

#### **WHAT'S INSIDE**

Alaska's \$49 Billion Economy
The makeup of the state's gross domestic product



# ALASKA ECONOMIC TRENDS



# Governor Sean Parnell Commissioner Click Bishop

#### Volume 31 Number 10 ISSN 0160-3345

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Alaska Economic Trends is a monthly publication dealing with a wide variety of economic issues in the state. Its purpose is to inform the public about those issues.

Alaska Economic Trends is funded by the Employment Security Division of the Alaska Department of Labor and Workforce Development. It's published by the Research and Analysis Section.

Alaska Economic Trends is printed and distributed by Assets, Inc., a vocational training and employment program, at a cost of \$1.37 per copy.

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#### Cover:

This blended image is taken from two
1903 photos from the Alaska State Library
Historical Collections. The woman in the
cotton parka is an Eskimo from Nome;
she has a traditional chin tattoo.
The man in the fur parka is an Eskimo
from Kotzebue.

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#### Alaska remains in an enviable place among states



By Commissioner Click Bishop

Since the first humans could communicate, we have compared one thing to another — what are the similarities and differences, and what is the relative importance and size?

So, how are we doing in Alaska?

Alaska's economy is in better shape than many of its counterparts. Each month, the Alaska Department of Labor and Workforce Development releases employment statistics — and in this issue, you'll read that August's unemployment remained the same as July's: 7.7 percent in contrast to the U.S. rate of 9.1 percent. Unemployment in August 2010 was also at 7.7 percent. Although our unemployment hasn't dropped this year, that rate is the 19th lowest in the nation.

Comparing August 2011 employment to August 2010 shows Alaska added 6,000 jobs, for a total of more than 352,000. Because our employment rates are better than most of the nation, it appears more people are headed north and fewer Alaskans are leaving the state. The department's intercensal data show Alaska's largest population gains were in 2009 and 2010.

#### The earnings gap

In this month's *Trends*, Caroline Schultz reports that women in Alaska earn an average of 67 cents for every dollar earned by their male counterparts. This so-called "gender gap" is shrinking — when first penciled out in 1988, Alaska women's annual average earnings were 61.7 percent of men's.

The earnings gap is smallest among young people, and widest among workers over 65. Even among the highest trained and educated, men still earn more than women.

#### **Gross domestic product**

Also this month, we compare Alaska's gross domestic product — what businesses and government produce within our borders — with the rest of the states.

Alaska's GDP is more than \$49 billion, with private industry accounting for \$40 billion. Twenty-five percent of our GDP comes from the oil and gas industry, with government at 19 percent and financial activities at 12 percent.

In per capita GDP, Alaska ranks highest at more than \$63,424, followed by Delaware at \$62,587, and Wyoming at \$61,049. Mississippi is the lowest at \$29,345.

#### Hiring our heroes

Alaska also ranks highest in the number of veterans per capita. Alaskans have a long history of service to our nation, including the Alaska Territorial Guard that helped defend the U.S. before statehood. The Alaska Department of Labor has held one of the nation's most successful job fairs for veterans each year.

This year's event to help secure meaningful employment for veterans, active-duty military, and their spouses will be Nov. 2 at the University Center in Anchorage. The fair coincides with "Hire a Veteran Month" in Alaska and the national celebration of Veteran's Day on Nov. 11.

Veterans have a great work ethic, understand the importance of team work, and have experience with leadership roles. More than 90 percent of military personnel have also had background checks for various levels of security. If you are an employer, I urge you to participate. For details, call (907) 269-4777, TTY/TDD (800) 770-8973, or visit Jobs.Alaska.Gov.

# Gender and Earnings in Alaska

What women make varies widely among occupations

n average, women in Alaska earn less than men, and that gap exists across all industries, age groups, geographic areas, and most occupations. In 2010, an Alaska woman earned 67 cents to a man's dollar — a 5 cent increase from 1990. (See Exhibit 1.)

Nearly half of Alaska workers are female, but women here make less than 40 percent of total state earnings. This disparity translates into lower average annual earnings for women and a gap of \$14,361 from men's earnings in 2010. The average Alaska woman earned \$29,323 — 67 percent of the average man's \$43,684.

The discrepancy isn't easy to explain. Within the same occupation, earning differences by gender may be a result of training and experience disparities, the number of hours worked in a year, or discrimination. This report doesn't examine these variables, which are not measured by any currently available data source.

#### Earnings gap waxes and wanes

The earnings gap was first calculated in 1988, when women made 61.7 percent of men's average annual earnings. Alaska was in the midst

#### About the data

This analysis only included workers covered by Alaska unemployment insurance who applied for a Permanent Fund Dividend in 2010 or 2011 and indicated their gender. Federal civilian and military employees, the self-employed, nonresidents, and workers with unknown gender were excluded from this analysis.

When workers had more than one job or worked in more than one area in 2010, their employment and earnings were assigned to the industry, employer, and area where they made the largest portion of their earnings. For individual occupations, however, workers who held multiple jobs in a year were reported in each occupation they worked, which means some workers could be counted more than once.

The average earnings are calculated by dividing total earnings in a specific area, industry, or occupation by the number of workers. This does not account for seasonality or whether a worker was full-time or part-time.

of a serious recession in the late 1980s, but the earnings gap shrunk as the economy recovered in the early 1990s. Women's earnings as a percentage of men's hovered between 65 and 66 percent through most of the 1990s, and by 2002, it in-

# Women in Alaska's Workforce

		1988	1990	1992	1994	1996	1998	2000	2002	2004	2006	2008	2010
Employment	Women	47.0%	46.1%	46.3%	46.2%	46.7%	47.1%	47.4%	47.6%	47.8%	48.1%	48.0%	47.9%
(percent)	Men	53.0%	53.9%	53.7%	53.8%	53.3%	52.9%	52.6%	52.4%	52.2%	51.9%	52.0%	52.1%
Earnings	Women	35.4%	34.7%	35.9%	36.1%	36.4%	36.7%	37.3%	37.8%	38.2%	38.2%	37.6%	38.2%
(percent)	Men	64.6%	65.3%	64.1%	63.9%	63.6%	63.3%	62.7%	62.2%	61.8%	61.8%	62.4%	61.8%
Avg. annual	Women	\$14,962	\$16,710	\$18,256	\$18,838	\$18,578	\$19,498	\$20,582	\$22,172	\$23,657	\$25,486	\$27,515	\$29,323
earnings	Men	\$24,232	\$26,867	\$28,064	\$28,707	\$28,477	\$29,909	\$31,243	\$33,090	\$35,062	\$38,287	\$42,236	\$43,684
Ratio women's to men's avg. e	arnings	61.7%	62.2%	65.1%	65.6%	65.2%	65.2%	65.9%	67.0%	67.5%	66.6%	65.1%	67.1%

creased to 67 percent. The gap was smallest in 2004, when women earned 67.5 percent of what men made. However, those gains disappeared by 2008, when women's earnings shrunk back to 65.1 percent, about the same level as the decade before. (See Exhibit 2.)

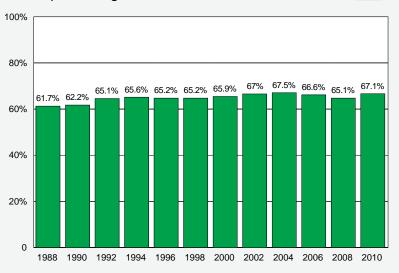
#### Women earn less in private sector

Women constituted 46 percent of private-sector workers in 2010, and made 35 percent of private-sector earnings. Their average earnings were 63 percent of men's in the private sector. (See Exhibit 3.)

Women made less money than men in every major industry group in Alaska. (See Exhibits 4, 5, and 6.) Their average earnings were highest in natural resources and mining at \$65,634 a year, but women made up only 14 percent of workers in that industry. Men also made \$26,328 more, at \$91,962 a year. Although natural resources and mining employed just 5 percent of Alaska workers last year, it had a disproportionate effect on the earnings gap. Excluding natural resources and mining from the private sector would increase the ratio of women's earnings from 63 to 79 percent of men's.

