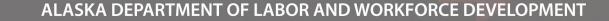
90 Nonresidents Working in Alaska





Department of Labor and Workforce Development

Office of the Commissioner Post Office Box 111149 Juneau, Alaska 99811 Main: 907.465.2700 Fax: 907.465.2784

February 1, 2018

The Honorable Bill Walker Governor of Alaska P.O. Box 110001 Juneau, Alaska 99811-0001

Dear Governor Walker,

The Alaska Department of Labor and Workforce Development is submitting the 2016 Nonresidents Working in Alaska Report, as required by AS 36.10.130. The report contains information about the number of nonresident workers in Alaska and the major Alaska industries in which they work. It also provides detail about wages earned by nonresidents and which occupations have the largest percentage of nonresident workers. Finally, the report examines the geographic distribution of nonresident workers throughout the state.

Since 2015, the Walker Administration has taken action to increase Alaska resident hire, including the reinstatement of Alaska Hire provisions, initiatives to expand Registered Apprenticeship opportunities, and an administrative order requiring apprenticeship utilization on publicly funded construction projects. Despite job losses that affected nearly every major industry, 2016 was the first time the overall nonresident hire rate decreased since 2009.

With your leadership, the Alaska Department of Labor and Workforce Development will continue working to increase Alaska resident hire and expand employment opportunities for all Alaskans.

Sincerely,

Greg Cashen Acting Commissioner

Enclosure

Nonresidents Working in Alaska: 2016

Alaska Department of Labor and Workforce Development

Research and Analysis Section

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On the cover: Disembarking in Seward, photo by Kathryn Hansen, NASA

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Highlights

- Nonresidents made up 21.5 percent of Alaska workers in 2016, down one-tenth of a percentage point from the prior year.
- The total number of wage and salary workers in Alaska fell to 416,459 in 2016, which was a decline of nearly 2 percent from 2015, or 8,269. The drop in total workers was only the second in the last decade, and easily the largest.
- Resident and nonresident worker counts both declined in 2016. Total resident workers were down by 5,732, or 1.7 percent, to 327,048. The number of nonresidents dropped by 2.8 percent (-2,537) to 89,411.
- Residents' annual wages were higher on average than nonresidents' wages. Residents earned an average of \$41,995 in 2016 while nonresidents earned \$28,244.
- Total wages fell 4.3 percent, to \$16.3 billion. Nonresidents earned 15.5 percent of that total, down from 16.1 percent in 2015.
- Total wages fell for both residents and nonresidents. Total resident wages fell by \$514 million (-3.6 percent) to \$13.7 billion while total nonresident wages fell \$217 million (-7.9 percent) to \$2.5 billion.
- The seafood processing industry employs the most nonresidents. Alaska's seafood processing industry employed 18,767 nonresidents in 2016, representing 75.5 percent of the processing workforce and 21 percent of all nonresident workers.
- The percentage of nonresidents working in oil and gas rose from 36 percent to 37.1 percent.
- The number of oil industry workers fell substantially in 2016, down by 3,070 workers, or 16 percent. Of the total decline, 930 were nonresidents, or just

Job counts vs. worker counts

The worker counts in this analysis differ from employment estimates — that is, job counts. Job counts are the number of filled positions at a point in time or averaged over a period of time, and worker counts are the cumulative number of people who worked in an occupation over the course of a year.

Because a single position can be filled by more than one person over a period of time due to turnover, worker counts are almost always higher than job counts. Worker counts are less useful for identifying trends in the broad economy than the job counts published by the Alaska Department of Labor and Workforce Development, but useful for other purposes such as this report.

This analysis also makes no distinction between parttime and full-time workers. For more information on the methods used to create this report, see the appendix on page 21.

Employers provide quarterly occupation information to the Department of Labor and Workforce Development, and for this report, we assigned workers a code based on the occupation in which they earned the most money in 2016.

over 30 percent.

- **The number of construction workers fell** to 24,444 in 2016, a decrease of 2,091 workers, or 8 percent.
- The nonresident share of construction workers was down to 19.9 percent in 2016 from 22.2 percent the prior year.
- **The number of metal mining workers declined** by 1.7 percent in 2016. The number of nonresidents rose by 4.5 percent, from 1,104 to 1,154, while the number of residents fell by 4.8 percent, from 2,161 to 2,057.

Nonresidents Working in Alaska: 2016

Introduction

This report, produced as required by AS 36.10.130, details nonresident employment in the state. It also helps the state meet its constitutional obligation to use, develop, and conserve its natural resources "for the maximum benefit of its people."

Knowing the industries and occupations in which nonresidents are working can guide policymakers in promoting resident hire, whether through creating or expanding certain types of training programs, helping companies find qualified local workers, or requiring that publicly funded projects hire Alaskans to the extent the law allows.

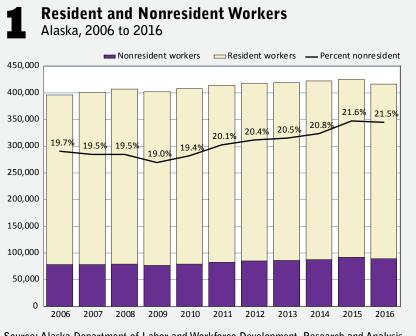
This report has two main findings:

- A large percentage of Alaska's nonresident workforce is employed in the state's most seasonal industries, with seafood processing at the top of that list.
- High-paying, year-round jobs with high percentages of nonresidents are most heavily concentrated in the oil and gas industry, where remote work sites are a major factor. It's easier for North Slope oil workers, who usually work schedules such as two weeks on and two weeks off, to live elsewhere than it is for those with a typical Monday-through-Friday schedule and a daily commute.

A person is considered a resident for this report if he or she applied for a Permanent Fund Dividend in either of the two most recent years. Because a person must live in the state for a full calendar year before becoming eligible for a PFD, those who move to Alaska and consider it their new principal residence will be initially identified as nonresidents. The appendix provides more detail.

Fewer Workers in 2016

• The total number of wage and salary¹ workers



Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

in Alaska fell to 416,459 in 2016 — a decline of 8,269, or nearly 2 percent, from 2015.

- Nonresidents² made up 21.5 percent of workers in 2016, down one-tenth of a percentage point from the prior year. (See Exhibit 1.)
- The numbers of resident and nonresident workers both fell in 2016. The number of total resident workers fell by 5,732, or 1.7 percent, to 327,048. The number of nonresident workers also fell but at a higher rate down 2,537, or 2.8 percent, to 89,411.
- Total wages fell 4.3 percent to \$16.3 billion. Nonresidents earned 15.5 percent of that total, down from 16.1 percent in 2015. (See Exhibit 2.)
- Total resident wages fell by \$514 million (-3.6 percent) to \$13.7 billion while total nonresident wages fell \$217 million (-7.9 percent) to \$2.5 billion.
- Nonresidents typically didn't work all four quarters of the year. (See exhibits 3 and 28.) Many non-

residents worked short-term or seasonal jobs, including those in seafood processing and tourism.

- Residents earned an average of \$41,995, while nonresidents earned \$28,244.
- Average annual wages fell by \$820 (-1.9 percent) for residents and \$1,576 (-5.3 percent) for nonresidents.
- The average wage per quarter worked for nonresidents was \$11,849, while residents earned \$12,185.

Nonresidents by Industry

Nonresident worker percentages are highest in the private sector. In 2016,

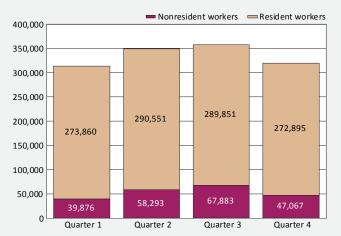
24.7 percent of private sector workers were not residents, but it varied significantly by industry.

The seafood processing industry is the largest employer of nonresidents, employing one in five (21 percent). (See Exhibit 4.) Nonresident numbers were also high in the leisure and hospitality industry and in the trade, transportation, and utilities industries. The nonresident workforce for these three industries combined represented more than half of all nonresident workers in 2016.

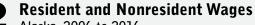


Alaska Workers by Quarter

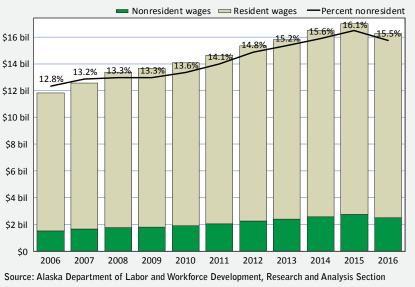
Resident and nonresident, 2016



Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section







Other industries with high percentages of nonresidents included oil and gas, construction, metal mining, and other visitor-related industries. These industries have at least one of the following: high seasonality, a need for specialized skills, or remote work sites.

Oil and Gas Industry

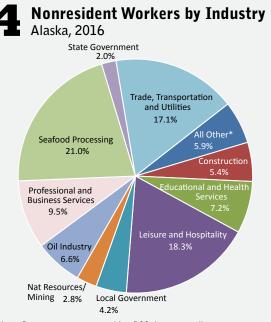
The oil and gas industry employs less than 4 percent of Alaska workers but has a substantial effect on Alaska's economy. Oil and gas wages are 2.6 times higher than the statewide average. The percentage of nonresident workers in the oil and gas industry has also historically been higher than the statewide average.

- The percentage of nonresidents working in oil and gas rose from 36 percent to 37.1 percent. (See Exhibit 6.)
- The number of total workers in the oil industry fell 16 percent from 2015 to 2016: a substantial drop of 3,070 workers. Although residents represented just under 63 percent of oil and gas workers, they were 70 percent of the total decline (2,140).
- Oil industry wages fell by 24 percent, to \$1.6 billion. Total resident wages fell 22 percent to \$1.1 billion, while nonresident wages fell 26 percent to \$526 million.

• Nonresidents earned 32.4 percent of total wages, down from 33.5 percent in 2015.

The oil industry is made up of oil and gas extraction and oilfield services. Extraction includes firms that primarily operate and develop oil and gas fields, and most are in remote sites on the North Slope.

- Oil and gas extraction workers made up 27 percent of the industry but earned nearly half of its wages in 2016.
- Of the 4,253 total extraction workers, 28.3 were nonresidents, down from 29.4 percent the prior year.
- The number of extraction workers was down by 448. The decline was proportionally higher for nonresidents, who represented 40 percent of that loss.
- The percentage of total extraction wages paid to nonresidents also fell, from 27.7 percent in 2015 to 27.5 percent in 2016. (See Exhibit 5.)
- Extraction was a high-wage industry for both resi-



Note: Percentages may not add to 100 due to rounding. *"All other" includes nonseafood manufacturing, information, financial activities, public administration, other services, and unclassified industries.

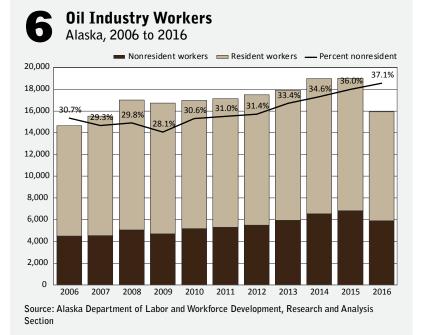
Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

Workers and Wages, Major and Selected Industry Categories Alaska, 2016

| Alaska, 2010 | Т | otal | Nonresident | | | | |
|---|---------|-------------|-------------|---------|-------------|---------|--|
| Industry | Workers | Wages (mil) | Workers | Percent | Wages (mil) | Percent | |
| Agriculture, Forestry, Fishing and Hunting | 2,370 | \$52.6 | 1,242 | 52.4% | \$25.9 | 49.1% | |
| Mining | 19,863 | \$1,956.4 | 7,218 | 36.3% | \$633.6 | 32.4% | |
| Oil and Gas Extraction | 4,253 | \$767.7 | 1,205 | 28.3% | \$211.3 | 27.5% | |
| Oilfield Services* | 11,664 | \$856.7 | 4,693 | 40.2% | \$315.1 | 36.8% | |
| Utilities | 2,563 | \$194.6 | 127 | 5.0% | \$6.5 | 3.3% | |
| Construction | 24,444 | \$1,165.5 | 4,860 | 19.9% | \$172.5 | 14.8% | |
| Manufacturing | 29,757 | \$656.9 | 19,608 | 65.9% | \$320.1 | 48.7% | |
| Seafood Processing | 24,849 | \$446.2 | 18,767 | 75.5% | \$301.1 | 67.5% | |
| Wholesale Trade | 7,280 | \$353.8 | 728 | 10.0% | \$24.9 | 7.0% | |
| Retail Trade | 48,564 | \$1,147.9 | 7,926 | 16.3% | \$100.9 | 8.8% | |
| Transportation and Warehousing | 25,285 | \$1,227.6 | 6,527 | 25.8% | \$300.7 | 24.5% | |
| Air Transportation | 7,609 | \$344.4 | 1,915 | 25.2% | \$65.4 | 19.0% | |
| Information | 7,449 | \$406.5 | 750 | 10.1% | \$27.9 | 6.9% | |
| Finance and Insurance | 8,375 | \$464.8 | 823 | 9.8% | \$19.8 | 4.3% | |
| Real Estate and Rental and Leasing | 6,982 | \$223.9 | 759 | 10.9% | \$18.3 | 8.2% | |
| Professional, Scientific, and Technical Services | 16,726 | \$898.3 | 3,883 | 23.2% | \$182.9 | 20.4% | |
| Management of Companies and Enterprises | 2,296 | \$172.5 | 166 | 7.2% | \$8.6 | 5.0% | |
| Administrative Support/Waste Management and Remediation | 17,499 | \$546.4 | 4,451 | 25.4% | \$108.6 | 19.9% | |
| Educational Services | 2,919 | \$70.3 | 651 | 22.3% | \$7.9 | 11.2% | |
| Health Care and Social Assistance | 52,606 | \$2,345.2 | 5,822 | 11.1% | \$210.4 | 9.0% | |
| Arts, Entertainment, and Recreation | 7,282 | \$94.7 | 2,329 | 32.0% | \$22.4 | 23.6% | |
| Accommodation and Food Services | 43,998 | \$691.9 | 14,016 | 31.9% | \$158.0 | 22.8% | |
| Accommodation | 13,152 | \$218.8 | 6,419 | 48.8% | \$76.2 | 34.8% | |
| Food Services and Drinking Places | 29,961 | \$462.9 | 7,249 | 24.2% | \$78.5 | 17.0% | |
| Other Services | 12,593 | \$370.5 | 1,819 | 14.4% | \$35.5 | 9.6% | |
| Other/Unknown | 634 | \$16.3 | 197 | 31.1% | \$3.6 | 22.2% | |
| Local Government | 50,602 | \$1,897.9 | 3,734 | 7.4% | \$88.9 | 4.7% | |
| State Government | 26,372 | \$1,305.4 | 1,775 | 6.7% | \$47.6 | 3.6% | |
| Total | 416,459 | \$16,259.7 | 89,411 | 21.5% | \$2,525.3 | 15.5% | |

Notes: Data exclude the self-employed, fishermen and other agricultural workers, and private household workers. For estimates of fish harvesting employment, go to labor.alaska.gov/research/seafood/seafood.htm.

