

# ALASKA ECONOMIC TRENDS

December 2003



## Natural Resources Mining and Timber

Alaska Department of Labor  
and Workforce Development

Frank H. Murkowski  
Governor of Alaska

# ALASKA ECONOMIC TRENDS

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## Mining and Timber

**A**laska's economy has always relied upon its rich natural resources. From the days of the Treadwell mine and the later Klondike gold rush to the development of the Prudhoe Bay oil fields, many Alaskans have earned their living by extracting Alaska's mineral wealth. Many others have been employed cutting timber and harvesting seafood.

*Alaska Economic Trends* reports wage and salary employment for mining and logging, the subjects of this article, under Natural Resources & Mining. Oil & Gas, a subcategory of mining, was profiled in the September 2003 issue of *Trends*. While seafood harvesting is based on natural resources, most fishermen are self-employed, and are therefore not included in wage and salary data. (The Global Salmon Industry is covered in the October 2003 *Trends*.) Other employment in industries related to natural resources, such as sawmills and seafood processing, is recorded in the Manufacturing sector.

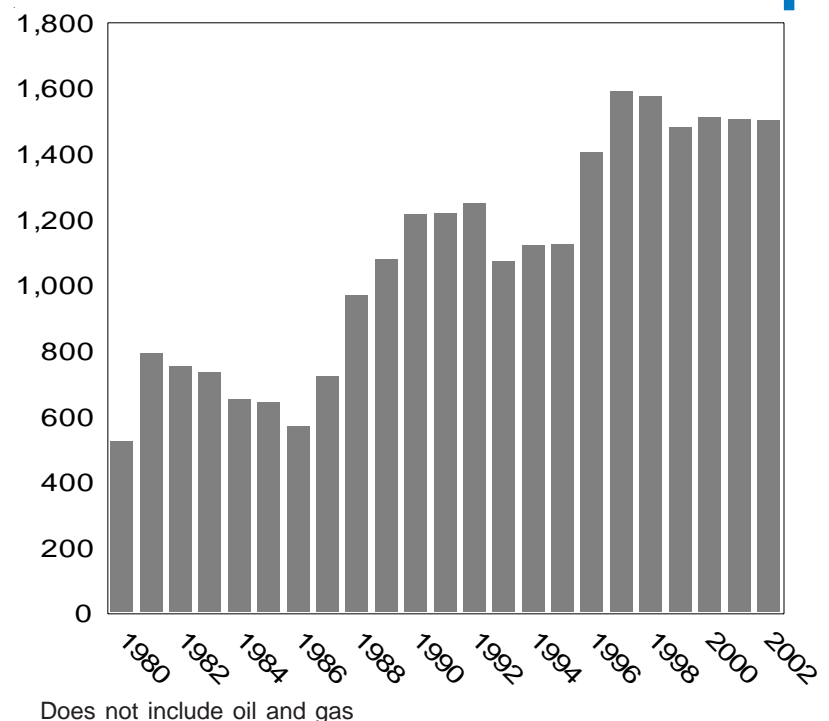
### Mining employment has grown

The mining industry (excluding oil and gas) has nearly tripled in wage and salary employment since 1980. (See Exhibit 1.) The numbers in Exhibit 1 as well as those regularly published in *Alaska Economic Trends* exclude self-employed workers. In some industries, such as logging, few workers are self-employed; in others, such as

placer gold mining, there may be a significant number.

Mining provided 1,503 jobs in 2002, with gold mining and zinc-lead extraction each accounting for 444 positions. Together, these two types of mining accounted for 59 percent of all mining employment. (See Exhibit 2.) Silver mining was

## Mining Employment 1980–2002



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



the next largest with 17.6 percent of the industry's workforce. Sand and gravel, coal, and a miscellaneous category contributed the balance.

## Salaries are high

Alaska's mining employees are some of the highest paid in the state. (See Exhibit 3.) In 2002 they earned an average of \$63,763 a year. Though less than the earnings of oil workers, that amount is substantially more than the statewide average of \$37,101. Earnings in the mining industry are not only high, they have also risen faster than inflation (Anchorage CPI) in the period from 1980 to 2002. In constant 2002 dollars, earnings have increased from \$57,450 in 1980 to \$63,763 in 2002.

## Mining occupations

Based on 2000 survey data, the largest share of mining workers, 31 percent, was in construction and extraction occupations. An additional 21 percent worked in installation, maintenance, and repair occupations, and 15 percent worked in production occupations.

The training for nearly all of these occupations occurs on the job, although several require work experience in a related occupation or post-secondary vocational training. Substantially more formal education is required for the 11 percent of mining workers employed in professional occupations (technicians, engineers, surveyors) and the 5 percent employed in management, business, and financial occupations.

## Zinc more valuable than gold?

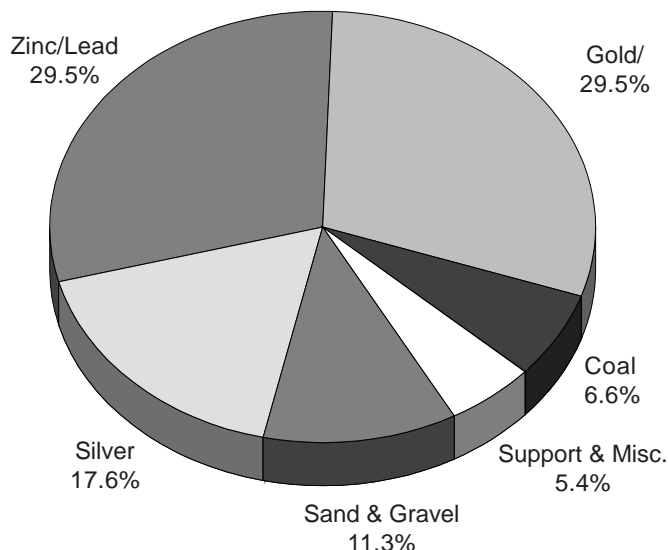
Gold prospecting and mining play a prominent role in Alaska's history and mythology. The Juneau area boomed with the discovery of gold in 1880. A few years later the Treadwell mining complex, across the narrow Gastineau Channel from Juneau, was one of the largest gold mining operations in the world. Prospector George Carmack came to Juneau in 1885 looking for riches, then moved on to the Yukon and was responsible for starting the Klondike Gold Rush of 1897. Smaller gold rushes at Nome and Fairbanks played a major role in the settlement and growth of those cities.

All told, Alaska produced more than a million ounces of gold from 1880 to 1899, worth nearly \$24 million. Since then, the total value of gold produced in Alaska has ballooned to well over \$3 billion. (See Exhibit 4.) It may come as a surprise then that zinc, a relative upstart on the Alaska mining scene, has already far outpaced gold's production value.

Since 1989 Alaska has produced nearly five and a half billion dollars worth of zinc, nearly all of it from Teck Cominco's Red Dog Mine. The Red Dog is located in the DeLong Mountains, approximately 90 miles north of Kotzebue and 100 miles above the Arctic Circle. The huge zinc deposit was first discovered in 1953. The U.S. Geological Survey began documenting the minerals in the area in 1970 and named the local creek "Red Dog" after the rust-colored dog that frequently flew with a local pilot and miner.

The Red Dog is the largest zinc mine in the world. It produced about 85 percent of all U.S. zinc in

# 2 Mining Employment 2002



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

2002. In recent years the Red Dog has employed between 400 and 500 workers in the sparsely populated Northwest Arctic Borough.

Zinc prices fell to their lowest levels in 15 years in 2002, however, and the Red Dog has lost money in recent quarters, causing it to lay off a small percentage of its workers. As an industrial metal (zinc is used primarily to galvanize steel), the demand for zinc generally follows national and international economic cycles. Consequently zinc demand has been relatively low during the 2001-2003 recession.

A more direct reason for the low prices, though, is the strong worldwide investment in mines that took place in the late 1990s, leading to excess supply and downward pressure on prices. Although the quantity of zinc produced in Alaska increased from 2000 to 2002, the total value declined by 19 percent over that period. (See Exhibit 5.)

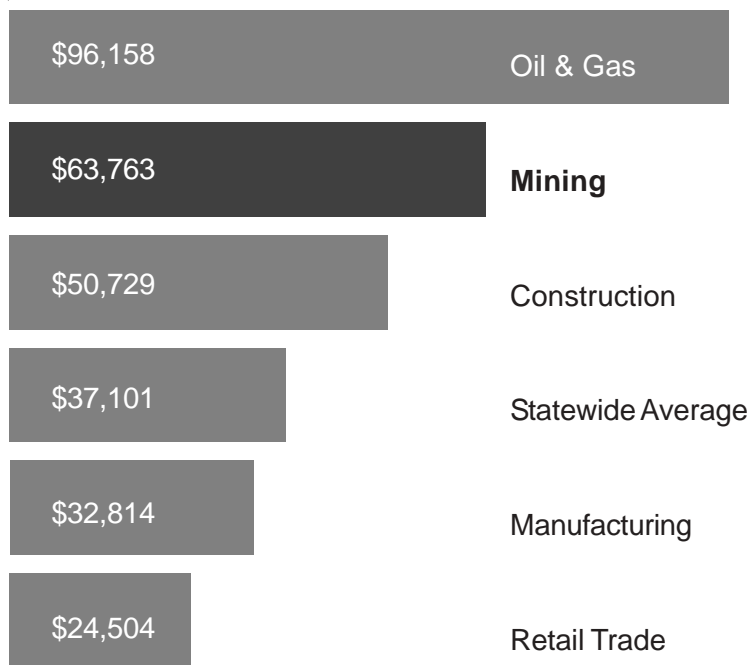
Some small companies and small mines operating outside of Alaska could not absorb the temporary losses and either suspended operations or closed mines altogether. But Teck Cominco is not a small company and the Red Dog is most certainly not a small mine, so any employment losses there are likely to be short-term and of limited numbers.