#### **Women's Average Annual Earnings**

As percentage of men's, Alaska, 1988 to 2010



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

The largest private industry for women in 2010 was education and health services, which includes private schools, hospitals, and private social service and health care employers. Education and health services is one of Alaska's fastest-

#### Workers and Earnings by Industry

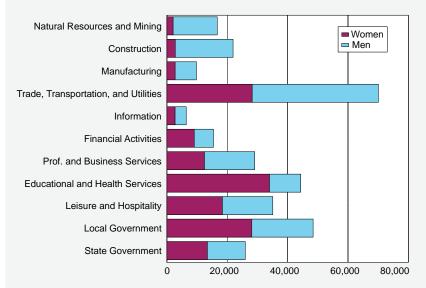
Alaska, 2010



Industry	Women	Men	Percent women	Percent women's earnings	Women's avg annual earnings	Men's avg annual earnings	Ratio women's to men's avg ann earnings
Natural Resources and Mining	2,411	14,964	14%	10%	\$65,634	\$91,962	71%
Construction	3,124	19,498	14%	10%	\$31,359	\$46,594	67%
Manufacturing	3,094	7,380	30%	21%	\$19,766	\$31,873	62%
Trade, Transportation, and Utilities	28,610	42,146	40%	28%	\$22,069	\$38,633	57%
Information	3,056	4,024	43%	36%	\$41,201	\$56,131	73%
Financial Activities	9,412	6,712	58%	53%	\$38,492	\$47,465	81%
Professional and Business Services	12,787	16,968	43%	34%	\$31,155	\$46,255	67%
Educational and Health Services	34,350	10,659	76%	70%	\$34,114	\$46,639	73%
Leisure and Hospitality	18,716	17,071	52%	47%	\$12,618	\$15,548	81%
Other/Unassigned	7,106	6,031	54%	48%	\$23,608	\$29,899	79%
Total Private	122,666	145,453	46%	35%	\$27,808	\$44,140	63%
Local Government	28,470	20,672	58%	54%	\$31,102	\$36,439	85%
State Government	13.738	12,918	52%	45%	\$39,168	\$50,154	78%
Total Government	42,208	33,590	56%	50%	\$33,728	\$41,713	81%
Total All Industries	164,874	179,043	48%	38%	\$29,323	\$43,684	67%

Notes: For industry-level aggregations, if workers held multiple jobs during the year, their employment and earnings were assigned to the area, employer, and industry where they earned the majority of their wages in 2010. Worker counts only include individuals with known gender. These data do not include self-employed workers or federal employees.

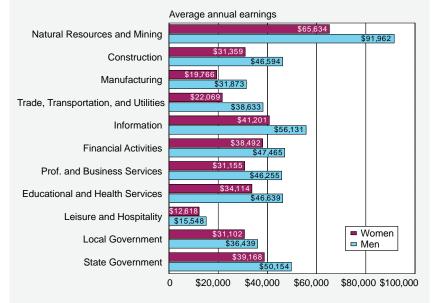
# Women and Men by Industry Alaska workers, 2010



Note: Worker counts only include those with known gender. These data do not include self-employed workers or federal employees.

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

# Average Annual Earnings By sex and industry, Alaska, 2010



Note: These data do not include self-employed workers or federal employees. Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section growing industries, and that trend is expected to continue into the next decade. Education and health services employed 34,350 women in 2010, or 76 percent of all workers in the industry. Women's earnings were 73 percent of men's in 2010 — a much narrower gap than in the private sector as a whole.

Women made up 40 percent of workers in trade, transportation, and utilities — the largest private industry for men and women combined, and the second-largest for women. However, it also had the largest disparity in pay. Compared to men, women earned 57 cents on the dollar.

The third-largest industry in 2010 was leisure and hospitality, which employed 18,716 women, or 52 percent of its total workers. This industry had the smallest earnings gap in the private sector, but also the lowest average annual earnings.

#### Smaller gap in public earnings

Women's earnings were higher and the gap was smaller in the public sector. Women earned \$33,728 on an average annual basis, 21 percent more than the \$27,808 they made in the private sector. In contrast, men earned 5 percent less in the public sector (\$41,713) than in the private sector (\$44,140).

About one-quarter of all female workers were employed in the public sector, compared to one-fifth of male workers. Women were 56 percent of the public workforce in 2010, and took home 50 percent of total public earnings. On average, women earned 81 cents for every dollar men earned.

Women's average earnings were 78 percent of men's in state government, where women made up 50 percent of the workforce. State government was among the highest-paying industries for both genders. Female state workers earned an average of \$39,168 in 2010, while men earned \$50,154 — \$10,986 more.

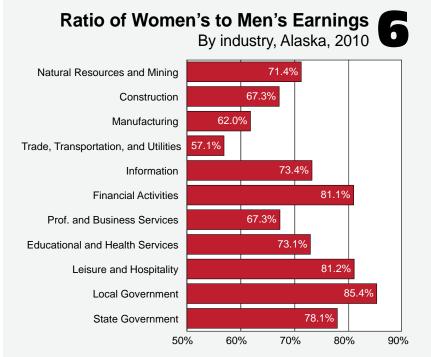
Earnings in local government were lower than state government for both genders, with a nar-

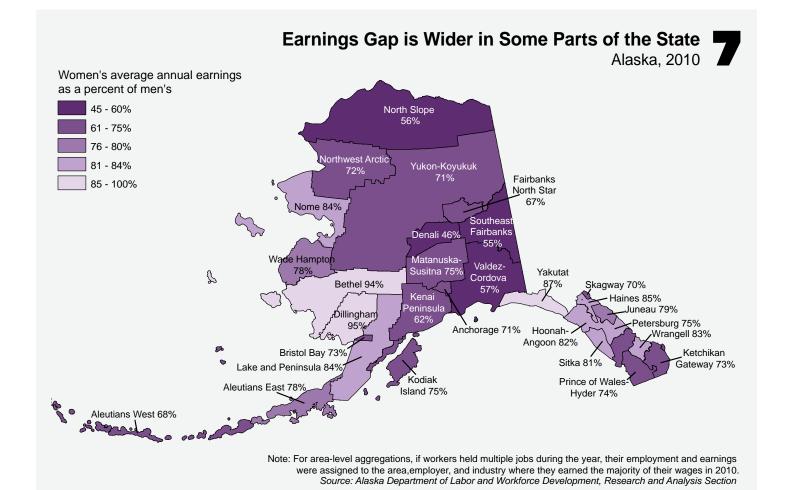
rower gap in pay. Women made \$31,102 in 2010, 85 percent of men's average earnings of \$36,439. There were 28,470 women working in local government in 2010, making up 58 percent of workers in the industry.

#### Men outearn throughout state

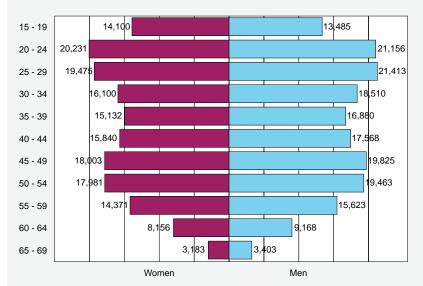
Women earned less than men in every borough and census area in Alaska in 2010, as shown in Exhibit 7. The ratio of women's earnings to men's in each borough or census area often depended on the region's dominant industries.

For example, in Bethel and Dillingham, where local government is the largest employer, women made over 90 percent of what men made, on average. At the other end of the spectrum, women in boroughs and census areas where natural resources and mining were major employers made significantly less on average than men.



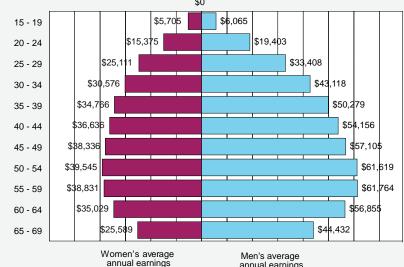


# Female and Male Workers by Age Alaska, 2010



Note: Worker counts only include those with known gender. Source: Alaska Department of Labot and Workforce Development, Research and Analysis Section

# Average Annual Earnings by Age Alaska, 2010



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

#### Earnings gap widens with age

Over the past decade, the earnings gap shrunk for every age group, as shown in Exhibit 10. However, the gap varied widely among age groups.

The difference was smallest among young people. Female workers in the 15-to-19 age group made 94 percent of what their male counterparts earned. It was also the only age group with more women than men. (See Exhibit 8.) Workers in that age group also earned the least overall, as most employed 15-to-19-year-olds did not work full-time because they were in high school or college. (See Exhibit 9.)