*This industry category includes support activities for oil and gas drilling and related occupations.



Dil Industry, 20 Largest Occupations Alaska, 2016

| Occupation title | Total workers | Percent nonres |
|---|------------------|-------------------|
| Service Unit Operators, Oil and Gas | 1,501 | 43.4% |
| Operating Engineers and Other Const Equip Operators | 1,101 | 38.8% |
| Roustabouts, Oil and Gas | 856 | 34.1% |
| Production Workers, All Other | 781 | 39.1% |
| Petroleum Engineers | 592 | 29.2% |
| Electricians | 506 | 48.6% |
| Engineers, All Other | 474 | 28.5% |
| Construction Laborers | 448 | 16.7% |
| Plumbers, Pipefitters, and Steamfitters | 447 | 42.5% |
| Heavy and Tractor-Trailer Truck Drivers | 437 | 34.1% |
| Welders, Cutters, Solderers, and Brazers | 429 | 31.0% |
| First-Line Supervisors of Const Trades/Extraction Workers | 379 | 42.0% |
| Installation, Maint, and Repair Workers, All Other | 377 | 96.3% |
| Geological Technicians, Except Hydrologic Technicians | 353 | 43.6% |
| Rotary Drill Operators, Oil and Gas | 311 | 41.5% |
| Petroleum Pump Sys Oper, Refinery Oper, and Gaugers | 307 | 32.6% |
| Managers, All Other | 300 | 46.3% |
| Mobile Heavy Equipment Mechanics, Except Engines | 298 | 43.3% |
| Construction Managers | 261 | 39.8% |
| Maintenance and Repair Workers, General | 250 | 38.0% |
| | | |

Note: Includes occupations in oil and gas extraction and related oilfield services. Occupation totals include only workers in this industry. Additional workers in these occupations may be found in other industries.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section dents and nonresidents in 2016, but nonresidents earned 9.1 percent more per quarter at \$52,770 versus \$48,374 for residents. It is important to note that average quarterly wages for both residents and nonresidents declined from 2015 by 6 and 5.5 percent, respectively.

• Because residents in oil and gas extraction tend to work more quarters, their average annual wage is higher. In 2016, residents earned an average of \$182,545 and nonresidents earned \$175,345.

Oilfield services differs from extraction in that firms provide support services including drilling oil and gas wells, excavation, and well services.³ The oilfield services sector made up 73 percent of total oil and gas workers in 2016.

- The number of oilfield services workers fell by 2,622, or 18 percent, to 11,664. Of that loss, 28.6 percent were nonresidents.
- The nonresident percentage in oilfield services rose from 38 percent to 40 percent.
- Workers in oilfield services earned \$857 million, or 53 percent of oil industry wages. Nonresidents made \$315 million, or 37 percent. (See Exhibit 5.)
- In 2016, nonresidents in oilfield services earned an average of \$22,798 per quarter — 5.7 percent more than residents, who earned \$21,577 per quarter.
- Although nonresidents earn more per quarter, residents earn more annually — \$77,688 versus \$67,145 — primarily because residents work more quarters.

Construction Industry

The construction industry employed 6

percent of workers in the state in 2016. Though not to the same degree as oil and gas, wages in construction are higher than the state average.

- The number of construction workers fell to 24,444 in 2016, a drop of 2,091, or 8 percent from the prior year.
- Nonresidents accounted for 19.9 percent of all construction workers, down 2.3 percentage points from 2015. (See Exhibit 8.)
- The construction industry paid 8.9 percent of all private sector wages in 2016. Total construction wages fell by 11.2 percent to \$1.2 billion. The nonresident share fell from 16.3 percent to 14.8 percent.
- Construction wages for residents fell 9.5 percent from 2015 while nonresident wages fell by 19.5 percent. Like the oil industry, residents in construction work more quarters than nonresidents.

Within the construction industry, specialty trade contractors accounted for most of the workers and wages. (See Appendix A2.) The number of residents in the specialty trade contractors sector decreased 3.9 percent, a loss of 400 workers, while the number of nonresidents fell by 22.5 percent, or 598 workers.

Heavy and civil engineering had the lowest number of workers but the highest quarterly wages. The number of nonresidents in this sector decreased by 26.4 percent to 1,209, while the number of residents decreased 8.4 percent to 4,051.

Seafood Processing Industry

Fishing is a critical component of Alaska's economy, but because fish harvesters are self-employed and exempt from reporting employment and wages, most harvesters and crew aren't part of this report. Seafood processors, on the other



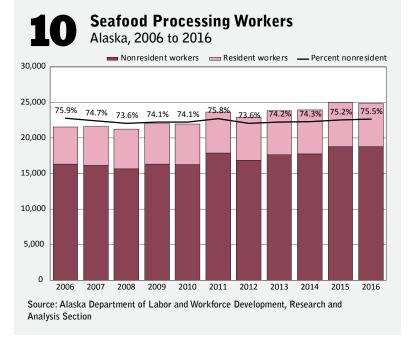
Construction Industry Workers

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

Construction Industry, 20 Largest Occupations Alaska, 2016

| Occupation title | Total workers | Percent nonresident |
|--|------------------|------------------------|
| Construction Laborers | 4,114 | 20.7% |
| Carpenters | 2,673 | 21.5% |
| Operating Engineers and Other Construction Equip Operators | 1,784 | 21.5% |
| Electricians | 1,527 | 11.6% |
| Plumbers, Pipefitters, and Steamfitters | 1,058 | 15.6% |
| Construction and Related Workers, All Other | 759 | 32.9% |
| Painters, Construction and Maintenance | 613 | 24.6% |
| Heavy and Tractor-Trailer Truck Drivers | 598 | 16.9% |
| Construction Managers | 569 | 13.4% |
| Helpers, Construction Trades, All Other | 517 | 16.2% |
| Roofers | 409 | 20.0% |
| First-Line Supervisors of Const Trades and Extraction Workers | 401 | 30.9% |
| Sheet Metal Workers | 395 | 9.1% |
| Bookkeeping, Accounting, and Auditing Clerks | 375 | 5.6% |
| Helpers: Carpenters | 366 | 25.7% |
| Office Clerks, General | 356 | 9.0% |
| Office and Administrative Support Workers, All Other | 348 | 12.1% |
| Cement Masons and Concrete Finishers | 322 | 30.4% |
| Heating, Air Conditioning, and Refrig Mechanics and Installers | 230 | 10.9% |
| Helpers: Pipelayers, Plumbers, Pipefitters, and Steamfitters | 210 | 19.5% |

Note: Occupation totals include only workers in this industry. Additional workers in these occupations may be found in other industries.



hand, are included in wage record data and can be described here.

- Since statistics on worker residency in Alaska have been produced, the seafood processing industry has had the highest number and percentage of nonresident workers every year.
- Alaska's seafood processing industry employed 18,767 nonresidents in 2016, representing 75.5 percent of the processing workforce. (See Exhibit 10.)
- The numbers of both residents and nonresidents in seafood processing dropped from 2015. The decline in residents outpaced that of nonresidents, driving an increase in the nonresident rate: up from 75.2 percent to 75.5 percent.
- Total seafood processing

wages in 2016 were nearly the same as the year before at \$446 million. Of that, nonresidents earned 67.5 percent.

Although self-employed fish harvesters aren't part of the worker totals or the total nonresident hire rate, the department estimates their numbers each year from other data sources. In 2016, nonresidents were an estimated 44.7 percent of the harvesting workforce, which includes permit holders and their crew. Nonresidents took in 67.9 percent of gross earnings.⁴

Metal Mining Industry

Metal mining is of both historical and contemporary importance to Alaska's economy. The extraction of gold, silver, copper, lead, and rare earth elements employed 3,211 people in 2016 and contributed \$289 million in wages.

- From 2015 to 2016, the number of metal mining⁵ workers declined by 1.7 percent (54 workers).
- The number of nonresidents in metal mining rose

Seafood Processing, 20 Largest Occupations Alaska, 2016

| Occupation title | Total workers | Percent nonresident |
|--|------------------|------------------------|
| Seafood Processing Workers, Except Surimi and Fish Roe | 14,267 | 77.7% |
| Meat, Poultry, and Fish Cutters and Trimmers | 4,439 | 86.1% |
| Fishers and Related Fishing Workers | 476 | 71.2% |
| First-Line Supervisors of Production/Oper Workers | | |
| for Fish, Shellfish or other Seafood Products | 434 | 79.5% |
| Office Clerks, General | 364 | 47.8% |
| Laborers and Freight, Stock, and Material Movers, Hand | 352 | 40.9% |
| Material Moving Workers, All Other | 336 | 79.2% |
| Food Batchmakers | 220 | 83.6% |
| Fish Roe Technicians | 199 | 73.9% |
| Maintenance and Repair Workers, General | 191 | 51.8% |
| Maids and Housekeeping Cleaners | 183 | 59.0% |
| First-Line Supervisors of Production and Operating Workers | 178 | 69.1% |
| Cooks, Institution and Cafeteria | 151 | 74.2% |
| Machinists | 139 | 92.1% |
| Production Workers, All Other | 135 | 44.4% |
| Sailors and Marine Oilers | 129 | 70.5% |
| Ship Engineers | 128 | 86.7% |
| Captains, Mates, and Pilots of Water Vessels | 116 | 78.4% |
| Office and Administrative Support Workers, All Other | 100 | 28.0% |
| Electricians | 90 | 74.4% |

Note: Occupation totals include only workers in this industry. Additional workers in these occupations may be found in other industries.

Seafood Processing, Workers and Wages 12

Private sector, by area, 2016

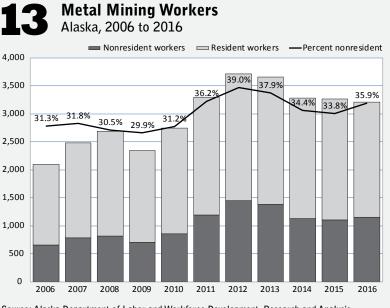
| | Т | otal | Nonresident | | | | | |
|------------------------|---------|--------------|-------------|---------|--------------|---------|--|--|
| Borough or Census Area | Workers | Wages | Workers | Percent | Wages | Percent | | |
| Aleutians East | 3,347 | \$85,011,257 | 2,895 | 86.5% | \$69,052,782 | 81.2% | | |
| Aleutians West | 2,843 | \$71,075,420 | 1,888 | 66.4% | \$38,841,328 | 54.6% | | |
| Anchorage | 378 | \$9,760,634 | 91 | 24.1% | \$1,163,673 | 11.9% | | |
| Bethel | 0 | \$0 | 0 | 0% | \$0 | 0% | | |
| Bristol Bay | 3,271 | \$29,247,511 | 3,072 | 93.9% | \$27,016,851 | 92.4% | | |
| Denali | 0 | \$0 | 0 | 0% | \$0 | 0% | | |
| Dillingham | 1,117 | \$10,912,860 | 991 | 88.7% | \$9,789,626 | 89.7% | | |
| Fairbanks North Star | 17 | \$156,677 | ND | ND | ND | ND | | |
| Haines | 285 | \$2,612,860 | 258 | 90.5% | \$2,164,784 | 82.9% | | |
| Hoonah-Angoon | 46 | \$564,764 | 15 | 32.6% | \$118,849 | 21.0% | | |
| Juneau | 418 | \$6,299,008 | 291 | 69.6% | \$3,748,901 | 59.5% | | |
| Kenai Peninsula | 1,526 | \$16,864,562 | 1,022 | 67.0% | \$8,923,078 | 52.9% | | |
| Ketchikan | 874 | \$11,408,898 | 681 | 77.9% | \$7,194,252 | 63.1% | | |
| Kodiak Island | 2,538 | \$50,423,743 | 1,114 | 43.9% | \$16,009,765 | 31.8% | | |
| Kusilvak | 542 | \$4,814,521 | 34 | 6.3% | \$824,628 | 17.1% | | |
| Lake and Peninsula | 459 | \$5,249,625 | 446 | 97.2% | \$4,938,245 | 94.1% | | |
| Marine/Offshore | 3,083 | \$85,650,233 | 3,007 | 97.5% | \$82,740,062 | 96.6% | | |
| Matanuska-Susitna | 21 | \$212,109 | 8 | 38.1% | \$45,950 | 21.7% | | |
| Nome | 260 | \$4,843,730 | 21 | 8.1% | \$304,695 | 6.3% | | |
| North Slope | ND | ND | ND | ND | ND | ND | | |
| Northwest Arctic | 31 | \$198,279 | 9 | 29.0% | \$106,907 | 53.9% | | |
| Outside Alaska | 12 | \$208,126 | 11 | 91.7% | \$173,626 | 83.4% | | |
| Petersburg | 787 | \$10,370,444 | 633 | 80.4% | \$5,824,006 | 56.2% | | |
| Prince of Wales-Hyder | 287 | \$4,197,264 | 171 | 59.6% | \$2,298,773 | 54.8% | | |
| Sitka | 822 | \$14,500,314 | 592 | 72.0% | \$7,431,144 | 51.2% | | |
| Skagway | 7 | \$98,404 | ND | ND | ND | ND | | |
| Southeast Fairbanks | 0 | \$0 | 0 | 0% | \$0 | 0% | | |
| Valdez-Cordova | 1,567 | \$16,615,084 | 1,335 | 85.2% | \$10,159,639 | 61.1% | | |
| Wrangell | 207 | \$2,963,252 | 137 | 66.2% | \$1,386,101 | 46.8% | | |
| Yakutat | 62 | \$1,483,006 | 23 | 37.1% | \$388,369 | 26.2% | | |
| Yukon-Koyukuk | 32 | \$125,659 | 8 | 25.0% | \$99,033 | 78.8% | | |

Note: ND = Not disclosable to protect individual employers' data

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

4.5 percent, from 1,104 to 1,154, while residents decreased by 4.8 percent, from 2,161 to 2,057.