### Golden opportunities

Although gold has taken a back seat to zinc in terms of total value, the future for gold mining in Alaska is bright. Extensive exploration activity in the late 1980s and again in the late 1990s resulted in substantial new discoveries of gold. The biggest prospect is NovaGold Resources' Donlin Creek project in Southwest Alaska, where it is believed 23 million ounces of gold await mining. Significant new discoveries were also made 25 miles northwest of Fairbanks at Kinross Gold's Fort Knox-True North mine, which has grown into Alaska's largest gold mine, employing as many as 400 workers in recent months.

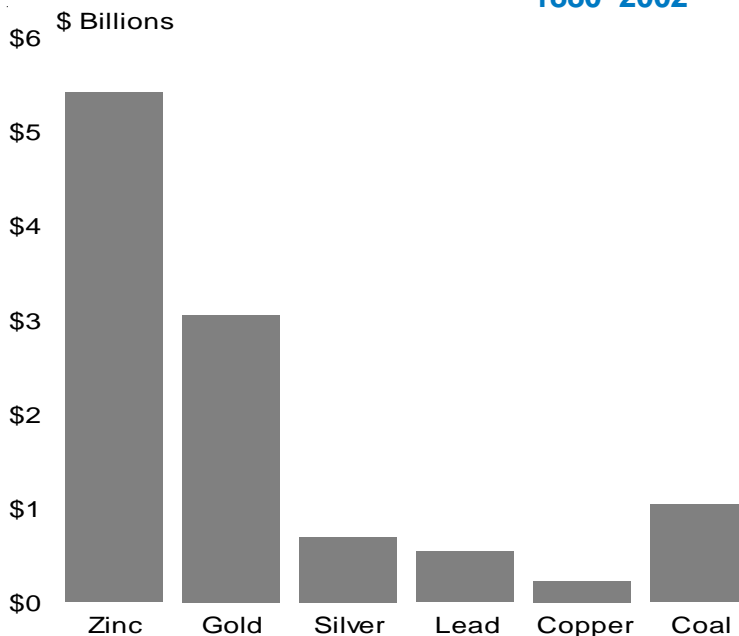
Joint venture partners Sumitomo Metal Mining and Teck Cominco are moving nearer to

## Average Annual Earnings 2002 3



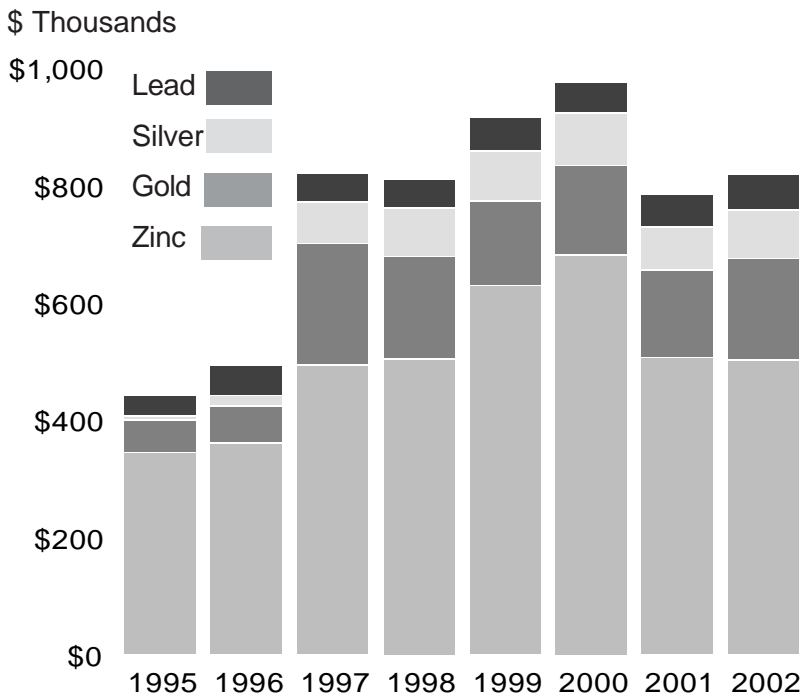
Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

## Value of Mining Production 1880-2002 4



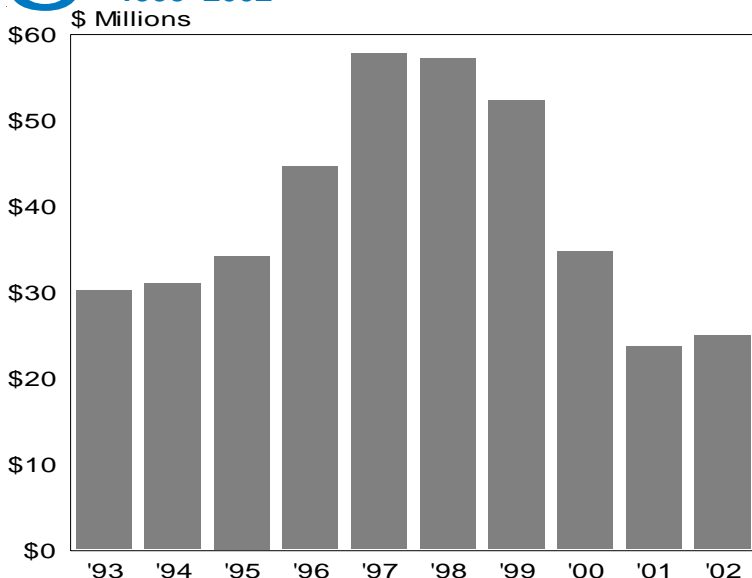
Source: Alaska Miners' Association 2005 Handbook and Services Directory and Alaska Department of Natural Resources

## 5 Alaska Mineral Production 1995–2002



Source: Alaska Miners' Association 2005 Handbook and Services Directory and Alaska Department of Natural Resources

## 6 Exploration Expenditures 1993–2002



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

construction on the Pogo gold project 85 miles southeast of Fairbanks in Interior Alaska. During construction of the mine and access road, employment is expected to reach as high as 700. Production operations will require a workforce of about 300. In Southeast, Coeur Alaska is moving toward final permitting of its Kensington gold mine north of Juneau, which contains an estimated 1.8 million ounces of proven and probable gold reserves.

Near Nome, partners NovaGold Resources Inc. and TNR Resources Ltd. continue exploration at their Rock Creek property. At least 550,000 ounces have been located at the site and another 303,000 are believed to exist. Production is scheduled to begin in 2005. Exploration at Northern Dynasty Minerals' Pebble project near Lake Iliamna is producing news of significant high grade gold-copper mineralization. The deposit will likely be accessible for low cost, open pit mining. A number of other projects are being explored or developed.

Although exploration has fallen in the last three years, exploration expenditures still amounted to \$25 million in 2002, more than \$17 million of which was for gold and associated precious metal projects. (See Exhibit 6.)

Gold prices have risen in recent months, (to almost \$400 an ounce in mid-November) largely due to economic and political uncertainty and volatile currency markets. Gold is often seen as a safe haven for investors although it has seen dramatic fluctuations in prices over the last few decades. In 1980 gold was worth \$835 dollars an ounce; by 1998 it had fallen below \$300 an ounce. In the short term, the higher prices are expected to stimulate gold production and if the prices remain high exploration activity is also likely to increase.

In 2002, jewelry made up approximately 80 percent of total demand; retail investment, 10 percent; industrial use, 8 percent; and dental products, 2 percent. Over any extended period of time, the world demand for gold has been

remarkably consistent, which bodes well for Alaska's growing gold mining industry.

## Other mineral wealth

Alaska is rich in other minerals besides zinc and gold. Kennecott's Green's Creek Mine near Juneau employs more than 250 workers and is the largest silver mine in North America. It also produces gold, lead, and zinc. Alaska also produces significant amounts of lead, copper, and coal. Exploration for platinum is underway in southeast Alaska near Ketchikan, and what is believed to be the first ever lode diamond discovery in Alaska is being explored at Shulin Lake near Talkeetna.

Industrial minerals used for buildings, roads, railroads, airports, and docks are also abundant in Alaska. Marble quarried on Prince of Wales Island was used for the four columns of Juneau's state capitol building and in many buildings constructed on the west coast during the early 1900s.

The state's glacial history has produced, and continues to produce, a high grade of sand and gravel, most of it near coasts, facilitating transportation. The mining of construction sand and gravel provided 170 jobs in 2002.

In all, 77 million hectares of mineral-rich land in Alaska is available for exploration and development. This is an area about twice the size of Nevada. Alaska contains more land open to mineral development than the other 49 states combined.

