Ophthalmic Laboratory Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.86
51-9111	Packaging and Filling Machine Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$14.94
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.96
51-9122	Painters, Transportation Equipment	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.46
51-9141 51-9151	Semiconductor Processors Photographic Process Workers and Processing Machine Operators	High school diploma or equivalent High school diploma or equivalent	None None	Moderate-term on-the-job training	\$18.27 \$14.14
51-9191	Adhesive Bonding Machine Operators and Tenders	High school diploma or equivalent	None	Short-term on-the-job training Moderate-term on-the-job training	\$14.14
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.02
51-9193	Cooling and Freezing Equipment Operators and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$10.02
51-9194	Etchers and Engravers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$16.39
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	High school diploma or equivalent	None	Long-term on-the-job training	\$16.46
51-9196	Paper Goods Machine Setters, Operators, and Tenders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$19.31
51-9197	Tire Builders	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.67
51-9198	HelpersProduction Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.41
51-9199	Production Workers, All Other	High school diploma or equivalent	None	Moderate-term on-the-job training	\$15.58
53-0000	Transportation and Material Moving Occupations			, , , , , , , , , , , , , , , , , , , ,	\$15.13
53-1021	FL Supervisors of Helpers, Laborers, and Material Movers, Hand	High school diploma or equivalent	Less than 5 years	None	<b>A</b>
53-1031	FL Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	High school diploma or equivalent	Less than 5 years	None	<b>A</b>
53-2011	Airline Pilots, Copilots, and Flight Engineers	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training	\$102,010 **
53-2012	Commercial Pilots	High school diploma or equivalent	None	Moderate-term on-the-job training	\$81,050 **
53-2021	Air Traffic Controllers	Associate's degree	None	Long-term on-the-job training	\$67.29
53-2022	Airfield Operations Specialists	High school diploma or equivalent	None	Long-term on-the-job training	\$19.47
53-2031	Flight Attendants	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$58,230 **
53-3011	Ambulance Drivers and Attendants, Ex. Emergency Medical Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$12.12
53-3021	Bus Drivers, Transit and Intercity	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.45
53-3022	Bus Drivers, School or Special Client	High school diploma or equivalent	None	Short-term on-the-job training	\$14.18
53-3031	Driver/Sales Workers	High school diploma or equivalent	None	Short-term on-the-job training	\$9.59
53-3032	Heavy and Tractor-Trailer Truck Drivers	Postsecondary non-degree award	None	Short-term on-the-job training	\$20.66
53-3033	Light Truck or Delivery Services Drivers	High school diploma or equivalent	None	Short-term on-the-job training	\$14.32
53-3041	Taxi Drivers and Chauffeurs	No formal educational credential	None	Short-term on-the-job training	\$10.99
53-3099 53-4013	Motor Vehicle Operators, All Other Rail Yard Engineers, Dinkey Operators, and Hostlers	No formal educational credential  High school diploma or equivalent	None None	Short-term on-the-job training  Moderate-term on-the-job training	\$11.16 \$27.62
53-4013	Railroad Brake, Signal, and Switch Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$27.02
53-4021	Sailors and Marine Oilers	No formal educational credential	None	Moderate-term on-the-job training	\$18.23
53-5011	Captains, Mates, and Pilots of Water Vessels	Postsecondary non-degree award	Less than 5 years	None	\$22.30
53-6011	Bridge and Lock Tenders	High school diploma or equivalent	None	Short-term on-the-job training	\$26.18
53-6021	Parking Lot Attendants	No formal educational credential	None	Short-term on-the-job training	\$10.12
53-6031	Automotive and Watercraft Service Attendants	No formal educational credential	None	Short-term on-the-job training	\$11.20
53-6041	Traffic Technicians	High school diploma or equivalent	None	Moderate-term on-the-job training	\$24.26
53-6051	Transportation Inspectors	High school diploma or equivalent	None	Moderate-term on-the-job training	\$23.65
53-6061	Transportation Attendants, Except Flight Attendants	High school diploma or equivalent	None	Short-term on-the-job training	\$12.99
53-6099	Transportation Workers, All Other	High school diploma or equivalent	None	Short-term on-the-job training	\$16.63
53-7011	Conveyor Operators and Tenders	No formal educational credential	None	Short-term on-the-job training	\$15.43
53-7021	Crane and Tower Operators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$21.17
53-7032	Excavating and Loading Machine and Dragline Operators	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$20.47
53-7041	Hoist and Winch Operators	No formal educational credential	None	Short-term on-the-job training	\$17.73
53-7051	Industrial Truck and Tractor Operators	No formal educational credential	None	Short-term on-the-job training	\$16.29
53-7061	Cleaners of Vehicles and Equipment	No formal educational credential	None	Short-term on-the-job training	\$11.20
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	No formal educational credential	None	Short-term on-the-job training	\$13.67
53-7063	Machine Feeders and Offbearers	No formal educational credential	None	Short-term on-the-job training	\$15.00
53-7064	Packers and Packagers, Hand	No formal educational credential	None	Short-term on-the-job training	\$11.82
53-7071	Gas Compressor and Gas Pumping Station Operators	High school diploma or equivalent	None	Moderate-term on-the-job training	\$35.15
53-7072	Pump Operators, Except Wellhead Pumpers	High school diploma or equivalent	None	Moderate-term on-the-job training	\$18.66
53-7073	Wellhead Pumpers	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training	\$18.77
53-7081	Refuse and Recyclable Material Collectors	No formal educational credential	None	Short-term on-the-job training	\$17.94
53-7121	Tank Car, Truck, and Ship Loaders	No formal educational credential  No formal educational credential	None None	Short-term on-the-job training	\$15.93 \$12.49
53-7199	Material Moving Workers, All Other	No ionnai educationai credentiai	INOTIC	Short-term on-the-job training	\$12.43

\* Occupations with 100 or more workers.

\*\* Title Abbreviations
FL = FirstLine
S/O/T = Setters, Operators and Tenders
Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, May 2019.

<sup>▲</sup> Wage data unavailable OES consolidated these occupations in 2018. + National Wage ++ Annual Wage

Ohio Department of Job and Family Services Office of Workforce Development P.O. Box 1618 Columbus, OH 43216-1618



# Bureau of Labor Market Information Business Principles for Workforce Development

- Partner with the workforce and economic development community.
- Develop and deploy new information solution tools and systems for the workforce and economic development community.
- Provide products and services that are customer- and demand-driven.
- Be known as an important and reliable source for information solutions that support workforce development goals and outcomes.

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