- As a result, the percentage of nonresident workers in metal mining rose from 33.8 percent to 35.9 percent. (See Exhibit 13.)
- Total wages for nonresidents increased increased in 2016 while resident wages decreased. The share of wages paid to nonresidents was 35.1 percent, up from 32.7 percent. Nonresidents earned \$101 million, 7.8 percent more than the year before.
- Resident wages fell 3 percent to \$187 million.
- Residents in metal mining made



more on average than nonresidents, at \$91,030 versus \$87,747. Average annual wages increased 3.1 percent for nonresidents and 1.9 percent for residents.

Visitor-Related Industries

Although visitor expenditures play a major part in several Alaska sectors, there is no "visitor industry" isolated in the data. However, several industries can be considered visitor-related: accommodation, air transportation, scenic and sightseeing transportation,6 and food service and drinking establishments. (See Exhibit 15.)

- Nonresidents in visitor-related industries accounted for 22.4 percent of the state's nonresident workers but made just 11.2 percent of nonresident wages.
- Section • Visitor-related industries employed 63,945 workers, down slightly from 64,175 in 2015. The number of residents and nonresidents each fell by less than one percent. Nonresidents typically account for nearly one-third of all visitor-related workers
- Nonresidents earned \$283 million, while residents earned \$1.0 billion.

Food services and drinking places is the largest of the visitor-related industries, with 29,961 workers in

| Λ | Metal Mining Industry, 20 Largest Occupati | ons |
|---|--|-----|
| | Alaska, 2016 | |

| Occupation title | Total workers | Percent nonres |
|--|------------------|-------------------|
| Underground Mining Machine Operators, All Other | 733 | 29.6% |
| Extraction Workers, All Other | 306 | 54.6% |
| Mobile Heavy Equipment Mechanics, Except Engines | 162 | 58.0% |
| Miners, Except Drillers and Machine Operators | 136 | 32.4% |
| Plant and System Operators, All Other | 111 | 9.9% |
| Millwrights | 106 | 39.6% |
| First-Line Supervisors of Mechanics, Installers, and Repairers | 81 | 35.8% |
| Mining and Geological Engineers, Incl Mining Safety Engineers | 78 | 44.9% |
| Earth Drillers, Except Oil and Gas | 72 | 84.7% |
| Electricians | 67 | 65.7% |
| Crushing, Grinding, and Polishing Machine Setters, Oper, Tenders | 63 | 22.2% |
| Construction Laborers | 62 | 12.9% |
| First-Line Supervisors of Production and Operating Workers | 55 | 43.6% |
| Operating Engineers and Other Construction Equip Operators | 51 | 47.1% |
| Production Workers, All Other | 44 | 43.2% |
| Water and Wastewater Treatment Plant and System Operators | 39 | 25.6% |
| Geological Technicians, Except Hydrologic Technicians | 37 | 29.7% |
| Chemical Technicians | 35 | 14.3% |
| Geoscientists, Except Hydrologists and Geographers | 35 | 42.9% |
| Mine Cutting and Channeling Machine Operators | 32 | 28.1% |

Note: Occupation totals include only workers in this industry. Additional workers in these occupations may be found in other industries.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis

2016, down 2 percent. In this industry, nonresidents accounted for 24.2 percent of total workers, relatively unchanged from 2015. (See Exhibit 16.)

Air transportation has the highest average wages among visitor-related industries due to high-paying occupations such as pilots.

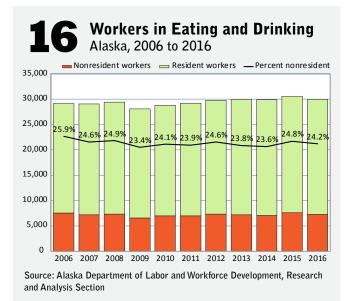
Air transportation fell by 92 workers (-1.2 percent).



15 Visitor-Related Industries, Workers and Wages Alaska, 2016

| _ | Total | | | | Non | resident | |
|--|---------|-------------|--|---------|---------|-------------|---------|
| Industry | Workers | Wages (mil) | | Workers | Percent | Wages (mil) | Percent |
| Accommodation | 13,152 | \$218.8 | | 6,419 | 48.8% | \$76.2 | 34.8% |
| Air Transportation | 7,609 | \$344.4 | | 1,915 | 25.2% | \$65.4 | 19.0% |
| Amusement, Gambling, and Recreation Industries | 5,296 | \$65.3 | | 1,747 | 33.0% | \$16.5 | 25.2% |
| Food Services and Drinking Places | 29,961 | \$462.9 | | 7,249 | 24.2% | \$78.5 | 17.0% |
| Performing Arts, Spectator Sports, | | | | | | | |
| and Related Industries | 1,299 | \$15.1 | | 369 | 28.4% | \$3.4 | 22.6% |
| Scenic and Sightseeing Transportation | 3,518 | \$65.2 | | 1,833 | 52.1% | \$27.4 | 42.0% |
| Support Activities for Transportation | 3,110 | \$120.4 | | 507 | 16.3% | \$15.8 | 13.1% |
| | | | | | | | |
| Leisure and Hospitality* | 51,280 | \$786.6 | | 16,345 | 31.9% | \$180.3 | 22.9% |

*Leisure and hospitality is a NAICS designation that combines the recreation, accommodations, and food services industry sectors. Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section



Of that loss, 82 were nonresidents.⁷

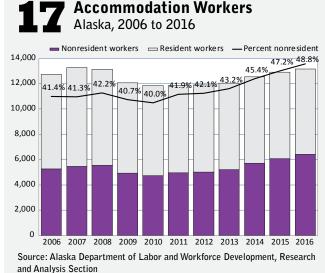
- Nonresidents made up a quarter of air transportation workers and earned 19 percent of wages.
- The number of nonresidents in air transportation fell 4.1 percent, to 1,915. Resident workers fell less than 1 percent, to 5,694.

Accommodation typically has one of the highest nonresident percentages among all industries as well as in the visitor-related industries.

 Total accommodation workers were up by 1.9 percent in 2016, to 13,152. Nonresidents made up 48.8 percent and earned 34.8 percent of wages. (See Exhibit 17.)

Health Care Industry

The health care industry remained one of Alaska's largest in 2016, and it has grown considerably over the last decade. Unlike many rapidly expanding industries, health care hasn't significantly increased its non-

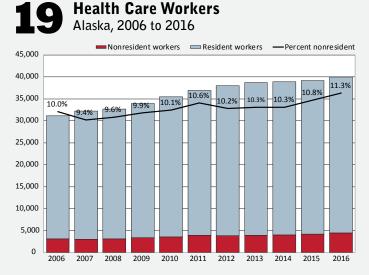


Visitor-Related Industries, 20 Largest Occupations Alaska, 2016

| Occupation title | Total workers | Percent nonres |
|--|------------------|-------------------|
| Waiters and Waitresses | 5,648 | 30.6% |
| Combined Food Preparation and Serving Workers, Including Fast Food | 5,365 | 23.0% |
| Food Preparation Workers | 4,398 | 19.1% |
| Maids and Housekeeping Cleaners | 3,503 | 43.2% |
| Cooks, Restaurant | 3,473 | 40.2% |
| Dishwashers | 1,987 | 37.8% |
| Counter Attendants, Cafeteria, Food Concession, and Coffee Shop | 1,816 | 18.4% |
| Airline Pilots, Copilots, and Flight Engineers | 1,597 | 47.9% |
| Food Preparation and Serving Related Workers, All Other | 1,407 | 28.4% |
| Bartenders | 1,393 | 26.3% |
| Hotel, Motel, and Resort Desk Clerks | 1,240 | 36.6% |
| Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop | 1,214 | 21.7% |
| Tour Guides and Escorts | 1,138 | 69.5% |
| Aircraft Mechanics and Service Technicians | 994 | 19.0% |
| Reservation and Transportation Ticket Agents and Travel Clerks | 958 | 12.1% |
| Dining Room and Cafeteria Attendants and Bartender Helpers | 952 | 26.2% |
| Material Moving Workers, All Other | 912 | 10.0% |
| Janitors and Cleaners, Except Maids and Housekeeping Cleaners | 756 | 37.0% |
| Cashiers | 706 | 27.2% |
| Maintenance and Repair Workers, General | 703 | 37.6% |
| | | |

Note: Occupation totals include only workers in this industry. Additional workers in these oc-

cupations may be found in other industries. Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section



Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

20 Health Care, 20 Largest Occupations Alaska, 2016

| Registered Nurses4,91114.89Personal Care Aides3,9368.39Nursing Assistants1,6337.29Medical Assistants1,5938.39 | it is |
|---|----------|
| Nursing Assistants1,6337.2%Medical Assistants1,5938.3% | 6 |
| Medical Assistants 1,593 8.39 | 6 |
| | 6 |
| | 6 |
| Receptionists and Information Clerks 1,447 10.6% | 6 |
| Office and Administrative Support Workers, All Other 1,369 8.39 | 6 |
| Dental Assistants 1,193 9.5% | 6 |
| Healthcare Support Workers, All Other 1,044 11.49 | 6 |
| Medical and Health Services Managers 726 9.99 | 6 |
| Billing and Posting Clerks 672 6.79 | 6 |
| Medical Secretaries and Administrative Assistants 656 5.2% | 6 |
| Home Health Aides 613 13.19 | 6 |
| First-Line Supervisors of Ofc and Admin Supt Workers 540 6.5% | 6 |
| Dental Hygienists 505 9.5% | 6 |
| Physicians and Surgeons, All Other 476 31.39 | 6 |
| Janitors and Cleaners, Exc Maids/Housekeeping 441 6.89 | 6 |
| Physical Therapists 438 16.99 | 6 |
| Medical Registrar and Records Specialists 434 7.49 | 6 |
| Office Clerks, General 433 9.9% | 6 |
| Massage Therapists 419 10.3% | 6 |

Note: Occupation totals include only workers in this industry. Additional workers in these occupations may be found in other industries.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

resident hire rate. However, the percentage of nonresidents and the percentage of total wages paid to nonresidents increased in 2016.

- Health care was one of the few major industries in Alaska to grow in 2016, increasing 2 percent to just under 40,000 total workers.
- Despite a 28 percent increase in the number of health care workers in Alaska over the last 10 years, the nonresident percentage has remained significantly lower than that of all industries combined at 11.3 percent. (See Exhibit 19.)
- In 2016, 4,513 nonresidents made up 11.3 percent of all health care workers and earned 9.5 percent of the industry's nearly \$2 billion in wages.
- Average quarterly wages for health care workers rose by just over 1 percent, to \$13,875. Residents earned less per quarter, at \$13,677 versus \$16,109 for nonresidents.

The health care industry comprises ambulatory health care services, hospitals, and nursing and residential care facilities.

- Ambulatory health care service companies, which do not provide inpatient care, employed 20,530 workers, or 51.3 percent of all health care workers. Of that total, 11.4 percent were nonresidents.
- Hospitals employed an additional 35.8 percent of health care workers, or 14,320, at 11.1 percent nonresident.
- Nursing and residential care facilities had the smallest share of health care workers at 12.9 percent, or 5,142 total workers. The nonresident share was 11.5 percent.