## Environmental issues

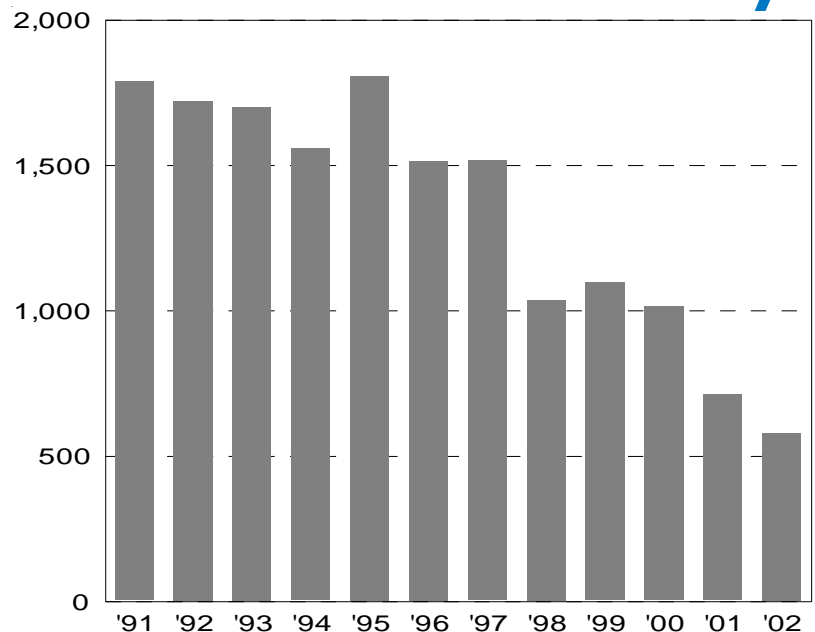
The availability of land for development does not necessarily mean known mineral reserves will be developed. If mining operations will affect the environment, the National Environmental Policy Act requires an environmental impact statement analyzing the effects and what steps the company must take to minimize or eliminate environmental harm. This can be a long and controversial process.

The Alaska Departments of Natural Resources (ADNR) and Environmental Conservation (ADEC), play roles before mining construction or development can begin. Individuals are given the opportunity to weigh in on proposed projects through public comments. As is often the case in Alaska when environmental issues are involved, there can be heated debate between those who favor specific projects and those who oppose them.

## Timber

In 1991, nearly 1,800 were employed in logging operations in Alaska's forests. By 2002, only 32 percent, (581) of these jobs still existed. (See Exhibit 7.) In the Pacific Northwest, the Endangered Species Act and the spotted owl controversy played a role in limiting access to federally managed forestlands, while pollution issues resulted in some mill closures. In Alaska, cutting restrictions unilaterally imposed by the U.S. Forest Service in the early 1990s effectively

## Logging Employment In Alaska 7



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

ended the long-term harvest contracts upon which the mills depended. In British Columbia, other political factors involving First Nations and environmental concerns contributed to a growing debate over the best use of forestlands. While each of the areas faced unique political situations, a global economic trend was increasingly impacting the entire region.

The economic reasons are complicated, but the underlying essence is the fact that the growing worldwide production of timber has exceeded demand for most of the past decade. Within the wood products industry, a series of mergers and consolidations have seen the emergence of several dominant corporations whose business perspective is global in scope. In seeking efficiencies, these companies have closed or consolidated plants in high cost areas and shifted investments to lower cost areas, often to nations in the developing world as well as to the American south.

## Regional trend

In the 1990s, Alaska Pulp Corporation and Ketchikan Pulp Company closed pulp mills and associated sawmills in Southeast Alaska. These closures largely eliminated the local processing capacity and dramatically reduced the local demand for timber.

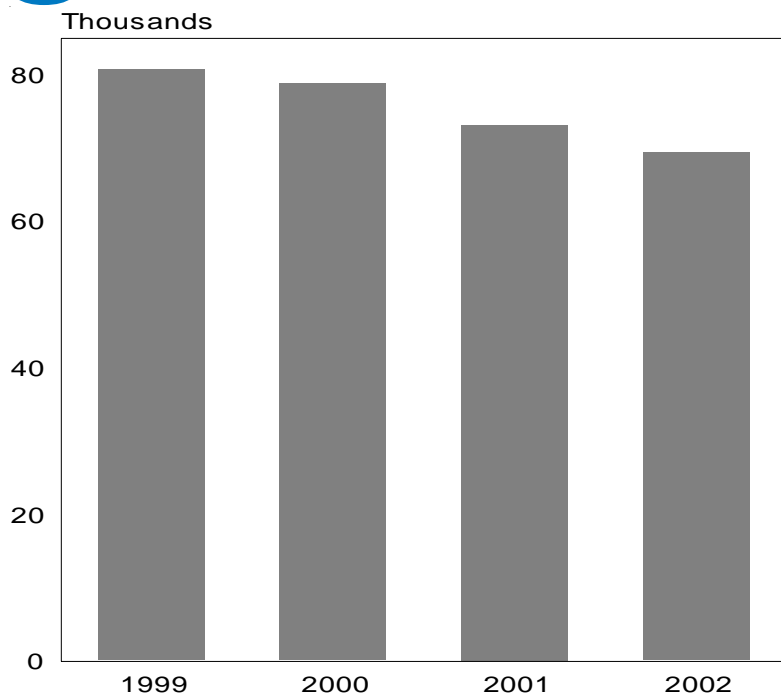
The Alaska mill closures were part of a regional trend that included the Pacific Northwest and British Columbia. Large timber companies were attempting to attain economies of scale with mergers and plant closings throughout the region. In Washington state, pulp mills in Port Angeles, Bellingham, Longview, and elsewhere were closed. Of the 673 sawmills that operated in the Pacific Northwest in 1988, only 349 remained by 1996. Similarly, of the 66 plywood mills that had operated in the coastal Pacific Northwest in 1988, only 27 remained by 1997.

A hundred or so miles to the south of Ketchikan in Prince Rupert, British Columbia, Skeena Cellulose Inc. declared bankruptcy in 1997. Because the company was so important to the area, accounting for up to 10,000 direct and indirect jobs according to an October 2003 *Vancouver Sun* article, the provincial government attempted a rescue. This attempt ultimately failed, and the company went into receivership in 2001, leaving taxpayers on the hook for C\$412 million. While there have been recent efforts to reopen the plant, as of this writing it remains closed.

This process is continuing. Since 1997, 11 of B.C.'s 47 forest product mills have closed. Following Weyerhaeuser's hostile takeover of Willamette Industries in 2001, the company has shuttered 28 plants across the United States and Canada, and eliminated 2,287 jobs. Acquisitions and consolidations by other major corporations have resulted in similar reductions. (See Exhibit 8.)

Within its regional context, Alaska suffered far fewer mill closures than British Columbia or the Pacific Northwest. Unfortunately, these mills

## 8 U.S. Logging Employment 1999–2002



Source: U.S. Bureau of Labor Statistics



represented a far higher percentage of the local processing capacity. While loggers in Oregon, Washington, and British Columbia continued to send timber to fewer but more efficient local mills, Alaska loggers increasingly relied on the harvest and export of raw logs and rough cut lumber from private lands to Asian markets. (See Exhibit 9.) Before long, openings to these Asian markets for Alaska timber began to narrow.

## Export markets

The Asian economies suffered a series of shocks during the 1990s. The Japanese recession resulted in fewer housing starts and lessened demand for wood products. The broader Asian economic downturn of 1997-1998 also impacted financial conditions. As the dollar gained strength against most Asian currencies, Alaska exports became more expensive. Moreover, inexpensive raw logs and rough cut timber from Russia's vast forests were capturing an ever larger share of the Northern Asia (China, Japan, Korea) market, growing from 17 percent in 1991 to an estimated 60 percent in 2002. Finally, wood from New Zealand plantations made up an ever-greater share of Asian imports.

China's economic growth during this period, which some thought would lead to increased demand for North American wood products, proved a disappointment. In fact China, relying on plantation trees as well as the vast and accessible Russian forests, has become a competitor, and now supplies a significant amount of Japanese needs. This emerging Sino-Russian forest products relationship has altered the dynamics of the Asian timber market.

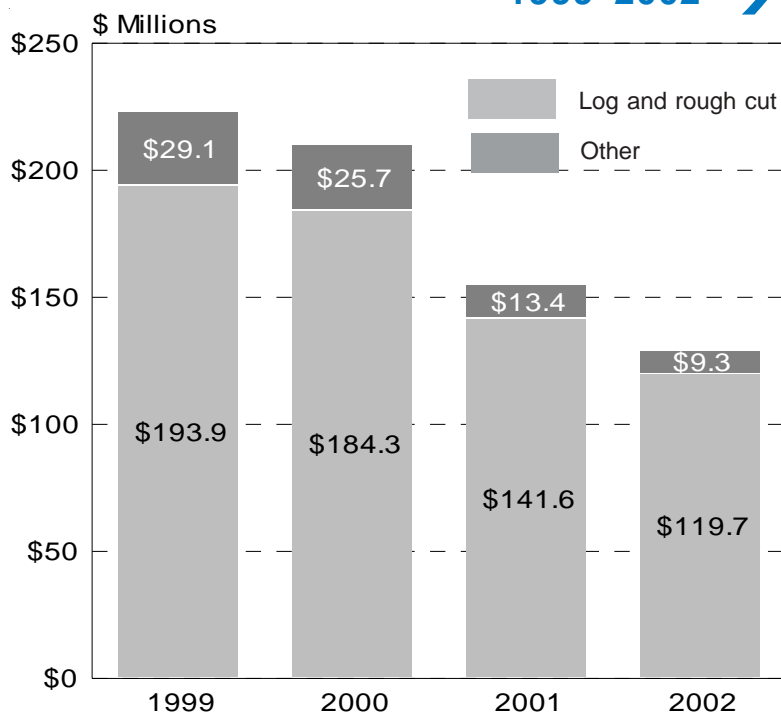
In 1995, Russia replaced the United States as the world's largest exporter of logs, and in 2001, China replaced Japan as the largest importer. The Chinese imports of raw logs support a growing processing industry, with China exporting finished wood products and supplying Japan with goods it once produced itself with timber obtained from North America. By 2002, China had more than 2,000 plywood mills, and was the fourth largest supplier of softwood plywood to the United States.