Women between 50 and 54 earned the most of any age group, but only 64 percent of men's pay. Men earned the most between the ages of 55 and 59, but only slightly more than the average among 50-to-54-year-old men. The 55-to-59-year-old cohort also had the largest nominal disparity: men made \$61,764, but women earned just \$38,831 — a \$22,933 difference.

The widest earnings gap was in the 65-to-69 age group, where a woman made 58 cents on a man's dollar. Earnings in this age group were lower than those of younger and middle-aged workers — because many in this age group are retired, they may not have worked full-time.

#### Women earn more in some jobs

Women outearned men in a handful of occupations in Alaska in 2010, many of which were in health care. Female postsecondary nursing instructors and teachers, and obstetricians/gynecologists made more than double the pay of their male peers. Other occupations with higher average pay for women included dietitians and nutritionists, occupational therapy assistants, postsecondary health specialties teachers, and nurse midwives. (See Exhibit 11.)

Most of these occupations were also dominated by women, but there were a few notable exceptions. Women's average earnings were higher than men's among packaging and filling machine operators and tenders, electrician's helpers, and auto damage insurance appraisers — all jobs where less than 25 percent of workers were women.

#### Female-dominated jobs

While women tend to earn more than men in jobs where they also outnumber them, that's not always the case. Though women made up 94 percent of dental hygienists and 89 percent of flight attendants, their average earnings were less than 70 percent of men's in both categories. (See Exhibit 12.)

#### Male-dominated jobs

Occupations with mostly male workers played a bigger role in Alaska's economy than those with mostly women. There were 223 occupations with over 80 percent men, but only 76 with the same percentage of women. These male-dominated occupations employed 117,781 workers, while the 76 female-dominated jobs employed just 56,643.

Men usually outearn women in male-dominated occupations — often significantly. Though women's average annual earnings in female-dominated jobs were 5 percent higher, men made 74 percent more in occupations they dominated. (See Exhibit 12.)

60 - 64

65 - 69

In several occupations that were mostly male, a woman's average annual earnings were less than half of a man's. Twenty-four women were bus and truck mechanics and diesel engine specialists, and 26 women worked as welders, cutters, solderers, and brazers — but they earned just 35 and 27 percent of their male counterparts' pay, respectively. In 2010, the 21 women working as boilermakers made less than 30 percent of what the men made, and the 31 female power plant operators earned just one-quarter of the male wage.

#### Large occupations

The largest occupational category in 2010 for women alone and for men and women combined

#### Ratio of Women's to Men's Earnings By age group, Alaska, 2000 and 2010 15 - 19 94.1% 20 - 24 25 - 29 61.5% 30 - 3461.6% 35 - 39 69.1% 40 - 44 67.6% **2000** 45 - 49 **2010** 67.1% 56.4% 50 - 54 54.5% 55 - 59

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

57.6%

was retail salespersons, which employed 10,454 women that year. Although women held 58 percent of retail sales positions, they earned less than men — \$9,164 per year compared to \$14,006.

The second-largest occupational category for men was construction laborers, with 8,646 men employed. Construction laborers were 89 percent men, and women in these jobs made 63 percent as much as their male counterparts. Exhibit 13 details a selection of large occupations.

#### Top-earning jobs for women

The highest-paying occupations for women were in health care, topped by physicians and surgeons, all other, in which the average woman earned \$166,411 per year. Male physicians and surgeons in the same category made \$229,312.

The second-highest earnings for women were among obstetricians and gynecologists at \$153,350 on average — more than twice the male average of \$61,149. (See Exhibit 14.)

## 11

#### Jobs In Which Women Earn More Than Men

Select occupations, Alaska 2010

Occupation	Women	Men	Percent women	Women's average annual earnings	Men's average annual earnings	Ratio women's to men's earnings
Court, Municipal, and License Clerks	648	141	82%	\$27,838	\$18,315	152%
Police, Fire, and Ambulance Dispatchers	362	146	71%	\$36,746	\$25,085	146%
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	337	574	37%	\$11,418	\$5,423	211%
Gaming Dealers	335	159	68%	\$5,047	\$3,297	153%
Tax Preparers	270	129	68%	\$8,478	\$5,943	143%
Dancers	239	50	83%	\$6,393	\$3,402	188%
Health Educators	239	40	86%	\$24,646	\$16,900	146%
Health Care Social Workers	199	40	83%	\$34,557	\$24,972	138%
Interviewers, Except Eligibility and Loan	194	60	76%	\$14,192	\$7,236	196%
Veterinary Technologists and Technicians	172	15	92%	\$19,118	\$11,242	170%
Dietitians and Nutritionists	149	14	91%	\$33,297	\$19,632	170%
Legislators	138	205	40%	\$7,312	\$4,158	176%
Health Specialties Teachers, Postsecondary	77	19	80%	\$46,424	\$29,646	157%
Nursing Instructors and Teachers, Postsecondary	70	7	91%	\$40,486	\$14,218	285%
Interpreters and Translators	66	10	87%	\$18,324	\$10,843	169%
Statistical Assistants	46	18	72%	\$27,292	\$19,082	143%
Credit Authorizers, Checkers, and Clerks	32	6	84%	\$27,217	\$18,376	148%
Barbers	30	14	68%	\$21,331	\$13,254	161%
Physical Scientists, All Other	30	113	21%	\$29,810	\$19,027	157%
Helpers: Electricians	23	224	9%	\$50,362	\$34,896	144%
Packaging and Filling Machine Operators and Tenders	20	118	14%	\$32,184	\$17,098	188%
Machine Feeders and Offbearers	18	47	28%	\$7,657	\$5,012	153%
Compensation and Benefits Managers	16	9	64%	\$56,893	\$41,414	137%
Obstetricians and Gynecologists	15	8	65%	\$153,350	\$61,149	251%
Occupational Therapy Assistants	14	6	70%	\$26,670	\$15,954	167%
Audio-Visual and Multimedia Collections Specialists	12	7	63%	\$45,654	\$30,139	151%
Information Security Analysts	11	33	25%	\$57,692	\$40,605	142%

#### Jobs In Which Men Earn More Than Women

Occupation	Women	Men	Percent women	Women's average annual earnings		Ratio women's to men's earnings
Production Workers, All Other	340	1,422	19%	\$22,160	\$70,017	32%
Firefighters	170	955	15%	\$10,686	\$43,565	25%
Welders, Cutters, Solderers, and Brazers	26	857	3%	\$11,200	\$42,252	27%
Bus and Truck Mechanics and Diesel Engine Specialists	24	807	3%	\$16,848	\$47,717	35%
Mobile Heavy Equipment Mechanics, Except Engines	12	772	2%	\$18,243	\$57,520	32%
Refuse and Recyclable Material Collectors	175	689	20%	\$2,559	\$13,761	19%
First-Line Supervisors of Production and Operating Workers	128	654	16%	\$12,617	\$75,610	17%
Power Plant Operators	31	608	5%	\$9,429	\$38,927	24%
Electrical Power-Line Installers and Repairers	12	463	3%	\$24,864	\$78,351	32%
Maintenance Workers, Machinery	26	435	6%	\$10,691	\$39,139	27%
Helpers: Extraction Workers	14	259	5%	\$11,438	\$41,792	27%
Helpers: Pipelayers, Plumbers, Pipefitters, and Steamfitters	15	242	6%	\$7,609	\$24,593	31%
Door-to-Door Sales Workers, News/Street Vendors, Related	172	207	45%	\$1,214	\$4,691	26%
Miners, Except Drillers and Machine Operators	19	192	9%	\$24,741	\$69,173	36%
Paving, Surfacing, and Tamping Equipment Operators	8	188	4%	\$4,596	\$21,218	22%
Crane and Tower Operators	7	153	4%	\$11,144	\$47,163	24%
Carpet Installers	7	125	5%	\$5,271	\$20,618	26%
Boilermakers	21	124	14%	\$10,707	\$36,863	29%
Coin, Vending, Amusement Machine Servicers and Repairers	17	109	13%	\$7,092	\$20,498	35%
Logging Workers, All Other	6	91	6%	\$1,997	\$10,151	20%
Pump Operators, Except Wellhead Pumpers	9	80	10%	\$9,733	\$57,369	17%
Photographers	130	67	66%	\$6,296	\$21,507	29%
Maintenance and Repair Workers, General	8	65	11%	\$2,221	\$6,221	36%
Telemarketers	67	63	52%	\$11,655	\$31,304	37%
Chiropractors	36	51	41%	\$26,221	\$73,024	36%
Craft Artists	7	24	23%	\$4,779	\$16,857	28%
Economics Teachers, Postsecondary	22	23	49%	\$9,873	\$70,329	14%
Pesticide Handlers, Sprayers, and Applicators, Vegetation	17	19	47%	\$2,677	\$9,151	29%
Models	14	8	64%	\$11,921	\$46,264	26%

Notes: For occupation aggregations, workers who held multiple jobs in a year will be reported in each occupation they worked, which means some workers will be counted more than once. Occupation totals should not be used for total worker counts. Worker counts only include individuals with known gender. These data do not include self-employed workers or federal employees.