Other Industries

Exhibit A2 in the appendix gives detailed resident data by industry. Private sector industries with a low percentage of nonresidents are primarily in the utilities, health care, and financial/insurance industries. State and local government both continue to employ a low percentage

21

Occupations With the Largest Numbers of Nonresident Workers Alaska private sector, 2016

| Occupation title | Nonresident workers | Resident workers | Percent nonresident | Nonresident wages (mil) | Resident wages (mil) | Percent nonresident |
|--|------------------------|---------------------|------------------------|----------------------------|-------------------------|------------------------|
| Seafood Processing Workers, Except Surimi and Fish Roe | 11,174 | 3,249 | 77.5% | \$115.2 | \$47.0 | 71.0% |
| Meat, Poultry, and Fish Cutters and Trimmers | 3,903 | 732 | 84.2% | \$42.1 | \$9.5 | 81.6% |
| Retail Salespersons (Non-Commissioned Sales) | 3,380 | 14,701 | 18.7% | \$31.5 | \$274.0 | 10.3% |
| Waiters and Waitresses | 1,909 | 4,169 | 31.4% | \$20.2 | \$70.7 | 22.2% |
| Maids and Housekeeping Cleaners | 1,858 | , 3,369 | 35.5% | \$16.4 | \$53.6 | 23.5% |
| Cashiers | 1,738 | 7,504 | 18.8% | \$13.3 | \$109.9 | 10.8% |
| Cooks, Restaurant | 1,482 | 2,188 | 40.4% | \$15.3 | \$38.3 | 28.5% |
| Combined Food Prep and Serving Workers, Incl Fast Food | 1,369 | 4,721 | 22.5% | \$9.9 | \$52.2 | 15.9% |
| Construction Laborers | 1,253 | 4,802 | 20.7% | \$29.5 | \$144.6 | 16.9% |
| Fishers and Related Fishing Workers | 1,216 | 518 | 70.1% | \$22.8 | \$8.0 | 74.1% |
| Airline Pilots, Copilots, and Flight Engineers | 1,137 | 1,047 | 52.1% | \$126.1 | \$109.2 | 53.6% |
| Registered Nurses | 1,073 | 4,438 | 19.5% | \$35.3 | \$282.6 | 11.1% |
| Laborers and Freight, Stock, and Material Movers, Hand | 1,059 | 3,352 | 24.0% | \$16.4 | \$83.5 | 16.4% |
| Food Preparation Workers | 1,052 | 4,268 | 19.8% | \$7.8 | \$46.1 | 14.4% |
| Tour Guides and Escorts | 983 | 551 | 64.1% | \$8.9 | \$6.0 | 59.9% |
| Operating Engineers and Other Const Equipment Operators | 936 | 2,433 | 27.8% | \$49.2 | \$140.0 | 26.0% |
| Janitors and Cleaners, Exc Maids/Housekeeping Cleaners | 892 | 3,460 | 20.5% | \$9.3 | \$56.3 | 14.1% |
| Dishwashers | 829 | 1,425 | 36.8% | \$5.8 | \$14.6 | 28.4% |
| Office Clerks, General | 757 | 3,983 | 16.0% | \$14.5 | \$110.7 | 11.6% |
| Maintenance and Repair Workers, General | 733 | 2,092 | 25.9% | \$24.2 | \$83.0 | 22.6% |
| Carpenters | 727 | 2,601 | 21.8% | \$21.4 | \$102.7 | 17.3% |
| Service Unit Operators, Oil and Gas | 720 | 917 | 44.0% | \$46.8 | \$81.1 | 36.6% |
| Installation, Maintenance, and Repair Workers, All Other | 678 | 1,023 | 39.9% | \$19.0 | \$61.2 | 23.7% |
| Heavy and Tractor-Trailer Truck Drivers | 667 | 2,935 | 18.5% | \$25.9 | \$143.6 | 15.3% |
| Electricians | 654 | 1,824 | 26.4% | \$41.8 | \$115.9 | 26.5% |
| Sailors and Marine Oilers | 637 | 475 | 57.3% | \$16.6 | \$13.7 | 54.9% |
| Captains, Mates, and Pilots of Water Vessels | 620 | 338 | 64.7% | \$31.2 | \$16.7 | 65.1% |
| Office and Administrative Support Workers, All Other | 605 | 5,328 | 10.2% | \$14.7 | \$154.3 | 8.7% |
| General and Operations Managers | 537 | 3,406 | 13.6% | \$39.2 | \$284.9 | 12.1% |
| Personal Care Aides | 521 | 5,350 | 8.9% | \$5.6 | \$96.3 | 5.5% |
| Material Moving Workers, All Other | 504 | 1,502 | 25.1% | \$12.7 | \$58.3 | 17.9% |
| Food Preparation and Serving Related Workers, All Other | 500 | 1,574 | 24.1% | \$5.2 | \$24.7 | 17.3% |
| Hotel, Motel, and Resort Desk Clerks | 496 | 932 | 34.7% | \$4.5 | \$13.7 | 24.5% |
| Counter Attendants, Cafeteria, Food Concession, Coffee Shop | 493 | 2,236 | 18.1% | \$3.1 | \$21.5 | 12.6% |
| Sales and Related Workers, All Other | 492 | 2,245 | 18.0% | \$5.7 | \$60.4 | 8.5% |
| Bartenders | 473 | 1,303 | 26.6% | \$5.2 | \$20.9 | 20.0% |
| Production Workers, All Other | 465 | 981 | 32.2% | \$54.5 | \$93.3 | 36.9% |
| Stock Clerks and Order Fillers | 461 | 2,715 | 14.5% | \$4.9 | \$53.9 | 8.4% |
| Customer Service Representatives | 460 | 2,570 | 15.2% | \$5.6 | \$75.1 | 6.9% |
| Managers, All Other | 441 | 1,903 | 18.8% | \$39.9 | \$156.6 | 20.3% |
| Plumbers, Pipefitters, and Steamfitters | 430 | 1,370 | 23.9% | \$21.7 | \$85.0 | 20.3% |
| Security Guards | 399 | 1,860 | 17.7% | \$8.3 | \$57.2 | 12.7% |
| Receptionists and Information Clerks | 385 | 2,738 | 12.3% | \$5.2 | \$64.2 | 7.5% |
| First-Line Supervisors of Const Trades and Extract Workers | 366 | 663 | 35.6% | \$33.2 | \$61.6 | 35.0% |
| Cooks, All Other | 362 | 666 | 35.2% | \$6.6 | \$15.1 | 30.5% |
| Roustabouts, Oil and Gas | 356 | 648 | 35.5% | \$14.3 | \$30.0 | 32.4% |
| First-Line Supervisors of Prod/Oper Workers for Fish, Shellfish or other Seafood Products | 353 | 91 | 79.5% | \$5.5 | \$2.9 | 65.0% |
| Landscaping and Groundskeeping Workers | 346 | 1,074 | 24.4% | \$3.3 | \$14.1 | 19.2% |
| Commercial Pilots | 344 | 458 | 42.9% | \$12.3 | \$28.2 | 30.4% |
| Bus Drivers, School or Special Client | 342 | 873 | 28.1% | \$3.6 | \$16.6 | 17.8% |
| ., | | | | 72.0 | +==.0 | |

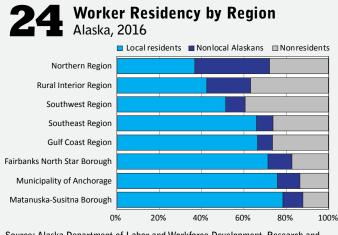
222 Occupations With High Percentages of Nonresident Workers Alaska private sector, 2016

| Occupation title | Percent nonres | Nonres workers | Resident workers | % nonres wages | Nonres wages | Resident wages |
|---|-------------------|-------------------|---------------------|-------------------|---------------|----------------|
| Meat, Poultry, and Fish Cutters and Trimmers | 84.2% | 3,903 | 732 | 81.6% | \$42,106,991 | \$9,519,200 |
| First-Line Supervisors of Production and Operating | | | | | | |
| Workers for Fish, Shellfish or other Seafood Products | 79.5% | 353 | 91 | 65.0% | \$5,451,940 | \$2,930,939 |
| Seafood Processing Workers, Except Surimi | | | | | | |
| and Fish Roe | 77.5% | 11,174 | 3,252 | 71.0% | \$115,212,700 | \$47,041,965 |
| Entertainers and Performers, Sports and Related Workers, All Other | 76.7% | 171 | 52 | 69.1% | \$1,576,122 | \$705,277 |
| Fish Roe Technicians | 73.6% | 148 | 53 | 71.6% | \$2,308,845 | \$914,242 |
| Travel Guides | 72.5% | 287 | 109 | 69.5% | \$2,864,667 | \$1,257,235 |
| Food Batchmakers | 69.8% | 196 | 85 | 63.3% | \$3,983,600 | \$2,306,217 |
| Fishers and Related Fishing Workers | 68.4% | 1,218 | 563 | 72.7% | \$22,847,542 | \$8,574,378 |
| Ship Engineers | 62.5% | 270 | 162 | 54.4% | \$14,976,817 | \$12,564,989 |
| Tour Guides and Escorts | 62.4% | 984 | 592 | 58.3% | \$8,904,842 | \$6,373,761 |
| Machinists | 60.5% | 185 | 121 | 55.6% | \$7,690,658 | \$6,144,993 |
| Captains, Mates, and Pilots of Water Vessels | 59.1% | 650 | 450 | 56.2% | \$33,569,668 | \$26,189,858 |
| Earth Drillers, Except Oil and Gas | 58.4% | 149 | 106 | 47.9% | \$5,992,297 | \$6,522,672 |
| Extraction Workers, All Other | 52.7% | 187 | 168 | 57.3% | \$20,109,901 | \$14,999,245 |
| Airline Pilots, Copilots, and Flight Engineers | 51.9% | 1,141 | 1,056 | 53.4% | \$126,533,420 | \$110,394,376 |
| Sailors and Marine Oilers | 48.8% | 651 | 682 | 40.6% | \$17,128,847 | \$25,108,067 |
| Rotary Drill Operators, Oil and Gas | 47.4% | 175 | 194 | 38.7% | \$8,910,318 | \$14,124,158 |
| Agricultural Workers, All Other | 46.0% | 138 | 162 | 33.1% | \$1,453,996 | \$2,942,025 |
| Chefs and Head Cooks | 45.0% | 326 | 399 | 35.8% | \$7,424,921 | \$13,338,023 |
| Service Unit Operators, Oil and Gas | 44.0% | 721 | 919 | 36.6% | \$46,784,244 | \$81,125,917 |
| Inspectors, Testers, Sorters, Samplers, and Weighers | 43.0% | 154 | 204 | 42.0% | \$9,574,603 | \$13,248,218 |
| Actors | 43.0% | 102 | 135 | 35.3% | \$505,693 | \$927,074 |
| Commercial Pilots | 42.3% | 345 | 471 | 29.8% | \$12,410,992 | \$29,204,572 |
| Cooks, Restaurant | 40.4% | 1,482 | 2,188 | 28.5% | \$15,251,014 | \$38,260,317 |
| Zoologists and Wildlife Biologists | 39.9% | 344 | 519 | 16.5% | \$5,894,832 | \$29,822,619 |
| Industrial Machinery Mechanics | 39.1% | 184 | 286 | 32.6% | \$11,357,703 | \$23,495,517 |
| Dancers | 39.1% | 102 | 159 | 29.0% | \$475,429 | \$1,161,799 |
| Geological Technicians, Except Hydrologic Technicians | 37.9% | 203 | 333 | 36.7% | \$15,682,304 | \$27,089,715 |
| Installation, Maintenance, and Repair | | | | | | |
| Workers, All Other | 37.4% | 686 | 1,150 | 22.2% | \$19,124,596 | \$66,909,545 |
| Dishwashers | 36.6% | 829 | 1,434 | 28.3% | \$5,806,639 | \$14,700,927 |
| Roustabouts, Oil and Gas | 35.5% | 356 | 648 | 32.4% | \$14,339,697 | \$29,969,195 |
| Mobile Heavy Equipment Mechanics, Except Engines | 35.2% | 339 | 623 | 34.0% | \$23,903,776 | \$46,350,007 |
| First-Line Supervisors of Production and Operating Workers | 35.2% | 238 | 438 | 25.4% | \$13,898,509 | \$40,848,349 |
| Maids and Housekeeping Cleaners | 35.1% | 1,863 | 3,441 | 22.9% | \$16,468,813 | \$55,353,546 |
| Hotel, Motel, and Resort Desk Clerks | 34.7% | 496 | 932 | 24.5% | \$4,454,983 | \$13,742,510 |
| First-Line Supervisors of Construction | | | | | | |
| Trades and Extraction Workers | 34.6% | 376 | 711 | 34.3% | \$33,651,594 | \$64,469,829 |
| Underground Mining Machine Operators, All Other | 34.0% | 286 | 555 | 25.4% | \$14,238,241 | \$41,710,673 |
| Baggage Porters and Bellhops | 33.8% | 91 | 178 | 17.4% | \$979,425 | \$4,641,429 |
| Mining and Geological Engineers, Including Mining Safety Engineers | 33.3% | 86 | 172 | 29.7% | \$5,865,880 | \$13,863,508 |

Note: Occupations with 200 or more total employees Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