Plywood production is expected to grow from two billion square feet a decade ago to more than thirteen billion square feet by 2005.

In general, raw softwood logs and rough cut timber are at the low end of the scale in terms of wholesale value and profitability. U.S. log exports have declined 40 percent since 1989, while European exports, increasingly based on Scandinavian tree farms and the newly accessible Russian forests, have grown 81 percent, and Oceania's export of logs, mostly from New Zealand, has increased more than 200 percent. Since the mid-1990s, Alaska's exports of softwood logs and rough cut lumber has followed the U.S. decline. (See Exhibit 9.)

Not only is Alaska facing increased competition in the raw material market, but the opportunities for U.S. manufactured wood products are clearly under assault. In 1997, for example, U.S. plywood exports totaled a record 1.7 billion square feet. By 2002, shipments had fallen by 74 percent to only

## Value of Alaska Wood Exports 1999-2002



Source: U.S. Census

443 million square feet. U.S. exports to Europe during this period declined by 99 percent, while the combined total of U.S. and Canadian plywood exports to Asia fell on the order of 60 percent. (See Exhibit 11.)

Rising imports from South America, especially Brazil, and increased local production of both plywood and oriented strand board, (OSB) largely explain the loss of European markets, while increased Chinese production of plywood has undermined U.S. exports to Asia.

### Farmed trees

In August 1996 *The Economist* magazine carried an article entitled The Forest Industry Uprooted. The article argued that the timber industry was abandoning its traditional production locations and setting up new facilities in the Southern Hemisphere based on fast growing plantation trees. It predicted that Latin America would

overtake North America as the major exporter of forest products to the Pacific Rim by 2010.

While only five percent of the world's forest area is currently in plantations, these tree farms produce approximately 35 percent of the world's industrial round wood supply. This is expected to increase to 44 percent by 2020. In the past two decades, the area devoted to tree plantations has increased tenfold.

In 2002, for example, New Zealand's tree farm harvest amounted to 8.5 billion board feet valued at \$2 billion. Most of this was exported to Asian markets. Alaska's total wood exports by contrast, were valued at only \$129.1 million. New Zealand's production, which has more than doubled since the 1980s is expected to expand by up to six times by 2025. Multinational firms such as International Paper, Weyerhaeuser, Rayonier, Inc. as well as Japanese based companies have increased their holdings in New Zealand's "wall of wood," and many are developing plantation systems in other Southern Hemisphere countries including Chile, Uruguay, and Brazil.

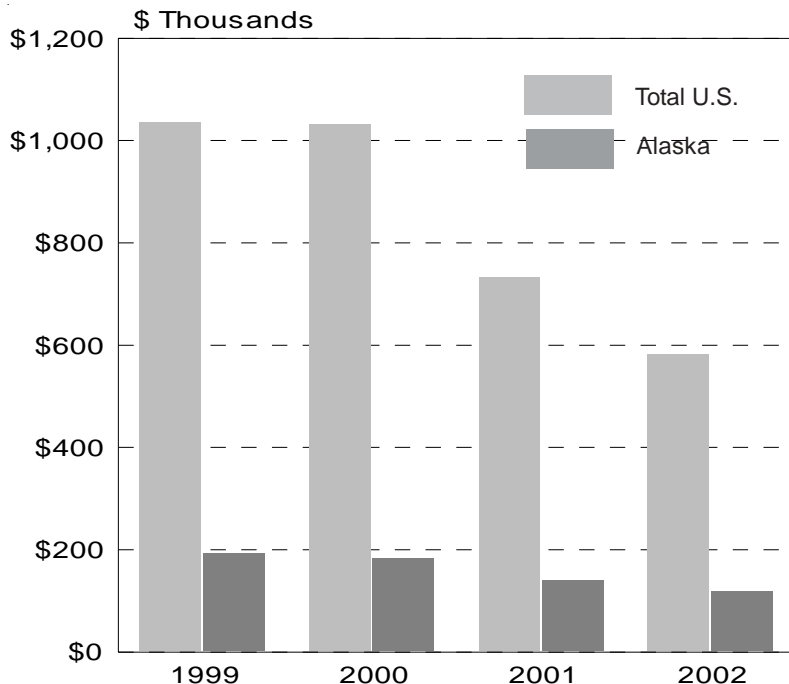
Currently Brazil has 300 plywood mills, 40 percent of which draw fiber from softwood plantations. Production is expected to exceed three billion square feet by 2005. Two thirds of the country's production is exported.

At the same time Russian forest products are displacing North American logs on the Asian market, tree plantations across the Southern Hemisphere are gaining an increasing share of the market, as well as supplying a source of raw materials for manufactured wood exports. This growing competition from low wage areas cannot be ignored.

### Alaska is a high cost area

Alaska is a high cost area within the United States and the U.S. is a high cost area within the emerging world economy. Major firms like International Paper, Weyerhaeuser, Stora Enso

## 10 Log/Lumber Exports to Japan Total U.S. and Alaska



Source: U.S. Census

and others are increasingly locating production facilities in low wage areas that have ready access to fiber. Scandinavian multi-nationals have come to rely on the newly available low-cost Russian timber as well as domestic tree farms to produce high-end engineered wood. American based multi-nationals have pursued a strategy of mergers and the closure of inefficient plants, relocation of U.S. production to the American south, and growing investments in developing nations.

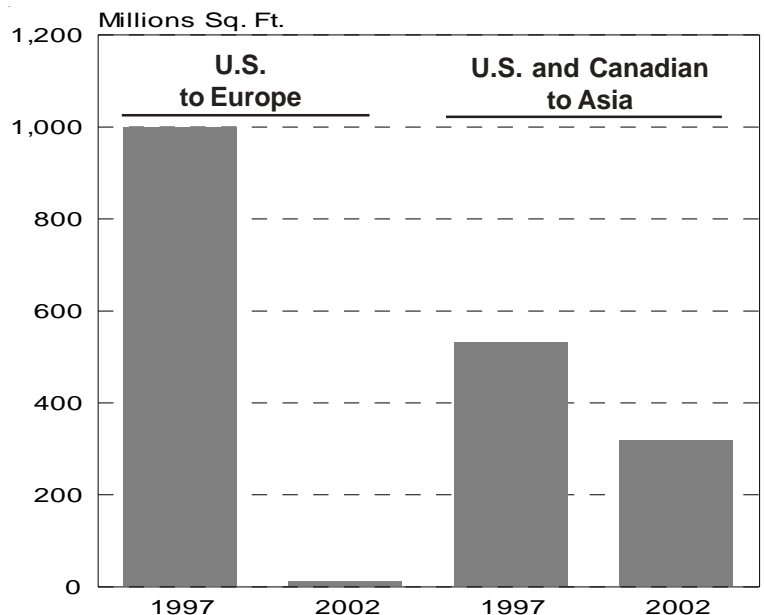
In many ways, the softwood timber dispute between Canada and the United States, which has led to WTO and NAFTA hearings, is irrelevant to the investment strategies of multinational firms. For example, Weyerhaeuser has long operated in Canada and in 1999 added to its holdings by acquiring MacMillan Bloedel. Following this acquisition, Weyerhaeuser closed plants in both Canada and the Pacific Northwest while expanding its operations in New Zealand and Uruguay. As major producers transfer operations to lower cost areas offshore, smaller domestic firms are displaced from export markets and face growing competition from low priced imports.

In a 2001 report prepared for the Canadian Ministry of Forests entitled *Industry in Crisis*, Peter Pearse, a former forestry professor at the University of British Columbia, presented a limited cross-national comparison of timber costs. Pearse found that Chile had the study's lowest cost softwood lumber production. (All values are expressed in 2000 Canadian dollars.) Chile's loggers and millworkers produced a thousand board feet of dimensional lumber for \$202 including labor costs of only \$49. Brazil was a close competitor at \$267 per thousand board feet of which \$82 was labor costs. Coastal British Columbia, by contrast, was the most expensive area with total costs running \$559 per thousand board feet and \$228 in labor costs. Pearse's study, which did not include Alaska, also showed the Pacific Northwest as a high cost area at \$437 per thousand board feet with \$124 going to labor. It should be noted that the study did not include China, where according to the *Marine Digest and Cargo Business News*, the average Chinese

worker earns just 2.1 percent of the average U.S. income.

A 1998 University of Washington study entitled *An Assessment of Market Opportunities for Alaska's Forest Product Exports*, found Alaska's production costs to be slightly higher than British Columbia's. Total costs of production (in 1995 dollars) over the 1987 to 1994 time period, averaged \$370 per thousand board feet for Alaska compared to \$345 for British Columbia and \$170 for the Pacific Northwest. Labor costs of producing one thousand board feet of aggregated sawn lumber in Alaska was \$153.52 compared to \$99.26 in the Pacific Northwest. (Adjusted to 2002 values, these amounts would be \$182.56 and \$117.18 respectively.) While Alaska stumpage fees were the lowest among the regions, manufacturing costs comprised 50 percent of Alaska's total lumber costs compared to 27 percent in BC and 21 percent in the Pacific Northwest. The authors stated that reasons underlying this disparity were unclear, but manufacturing inefficiencies may have included the scale of operations, higher

## Plywood Exports 11 To Europe and Asia, 1997 and 2002



Source: APA Engineered Wood Association

energy and transportation costs, difficulty of terrain, lack of infrastructure and higher labor costs. (See Exhibit 12.)