#### **Female-Dominated Jobs** Select occupations, Alaska 2010

Occupation	Women	Men	women	Women's average annual earnings	Men's average annual earnings	to men's earnings
Registered Nurses	4,358	526	89%	\$51,033	\$53,651	95%
Receptionists and Information Clerks	4,033	379	91%	\$15,460	\$15,431	100%
Secretaries/Admin Assistants, Exc Legal, Medical, and Exec	3,277	384	90%	\$21,362	\$17,301	123%
Child Care Workers	2,469	354	87%	\$8,630	\$7,495	115%
Nursing Assistants	2,003	292	87%	\$21,458	\$21,773	99%
Billing and Posting Clerks	1,494	193	89%	\$25,731	\$25,050	103%
Dental Assistants	1,230	80	94%	\$22,692	\$20,893	109%
Preschool Teachers, Except Special Education	924	63	94%	\$12,448	\$11,227	111%
Hairdressers, Hairstylists, and Cosmetologists	846	76	92%	\$16,252	\$14,302	114%
Medical Secretaries	662	49	93%	\$21,078	\$16,692	126%
Legal Secretaries	612	56	92%	\$30,015	\$22,702	132%
Licensed Practical and Licensed Vocational Nurses	592	80	88%	\$35,699	\$43,146	83%
Medical Records and Health Information Technicians	571	85	87%	\$26,856	\$34,347	78%
Dental Hygienists	447	27	94%	\$46,868	\$48,338	97%
Loan Interviewers and Clerks	425	47	90%	\$32,236	\$26,606	121%
Flight Attendants	355	46	89%	\$23,798	\$34,996	68%
Massage Therapists	338	47	88%	\$17,948	\$13,589	132%
Librarians	308	46	87%	\$37,007	\$37,472	99%
Speech-Language Pathologists	208	28	88%	\$48,843	\$58,570	83%
Nurse Practitioners	204	15	93%	\$48,913	\$36,813	133%
Veterinary Technologists and Technicians	172	15	92%	\$19,118	\$11,242	170%
Occupational Therapists	172	25	87%	\$39,733	\$34,526	115%
Kindergarten Teachers, Except Special Education	170	13	93%	\$42,574	\$37,684	113%
Dietitians and Nutritionists	149	14	91%	\$33,297	\$19,632	170%
Floral Designers	148	21	88%	\$10,233	\$12,243	84%
Educ Administrators, Preschool and Child Care	111	13	90%	\$24,357	\$28,096	87%
Special Education Teachers, Preschool	95	11	90%	\$32,615	\$45,794	71%

#### **Male-Dominated Jobs**

Maie-Dominated Jobs			Percent	Women's average	Men's average	Ratio women's
Occupation	Women	Men	women			to men's earnings
Carpenters	171	4,891	3%	\$15,480	\$28,337	55%
Electricians	97	2,639	4%	\$33,637	\$56,214	60%
Automotive Service Technicians and Mechanics	63	2,289	3%	\$13,313	\$29,187	46%
Plumbers, Pipefitters, and Steamfitters	58	2,150	3%	\$24,037	\$50,714	47%
Roustabouts, Oil and Gas	82	1,863	4%	\$24,644	\$48,900	50%
Aircraft Mechanics and Service Technicians	50	1,209	4%	\$25,142	\$45,032	56%
Welders, Cutters, Solderers, and Brazers	26	857	3%	\$11,200	\$42,252	27%
Bus and Truck Mechanics and Diesel Engine Specialists	24	807	3%	\$16,848	\$47,717	35%
Service Unit Operators, Oil, Gas, and Mining	39	775	5%	\$46,035	\$68,366	67%
Mobile Heavy Equipment Mechanics, Except Engines	12	772	2%	\$18,243	\$57,520	32%
Painters, Construction and Maintenance	38	749	5%	\$20,193	\$21,740	93%
First-Line Supervisors of Mechanics, Installers, Repairers	30	731	4%	\$53,909	\$62,064	87%
Tire Repairers and Changers	19	598	3%	\$8,224	\$13,643	60%
Roofers	6	504	1%	\$25,978	\$27,744	94%
Sheet Metal Workers	13	493	3%	\$39,896	\$49,920	80%
Electrical Power-Line Installers and Repairers	12	463	3%	\$24,864	\$78,351	32%
Structural Iron and Steel Workers	9	440	2%	\$18,561	\$40,536	46%
Heating, Air Conditioning, and Refrig Mechanics, Installers	8	439	2%	\$30,179	\$34,706	87%
Petroleum Pump Sys Operators, Refinery Opers, Gaugers	15	414	3%	\$72,982	\$110,448	66%
Cement Masons and Concrete Finishers	8	400	2%	\$12,999	\$20,388	64%
Automotive Body and Related Repairers	13	340	4%	\$12,913	\$32,088	40%
Excavating and Loading Machine and Dragline Operators	11	337	3%	\$19,298	\$32,321	60%
Rotary Drill Operators, Oil and Gas	9	335	3%	\$55,822	\$62,812	89%
Insulation Workers, Floor, Ceiling, and Wall	9	270	3%	\$17,332	\$25,644	68%
Electrical/Electronics Repair, Commercial/Industrial Equip	10	220	4%	\$39,833	\$66,473	60%
Ship Engineers	6	215	3%	\$49,623	\$72,745	68%
Millwrights	6	205	3%	\$64,022	\$67,883	94%
Paving, Surfacing, and Tamping Equipment Operators	8	188	4%	\$4,596	\$21,218	22%
Extraction Workers, All Other	9	180	5%	\$31,761	\$61,301	52%

Notes: For occupation aggregations, workers who held multiple jobs in a year will be reported in each occupation they worked, which means some workers will be counted more than once. Occupation totals should not be used for total worker counts. Worker counts only include individuals with known gender. These data do not include self-employed workers or federal employees.