23 High Paying Private Occupations With Large Numbers of Nonresidents Greater than Alaska median earnings (\$7,416 per quarter), 2016

| Occupation title | Nonresident workers | Total workers | Percent nonresident | Avg quarterly wages |
|---|------------------------|------------------|------------------------|------------------------|
| Construction Laborers | 1,253 | 6,055 | 20.7% | \$9,971 |
| Fishers and Related Fishing Workers | 1,216 | 1,734 | 70.1% | \$8,791 |
| Airline Pilots, Copilots, and Flight Engineers | 1,137 | 2,184 | 52.1% | \$31,968 |
| Registered Nurses | 1,073 | 5,511 | 19.5% | \$16,492 |
| Laborers and Freight, Stock, and Material Movers, Hand | 1,059 | 4,411 | 24.0% | \$7,583 |
| Operating Engineers and Other Construction Equipment Operators | 936 | 3,369 | 27.8% | \$17,401 |
| Office Clerks, General | 757 | 4,740 | 16.0% | \$8,086 |
| Maintenance and Repair Workers, General | 733 | 2,825 | 25.9% | \$11,574 |
| Carpenters | 727 | 3,328 | 21.8% | \$12,315 |
| Service Unit Operators, Oil and Gas | 720 | 1,637 | 44.0% | \$22,803 |
| Installation, Maintenance, and Repair Workers, All Other | 678 | 1,701 | 39.9% | \$16,350 |
| Heavy and Tractor-Trailer Truck Drivers | 667 | 3,602 | 18.5% | \$13,879 |
| Electricians | 654 | 2,478 | 26.4% | \$18,801 |
| Sailors and Marine Oilers | 637 | 1,112 | 57.3% | \$10,516 |
| Captains, Mates, and Pilots of Water Vessels | 620 | 958 | 64.7% | \$17,724 |
| Office and Administrative Support Workers, All Other | 605 | 5,933 | 10.2% | \$8,836 |
| General and Operations Managers | 537 | 3,943 | 13.6% | \$23,020 |
| Material Moving Workers, All Other | 504 | 2,006 | 25.1% | \$10,728 |
| Sales and Related Workers, All Other | 492 | 2,737 | 18.0% | \$7,683 |
| Production Workers, All Other | 465 | 1,446 | 32.2% | \$28,948 |
| Customer Service Representatives | 460 | 3,030 | 15.2% | \$8,045 |
| Managers, All Other | 441 | 2,344 | 18.8% | \$23,966 |
| Plumbers, Pipefitters, and Steamfitters | 430 | 1,800 | 23.9% | \$17,762 |
| Security Guards | 399 | 2,259 | 17.7% | \$8,963 |
| First-Line Supervisors of Const Trades and Extraction Workers | 366 | 1,029 | 35.6% | \$26,892 |
| Roustabouts, Oil and Gas | 356 | 1,004 | 35.5% | \$14,367 |
| First-Line Supervisors of Production and Operating Workers for Fish, Shellfish or other Seafood Products | 353 | 444 | 79.5% | \$8,642 |
| Commercial Pilots | 344 | 802 | 42.9% | \$16,090 |
| Mobile Heavy Equipment Mechanics, Except Engines | 335 | 910 | 42.7% | \$10,090 \$20,911 |
| Zoologists and Wildlife Biologists | 332 | 415 | 80.0% | \$9,032 |
| Welders, Cutters, Solderers, and Brazers | 326 | 1,016 | 32.1% | \$15,963 |
| Chefs and Head Cooks | 325 | 697 | 46.6% | \$9,363 |
| Transportation Workers, All Other | 312 | 1,805 | 17.3% | \$18,160 |
| Bookkeeping, Accounting, and Auditing Clerks | 306 | 3,606 | 8.5% | \$9,448 |
| Construction and Related Workers, All Other | 292 | 1,040 | 28.1% | \$14,103 |
| Underground Mining Machine Operators, All Other | 286 | 841 | 34.0% | \$19,939 |
| First-Line Supervisors of Retail Sales Workers | 274 | 2,453 | 11.2% | \$9,500 |
| Engineers, All Other | 270 | 1,183 | 22.8% | \$32,867 |
| Helpers: Installation, Maintenance, and Repair Workers | 266 | 1,011 | 26.3% | \$10,035 |
| Automotive Service Technicians and Mechanics | 263 | 1,815 | 14.5% | \$10,440 |
| Construction Managers | 259 | 1,202 | 21.5% | \$10,440 |
| Light Truck Drivers | 259 | 1,687 | 15.4% | \$9,695 |
| Aircraft Mechanics and Service Technicians | 248 | 1,249 | 19.9% | \$14,809 |
| Sales Representatives, Services, All Other | 240 | 1,626 | 14.8% | \$12,957 |
| First-Line Supervisors of Production and Operating Workers | 235 | 647 | 36.3% | \$23,426 |
| Secretaries and Admin Assistants, Exc Legal, Medical, and Exec | 208 | 1,959 | 10.6% | \$7,884 |
| Geological Technicians, Except Hydrologic Technicians | 203 | 536 | 37.9% | \$23,501 |
| Ship Engineers | 203 | 262 | 77.5% | \$19,739 |
| Helpers, Construction Trades, All Other | 202 | 908 | 22.2% | \$11,311 |
| Engineering Technologists and Technicians, Exc Drafters, All Other | 199 | 628 | 31.7% | \$23,897 |
| | 1// | 020 | J1.7 /0 | Ψ_2,071 |



Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

of nonresidents, at 6.7 percent and 7.4 percent respectively.

Nonresidents by Occupation

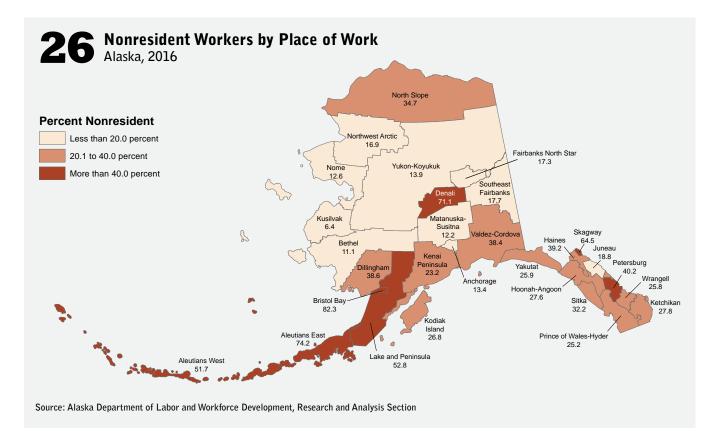
There were large numbers of nonresidents in a variety of occupations. The largest were seafood processing workers, retail salespeople, waiters and waitresses, and maids and housekeeping cleaners. (See exhibits 21 and 22.)

Some occupations with large numbers of nonresidents are relatively high paying, and though they may require significant training or education, this suggests an opportunity for unemployed Alaskans with the necessary credentials.

Exhibit 23 lists high paying occupations with the

25 Worker Residency by Borough or Census Area Alaska, 2016

| AldSKa, 2010 | | | | | |
|-----------------------------------|-----------|----------|--------------|---------|---------|
| | Local | Nonlocal | | Total | Percent |
| Borough or Census Area | residents | | Nonresidents | workers | local |
| Kusilvak Census Area | 3,162 | 277 | 234 | 3,673 | 86.1% |
| Matanuska-Susitna Borough | 23,589 | 2,782 | 3,651 | 30,022 | 78.6% |
| Bethel Census Area | 7,983 | 1,086 | 1,135 | 10,204 | 78.2% |
| Nome Census Area | 4,373 | 527 | 706 | 5,606 | 78.0% |
| Anchorage Municipality | 125,397 | 17,885 | 22,086 | 165,368 | 75.8% |
| Juneau, City and Borough | 15,410 | 1,626 | 3,941 | 20,977 | 73.5% |
| Fairbanks North Star Borough | 34,150 | 5,352 | 8,289 | 47,791 | 71.5% |
| Kenai Peninsula Borough | 20,394 | 1,856 | 6,713 | 28,963 | 70.4% |
| Prince of Wales-Hyder Census Area | 2,259 | 201 | 830 | 3,290 | 68.7% |
| Kodiak Island Borough | 5,706 | 379 | 2,232 | 8,317 | 68.6% |
| Northwest Arctic Borough | 3,030 | 687 | 754 | 4,471 | 67.8% |
| Yukon-Koyukuk Census Area | 2,149 | 665 | 455 | 3,269 | 65.7% |
| Wrangell, City and Borough | 781 | 126 | 316 | 1,223 | 63.9% |
| Ketchikan Gateway Borough | 6,019 | 834 | 2,633 | 9,486 | 63.5% |
| Yakutat, City and Borough | 265 | 47 | 109 | 421 | 62.9% |
| Sitka, City and Borough | 3,681 | 297 | 1,888 | 5,866 | 62.8% |
| Hoonah-Angoon Census Area | 727 | 119 | 322 | 1,168 | 62.2% |
| Haines Borough | 815 | 108 | 595 | 1,518 | 53.7% |
| Petersburg Borough | 1,102 | 144 | 839 | 2,085 | 52.9% |
| Southeast Fairbanks Census Area | 1,807 | 1,002 | 605 | 3,414 | 52.9% |
| Dillingham Census Area | 2,052 | 387 | 1,533 | 3,972 | 51.7% |
| Valdez-Cordova Census Area | 3,764 | 921 | 2,918 | 7,603 | 49.5% |
| Aleutians West Census Area | 2,083 | 361 | 2,613 | 5,057 | 41.2% |
| Lake and Peninsula Borough | 680 | 204 | 987 | 1,871 | 36.3% |
| Skagway Municipality | 497 | 105 | 1,095 | 1,697 | 29.3% |
| Aleutians East Borough | 762 | 334 | 3,145 | 4,241 | 18.0% |
| North Slope Borough | 3,483 | 9,297 | 6,804 | 19,584 | 17.8% |
| Denali Borough | 621 | 558 | 2,895 | 4,074 | 15.2% |
| Bristol Bay Borough | 385 | 364 | 3,493 | 4,242 | 9.1% |
| | | | | | |



largest numbers of nonresidents. Some of the highest paying include engineers, airline pilots, production workers, and construction managers.

Geographic Distribution

We determine whether residents live in the same borough and census area where they work by matching employment records that show place of work with Permanent Fund Dividend applicant addresses.⁸ Overall, 67.7 percent lived and worked in the same area in 2016, and 11.9 percent of resident workers lived somewhere else in Alaska. (See exhibits 24 through 27 for regional and resident data.)

Municipality of Anchorage

Anchorage is Alaska's most populous city and had 165,368 workers in 2016, or 39.7 percent of all Alaska workers.

Because of its size, Anchorage has a diverse economy with no dominant industry. Service industries such as health care and social assistance, retail trade, and accommodation and food services are among the city's largest. Anchorage also hosts the headquarters of firms that do business elsewhere, has a large city government and school district, and is a major air transportation hub. The Port of Anchorage, Ted Stevens Anchorage International Airport, the Alaska Railroad, and the highway system all make the city Alaska's primary distributor of goods.

Anchorage is also home to Alaska's largest military base, Joint Base Elmendorf-Richardson, which also creates civilian jobs.

Although Anchorage has the most nonresident workers in the state, that is because it has the most workers overall. Nonresidents were 13.4 percent of the Anchorage workforce in 2016, toward the low end compared to other parts of the state.

The 22,086 nonresidents who worked in Anchorage were mostly concentrated in the accommodation and food services and retail trade industries, which were 21.6 percent and 14.1 percent nonresident respectively.

Seventy-six percent of Anchorage workers were locals (75.8 percent) and 10.8 percent were residents of other places in Alaska, mainly the Matanuska-Susitna Borough, Anchorage's northern neighbor. For most Mat-Su residents, Anchorage is about an hour-and-a-