Labor cost data from the U.S. Bureau of Labor Statistics tend to support these findings. While there are differences in logging techniques, equipment and productivity, annual salaries are indicative of overall labor costs. In 2001, timber fallers in Alaska earned an average annual wage of \$60,920. This compared to Oregon's \$46,740 and Georgia's \$21,870. These Alaska loggers earned nearly twice the national average of \$32,580. Alaska also had the highest average annual wage for sawyers (a manufacturing occupation) at \$29,780, which was roughly one third higher than the \$20,970 annual wage of sawyers in South Carolina and 20 percent higher than the national average of \$22,810. (See Exhibits 13 and 14.)

## Alaska in a global perspective

Geographically, Alaska is by far the largest state in the union. Alaskans surrounded by largely undeveloped natural resources often wonder why these treasures cannot be readily translated into economic prosperity. Impressive as these resources are, they must be viewed within a global context.

While Alaska's timber stands seem extensive, they are relatively small in comparison with the rest of North America. The Tongass National Forest, for example, represents approximately one percent of U.S. forested lands and less than one tenth of a percent of the global total. Russian forests, which were largely unavailable until the 1991 collapse of the Soviet Union, represent 22 percent of the world's forest supply and contain over half the world's standing softwood. Proximity to both European and Asian markets and low cost labor are added Russian advantages. These factors have in recent years attracted growing multinational investment that has only begun to exploit the potential of Russian resources. (See Exhibit 15.)

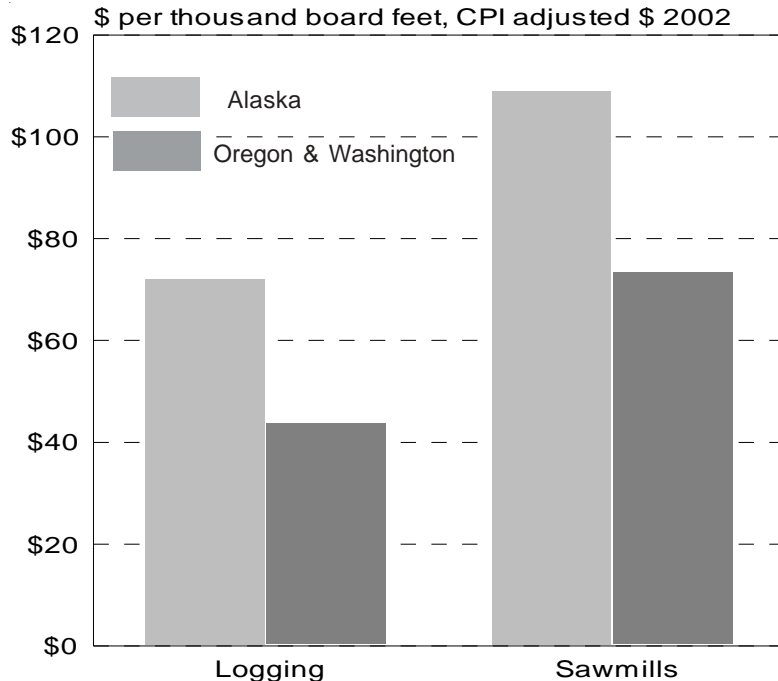
On a broader scale, multinational timber companies seem to be focusing attention on plantations based in emerging nations. Tree farms already contribute over a third of the world's round wood supply, and are expected to increase this figure to nearly half by 2020. Like the threat posed by salmon farms to Alaska's wild stock fisheries, tree farms located in low-cost developing nations are expected to capture an ever-greater share of world markets.

## Bright spots

While most indicators fail to point towards a significant revival of the Alaska timber industry, there are some bright spots. The low mortgage rates of 2003 ushered in a building boom that increased domestic demand for softwood lumber and led to higher prices. The fact that much of British Columbia's production was curtailed due to forest fires contributed to this upward spiral. The decline in the dollar in relation to both the euro and yen has made Alaska exports more affordable on foreign

# 12 Labor Costs per 1,000 Bd. Ft. Alaska vs. Oregon and Washington

1987-1994



Source: University of Washington College of Forest Resources



markets, while the rise of the Canadian dollar has increased the cost of Canadian lumber on domestic markets. Another positive sign is that the sluggish Japanese economy has finally begun to show some signs of improvement.

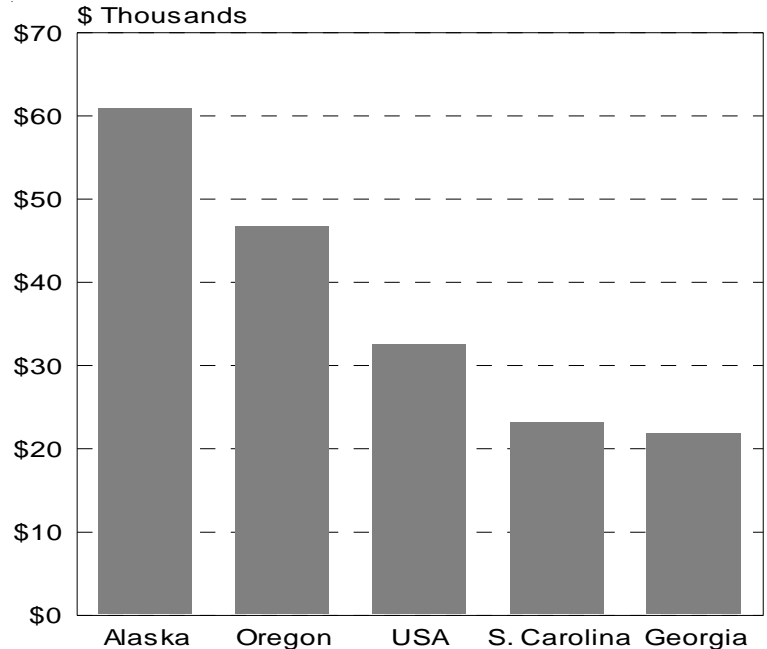
In addition, some Alaska mills may follow Pacific Log and Lumber's lead in installing dry kilns, a major step towards providing finished lumber for local markets. Not only will this save the costs of transporting green lumber south, it will provide further opportunities for Alaska builders and manufacturers who utilize finished lumber. While such measures should increase milling and manufacturing employment opportunities, it is doubtful they will create a demand for a substantial increase in timber harvests. They will, however, lead to a more profitable utilization of current levels of harvest. Opportunity appears to exist for specialty small business manufacturing utilizing Alaska woods; this would benefit the economy and manufacturing employment, but have negligible impact on the level of natural resource extraction.

## Conclusion

Alaska is enormously rich in natural resources, but in spite of their symbolic and mythic importance, they have not been a major source of employment in the modern era. In 1980, only one percent of the state's wage and salary workforce was employed in the mineral mining and timber industries. By 2002, the actual number of workers had increased slightly, but their percentage of the workforce had fallen to seven-tenths of one percent.

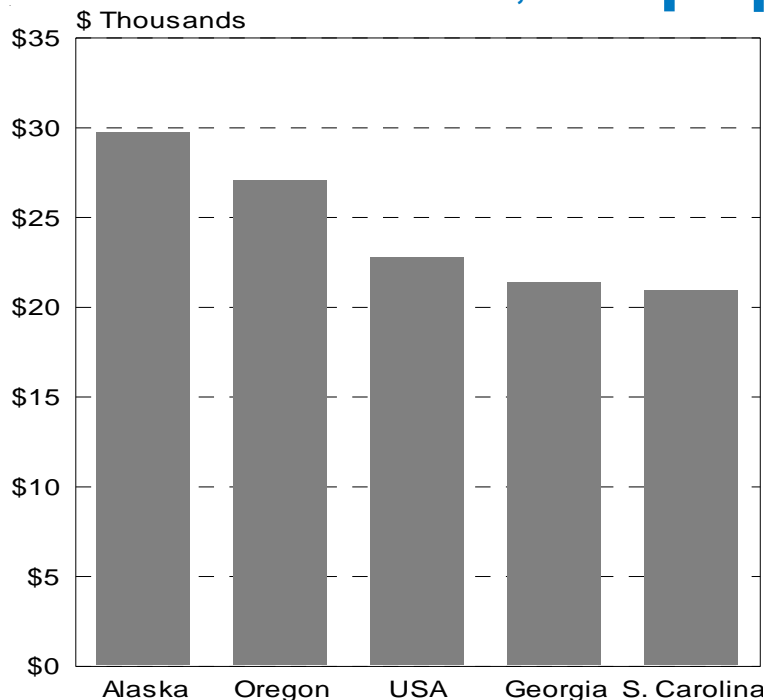
The mining and timber industries deal with the production of raw materials, and in this era of globalization such commodities must compete on a world market against new sources of supply. A distinction is to be drawn between biological resources such as timber and mineral resources like zinc and gold. Timber can be farmed, and vast forests exist in low wage countries. These abundant, alternative sources of supply have driven world prices of the commodity downward

## Timber Fallers Avg. Annual Wage 13 Selected states, 2001



Source: U.S. Bureau of Labor Statistics

## Sawyers Average Annual Wage 14 Selected states, 2001



Source: U.S. Bureau of Labor Statistics

and glutted the market. While Alaska timber will continue to find specialty markets and niche opportunities, the economic realities of the early twenty-first century point towards a world market dominated by less expensive sources.

Mineral resources, on the other hand, must be mined where they are found and production cannot be shifted to other locales. While the discovery and development of ore bodies in low wage areas affect prices, Alaska's supply of mineral resources is large enough to suggest a continuing ability to compete on the world market. For the foreseeable future, mineral wealth will provide economic benefit to the places where the minerals happen to be found, and Alaska is one of those places.