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

# Large Occupations Select occupations, Alaska 2010

Occupation	Women	Men	Percent women	Women's average annual earnings	Men's average annual earnings	Ratio women's to men's earnings
Retail Salespersons	10,454	7,653	58%	\$9,164	\$14,006	65%
Cashiers	9,088	4,765	66%	\$9,327	\$11,906	78%
Construction Laborers	1,104	8,646	11%	\$11,922	\$18,833	63%
Office Clerks, General	7,527	2,183	78%	\$17,220	\$17,197	100%
Office and Administrative Support Workers, All Other	6,936	2,556	73%	\$19,598	\$19,691	100%
Combined Food Prep and Serving Workers, Including Fast Food	5,151	3,968	56%	\$6,955	\$7,762	90%
Janitors and Cleaners, Except Maids and Housekeeping Cleaners	3,342	5,752	37%	\$10,754	\$12,777	84%
Laborers and Freight, Stock, and Material Movers, Hand	1,041	6,997	13%	\$9,331	\$12,299	76%
Waiters and Waitresses	5,162	2,023	72%	\$8,971	\$10,365	87%
Bookkeeping, Accounting, and Auditing Clerks	5,176	886	85%	\$24,780	\$25,204	98%
Food Preparation Workers	3,106	2,909	52%	\$6,698	\$7,421	90%
Teacher Assistants	4,590	1,213	79%	\$10,701	\$8,811	121%
Executive Secretaries and Executive Administrative Assistants	4,852	924	84%	\$25,649	\$19,712	130%
Personal Care Aides	4,251	1,129	79%	\$11,761	\$11,938	99%
Maids and Housekeeping Cleaners	3,987	1,270	76%	\$10,643	\$13,026	82%
Carpenters	171	4,891	3%	\$15,480	\$28,337	55%
General and Operations Managers	1,933	3,100	38%	\$42,143	\$73,535	57%
Registered Nurses	4,358	526	89%	\$51,033	\$53,651	95%
Seafood Processing Workers, Except Surimi and Fish Roe	1,594	3,261	33%	\$10,171	\$11,286	90%
Operating Engineers and Other Construction Equip Operators	226	4,255	5%	\$28,626	\$44,823	64%
Receptionists and Information Clerks	4,033	379	91%	\$15,460	\$15,431	100%
Sales and Related Workers, All Other	2,067	2,238	48%	\$14,954	\$19,444	77%
Stock Clerks and Order Fillers	1,133	3,069	27%	\$10,328	\$13,114	79%
Maintenance and Repair Workers, General	356	3,784	9%	\$12,664	\$28,986	44%
Customer Service Representatives	2,836	1,040	73%	\$19,304	\$19,526	99%
Heavy and Tractor-Trailer Truck Drivers	199	3,585	5%	\$24,883	\$38,272	65%
Secretaries/Admin Assistants, Except Legal, Medical, and Exec	3,277	384	90%	\$21,362	\$17,301	123%
Home Health Aides	2,786	870	76%	\$13,800	\$16,064	86%
Elementary School Teachers, Except Special Education	2,891	765	79%	\$44,110	\$43,675	101%
Healthcare Support Workers, All Other	2,779	812	77%	\$15,338	\$17,366	88%
Food Preparation and Serving Related Workers, All Other	1,732	1,841	48%	\$8,082	\$9,426	86%
Teachers and Instructors, All Other	2,540	1,026	71%	\$18,068	\$25,414	71%
Security Guards	684	2,626	21%	\$16,230	\$23,358	70%
Managers, All Other	1,470	1,762	45%	\$45,716	\$91,566	50%
Secondary School Teachers, Exc Special and Career/Tech Educ	1,979	1,169	63%	\$46,323	\$49,344	94%
Substitutes, Teachers and Instructors, Multi-Level Except Postsec	2,232	887	72%	\$5,975	\$6,115	98%
Cooks, Restaurant	692	2,361	23%	\$8,376	\$11,909	70%
Bartenders	2,061	873	70%	\$8,707	\$10,168	86%
Child Care Workers	2,469	354	87%	\$8,630	\$7,495	115%
Electricians	97	2,639	4%	\$33,637	\$56,214	60%
Dishwashers	531	2,189	20%	\$4,981	\$5,859	85%
First-Line Supervisors of Office and Admin Support Workers	2,002	658	75%	\$34,219	\$46,965	73%
Administrative Services Managers	1,880	773	71%	\$32,650	\$48,893	67%
First-Line Supervisors of Retail Sales Workers	1,313	1,125	54%	\$25,279	\$37,067	68%
Counter Attendants, Cafeteria, Food Concession, Coffee Shop	1,919	510	79%	\$4,889	\$5,553	88%
Sales Representatives, Services, All Other	1,002	1,397	42%	\$25,144	\$34,949	72%
Automotive Service Technicians and Mechanics	63	2,289	3%	\$13,313	\$29,187	46%
Nursing Assistants	2,003	292	87%	\$21,458	\$21,773	99%
Education, Training, and Library Workers, All Other	1,409	873	62%	\$8,588	\$6,854	125%
Plumbers, Pipefitters, and Steamfitters	58	2,150	3%	\$24,037	\$50,714	47%
Counter and Rental Clerks	1,179	1,023	54%	\$9,618	\$12,943	74%
Chief Executives	861	1,264	41%	\$68,197	\$119,799	57%
Installation, Maintenance, and Repair Workers, All Other	177	1,912	8%	\$34,913	\$43,405	80%
Personal Care and Service Workers, All Other	1,607	475	77%	\$9,285	\$11,570	80%
Grounds Maintenance Workers, All Other	360	1,715	17%	\$5,488	\$9,709	57%
Material Moving Workers, All Other	259	1,793	13%	\$14,817	\$25,697	58%
Accountants and Auditors	1,494	554	73%	\$46,178	\$58,146	79%
Special Education Teacher Assistants	1,636	334	83%	\$15,095	\$14,669	103%
Light Truck or Delivery Services Drivers	234	1,719	12%	\$11,976	\$23,744	50%
Roustabouts, Oil and Gas	82	1,863	4%	\$24,644	\$48,900	
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Notes: For occupation aggregations, workers who held multiple jobs in a year will be reported in each occupation they worked, so some workers will be counted more than once. Occupation totals should not be used for total worker counts. Worker counts only include individuals with known gender. These data do not include self-employed workers or federal employees.

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

#### **Jobs with High Average Earnings for Women**

Select occupations, Alaska 2010

1	

Occupation	Women	Men	Percent women	Women's average annual earnings	Men's average annual earnings	Ratio women's to men's earnings
Chief Executives	861	1,264	41%	\$68,197	\$119,799	57%
Lawyers	568	515	52%	\$68,120	\$89,611	76%
Engineers, All Other	232	1,062	18%	\$68,616	\$92,268	74%
Pharmacists	197	143	58%	\$78,228	\$86,884	90%
Geoscientists, Except Hydrologists and Geographers	103	278	27%	\$80,444	\$108,919	74%
Physicians and Surgeons, All Other	98	159	38%	\$166,411	\$229,312	73%
Petroleum Engineers	78	397	16%	\$123,581	\$157,511	78%
Airline Pilots, Copilots, and Flight Engineers	78	1,237	6%	\$79,536	\$90,130	88%
Architectural and Engineering Managers	67	400	14%	\$102,105	\$146,801	70%
Personal Financial Advisors	67	95	41%	\$72,364	\$173,840	42%
Health/Safety Engineers, Exc Mining Safety Engineers/Inspectors	60	202	23%	\$68,409	\$85,368	80%
Dentists, General	51	106	32%	\$66,622	\$122,342	55%
Designers, All Other	36	142	20%	\$79,021	\$112,676	70%
Psychiatrists	27	37	42%	\$87,583	\$137,073	64%
Pediatricians, General	27	18	60%	\$76,284	\$103,865	73%
Atmospheric, Earth, Marine, Space Sciences Teachers, Postsec	26	34	43%	\$69,495	\$75,552	92%
Nurse Anesthetists	22	6	79%	\$97,542	\$171,819	57%
Obstetricians and Gynecologists	15	8	65%	\$153,350	\$61,149	251%
Medical Scientists, Except Epidemiologists	15	32	32%	\$132,470	\$209,870	63%
Petroleum Pump Sys Operators, Refinery Operators, and Gaugers	15	414	3%	\$72,982	\$110,448	66%
First-Line Supervisors of Fire Fighting and Prevention Workers	13	137	9%	\$70,898	\$73,096	97%
Anesthesiologists	9	16	36%	\$126,206	\$193,454	65%

#### **Jobs With High Average Earnings for Men**

Occupation	Women	Men	Percent women	Women's average annual earnings	Men's average annual earnings	Ratio women's to men's earnings
Managers, All Other	1,470	1,762	45%	\$45,716	\$91,566	50%
Chief Executives	861	1,264	41%	\$68,197	\$119,799	57%
Airline Pilots, Copilots, and Flight Engineers	78	1,237	6%	\$79,536	\$90,130	88%
Engineers, All Other	232	1,062	18%	\$68,616	\$92,268	74%
Financial Managers	847	531	61%	\$64,688	\$91,031	71%
Lawyers	568	515	52%	\$68,120	\$89,611	76%
Petroleum Pump System Operators, Refinery Oper, Gaugers	15	414	3%	\$72,982	\$110,448	66%
Architectural and Engineering Managers	67	400	14%	\$102,105	\$146,801	70%
Petroleum Engineers	78	397	16%	\$123,581	\$157,511	78%
Geoscientists, Except Hydrologists and Geographers	103	278	27%	\$80,444	\$108,919	74%
Mechanical Engineers	27	265	9%	\$43,344	\$80,185	54%
Electrical Engineers	32	250	11%	\$56,260	\$84,214	67%
Family and General Practitioners	278	233	54%	\$64,849	\$83,071	78%
Health/Safety Engineers, Exc Mining Safety Engineers/Inspectors	60	202	23%	\$68,409	\$85,368	80%
Financial Analysts	217	163	57%	\$60,254	\$101,967	59%
Physicians and Surgeons, All Other	98	159	38%	\$166,411	\$229,312	73%
Pharmacists	197	143	58%	\$78,228	\$86,884	90%
Designers, All Other	36	142	20%	\$79,021	\$112,676	70%
Mining and Geological Engineers, Incl Mining Safety Engineers	33	122	21%	\$46,982	\$94,482	50%
Dentists, General	51	106	32%	\$66,622	\$122,342	54%
Personal Financial Advisors	67	95	41%	\$72,364	\$173,840	42%
Psychiatrists	27	37	42%	\$87,583	\$137,073	64%
Medical Scientists, Except Epidemiologists	15	32	32%	\$132,470	\$209,870	63%
Optometrists	19	19	50%	\$55,603	\$119,349	47%
Pediatricians, General	27	18	60%	\$76,284	\$103,865	73%
Anesthesiologists	9	16	36%	\$126,206	\$193,454	65%
Radiation Therapists	19	8	70%	\$53,518	\$121,923	44%
Nurse Anesthetists	22	6	79%	\$97,542	\$171,819	57%