27 Resident and Nonresident Workers and Wages By place of work and Alaska place of residence, 2016

| | | Resident | Workers | Nonresid | ent Workers | | Wages | 5 | |
|---|------------------------------------|-------------------|----------------------|--------------|------------------------|--------------------------------|------------------------------|------------------------------|------------------------|
| Borough or Census Area | Ownership | Local resident | Other AK resident | Number | Percent nonresident | Local resident | Other AK resident | Nonresident | Percent nonresident |
| Anchorage/Mat-Su | | | | | | | | | |
| Anchorage | State Government | 8,539 | 1,352 | 427 | 4.1% | \$444,194,392 | \$71,096,559 | \$11,607,273 | 2.2% |
| Anchorage | Local Government | 10,560 | 764 | 538 | 4.5% | \$523,902,386 | \$50,634,505 | \$11,071,960 | 1.9% |
| Anchorage | Private Sector | 106,298 | 15,769 | 21,121 | 14.8% | \$4,770,001,163 | \$761,147,294 | \$694,398,377 | 11.2% |
| Mat-Su | State Government | 1,359 | 164 | 49 | 3.1% | \$64,289,663 | \$8,195,088 | \$1,393,196 | 1.9% |
| Mat-Su | Local Government | 3,913 | 131 | 143 | 3.4% | \$154,070,158 | \$5,645,513 | \$2,095,487 | 1.3% |
| Mat-Su | Private Sector | 18,317 | 2,487 | 3,459 | 14.3% | \$549,434,363 | \$87,063,091 | \$53,570,195 | 7.8% |
| Gulf Coast Region | | | | | | | | | |
| Kenai | State Government | 1,133 | 136 | 111 | 8.0% | \$55,758,799 | \$6,842,612 | \$4,354,754 | 6.5% |
| Kenai | Local Government | 3,593 | 74 | 236 | 6.0% | \$164,369,008 | \$2,544,918 | \$7,484,666 | 4.3% |
| Kenai | Private Sector | 15,668 | 1,646 | 6,366 | 26.9% | \$551,793,546 | \$58,446,666 | \$114,295,604 | 15.8% |
| Kodiak Island | State Government | 240 | 17 | 26 | 9.2% | \$12,342,742 | \$415,517 | \$651,178 | 4.9% |
| Kodiak Island | Local Government | 898 | 27 | 156 | 14.4% | \$34,139,762 | \$641,613 | \$3,297,730 | 8.7% |
| Kodiak Island | Private Sector | 4,568 | 335 | 2,050 | 29.5% | \$147,547,850 | \$11,442,550 | \$36,325,834 | 18.6% |
| Valdez-Cordova | State Government | 231 | 63 | 26 | 8.1% | \$10,859,005 | \$3,701,225 | \$1,135,695 | 7.2% |
| Valdez-Cordova | Local Government | 729 | 50 | 104 | 11.8% | \$26,052,131 | \$1,477,398 | \$2,095,430 | 7.1% |
| Valdez-Cordova | Private Sector | 2,804 | 808 | 2,788 | 43.6% | \$118,305,790 | \$36,312,437 | \$36,459,136 | 19.1% |
| Interior Region | | 05 | | ND | ND | ¢1 014 400 | ¢000 (01 | ND | ND |
| Denali | State Government | 25 | 8 | ND 17 | ND | \$1,314,482 \$2,747,407 | \$282,691 \$204 444 | ND | ND 0.4% |
| Denali Fairbanks North Star | Local Government | 115 | | | 12.3% | \$3,747,497 | \$206,666 | \$408,436 | 9.4% |
| | Private Sector | 481 | 544 | 2,877 | 73.7% | \$22,917,094 | \$18,841,737 | \$35,950,804 | 46.3% |
| Fairbanks North Star | State Government | 4,555 | 252 | 499 | 9.4% | \$227,456,285 | \$5,683,190 | \$9,938,591 | 4.1% |
| Fairbanks North Star Southeast Fairbanks | Local Government Private Sector | 3,308 | 91 5 000 | 271 7,519 | 7.4% 19.4% | \$148,568,261 | \$1,840,752 \$146,889,214 | \$4,851,869 \$152,799,020 | 3.1% 11.6% |
| Southeast Fairbanks | State Government | 26,287 115 | 5,009 17 | 1,519 | 9.0% | \$1,015,017,412 \$5,494,887 | \$146,669,214 \$761,359 | \$152,799,020 \$251,717 | 3.9% |
| Southeast Fairbanks | Local Government | 413 | 46 | 44 | 8.7% | \$12,068,029 | \$833,077 | \$593,502 | 4.4% |
| Yukon-Koyukuk | Private Sector | 1,279 | 939 | 548 | 19.8% | \$42,639,793 | \$62,846,094 | \$31,750,183 | 23.1% |
| Yukon-Koyukuk | State Government | 50 | 65 | ND | 19.078 ND | \$2,120,692 | \$3,297,373 | ۵,105 ND | 23.178 ND |
| Yukon-Koyukuk | Local Government | 1,549 | 244 | 168 | 8.6% | \$27,103,568 | \$4,153,655 | \$2,499,793 | 7.4% |
| Yukon-Koyukuk | Private Sector | 550 | 356 | 283 | 23.8% | \$14,109,785 | \$14,900,864 | \$8,331,995 | 22.3% |
| Northern Region | | | | | | | | | |
| Nome | State Government | 220 | 29 | 14 | 5.3% | \$13,628,736 | \$1,166,627 | \$413,928 | 2.7% |
| Nome | Local Government | 1,971 | 110 | 222 | 9.6% | \$43,806,980 | \$1,964,589 | \$4,758,714 | 9.4% |
| Nome | Private Sector | 2,182 | 388 | 470 | 15.5% | \$83,261,960 | \$15,241,187 | \$15,495,521 | 13.6% |
| North Slope | State Government | 14 | 24 | ND | ND | \$779,976 | \$1,698,461 | . ND | ND |
| North Slope | Local Government | 2,163 | 216 | 282 | 10.6% | \$93,349,778 | \$12,885,781 | \$10,879,593 | 9.3% |
| North Slope | Private Sector | 1,306 | 9,057 | 6,519 | 38.6% | \$60,882,026 | \$756,619,580 | \$534,213,088 | 39.5% |
| Northwest Arctic | State Government | 64 | 7 | ND | ND | \$3,890,991 | \$658,327 | ND | ND |
| Northwest Arctic | Local Government | 1,231 | 83 | 180 | 12.0% | \$30,998,604 | \$2,448,681 | \$4,936,530 | 12.9% |
| Northwest Arctic | Private Sector | 1,735 | 597 | 572 | 19.7% | \$67,985,464 | \$44,178,045 | \$36,370,740 | 24.5% |
| Southeast Region Haines | State Government | 39 | 10 | 7 | 12.5% | \$1,544,796 | \$242,414 | \$126,038 | 6.6% |
| Haines | Local Government | 145 | 10 | 17 | 9.9% | \$4,750,792 | \$145,563 | \$299,701 | 5.8% |
| Haines | Private Sector | 631 | 88 | 571 | 44.3% | \$15,287,575 | \$2,034,694 | \$5,678,515 | 24.7% |
| Hoonah-Angoon | State Government | 12 | ND | ND | ND | \$396,036 | ND | ND | ND |
| Hoonah-Angoon | Local Government | 288 | 33 | 38 | 10.6% | \$6,792,230 | \$941,557 | \$667,627 | 7.9% |
| Hoonah-Angoon | Private Sector | 427 | 85 | 282 | 35.5% | \$7,785,810 | \$1,768,649 | \$3,752,488 | 28.2% |
| Juneau | State Government | 3,705 | 336 | 199 | 4.7% | \$202,009,562 | \$17,963,535 | \$6,527,178 | 2.9% |
| Juneau | Local Government | 2,287 | 67 | 172 | 6.8% | \$107,546,177 | \$1,637,839 | \$6,279,981 | 5.4% |
| Juneau | Private Sector | 9,418 | 1,223 | 3,570 | 25.1% | \$343,011,696 | \$51,707,665 | \$92,957,734 | 19.1% |
| Ketchikan Gateway | State Government | 526 | 107 | 86 | 12.0% | \$26,791,008 | \$5,877,253 | \$3,102,319 | 8.7% |
| Ketchikan Gateway | Local Government | 1,126 | 222 | 118 | 8.0% | \$52,707,031 | \$8,593,452 | \$2,494,908 | 3.9% |
| Ketchikan Gateway | Private Sector | 4,367 | 505 | 2,429 | 33.3% | \$146,147,337 | \$13,897,501 | \$40,327,001 | 20.1% |
| Petersburg | State Government | 42 | 6 | ND | ND | \$1,991,264 | \$128,143 | ND | ND |
| Petersburg | Local Government | 364 | 9 | 34 | 8.4% | \$15,589,545 | \$224,995 | \$780,449 | 4.7% |
| Petersburg | Private Sector | 696 | 129 | 804 | 49.4% | \$17,962,597 | \$3,826,844 | \$9,100,144 | 29.5% |
| Prince of Wales-Hyder | State Government | 41 | 5 | ND | ND | \$1,655,565 | \$218,483 | ND | ND |
| Prince of Wales-Hyder | Local Government | 1,044 | 33 | 97 | 8.3% | \$32,980,046 | \$992,644 | \$1,823,671 | 5.1% |
| Prince of Wales-Hyder | Private Sector | 1,174 | 163 | 731 | 35.3% | \$33,209,175 | \$6,171,743 | \$14,109,248 | 26.4% |
| Sitka | State Government | 309 | 26 | 23 | 6.4% | \$14,305,588 | \$948,592 | \$320,148 | 2.1% |
| Sitka | Local Government | 763 | 20 | 88 | 10.1% | \$34,750,067 | \$609,071 | \$1,446,413 | 3.9% |
| Sitka | Private Sector | 2,609 | 251 | 1,777 | 38.3% | \$85,558,439 | \$6,935,154 | \$27,035,732 | 22.6% |
| Skagway | State Government | 11 | ND | ND | ND | \$525,161 | ND | | ND |
| Skagway | Local Government | 115 | ND 102 | 21 | 15.2% | \$4,902,587 | ND | \$587,379 | 10.6% |
| Skagway | Private Sector | 371 | 102 | 1,072 | 69.4% | \$11,406,378 | \$3,103,877 | \$15,181,386 | 51.1% |

Resident and Nonresident Workers and Wages, continued

27 Resident and Homeshace of residence, 2016 By place of work and Alaska place of residence, 2016

| | | Resident | Workers | Nonresid | ent Workers | | Wages | | |
|------------------------|------------------|----------|----------|----------|-------------|----------------|-------------------|--------------------|-------------|
| | | Local | Other AK | | Percent | | Other AK | | Percent |
| Borough or Census Area | Ownership | resident | resident | Number | nonresident | Local resident | resident | Nonresident | nonresident |
| Southeast (cont.) | | | | | | | | | |
| Wrangell | State Government | 21 | ND | NA | NA | \$819,587 | ND | NA | NA |
| Wrangell | Local Government | 280 | ND | 29 | ND | \$9,717,210 | ND | \$696,906 | ND |
| Wrangell | Private Sector | 480 | 120 | 287 | 32.4% | \$13,088,042 | \$2,796,527 | \$3,638,032 | 18.6% |
| Yakutat | State Government | 10 | ND | ND | ND | \$432,039 | ND | ND | ND |
| Yakutat | Local Government | 117 | 6 | 11 | 8.2% | \$3,720,522 | \$116,032 | \$258,765 | 6.3% |
| Yakutat | Private Sector | 138 | 38 | 93 | 34.6% | \$3,847,664 | \$1,016,584 | \$1,590,485 | 24.6% |
| Southwest Region | | | | | | | | | |
| Aleutians East | State Government | 9 | 9 | 6 | 25.0% | \$345,228 | \$189,281 | \$82,670 | 13.4% |
| Aleutians East | Local Government | 247 | 40 | 31 | 9.7% | \$7,609,040 | \$1,098,249 | \$739,611 | 7.8% |
| Aleutians East | Private Sector | 506 | 285 | 3,108 | 79.7% | \$17,589,557 | \$10,336,994 | \$75,002,620 | 72.9% |
| Aleutians West | State Government | 25 | ND | ND | ND | \$1,615,246 | 410,550,771 ND | 47.5,001,010 ND | ND |
| Aleutians West | Local Government | 412 | 23 | 64 | 12.8% | \$18,937,750 | \$789,265 | \$1,748,427 | 8.1% |
| Aleutians West | Private Sector | 1,646 | 333 | 2,544 | 56.2% | \$72,681,215 | \$15,466,757 | \$70,666,157 | 44.5% |
| Bethel | State Government | 316 | 55 | 25 | 6.3% | \$19,471,839 | \$3,486,128 | \$637,963 | 2.7% |
| Bethel | Local Government | 3,586 | 140 | 346 | 8.5% | \$75,454,898 | \$3,841,501 | \$9,298,169 | 10.5% |
| Bethel | Private Sector | 4,081 | 891 | 764 | 13.3% | \$110,537,618 | \$33,775,224 | \$25,995,562 | 15.3% |
| Bristol Bay | State Government | , 17 | 17 | 9 | 20.9% | \$1,376,653 | \$319,782 | \$200,454 | 10.6% |
| Bristol Bay | Local Government | 115 | 29 | 35 | 19.6% | \$4,563,950 | \$614,413 | \$825,646 | 13.8% |
| Bristol Bay | Private Sector | 253 | 318 | 3,449 | 85.8% | \$9,028,973 | \$6,098,291 | \$34,451,907 | 69.5% |
| Dillingham | State Government | 90 | 18 | 20 | 15.6% | \$4,151,279 | \$316,635 | \$332,303 | 6.9% |
| Dillingham | Local Government | 698 | 37 | 89 | 10.8% | \$16,641,046 | \$1,069,190 | \$1,742,476 | 9.0% |
| Dillingham | Private Sector | 1,264 | 332 | 1,424 | 47.2% | \$44,395,573 | \$8,442,677 | \$20,847,079 | 28.3% |
| Kusilvak | State Government | 88 | 18 | ND | ND | \$1,620,495 | \$1,179,316 | ND | ND |
| Kusilvak | Local Government | 1,649 | 85 | 116 | 6.3% | \$30,523,599 | \$2,011,166 | \$3,319,166 | 9.3% |
| Kusilvak | Private Sector | 1,425 | 174 | 114 | 6.7% | \$16,931,186 | \$5,665,213 | \$3,371,256 | 13.0% |
| Lake and Peninsula | State Government | ND | ND | ND | ND | ND | ND | ND | ND |
| Lake and Peninsula | Local Government | 511 | 73 | 66 | 10.2% | \$9,392,655 | \$2,092,397 | \$921,558 | 7.4% |
| Lake and Peninsula | Private Sector | 166 | 128 | 919 | 75.8% | \$5,055,167 | \$4,255,819 | \$11,791,384 | 55.9% |

Notes: ND = Not disclosable. NA = Not applicable. Local residents live in the reported borough/census area as determined by the ZIP code of the most recent Permanent Fund Dividend mailing address. Worker employment records showing place of work information are matched with Permanent Fund Dividend applicant address information to determine the number of local residents, Alaska residents and nonresidents working in each borough/census area. Place of work was based upon employer reported place of work information. Workers were assigned to a geographic area based on the place of work where they earned the most money in 2016. If employers did not provide specific place of work information for the worker, the borough/census area of the primary business location was used to determine the place of work.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

half commute round trip. Cheaper housing in Mat-Su and higher average wages in Anchorage make the drive worth it for some.

Nonlocal Anchorage workers were concentrated in the construction industry, which was 23.2 percent nonlocal Alaskan, and the utilities industry, which was 16.3 percent nonlocal.

Matanuska-Susitna Borough

The Matanuska-Susitna Borough is Alaska's fastest growing and second most populated area. Although most of the Mat-Su population lives in the greater Palmer-Wasilla area, smaller communities dot the Parks and Glenn highways.

In some ways, Mat-Su is a suburb of Anchorage, and many Mat-Su residents work and shop there. Still,

retail trade is Mat-Su's biggest industry, spurred by the recent construction of several new big box stores in the borough.