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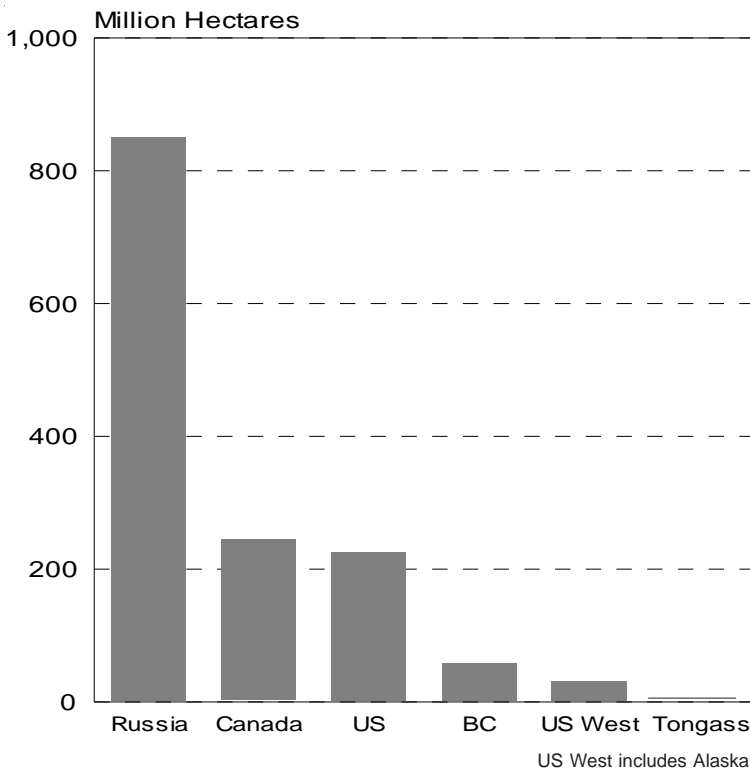
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### December

Natural Resources—Mining and Timber  
2003 Trends Index

## 15 Total Forest Area 2001



Sources: FAO 2003, Statistics Canada, U.S. Forest Service, *Forest Resources of the U.S.*

## A Typical September

Labor markets let up on the throttle

**I**n typical seasonal movement Alaska's labor market contracted in September. The combined employment loss amounted to 4,700 jobs. Seasonal industries such as seafood processing and those related to the summer visitor season were responsible for most of the losses.

The end of the salmon season resulted in a loss of 3,300 seafood processing jobs from August to September. Employment in the Leisure & Hospitality sector fell by 2,400. Hundreds of tourism-related jobs in the passenger transportation and retail trade industries also ended for the season. Public education employment partially offset these expected seasonal declines. State government gained about 1,500 jobs and local government added 2,700 jobs as the new school year began. (See Exhibit 2.)

Compared to September 2002, Alaska's total wage and salary employment came in 4,100 jobs ahead, an increase of 1.3 percent. Performance was up in most sectors. Education & Health Services grew a robust 6.9 percent. Construction saw a healthy growth rate of 3.7 percent, while most other industry categories showed more moderate growth rates. Both the Manufacturing sector and the Natural Resources & Mining sector, which includes the oil and gas industry, showed over-the-year job losses. Manufacturing was down 100 jobs due to declines in seafood processing employment. Natural Resources & Mining recorded 1,000 fewer jobs. Reductions in oil and gas employment accounted for most of this loss, with the industry providing 800 fewer jobs than in 2002, a decline of 9.5 percent.

Alaska's statewide unemployment rate inched up one-tenth of a percentage point in September to

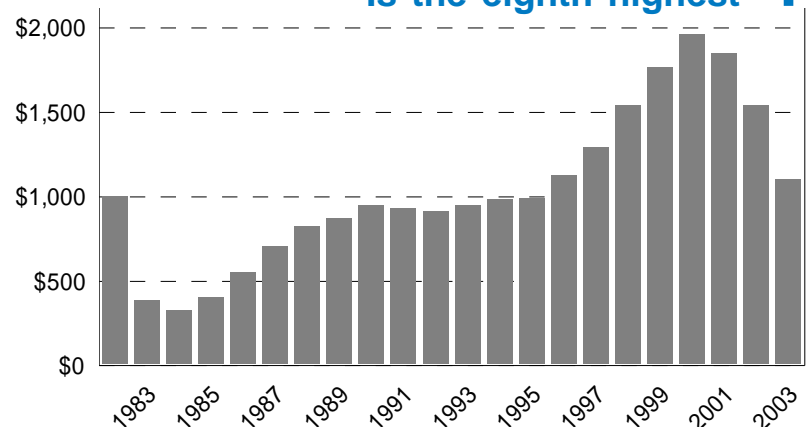
6.8 percent (See Exhibit 4.) The number of unemployed persons changed very little over the month despite the large seasonal decline in employment. This suggests that most of the seasonal workers either left the state when their jobs ended for the year or did not immediately seek other employment. (To be counted as unemployed a person must be actively seeking work.)

### Oil turnaround may become possible

After eighteen months of decline in oil-related employment, good news has begun to seep through Alaska's North Slope oil patches. Heavy oil production may become economically feasible. New technology that allows greater recovery rates could result in steadied production levels and help fend off the expected decline of mature fields. Both North Slope producers have started test drilling and have committed funds for further exploration. They caution that engineering

*(continued next page)*

### 2003 Permanent Fund Dividend **1** Is the eighth highest



Source: Alaska Department of Revenue, Permanent Fund Division

# 2 Nonfarm Wage and Salary Employment

## By place of work

Alaska	preliminary		revised			Changes from:		
	9/03	8/03	9/02	8/03	9/02			
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	<b>314,700</b>	<b>319,400</b>	<b>310,600</b>	<b>-4,700</b>	<b>4,100</b>			
Goods Producing	43,000	47,200	43,500	-4,200	-500			
Services Providing	271,700	272,200	267,200	-500	4,500			
<b>Natural Resources &amp; Mining</b>	<b>9,900</b>	<b>10,200</b>	<b>10,900</b>	<b>-300</b>	<b>-1,000</b>			
Logging	800	800	700	0	100			
Mining	9,700	10,000	10,200	-300	-500			
Oil & Gas	7,800	8,000	8,600	-200	-800			
<b>Construction</b>	<b>19,700</b>	<b>20,100</b>	<b>19,000</b>	<b>-400</b>	<b>700</b>			
<b>Manufacturing</b>	<b>13,400</b>	<b>16,900</b>	<b>13,500</b>	<b>-3,500</b>	<b>-100</b>			
Wood Products Manufacturing	400	400	400	0	0			
Seafood Processing	9,400	12,700	9,300	-3,300	100			
<b>Trade, Transportation, Utilities</b>	<b>63,800</b>	<b>65,100</b>	<b>63,500</b>	<b>-1,300</b>	<b>300</b>			
Wholesale Trade	6,300	6,500	6,400	-200	-100			
Retail Trade	35,200	35,600	34,900	-400	300			
Food & Beverage Stores	6,000	6,200	5,800	-200	200			
General Merchandise Stores	9,100	9,200	9,400	-100	-300			
Trans/Warehousing/Utilities	22,300	22,900	22,200	-600	100			
Air Transportation	6,600	6,800	6,600	-200	0			
Truck Transportation	2,800	3,000	2,800	-200	0			
<b>Information</b>	<b>7,400</b>	<b>7,200</b>	<b>7,300</b>	<b>200</b>	<b>100</b>			
Telecommunications	4,300	4,300	4,300	0	0			
<b>Financial Activities</b>	<b>14,600</b>	<b>14,700</b>	<b>14,000</b>	<b>-100</b>	<b>600</b>			
<b>Professional &amp; Business Svcs</b>	<b>25,200</b>	<b>25,900</b>	<b>24,800</b>	<b>-700</b>	<b>400</b>			
<b>Educational &amp; Health Services</b>	<b>32,500</b>	<b>32,400</b>	<b>30,400</b>	<b>100</b>	<b>2,100</b>			
Health Care/Social Assistance	30,200	30,300	28,300	-100	1,900			
Ambulatory Health Care	13,100	13,200	12,100	-100	1,000			
Hospitals	7,800	7,800	7,500	0	300			
<b>Leisure &amp; Hospitality</b>	<b>32,900</b>	<b>35,300</b>	<b>32,400</b>	<b>-2,400</b>	<b>500</b>			
Accommodation	9,100	10,300	8,900	-1,200	200			
Food Svcs & Drinking Places	19,400	20,300	19,000	-900	400			
<b>Other Services</b>	<b>12,700</b>	<b>13,100</b>	<b>12,700</b>	<b>-400</b>	<b>0</b>			
<b>Government<sup>2</sup></b>	<b>82,600</b>	<b>78,600</b>	<b>82,000</b>	<b>4,000</b>	<b>600</b>			
Federal Government <sup>3</sup>	17,300	17,500	17,300	-200	0			
State Government	24,600	23,100	24,400	1,500	200			
Local Government	40,700	38,000	40,400	2,700	300			
Tribal Government	3,400	3,700	3,600	-300	-200			