Notes: For occupation aggregations, workers who held multiple jobs in a year will be reported in each occupation they worked, so some workers will be counted more than once. Occupation totals should not be used for total worker counts. Note: Worker counts only include individuals with known gender. These data do not include self-employed workers or federal employees.

# Alaska's \$49 Billion Economy

#### The makeup of the state's gross domestic product

ross domestic product is the "big" economic number — the statistic that commands more attention from the nation's pundits and the stock market than any other. GDP, unveiled quarterly by the federal Bureau of Economic Analysis, is considered the nation's broadest measure of economic health because it measures everything businesses and government produce within United States borders.

Unlike the national gross domestic product, there's a good chance you've never heard of Alaska's gross domestic product. Comparable state GDPs are produced by the same national source and are calculated for Alaska, the other 49 states, and many metro areas. They, too, measure the market value of all goods and services produced within the given borders.

Alaska's number gets little attention because it's only produced annually and isn't released until half-way through the following year. It's often perceived

as last year's news when most people are looking for more current economic data or trying to evaluate future trends.

The state GDP is also a blunter and less nuanced statistic than the national GDP, so it can be problematic to base conclusions on its subtle and sometimes not-so-subtle year-to-year changes.

Still, state GDP can provide an important look at our state's economy. It gives us the rare opportunity to measure Alaska's productivity relative to other states, and to explain our product mix and its differences from the rest of the nation. These differences in what we produce are likely why Alaska weathered the recession of the past decade so much better than the other states. Also, because these data have been produced since 1963, they add historical perspective to the analysis.

#### Oil and public sector dominate

In 2010, Alaska produced \$49 billion in goods and services. (See Exhibit 1.) The single largest slice of Alaska's GDP is mining, and most of that is oil.

Oil and gas represented approximately 25 percent of the state's GDP in 2010. Although direct employment in the oil and gas industry makes up just 4 percent of total state employment, these GDP figures illustrate oil's far-reaching influence on Alaska's economy.

Oil's slice of the pie has not always been so large. In 1970, prior to Prudhoe Bay production, it represented just 14 percent of the state's GDP — but by the mid-1980s, it topped 50 percent.

Alaska's public sector makes up 19 percent of the state's gross product, making it the second-largest contributor after oil. The single largest public share comes from the federal government, and that piece is dominated by federal military. In 2000, the federal civilian share of state GDP was larger than the military's, but by 2002 the military surpassed the civilian value and by 2009, it was 50 percent larger

# Alaska Gross Domestic Product By industry, 2010

	2010	share
Total	\$49.12 billion	100%
Government	\$9.19 billion	19%
Private Industry	\$39.93 billion	81%
Agriculture, Forestry, Fishing	\$444 million	1%
Mining (mostly oil)	\$12.51 billion	25%
Utilities	\$688 milion	1%
Construction	\$1.86 billion	4%
Manufacturing	\$1.88 billion	4%
Wholesale Trade	\$1.06 billion	2%
Retail Trade	\$1.90 billion	4%
Transportation and Warehousing	\$4.32 billion	9%
Information	\$1.14 billion	2%
Financial Activities	\$5.92 billion	12%
Professional and Business Services	\$3.05 billion	6%
Educational Services (private)	\$132 million	0%
Health Care and Social Assistance	\$2.86 billion	6%
Leisure and Hospitality	\$1.39 billion	3%
Other Services	\$790 million	2%

Percent

than the civilian share of federal government. This is largely due to troop levels skyrocketing in Alaska between 2002 and 2009, and to the billions of dollars spent on military infrastructure.

Transportation and warehousing is another industry that captures a big slice of the state's GDP: 9 percent in Alaska compared to 3 percent for the nation. Its prominence isn't surprising given the volume of international cargo and the effort it takes to move goods and services within the state. However, the most important part of the sector's value is pipeline transportation, which represented 54 percent of transportation and warehousing in 2009, the most recent year for which detailed data are available. The trans-Alaska pipeline plays a vital role in the life of Alaska's economy, and the value it adds to the state GDP is equally remarkable.

There are plenty of smaller categories represented in Alaska's GDP. For example, retail trade accounts for just 4 percent of the GDP but 11 percent of all wage and salary employment. For other important industries in Alaska such as seafood, the numbers are not clear. The seafood industry is reported in several pieces in these figures. The harvesting share is under the forestry, fishing, and related category; and the processing share is in food product manufacturing. Fishing represents big parts of these categories, but it is difficult to calculate one solid figure for the industry.

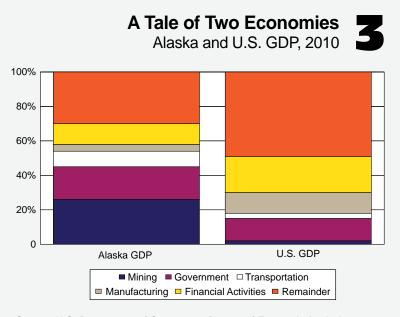
#### Alaska is No. 1 in per capita GDP

At \$63,424, Alaska's per capita GDP is highest in the nation. Although there is typically a correlation between per capita income — for which Alaska

# Per Capita GDP By state, 2010

	Area	Per capita GDP	Percent of U.S.
	United States	\$42,429	100%
1	Alaska	\$63,424	149%
2	Delaware	\$62,587	148%
3	Wyoming	\$61,049	144%
4	Connecticut	\$59,132	139%
5	New York	\$53,377	126%
6	Massachusetts	\$52,251	123%
7	New Jersey	\$49,901	118%
8	Virginia	\$47,570	112%
9	Colorado	\$46,757	110%
10	California	\$46,488	110%

Source: U.S. Department of Commerce, Bureau of Economic Analysis



Source: U.S. Department of Commerce, Bureau of Economic Analysis

ranks eighth in the nation — and per capita GDP, there is an important difference. While income data are for Alaska residents only, GDP measures the market value of goods and services produced in the state without differentiating between residents and nonresidents.

For example, wages and salaries paid to people working in Alaska are part of the state's GDP, regardless of where the workers live. Similarly, the profits — or in GDP terms, the "net operating surplus" — of companies operating in Alaska are part of the state's GDP, whether or not these profits stay in Alaska.

Alaska's high per capita GDP numbers show the state's economy is especially productive relative to its population, but much of that is tied to the high value in recent years of Alaska's commodities, especially oil and minerals.

#### Very different from the nation

The contrast between Alaska's GDP and that of the nation and other states is dramatic. (See Exhibit 3.) Alaska's economy has a unique blend of products — the big standout is oil and gas, which represents less than 2 percent of national GDP but a whopping 20 to 25 percent in Alaska, depending on the price of oil in a given year. Oil does not play as important a role in any other state in the nation.

The public sector is also significantly larger in Alaska, due to the large presence of the military and federal civilian sectors. Another major difference is manufacturing, which accounts for 12 percent of the na-

tion's gross domestic product but only 4 percent in Alaska. The small amount of manufacturing here is dominated by seafood processing and oil refining, which are a tiny piece of the nation's manufacturing sector. Financial activities — made up largely of banks, mortgage companies, brokerage houses, and real estate companies — also play a much bigger role nationally.

These four differences helped cushion Alaska through the recent recession, as oil and mineral prices reached record levels during those years. High oil prices also kept Alaska's state and local governments in the black while most other states operated deeply in the red and cut their workforces.