In 2016, 30,022 people worked in the Mat-Su Borough and just 12.2 percent were nonresidents. The borough doesn't have as much employment in the industries that tend to employ high percentages of nonresidents, such as seafood processing and tourism.

Local government and health care were other large employers in Mat-Su, with 93.5 and 82.6 percent local workers, respectively.

The largest employer of nonresidents in Mat-Su was the accommodation and food services industry, where 20 percent of its 3,525 workers were not residents. Transportation and warehousing employed 1,248 workers at 24.1 percent nonresident, and the educational services industry (which provides training or instruc-

18 | Nonresidents Working in Alaska: 2016

tion but excludes public schools) employed 623 workers at 36 percent nonresident.

While 78.6 percent of Mat-Su workers were locals in 2016, many Mat-Su residents worked elsewhere. Estimates of commuter patterns from 2016 suggest nearly a third worked in Anchorage and 6.7 percent worked in the North Slope Borough.

The loss of oil industry jobs had a significant effect on Mat-Su's workers. The number of workers who lived in Mat-Su and worked on the North Slope fell by 578 workers, or 17 percent, from 2015.

Fairbanks North Star Borough

The Fairbanks North Star Borough is the third most populated area in the state. Fairbanks is at the heart of Alaska's interior and is the northern terminus of the Parks and Richardson highways and the southern terminus of the Dalton Highway to the North Slope.

In addition to serving as the Interior's transportation hub, Fairbanks is its economic, medical, educational, and cultural center. The University of Alaska Fairbanks is the borough's largest employer. Eielson Air Force Base and Fort Wainwright also generate civilian jobs in the borough.

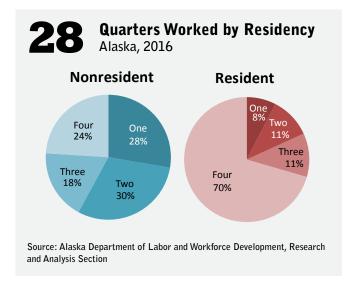
Fairbanks had 47,791 workers in 2016, or 11.5 percent of the state's workforce. Those who live and work in Fairbanks made up a majority at 71.5 percent. Alaska residents who lived outside of Fairbanks represented 11.2 percent. The remaining 8,289 were nonresidents, at 17.3 percent.

Fairbanks is another mostly urban center with workers spanning all industries. Nonresidents were concentrated in accommodation and food services, retail trade, health care, and construction, with the largest share in accommodation and food services at 31.5 percent.

Fairbanks is home to Fort Knox Gold Mine, a major mining employer. Nonresidents made up 22.5 percent of all mining workers in Fairbanks in 2016. Nonlocal Alaskans made up another 16.6 percent, making locals the remaining 60.9 percent.

Rural Interior Region

The Rural Interior Region is the largest geographically but the least populous in Alaska. This doughnutshaped region includes the vast Yukon-Koyukuk



Census Area, the Denali Borough, and the Southeast Fairbanks Census Area (but it excludes the Fairbanks North Star Borough). The region is so large and diverse that it can't be characterized as a single economy, but a few key industries keep parts of the region flourishing.

The region had 10,757 workers in 2016, with 42.5 percent local residents. The percentage of nonresident workers in the region was 36.8 percent, the second highest of all eight regions. Nearly three-quarters of Denali Borough workers are nonresidents.

Accommodation and food service is the region's largest industry, followed by local government, which is one of the few to offer year-round employment across the entire area. Even the smallest communities along the Yukon River or on the tundra have a school or local government. Of the area's 2,602 local government workers in 2016, 79.8 percent were locals.

The major employers of nonresidents in the region were the accommodation and food services industry and mining, which are concentrated in Denali National Park, Usibelli Coal Mine, and the Pogo Gold Mine.

In 2016, 78.4 percent of the region's accommodation and food service workers were nonresidents and another 9 percent were nonlocal Alaskans, meaning just 12.6 percent were locals. Nearly all of these tourism-related jobs are seasonal, and locals and nonlocals both earn more than nonresidents.

Mining employed 745 workers in the Rural Interior, 17.9 percent of whom were locals. The largest share were nonresidents — 45.9 percent — and the remaining 36.2 percent were nonlocal residents. Many other industries in the region had high percentages of nonresidents, typical of highly seasonal or remote work.

Northern Region

Alaska's Northern Region includes the North Slope and Northwest Arctic boroughs and the Nome Census Area. Most communities in the Northern Region are on the Arctic coast and are home to primarily Inupiat populations.

The Northern Region has two economies. One is village-based, with local government and service jobs augmented by subsistence production, and the other is industrialized resource extraction at North Slope oil fields and the Red Dog Mine.

In 2016, 27.9 percent of the Northern Region's 29,661 workers were nonresidents and another 35.4 percent were nonlocal Alaskans. The Northern Region has the state's lowest percentage of local workers at 36.7 percent.

The mining industry, which includes workers at Red Dog Mine in the Northwest Arctic Borough as well as North Slope oil employment, is the region's largest with 9,866 workers in 2016. Just 2.4 percent of workers in the Northern Region mining industry were local, and 54.9 percent were nonlocal Alaskans. Nonresidents made up 42.7 percent.

Local government, which includes schools, is the region's second-largest industry with 6,458 workers, 83.1 percent of whom were local.

Construction is another major industry, serving communities and the extractive industries. Of the 1,998 construction workers in the Northern Region in 2016, 19.3 percent were local, 51 percent were nonlocal, and 29.7 percent were nonresident.

Southwest Region

The Southwest Region includes the Kusilvak, Bethel, Dillingham, and Aleutians West census areas and the Bristol Bay, Lake and Peninsula, and Aleutians East boroughs. Fishing and fish processing are the region's dominant industries, but because of data limitations, this report can't capture most fish harvesters.

The Southwest Region had 33,260 workers in 2016, excluding fish harvesters, with manufacturing as its largest employer (mainly seafood processing). The Southwest manufacturing industry employed 11,664 workers, or just over a third of the area's wage and salary workers.

Seafood processing has historically employed a high percentage of nonresidents because the work is seasonal, remote, and relatively low paying. In most communities with seafood processing plants, the local population can't satisfy the peak demand for workers.

Of all manufacturing workers in Southwest, 80.1 percent were nonresidents and just 5.1 were nonlocal Alaskans. Locals made up 14.8 percent, and they earned more on average than nonlocals and nonresidents. Local workers tend to hold higher-paying jobs and work more months of the year.

Southwest's seafood processing industry holds a significant portion of Alaska's total nonresident workforce. Nonresidents in Southwest manufacturing represented 47.7 percent of all nonresidents working in that industry and 10.5 percent of all nonresident workers in Alaska.

As is typical for rural areas, local government is the largest employer in the Southwest Region. The industry employed 8,392 workers, 86 percent of whom were local. Other large industries in Southwest with a majority of local workers included health care and social services and retail.

Not all of Southwest is tied to the commercial fishing industry. Lake and Peninsula Borough and the Bethel and Kusilvak census areas have much smaller numbers of seafood processors. Kusilvak had the highest percentage of local workers in 2016 at 86.1 percent. The Bristol Bay Borough had the lowest percentage at 9.1 percent. (See Exhibit 25.)

Gulf Coast Region

The economically and geographically diverse Gulf Coast Region includes the Kodiak Island and Kenai Peninsula boroughs and the Valdez-Cordova Census Area.

Much of the Kenai Peninsula is a few hours' drive from Anchorage and shares many of the same urban characteristics. Tourism plays a significant role on the peninsula, and both sport and commercial fishing are economic drivers. The borough also has considerable oil and gas extraction.

The Kodiak Island Borough is home to part of Alaska's fishing fleet as well as one of the largest Coast Guard bases in the U.S.

20 | Nonresidents Working in Alaska: 2016

The Valdez-Cordova Census Area includes the coastal communities of Valdez and Cordova as well as inland communities in the Copper River Basin.

The Gulf Coast Region had 44,883 workers in 2016, and nearly two-thirds worked in the Kenai Peninsula Borough. Manufacturing — mostly seafood processing but including oil refining — employed 6,359. Among manufacturing workers, 39.8 percent were local and 56.5 percent were nonresident.

Local government was another large employer in the Gulf Coast with 5,867 workers, 89 percent of whom were local.

Visitor-related industries have high percentages of nonresidents in the Gulf Coast. The agriculture, forestry, fishing, and hunting industry had a nonresident percentage of 51.3. The arts, entertainment, and recreation industry was at 45.4 percent, and the accommodation and food services industry was 38.3 percent. The area mining industry, which is mostly Cook Inlet oil and gas extraction, had a nonresident percentage of 35.6.

Southeast Region

The Southeast panhandle is home to 10 boroughs and census areas, the largest of which is the City and Borough of Juneau, the state's capital. Of the 47,731 workers in Southeast in 2016, 26.3 percent were nonresident and 7.6 percent were nonlocal Alaskans.

The largest industry in Southeast is local government, which employed 7,560 people, 86.4 percent of whom were local.

Retail trade was next with 5,558 workers, two-thirds of whom were local. Nonresidents made up 24.5 percent.

State government was the third-largest industry at 5,540 workers. It had a lower percentage of nonresidents than local government at 5.9 percent versus 8.3 percent.

Other large industries in the region included manufacturing — its 4,561 workers were 66.9 percent nonresidents — and accommodation and food services, which had 4,750 workers, of whom 40.6 percent were nonresidents. Arts, entertainment, and recreation also had a high percentage of nonresidents, at 51 percent of its 1,528 workers.

Mining employed 1,045 workers, 46.9 percent of whom were nonresidents. The mining industry had one of the highest nonlocal resident shares of all industries in Southeast at 16.8 percent.

Notes

¹The Alaska Department of Labor and Workforce Development unemployment insurance wage file only includes workers covered by Alaska unemployment insurance. Therefore, all references to resident and nonresident workers exclude self-employed and federal workers, who are covered by federal unemployment insurance.

²Nonresident workers are those who didn't apply for a Permanent Fund Dividend in 2016 or 2017. The methodology in the appendix on the next page provides complete information on workers identified as nonresidents.

³Oilfield services support oil and gas companies. This subsector is a combination of the 213111 and 213112 NAICS codes.

⁴Alaska Seafood Industry Research Project, November 2017.

⁵The metal mining industry incorporates the metal ore mining and sup-

port activities for metal mining subsectors, NAICS 2122 and 213114, respectively. For more information on industry coding, see the NAICS 2012 manual.

⁶Scenic and sightseeing transportation refers to the 487 NAICS subsector.

⁷This includes two Standard Occupational Code groups: "airline pilots, co-pilots, and flight engineers" and "commercial airline pilots." Not all pilots are counted as employed in the air transportation industry. Industry classification is based on the employer's activities, not the specific tasks of an employee.

^aWorkers were assigned to a geographic area based on where they earned the most money in 2016. If employers did not provide a specific place of work for a worker, we used the borough or census area of the primary business location to determine the place of work. We derived place of residence for Alaskans from the ZIP code of the most recent PFD mailing address.

Appendix

About the Data

To calculate residency, the Department of Labor and Workforce Development matches quarterly Alaska unemployment insurance records (which contain industry, occupation, wages, and place of work information) for each worker with Alaska Permanent Fund Dividend applications. Wage records are not available for federal employees, the military, or the self-employed, so those workers are not part of this report.

People were considered residents for this report if they applied for a PFD in one of the two most recent years. Of the 327,048 workers identified as residents in the 2016 report, 289,188 (or 88.4 percent) appeared in both the 2016 and 2017 PFD applicant files. Of the remaining 37,860 resident workers 18,541 empeared in only t

resident workers, 18,541 appeared in only the 2016 file, suggesting they lived in Alaska for all of 2015 (the qualifying period) but left the state in 2016.

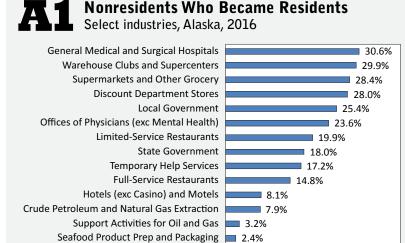
Another 19,329 workers appeared in only the 2017 PFD file. These workers most likely moved to Alaska during 2015 but weren't here for the entire calendar year so weren't eligible for a 2016 PFD.

Data Limitations

One of the obvious limitations of using PFD applications to determine residency is the lag due to the strict requirement that a person live in Alaska a full calendar year to become eligible. Knowing that a certain percentage initially identified as nonresidents will become residents is key to understanding this report.

All industries hire people who are new to the state and at least occasionally hire people from outside the state. That has different policy implications than industries that hire seasonal nonresidents or workers who keep their principal residence outside of Alaska.

An analysis of 2015 worker information showed that 10.4 percent of nonresident workers ultimately applied for a PFD and were considered residents for this report. The likelihood that someone new to Alaska will stay and



Note: Graph covers those who were nonresidents in 2015 and became residents in 2016. Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

> become eligible for a PFD varies significantly by industry. (See Exhibit A1.)

> For example, nonresident oil and seafood processing workers are much less likely to become residents than state and local government workers and health care workers. This again highlights the difference between workers who would be considered new residents by other measures and those who are nonresidents by any measure.

Alaska has especially large migration flows both in and out — 40,000 to 50,000 people move to Alaska and another 40,000 to 50,000 leave each year — and a certain number of workers live here and would be considered residents by other measures but do not stay long enough for PFD eligibility.