Municipality of Anchorage	preliminary		revised			Changes from:		
	9/03	8/03	9/02	8/03	9/02			
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	<b>149,100</b>	<b>149,500</b>	<b>146,400</b>	<b>-400</b>	<b>2,700</b>			
Goods Producing	14,400	14,500	14,200	-100	200			
Services Providing	134,700	134,900	132,200	-200	2,500			
<b>Natural Resources &amp; Mining</b>	<b>2,400</b>	<b>2,500</b>	<b>2,700</b>	<b>-100</b>	<b>-300</b>			
Mining	2,300	2,400	2,600	-100	-300			
Oil & Gas	2,100	2,200	2,500	-100	-400			
<b>Construction</b>	<b>10,100</b>	<b>10,100</b>	<b>9,500</b>	<b>0</b>	<b>600</b>			
<b>Manufacturing</b>	<b>1,900</b>	<b>2,000</b>	<b>2,100</b>	<b>-100</b>	<b>-200</b>			
<b>Trade, Transportation, Utilities</b>	<b>33,500</b>	<b>33,500</b>	<b>33,400</b>	<b>0</b>	<b>100</b>			
Wholesale Trade	4,700	4,700	4,700	0	0			
Retail Trade	17,700	17,600	17,400	100	300			
Food & Beverage Stores	2,400	2,500	2,300	-100	100			
General Merchandise Stores	4,100	4,200	4,400	-100	-300			
Trans/Warehousing/Utilities	11,200	11,100	11,200	100	0			
Air Transportation	3,400	3,500	3,300	-100	100			
<b>Information</b>	<b>4,800</b>	<b>4,800</b>	<b>4,700</b>	<b>0</b>	<b>100</b>			
Telecommunications	2,700	2,700	2,800	0	-100			
<b>Financial Activities</b>	<b>8,800</b>	<b>8,800</b>	<b>8,400</b>	<b>0</b>	<b>400</b>			
<b>Professional &amp; Business Svcs</b>	<b>18,100</b>	<b>18,500</b>	<b>18,000</b>	<b>-400</b>	<b>100</b>			
<b>Educational &amp; Health Services</b>	<b>17,400</b>	<b>17,400</b>	<b>16,300</b>	<b>0</b>	<b>1,100</b>			
Health Care/Social Assistance	16,200	16,000	14,900	200	1,300			
Ambulatory Health Care	6,700	7,000	6,200	-300	500			
Hospitals	4,800	4,800	4,600	0	200			
<b>Leisure &amp; Hospitality</b>	<b>15,300</b>	<b>16,100</b>	<b>14,900</b>	<b>-800</b>	<b>400</b>			
Accommodation	3,300	3,500	3,200	-200	100			
Food Svcs & Drinking Places	10,400	10,600	10,000	-200	400			
<b>Other Services</b>	<b>6,100</b>	<b>6,100</b>	<b>6,100</b>	<b>0</b>	<b>0</b>			
<b>Government<sup>2</sup></b>	<b>30,600</b>	<b>29,800</b>	<b>30,400</b>	<b>800</b>	<b>200</b>			
Federal Government <sup>3</sup>	9,600	9,700	9,600	-100	0			
State Government	9,900	9,200	9,800	700	100			
Local Government	11,100	10,800	10,900	300	200			
Tribal Government	300	300	200	0	100			

*Notes to Exhibits 2, 4, & 5—<sup>1</sup>Nonfarm excludes self-employed workers, fishermen, domestics, and unpaid family workers as well as agricultural workers.*

*<sup>2</sup>Includes employees of public school systems and the University of Alaska.*

*<sup>3</sup>Excludes uniformed military.*

*Exhibit 2—Prepared in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics.*

*Exhibits 3 & 5—Prepared in part with funding from the Employment Security Division.*

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

challenges continue to surround the production of viscous oil. The volatile market prices of crude oil could also alter the economic equation. Still, such efforts to increase North Slope production are bright spots in Alaska's economic future. If development becomes feasible, oil-related employment will rebound and increased production could bring relief to state budget shortfalls.

### The 2003 salmon harvest summary

Alaska's salmon industry continues to struggle, despite good fishing in most areas in the state. The low prices and diminished market share for Alaska wild-caught salmon resulting from globalization continue to pose a serious challenge. (See *Trends* October 2003.)

Alaska's preliminary 2003 harvest records indicate that the salmon fishery netted 174 million fish, up 32 percent from last year's catch. The richest fishing grounds were in Southeast Alaska, where fishers landed 39 percent of all fish caught in the state.

The statewide harvest could translate into higher fleet earnings mainly because more sockeye (red salmon) were caught than last year. In most fishing areas sockeye prices were up a bit or at least matched last year's level. The Kodiak fleet caught more than twice as many sockeye as last year. Better harvests of sockeye also occurred in Bristol

*(continued on page 18)*



# 3 Nonfarm Wage and Salary Employment

## By place of work

	preliminary revised		Changes from:			preliminary revised		Changes from:		
	9/03	8/03	9/02	8/03	9/02	9/03	8/03	9/02	8/03	9/02
<b>Fairbanks North Star Borough</b>										
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	37,200	37,450	37,000	-250	200					
Goods Producing	4,550	4,700	4,600	-150	-50					
Services Providing	32,650	32,800	32,450	-150	200					
<b>Natural Resources &amp; Mining</b>	950	950	1,050	0	-100					
Mining	950	950	1,050	0	-100					
<b>Construction</b>	3,000	3,100	2,950	-100	50					
<b>Manufacturing</b>	600	650	600	-50	0					
<b>Trade, Transportation, Utilities</b>	7,300	7,450	7,450	-150	-150					
Retail Trade	4,100	4,150	4,150	-50	-50					
General Merchandise Stores	1,000	1,000	1,100	0	-100					
Trans/Warehousing/Utilities	2,650	2,750	2,800	-100	-150					
Air Transportation	850	850	900	0	-50					
<b>Information</b>	650	700	600	-50	50					
<b>Financial Activities</b>	1,450	1,400	1,300	50	150					
<b>Professional &amp; Business Svcs</b>	2,000	2,200	1,900	-200	100					
<b>Educational &amp; Health Services</b>	3,700	3,700	3,550	0	150					
Health Care/Social Assistance	3,550	3,450	3,250	100	300					
<b>Leisure &amp; Hospitality</b>	4,050	4,600	4,050	-550	0					
Accommodation	1,250	1,500	1,250	-250	0					
Food Svcs & Drinking Places	2,450	2,550	2,450	-100	0					
<b>Other Services</b>	2,050	2,100	2,150	-50	-100					
<b>Government<sup>2</sup></b>	11,450	10,650	11,350	800	100					
Federal Government <sup>3</sup>	3,350	3,450	3,350	-100	0					
State Government	5,100	4,650	5,000	450	100					
Local Government	3,000	2,600	3,050	400	-50					
Tribal Government	0	0	0	0	0					
<b>Southeast Region</b>										
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	39,050	41,050	39,350	-2,000	-300					
Goods Producing	5,500	6,550	5,550	-1,050	-50					
Services Providing	33,550	34,500	33,800	-950	-250					
<b>Natural Resources &amp; Mining</b>	850	850	800	0	50					
Logging	550	550	500	0	50					
Mining	300	300	300	0	0					
<b>Construction</b>	1,900	2,000	1,950	-100	-50					
<b>Manufacturing</b>	2,800	3,700	2,750	-900	50					
Wood Products Mfg.	150	150	200	0	-50					
Seafood Processing	2,250	3,150	2,250	-900	0					
<b>Trade, Transportation, Utilities</b>	7,650	8,250	7,750	-600	-100					
Retail Trade	4,700	4,900	4,700	-200	0					
Trans/Warehousing/Utilities	2,500	2,800	2,550	-300	-50					
<b>Information</b>	500	500	500	0	0					
<b>Financial Activities</b>	1,350	1,350	1,300	0	50					
<b>Professional &amp; Business Svcs</b>	1,550	1,600	1,550	-50	0					
<b>Educational &amp; Health Services</b>	3,550	3,500	3,400	50	150					
Health Care/Social Assistance	3,300	3,300	3,200	0	100					
<b>Leisure &amp; Hospitality</b>	4,550	5,000	4,600	-450	-50					
Accommodation	1,650	1,900	1,700	-250	-50					
Food Svcs & Drinking Places	1,800	1,950	1,850	-150	-50					
<b>Other Services</b>	1,050	1,200	1,150	-150	-100					
<b>Government<sup>2</sup></b>	13,350	13,150	13,500	200	-150					
Federal Government <sup>3</sup>	2,000	2,000	2,000	0	0					
State Government	5,700	5,500	5,750	200	-50					
Local Government	5,650	5,600	5,750	50	-100					
Tribal Government	600	600	600	0	0					
<b>Interior Region</b>										
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	44,500	44,900	44,350	-400	150					
Goods Producing	5,050	5,150	5,000	-100	50					
Services Providing	39,500	39,700	39,300	-200	200					
<b>Natural Resources &amp; Mining</b>	1,100	1,100	1,150	0	-50					
Mining	1,050	1,100	1,150	-50	-100					
<b>Construction</b>	3,300	3,400	3,250	-100	50					
<b>Manufacturing</b>	650	700	650	-50	0					
<b>Trade, Transportation, Utilities</b>	8,650	8,950	8,750	-300	-100					
<b>Information</b>	850	900	850	-50	0					
<b>Financial Activities</b>	1,500	1,500	1,400	0	100					
<b>Professional &amp; Business Svcs</b>	2,200	2,350	2,100	-150	100					
<b>Educational &amp; Health Services</b>	3,850	3,850	3,700	0	150					
<b>Leisure &amp; Hospitality</b>	6,000	6,700	6,000	-700	0					
Accommodation	2,050	2,450	2,100	-400	-50					
Food Svcs & Drinking Places	3,550	3,700	3,550	-150	0					
<b>Other Services</b>	2,300	2,350	2,400	-50	-100					
<b>Government<sup>2</sup></b>	14,100	13,200	14,200	900	-100					
Federal Government <sup>3</sup>	3,900	4,000	3,950	-100	-50					
State Government	5,250	4,900	5,250	350	0					
Local Government	4,950	4,250	4,950	700	0					
Tribal Government	250	300	300	-50	-50					
<b>Anchorage/Mat-Su Region</b>										
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	165,950	165,300	161,300	650	4,650					
Goods Producing	16,600	16,800	16,150	-200	450					
Services Providing	149,350	148,450	145,100	900	4,250					
<b>Natural Resources &amp; Mining</b>	2,500	2,550	2,800	-50	-300					
<b>Construction</b>	11,950	12,000	11,150	-50	800					
<b>Manufacturing</b>	2,150	2,250	2,250	-100	-100					
<b>Trade, Transportation, Utilities</b>	37,350	37,350	36,600	0	750					
<b>Information</b>	5,200	5,200	5,250	0	-50					
<b>Financial Activities</b>	9,450	9,450	9,000	0	450					
<b>Professional &amp; Business Svcs</b>	19,200	19,400	18,750	-200	450					
<b>Educational &amp; Health Services</b>	19,500	19,500	18,200	0	1,300					
<b>Leisure &amp; Hospitality</b>	17,100	17,700	16,650	-600	450					
<b>Other Services</b>	6,850	6,950	6,700	-100	150					
<b>Government<sup>2</sup></b>	34,700	33,000	34,000	1,700	700					
Federal Government <sup>3</sup>	9,800	9,900	9,800	-100	0					
State Government	11,000	10,300	10,800	700	200					
Local Government	13,850	12,800	13,400	1,050	450					
Tribal Government	350	400	250	-50	100					
<b>Gulf Coast Region</b>										
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	29,600	32,000	29,850	-2,400	-250					
Goods Producing	6,450	7,850	6,750	-1,400	-300					
Services Providing	23,150	24,150	23,100	-1,000	50					
<b>Natural Resources &amp; Mining</b>	1,250	1,300	1,400	-50	-150					
Oil & Gas	1,150	1,200	1,250	-50	-100					
<b>Construction</b>	1,950	1,950	1,900	0	50					
<b>Manufacturing</b>	3,250	4,600	3,400	-1,350	-150					
Seafood Processing	2,700	3,950	2,750	-1,250	-50					
<b>Trade, Transportation, Utilities</b>	5,900	6,250	5,950	-350	-50					
Retail Trade	3,450	3,550	3,500	-100	-50					
Trans/Warehousing/Utilities	2,100	2,300	2,050	-200	50					
<b>Information</b>	450	450	450	0	0					
<b>Financial Activities</b>	900	900	900	0	0					
<b>Professional &amp; Business Svcs</b>	1,350	1,400	1,450	-50	-100					
<b>Educational &amp; Health Services</b>	1,950	1,950	1,850	0	100					
Health Care/Social Assistance	1,850	1,850	1,750	0	100					
<b>Leisure &amp; Hospitality</b>	3,650	4,350	3,600	-700	50					
Accommodation	1,450	1,750	1,350	-300	100					
Food Svcs & Drinking Places	1,950	2,300	1,900	-350	50					
<b>Other Services</b>	1,400	1,450	1,400	-50	0					
<b>Government<sup>2</sup></b>	7,550	7,350	7,550	200	0					
Federal Government <sup>3</sup>	950	1,000	950	-50	0					
State Government	1,700	1,600	1,700	100	0					
Local Government	4,900	4,750	4,900	150	0					
Tribal Government	400	400	350	0	50					