The nation's manufacturing sector also took a severe beating — but this was not the case in Alaska, due to its small size and makeup. Alaska's financial sector is also smaller and avoided much of the pain felt elsewhere, while the nation's financial sector was hit hard.

#### Alaska GDP grew faster

During the past decade, Alaska's GDP grew at approximately 3 percent per year versus 2 percent nationally. The recession pummeled the nation's gross domestic product figures over the past three years.

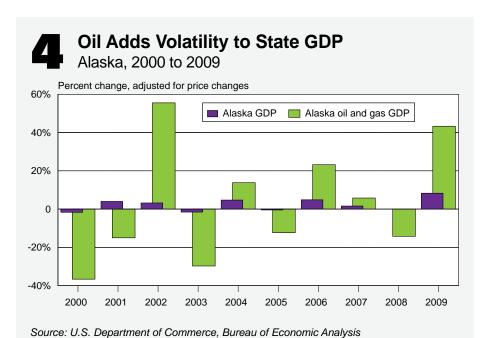
During the 1990s, which were haunted by low oil prices, GDP grew very little in Alaska. But before that, double-digit growth was the norm during the 1960s and 1970s, fueled by Prudhoe Bay exploration and Cook Inlet oil production as well as expansion in fisheries, tourism, and the service sector.

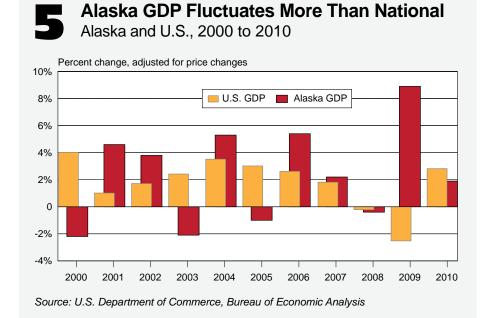
#### Ignore year-to-year changes

Oil gives Alaska GDP much of its year-toyear volatility and contributes mightily to its overall value. This is due to wild swings in oil prices. (See Exhibits 4 and 5.)

These year-to-year GDP fluctuations in Alaska have much less effect on the state's overall economy than they do on the national economy. For example, Alaska's inflation-adjusted GDP growth turned negative in 2000, 2003, and 2005 but employment and income in the state kept growing. That kind of year-to-year change at the national level would have spurred three near back-to-back recessions.

A more dramatic illustration is what happened in 2009. In the past 23 years, 2009 was the only year in which employment and income fell in Alaska. However, due to record oil prices, the state's GDP grew by 9 percent that same year — the decade's largest increase. This is an example of how year-to-year changes in Alaska's GDP might say very little about what's happening on the ground level of the state's economy.





# **Employment Scene**

#### Unemployment rate at 7.7 percent in August

laska's seasonally adjusted unemployment rate for August remained unchanged from July's revised rate of 7.7 percent. The national rate was 9.1 percent, also unchanged from the previous month. (See Exhibit 1.)

These jobless rates have also remained relatively static throughout 2011. In January, the nation's rate was 9.0 percent and the state's rate was 7.8 percent. (See Exhibit 2.)

Even though Alaska's unemployment hasn't changed much in 2011, Alaska remains in an enviable place among most states with an August rate that was 17th lowest in the nation. This is a historically unusual place for Alaska, whose un-

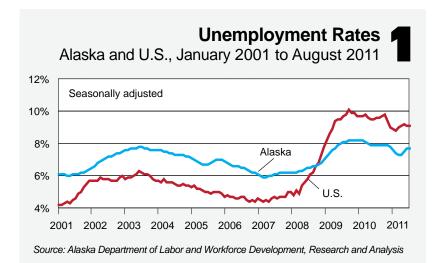
employment ranked second-highest in the nation as recently as August 2007.

#### Alaska, national labor forces linked

It's not unusual for the state's jobless rate to follow the national trend, as the two labor forces are inextricably linked.

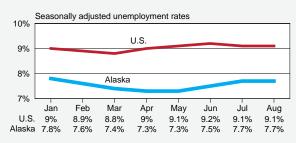
Because Alaska's relative employment picture remains brighter than in most of the nation, fewer Alaskan job seekers are leaving the state — and more job seekers are heading north, putting upward pressure on the state's unemployment rate. This is evidenced by the Alaska Department of Labor and Workforce Development's recently released intercensal data, which show the decade's largest population gains were in 2009 and 2010. (See Exhibit 3.) Most of these gains were due to in-migration, or more people moving in.

Previous research shows that when the nation is in a recession and U.S. jobless rates are above 7 percent, Alaska typically gains residents. (See *Alaska Economic Trends*, June 2009.) The national unemployment rate hit 7.3 percent in December of 2008 and is not likely to drop below that level any time soon. So, as long as Alaska's labor market continues to outperform the nation's and U.S. joblessness remains high, higher-than-average in-migration will likely continue in the state.



# Rates Change Little in 2011 Alaska and U.S.

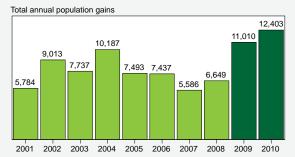
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Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

#### Recession and Population Alaska, 2001 to 2010

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Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section, population intercensal estimates 2001 to 2009; and U.S. Census Bureau, 2000 and 2010 censuses

# Statewide Employment Nonfarm wage and salary

	Preliminary	Revised		Year-Over-Year Change			
					90% Confidence		
Alaska	8/11	7/11	8/10	8/10	Inter	val	
Total Nonfarm Wage and Salary <sup>1</sup>	352,400	355,300	346,400	6,000	-1,383	13,383	
Goods-Producing <sup>2</sup>	58,500	61,000	56,100	2,400	-484	5,284	
Service-Providing <sup>3</sup>	293,900	294,300	290,300	3,600	_	_	
Mining and Logging	17,200	17,200	16,500	700	-93	1,493	
Mining	16,700	16,700	16,200	500	-	_	
Oil and Gas	13,600	13,600	13,400	200	_	_	
Construction	19,100	19,000	19,800	-700	-3,283	1,883	
Manufacturing	22,200	24,800	19,800	2,400	1,406	3,394	
Seafood Processing	15,000	17,500	16,000	-1,000	_	_	
Trade, Transportation, Utilities	69,700	69,400	67,500	2,200	-172	4,572	
Wholesale Trade	6,700	6,700	6,700	0	-556	556	
Retail Trade	37,900	37,900	36,900	1,000	-1,028	3,028	
Food and Beverage Stores	6,500	6,600	6,500	0	_	_	
General Merchandise Stores	10,500	10,300	10,200	300	_	_	
Transportation, Warehousing, Utilit	ties 25,100	24,800	23,900	1,200	162	2,238	
Air Transportation	6,400	6,400	6,000	400	_	_	
Truck Transportation	3,900	3,700	3,400	500	-	_	
Information	6,600	6,600	6,400	200	-381	781	
Telecommunications	4,500	4,500	4,200		-	_	
Financial Activities	15,000	15,000	15,400	-400	-2,343	1,543	
Professional and Business Service	es 28,700	28,600	27,600	1,100	-693	2,893	
Educational 4 and Health Services	42,900	42,700	41,600	1,300	32	2,568	
Health Care	31,900	31,800	30,200	1,700	-	_	
Leisure and Hospitality	40,800	41,400	38,200	,	563	4,637	
Accommodations	8,300	8,300	10,900		-	_	
Food Services and Drinking Places		24,400	21,800		_	_	
Other Services	11,000	11,600	11,900	-900	-4,076	2,276	
Government	79,200	79,000	81,700		_	_	
Federal Government <sup>5</sup>	17,500	17,700	18,400	-900	_	_	
State Government	24,300	24,900	25,000		-	_	
State Government Education 6	5,700	6,000	6,200	-500	_	_	
Local Government	37,400	36,400	38,300	-900	-	_	
Local Government Education <sup>7</sup>	19,200	17,800	19,700	-500	-	_	
Tribal Government	3,800	3,900	4,100	-300	_	-	

# Regional Employment Nonfarm wage and salary

Preliminary		Revised		Changes from		Percent Change		90% confidence interval	
_	8/11	7/11	8/10	7/11	8/10	7/11	8/10	Low	High
Anch/Mat-Su	176,500	177,000	175,700	-500	800	0.5%	0.0%	-2,752	4,352
Anchorage	155,800	155,200	154,600	600	1,200	0.8%	0.5%	_	_

A dash means confidence intervals aren't available at this level.