Other Measures of Residency

Despite these limitations, the PFD data provide the most comprehensive, reliable, and consistent way to measure residency. Other options such as voter registration, motor vehicle registration, driver's licenses, or fishing and hunting licenses capture a much smaller fraction of the Alaska workforce. The monetary incentive the PFD provides and the strict penalties for providing false information make it the clear choice for this report.

| | Avg nonresident wages/qtr | | \$6,136 \$4,020 \$12,048 \$12,883 \$10,098 | \$27,113 \$52,770 \$22,689 | \$18,976 | \$13,383 \$21,141 \$12,752 | ND 5,690 5,690 5,690 16,205 7,678 16,205 7,678 11,143 5,910 11,143 5,910 11,143 5,910 11,050 9,745 8,574 8,574 8,574 5,209 5,209 5,209 5,209 5,477 5,747 5,747 5,747 5,747 5,747 5,747 5,747 5,745 5,747 5,7455 5,745555555555 |
|---|-----------------------------------|---|--|--|------------------------|--|---|
| | Avg resident wages/qtr | | \$10,763 \$4,144 \$8,783 \$11,996 \$7,303 | \$23,372 \$48,374 \$21,506 | \$20,656 | \$14,253 \$19,372 \$14,495 | 4,069 7,553 7,553 6,273 6,273 5,889 9,541 12,940 12,940 12,940 12,940 12,395 13,781 11,292 14,127 14,127 14,127 11,292 11,008 11,008 11,008 11,008 11,008 11,008 11,157 11,157 11,157 11,157 8,5733 5,2106 \$5,210 \$5,210 \$5,2106 \$5,212 \$5,2106 \$5,212 \$5,2106 \$5,212 \$5,213 \$5,212 \$5,212 \$5,213 \$5,212 \$5,213 \$5,212 \$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213\$\$5,213 |
| | Percent nonresident wages | | 27.0% 18.9% 53.0% 34.6% | 32.5% 27.5% 36.8% | 3.3% | 13.8% 19.9% 11.3% | ND 13.4 6.3.1 6.3.1 19.0 19.0 18.1 18.1 18.1 18.9 10.0 10.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9 |
| | Nonresident wages | | \$3,607,911 \$872,424 \$11,577,804 \$8,876,327 \$686,693 | \$102,812,584 \$211,290,462 \$317,828,104 | \$6,432,782 | \$39,761,998 \$64,374,006 \$60,765,309 | ND 268,632,083 62,592 62,592 65,592 729,381 729,381 729,381 729,381 729,381 729,981 729,981 729,981 729,900 2,740,417 755,442 442,799 5,549,981 755,442 441,260 755,442 441,260 755,442 740,417 755,442 740,417 755,442 740,417 755,442 740,417 755,442 742 742 742 742 742 742 742 742 742 |
| | Resident wages | | \$9,762,438 \$3,754,597 \$3,530,711 \$7,857,285 \$1,299,920 | \$213,832,954 \$556,397,990 \$545,364,560 | \$187,883,024 | \$247,440,133 \$259,529,291 \$479,283,149 | 117, 93 157, 270, 745 213, 275 213, 275 213, 275 278, 745 2, 786, 745 2, 786, 745 2, 786, 733 2, 735, 558 7, 355, 558 19, 022, 325 5, 558, 107 5, 558, 105 5, 55 |
| | Percent nonresident workers | | 46.1% 21.5% 57.7% 34.4% | 32.3% 28.3% 40.3% | 4.9% | 19.5% 23.0% 17.2% | ND 21.3 72.2 72.2 15.2 15.2 15.2 11.5 11.9 11.9 15.8 15.8 11.9 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% 15.1% |
| Nages 6 | Nonresident workers | | 248 97 557 33 | 1,191 1,205 4,765 | 125 | 1,315 1,209 2,054 | ND 17,138 98 16 16 16 16 33 33 33 33 33 24 24 24 24 24 24 24 24 24 24 24 24 24 |
| orkers and Wages in Alaska, 2016 | Resident workers | | 290 354 185 210 63 | 2,492 3,048 7,049 | 2,429 | 5,445 4,051 9,862 | $\begin{array}{c}10\\ 6,592\\ 6,592\\ 201\\ 201\\ 201\\ 201\\ 201\\ 201\\ 201\\ 20$ |
| Resident and Nonresident Wor Private, state, and local government ir | Industry | Agriculture, Forestry, Fishing, and Hunting | Animal Production and Aquaculture Crop Production Fishing, Hunting and Trapping Forestry and Logging Support Activities for Agriculture and Forestry | Mining Mining (except Oil and Gas) Oil and Gas Extraction Support Activities for Mining | Utilities Utilities | Construction Construction of Buildings Heavy and Civil Engineering Construction Specialty Trade Contractors | Amutacturing Beverage and Tobacco Product Manufacturing Food Manufacturing Cood Manufacturing Leatther and Allied Product Manufacturing Textile Mulls Textile Molucs Mills Textile Molucs Mills Textile Molucs Manufacturing Perper Manufacturing Paper Manufacturing Paper Manufacturing Printing and Related Support Activities Wood Product Manufacturing Fabricated Metal Product Manufacturing Miscellaneous Manufacturing Miscellaneous Manufacturing Miscellaneous Manufacturing Miscellaneous Manufacturing Miscellaneous Manufacturing Fabricated Metal Manufacturing Fabricated Metal Product Manufacturing Fabricated Metal Product Manufacturing Miscellaneous Manufacturing Misce |

| Industry | Resident workers | Nonresident workers | Percent nonresident workers | Resident wages | Nonresident wages | Percent nonresident wages | Avg resident wages/qtr | Avg nonresident wages/qtr |
|---|---|---|--|--|---|---|---|--|
| Miscellaneous Store Retailers Nonstore Retailers Sporting Goods, Hobby, Musical Instrument, and Book Stores | 2,861 1,396 2,448 | 723 188 637 | 20.2% 11.9% 20.6% | \$54,920,334 \$70,084,072 \$40,029,221 | \$7,053,961 \$8,178,542 \$5,326,244 | 11.4% 10.5% 11.7% | \$6,040 \$13,933 \$5,150 | \$4,333 \$16,068 \$3,846 |
| Air Transportation and Ware nousing Air Transportation Pipeline Transportation Scenic and Sightseeing Transportation Support Activities for Transportation Transit and Ground Passenger Transportation Water Transportation Water Transportation | 5,694 802 1,685 1,661 2,951 2,957 1,997 | 1,915 83 1,833 1,833 1,833 1,843 1,843 1,843 1,925 1,925 1,925 1,925 1,925 1,925 1,925 1,925 1,925 1,925 1,925 1,925 1,915 1,9 | 25.2% 9.1% 16.3% 14.3% 25.1% | \$278,963,959 \$108,067,700 \$37,799,099 \$104,626,078 \$38,425,203 \$135,158,075 \$61,746,845 \$135,228,075 \$145,228,075 | \$65,390,282 \$9,947,622 \$27,375,843 \$12,755,290 \$12,755,290 \$13,771,735 \$13,771,735 \$13,771,735 \$37,811,849 \$12,375,541 \$12,375,541 | 19.0% 8.4% 5.7% 9.2% 9.2% | \$13,369 \$35,178 \$7,293 \$11,530 \$11,555 \$12,655 \$19,332 \$19,332 \$19,389 | \$13,044 \$37,968 \$5,002 \$5,519 \$19,136 \$19,136 \$19,136 |
| Varent Service Warehousing and Storage Information (except Internet) Broadcasting (except Internet) Data Processing, Hosting, and Related Services Motion Picture and Sound Recording Industries Other Information Services | 215 782 227 651 | 10 114 120 150 | 15.5% 16.3% 16.5% 15.6% | 512,331,029 \$12,331,029 \$35,654,494 \$9,434,493 \$5,943,890 \$4130,836 | \$22, 750 \$2,843,279 \$2,793,299 \$1,370,905 \$546,885 \$302,187 | 12.7% 18.7% 12.7% 8.4% 8.7% | \$15,356 \$15,356 \$12,427 \$11,852 \$3,132 \$13,347 | \$19,342 \$9,188 \$9,188 \$12,132 \$12,132 \$2,298 |
| ourer monnauor services Publishing Industries (except Internet) Telecommunications | 638 638 4,284 | 71 369 | 10.0% 7.9% | \$21,971,889 \$21,971,889 \$300,896,493 | \$1,890,110 \$1,890,110 \$20,230,380 | 0.1% 7.9% 6.3% | \$999 \$9,791 \$18,399 | \$9,948 \$9,948 \$19,176 |
| Finance and Insurance Credit Intermediation and Related Activities Funds, Trusts, and Other Financial Vehicles Insurance Carriers and Related Activities Securities, Commodity Contracts, and Other Financial Investments and Related Activities | 5,134 98 1,718 580 | 349 20 199 60 | 6.4% 16.9% 10.4% 9.4% | \$277,372,359 \$6,051,330 \$97,439,013 \$63,514,793 | \$8,206,266 \$244,786 \$6,222,816 \$4,944,547 | 2.9% 3.9% 6.0% 7.2% | \$14,316 \$18,449 \$15,275 \$29,514 | \$9,712 \$6,994 \$12,726 \$29,608 |
| Real Estate and Rental and Leasing Lessors of Nonfinancial Intangible Assets (exc Copyrighted Works) Real Estate Rental and Leasing Services | 775 3,668 1,709 | 19 368 364 | 2.4% 9.1% 17.6% | \$6,939,421 \$134,576,880 \$62,413,310 | \$158,149 \$8,211,010 \$9,805,387 | 2.2% 5.8% 13.6% | \$4,832 \$10,703 \$10,724 | \$5,272 \$8,680 \$10,681 |
| Professional, Scientific, and Technical Services Professional, Scientific, and Technical Services Management of Companies and Enterprises Administrative Support/Waste Management and Remediation | 12,599 2,098 | 3,792 154 | 23.1% 6.8% | \$704,249,230 \$162,463,305 | \$179,691,814 \$8,440,468 | 20.3% 4.9% | \$15,894 \$21,691 | \$18,546 \$21,866 |
| Administrative and Support Services Waste Management and Remediation Services Educational Services Educational Services | 10,897 1,868 2.264 | 3,964 413 647 | 26.7% 18.1% 22.2% | \$326,581,068 \$104,163,240 \$62,386.743 | \$88,937,321 \$19,321,867 \$7.723.399 | 21.4% 15.6% 11.0% | \$9,204 \$15,749 \$8.427 | \$9,102 \$16,700 \$5.996 |
| Health Care and Social Assistance Ambulatory Health Care Services Hospitals Nursing and Residential Care Facilities Social Assistance | 18,195 12,731 4,553 10,513 | 2,335 1,589 1,589 1,150 | 11.4% 11.1% 11.5% 9.9% | \$863,102,719 \$781,765,832 \$131,095,674 \$305,709,969 | \$94,391,877 \$81,429,216 \$9,944,396 \$18,280,625 | 9.9% 9.4% 7.1% | \$13,131 \$16,301 \$8,110 \$8,358 | \$15,680 \$19,988 \$6,915 \$6,786 |
| Arts, Entertainment, and Recreation Amusement, Gambling, and Recreation Industries Museums, Historical Sites, and Similar Institutions Performing Arts, Spectator Sports, and Related Industries Accommediation and Food Services | 3,549 423 930 | 1,747 184 369 | 33.0% 30.3% 28.4% | \$48,797,260 \$11,463,719 \$11,714,977 | \$16,479,919 \$2,181,301 \$3,413,333 | 25.2% 16.0% 22.6% | \$4,757 \$8,380 \$5,218 | \$4,372 \$4,869 \$4,897 |
| Accommodation Food Services and Drinking Places | 6,733 22,712 | 6,419 7,249 | 48.8% 24.2% | \$142,642,828 \$384,402,874 | \$76,155,394 \$78,536,637 | 34.8% 17.0% | \$6,633 \$5,354 | \$5,410 \$4,779 |

Resident and Nonresident Workers and Wages, continued

| Private, state, and local government in Alaska, 2016 | Jrkers and in Alaska, 20 | wages, c 16 | ontinuea | | | | | |
|--|------------------------------------|------------------------|-----------------------------------|-------------------|----------------------|---------------------------------|---------------------------|------------------------------|
| Industry | Resident workers | Nonresident workers | Percent nonresident workers | Resident wages | Nonresident wages | Percent nonresident wages | Avg resident wages/qtr | Avg nonresident wages/qtr |
| Other Services | | | | | | | | |
| Personal and Laundry Services | 2,348 | 397 | 14.5% | \$48,831,632 | \$4,284,357 | 8.1% | \$6,299 | \$4,713 |
| Private Households | 210 | 43 | 17.0% | \$4,283,845 | \$458,310 | 9.7% | \$6,309 | \$4,725 |
| Religious, Grantmaking, Civic, Professional, | | | | | | | | |
| and Similar Organizations | 5,202 | 742 | 12.5% | \$174,130,957 | \$12,154,378 | 6.5% | \$9,966 | \$7,466 |
| Repair and Maintenance | 2,827 | 605 | 17.6% | \$100,436,223 | \$18,142,586 | 15.3% | \$10,417 | \$12,234 |
| State and Local Government | | | | | | | | |
| State Government | 24,597 | 1,775 | 6.7% | \$1,257,848,372 | \$47,592,038 | 3.6% | \$13,918 | \$10,353 |
| Local Government | 46,868 | 3,734 | 7.4% | \$1,809,013,064 | \$88,904,976 | 4.7% | \$11,203 | \$9,987 |
| oldenologia | | | | | | | | |

ND = Not disclosable Note: Numbers do not necessarily sum to larger category totals shown elsewhere in the report because not all workers can be categorized into the detailed sectors shown here. Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section