## 4 Unemployment Rates By region and census area

	preliminary 09/03	revised 08/03	09/02
<b>Not Seasonally Adjusted*</b>			
<b>United States</b>	<b>6.1</b>	<b>6.1</b>	<b>5.7</b>
<b>Alaska Statewide</b>	<b>6.8</b>	<b>6.7</b>	<b>7.1</b>
<b>Anchorage/Mat-Su Region</b>	<b>5.6</b>	<b>5.6</b>	<b>5.8</b>
Municipality of Anchorage	5.2	5.1	5.3
Mat-Su Borough	7.2	7.5	8.2
<b>Gulf Coast Region</b>	<b>9.3</b>	<b>8.4</b>	<b>10.2</b>
Kenai Peninsula Borough	10.5	9.3	10.8
Kodiak Island Borough	5.8	6.7	8.2
Valdez-Cordova	8.6	6.8	10.0
<b>Interior Region</b>	<b>6.2</b>	<b>6.1</b>	<b>6.5</b>
Denali Borough	6.6	3.4	6.7
Fairbanks North Star Borough	5.7	5.6	5.7
Southeast Fairbanks	8.4	8.6	10.8
Yukon-Koyukuk	13.4	13.9	16.1
<b>Northern Region</b>	<b>17.1</b>	<b>17.7</b>	<b>15.4</b>
Nome	14.7	16.7	12.5
North Slope Borough	17.3	16.5	14.3
Northwest Arctic Borough	20.1	20.9	20.9
<b>Southeast Region</b>	<b>6.3</b>	<b>6.1</b>	<b>6.4</b>
Haines Borough	7.8	7.3	7.2
Juneau Borough	5.5	5.3	5.2
Ketchikan Gateway Borough	5.8	5.9	8.3
Prince of Wales-Outer Ketchikan	12.7	11.6	10.4
Sitka Borough	5.2	4.9	5.1
Skagway-Hoonah-Angoon	6.5	6.9	6.4
Wrangell-Petersburg	7.4	6.7	6.7
Yakutat Borough	6.3	9.1	4.4
<b>Southwest Region</b>	<b>13.3</b>	<b>13.3</b>	<b>13.0</b>
Aleutians East Borough	4.0	3.5	3.5
Aleutians West	6.6	6.5	7.3
Bethel	15.1	15.3	14.8
Bristol Bay Borough	9.1	8.6	10.3
Dillingham	10.9	10.1	10.2
Lake & Peninsula Borough	11.9	10.5	14.4
Wade Hampton	25.7	26.5	23.8
<b>Seasonally Adjusted</b>			
United States	6.1	6.1	5.7
Alaska Statewide	7.8	7.9	8.2

### 2002 Benchmark

Comparisons between different time periods are not as meaningful as other time series produced by Research and Analysis. The official definition of unemployment currently in place excludes anyone who has not made an active attempt to find work in the four-week period up to and including the week that includes the 12th of the reference month. Due to the scarcity of employment opportunities in rural Alaska, many individuals do not meet the official definition of unemployed because they have not conducted an active job search. They are considered not in the labor force.

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

(continued from page 16)

Bay, Southeast, Prince William Sound, and Cook Inlet.

Alaska's pink salmon catch was also up 39 percent from last year, but pink salmon prices once again deteriorated. It is still possible that the increase in volume may bring earnings close to last year's. Lower prices for chum salmon more than offset the seven percent harvest increase. Both the king and coho salmon fisheries were slower in 2003 than in 2002. In large part this reflected a reduced effort on the part of Southeast trollers who encountered extremely low prices for king and coho salmon.

While much of the news remained negative, the 2003 salmon season seems to have been an improvement over 2002, largely because of the product mix and volume. The salmon fishery of today is only a fraction of its former value, but it remains an important ingredient in Alaska's economy. Many Alaskans still rely on it as their sole source of income. Its importance is magnified in coastal areas where fishing incomes contribute strongly to local economies and other economic opportunities are often lacking.

## The Permanent Fund dividend check—a special yield

This fall the Alaska Permanent Fund Corporation made over \$657 million available for dividend distribution from earnings of the Alaska Permanent Fund, valued at nearly \$24.2 billion at the end of June 2003. Alaskans received a dividend check of \$1,107.56, the eighth highest in the 21 year history of dividend distributions. (See Exhibit 1.) Usually this cash injection promotes consumer spending in October and local retailers prepare for an annual pre-season Christmas shopping spree. As usual, special sales promotions started to circulate in September. In many years retail employment has increased between September and October and a similar increase is expected this year.

## 5 Nonfarm Wage/Salary Employment By place of work

Northern Region	preliminary revised		Changes from:		
	9/03	8/03	9/02	8/03	9/02
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	15,950	15,650	16,300	300	-350
Goods Producing	4,850	5,000	5,450	-150	-600
Services Providing	11,100	10,650	10,850	450	250
Oil & Gas Extraction	3,950	4,050	4,300	-100	-350
<b>Government<sup>2</sup></b>	5,550	4,950	5,400	600	150
Federal Government <sup>3</sup>	200	200	150	0	50
State Government	350	350	350	0	0
Local Government	5,000	4,400	4,900	600	100
Tribal Government	600	650	600	-50	0
<b>Southwest Region</b>					
<b>Total Nonfarm Wage &amp; Salary<sup>1</sup></b>	19,500	20,500	19,450	-1,000	50
Goods Producing	4,600	5,850	4,600	-1,250	0
Services Providing	14,900	14,700	14,850	200	50
Seafood Processing	4,350	5,550	4,400	-1,200	-50
<b>Government<sup>2</sup></b>	7,300	7,100	7,450	200	-150
Federal Government <sup>3</sup>	450	400	400	50	50
State Government	500	550	550	-50	-50
Local Government	6,350	6,100	6,550	250	-200
Tribal Government	1,300	1,450	1,500	-150	-200

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

# Employer Resources

The Department of Labor and Workforce Development has a new Division of Business Partnerships (DBP), which has implemented higher standards of accountability, standardization, and streamlining in the processes of awarding and managing grants under the Workforce Investment Act. DBP provides the business community with a statewide venue for action on workforce development investments related to economic development. Click on "Business Partnerships" from the "Links for Employers" page at: <http://www.labor.state.ak.us/employer/employer.htm>.