<sup>1</sup>Excludes the self-employed, fishermen and other agricultural workers, and private household workers. For estimates of fish harvesting employment and other fisheries data, go to labor.alaska.gov/research/seafood/seafood.htm.

Sources for Exhibits 1, 4, and 5: Alaska Department of Labor and Workforce Development, Research and Analysis Section; and U.S. Department of Labor, Bureau of Labor Statistics Sources for Exhibit 6: Alaska Department of Labor and Workforce Development, Research and Analysis Section; and the U.S. Department of Labor, Bureau of Labor Statistics, for Anchorage/Mat-Su

# **Unemployment Rates**Boroughs and census areas

Borougho and och	Prelim.	Revised		
SEASONALLY ADJUSTED	8/11	7/11	8/10	
United States	9.1	9.1	9.6	
Alaska Statewide	7.7	7.7	7.9	
NOT SEASONALLY ADJUSTED				
United States	9.1	9.3	9.5	
Alaska Statewide	6.7	6.8	7.0	
Anchorage/Mat-Su Region	6.2	6.4	6.9	
Municipality of Anchorage	5.8	6.0	6.6	
Matanuska-Susitna Borough	7.6	8.0	7.9	
Gulf Coast Region	7.1	7.3	7.2	
Kenai Peninsula Borough	7.7	7.8	7.9	
Kodiak Island Borough	6.0	6.4	5.8	
Valdez-Cordova Census Area	5.9	6.2	5.8	
Interior Region	6.5	6.7	6.5	
Denali Borough	3.6	3.9	3.3	
Fairbanks North Star Borough	5.9	6.1	6.1	
Southeast Fairbanks Census Area	9.2	9.7	8.6	
Yukon-Koyukuk Census Area	14.7	16.9	12.5	
Northern Region	9.6	10.2	9.7	
Nome Census Area	12.8	14.3	13.6	
North Slope Borough	4.7	5.0	5.0	
Northwest Arctic Borough	14.1	14.5	13.1	
Southeast Region	5.5	5.7	5.8	
Haines Borough	4.6	4.9	4.7	
Hoonah-Angoon Census Area1	10.1	10.9	9.1	
Juneau, City and Borough of	4.6	4.7	5.1	
Ketchikan Gateway Borough <sup>1</sup>	5.3	5.5	5.4	
Petersburg Census Area <sup>1</sup>	6.2	7.4	_	
Prince of Wales-Hyder Census Area <sup>1</sup>	12.4	12.6	_	
Prince of Wales-Outer Ketchikan CA1	_	_	12.5	
Sitka, City and Borough of1	4.6	4.9	4.9	
Skagway, Municipality of <sup>1</sup>	3.9	2.8	2.5	
Wrangell, City and Borough of1	5.6	5.3	_	
Wrangell-Petersburg Census Area <sup>1</sup>	_	_	6.8	
Yakutat, City and Borough of	7.2	7.1	7.6	
Southwest Region	11.3	10.6	11.1	
Aleutians East Borough	8.3	7.6	6.5	
Aleutians West Census Area	6.0	5.9	5.0	
Bethel Census Area	14.4	15.1	14.9	
Bristol Bay Borough	1.8	1.0	1.8	
Dillingham Census Area	8.8	7.8	8.2	
Lake and Peninsula Borough	6.2	4.7	6.0	
Wade Hampton Census Area	21.4	24.5	21.0	

<sup>&</sup>lt;sup>1</sup>Because of the creation of new boroughs, this borough or census area has been changed or no longer exists. Data for the Municipality of Skagway and Hoonah-Angoon Census Area became available in 2010. Data for the City and Borough of Wrangell, Petersburg Census Area, and Prince of Wales-Hyder went into effect in January 2011. Prior to January, data were published for Wrangell-Petersburg Census Area and Prince of Wales-Outer Ketchikan Census Area.

#### Changes in producing the estimates

Beginning with the production of preliminary estimates for March 2011, production of state and metropolitan area Current Employment Statistics estimates transitioned from the Alaska Department of Labor and Workforce Development's Research and Analysis Section to the U.S. Bureau of Labor Statistics. Concurrent with this transition, BLS implemented several changes to the methods to help standardize estimation across states. While these changes reduce the potential for statistical bias in state and metropolitan area estimates, they may increase month-to-month variability. More detailed information on the CES changes is available on the BLS Web site at http://www.bls.gov/sae/cesprocs.htm.

For more current state and regional employment and unemployment data, visit our Web site: laborstats.alaska.gov

<sup>&</sup>lt;sup>2</sup>Goods-producing sectors include natural resources and mining, construction, and manufacturing.

<sup>&</sup>lt;sup>3</sup>Service-providing sectors include all others not listed as goods-producing sectors.

<sup>&</sup>lt;sup>4</sup>Private education only

<sup>&</sup>lt;sup>5</sup>Excludes uniformed military

<sup>&</sup>lt;sup>6</sup>Includes the University of Alaska

<sup>&</sup>lt;sup>7</sup>Includes public school systems

#### **Employer Resources**

#### Health Career Academy trains students to meet growing demand

The Anchorage School District and Alaska Department of Labor and Workforce Development partnered to create the Health Career Academy, intended to meet the increasing demand for a trained health care workforce. The academy, along with more than 30 other entities, trains high school students for entry-level jobs in health care.

The Department of Labor funds the health care career guide position at the Youth Job Center on the school district's King Career Center Campus. Tammy Williamson, the center's health care career guide, leads workshops and trains students one-on-one in interview techniques, resume building, work ethics, and appropriate work attire.

The Health Career Academy offers eight classes: Medical Terminology, Health Occupation Essentials, Advanced Health Care Practices, Introduction to Pharmacy Technology, Certified Nurse Assistant, Emergency Medical Technician, Emergency Trauma Technician, and Personal Care Assistant. Students who complete the coursework receive certification, college credit, or both.

For students who qualify, some funding may be available through the Department of Labor-funded On-the-Job

Training Program. OJT offsets employer training costs for permanent entry-level positions.

The academy has formed partnerships with Anchorage's hospitals and businesses, and Williamson's assistance in the application and competitive selection process reduces the number of hours a participating organization must invest. Williamson recently guided this process for the 2011 Providence Summer Externship Program at the Providence Alaska Medical Center in Anchorage, in partnership with South Central Area Health Education Center. Three Health Career Academy graduates from the Anchorage School District were hired and have proven themselves to be competent members of Providence's health care team. Providence and South Central AHEC plan to expand the competition for summer 2012.

Youths who complete the Health Career Academy program are motivated, ready, and willing to work — many also continue their education in the health care field and maintain their positions throughout college.

For more information about the program, to fill entry-level positions, or to reach health care career guide Tammy Williamson, e-mail tammy.williamson@alaska.gov or call (907) 334-2562.

### A Safety Minute

#### Most trench accidents are sudden and happen at shallow depths

Workers can die if they enter an improperly prepared trench and the walls cave in, which can happen without warning.

If a trench fails suddenly, workers don't have time to escape. A cubic yard of soil can weigh more than 1.5 tons— even seemingly small, solid pieces of dirt can cause serious injury, and most trench fatalities happen at depths of less than 10 feet.

According to the U.S. Bureau of Labor Statistics, 350 workers died in trenching or excavation cave-ins between 2000 and 2009, and absence of a protective system was the main cause. Most injuries and fatalities were related to water and sewer utilities, pipelines, and communications and power line construction.

Excavation and trench hazards are defined by OSHA

standard 29 CFR 1926 Subpart P. OSHA requires that all excavations 5 feet or deeper use one of the following protective systems: sloping or benching the sides, supporting the sides, or placing a shield between the side of the excavation and the work area.

Trench construction requires a competent person to consider traffic, proximity and physical conditions of nearby structures, soil characteristics, surface and ground water, location of the water table, overhead and underground utilities, and weather to determine and install the ideal protective system. Workers should not enter a trench without a protective system in place.

For additional information see: http://www.osha.gov/Publications/OSHA2226/2226.html or contact the Alaska Occupational Safety and Health Consultation and Training program at (800) 656-4972 or 269-4955 in Anchorage.