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**THE ECONOMIC IMPACT OF THE  
SHORESIDE PROCESSING INDUSTRY  
UPON ALASKA DURING 1993**

**prepared for the**

**Pacific Seafood Processors Association**

**by**

**Pacific Associates  
in conjunction with  
Capital Associates**

**April, 1995**

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## Executive Summary

The purpose of this report is to identify the economic impact of the shorewide seafood industry during 1993 upon Alaska, its communities and regions. The report is organized into several chapters that address purchases of fish and the fish (in pounds and ex-vessel value) on a statewide and regional basis, purchases of goods and services within regions, the generation of revenues to the state, local municipalities and boroughs through taxation, the economic impact of employment, and a review of the regional economic impacts of the shorewide industry.

The seafood industry is Alaska's largest private sector employer; more than 35,000 people are employed in the harvesting and processing sectors of the industry. In some coastal regions of Alaska, the seafood industry generates nearly all economic activity. The shorewide processing sector of the industry is composed of over 530 facilities. Although the bulk of the industry consists of approximately 100 plants, the huge impact of the industry in Alaska is reflected by the large number of small processing facilities; many families throughout Alaska derive a substantial portion of their livelihood from small scale, shorewide seafood processing.

This report identifies the economic impact of the direct and indirect expenditures by the shorewide seafood processing industry upon various regions within Alaska. The indirect expenditures constitute a multiplier. Since there is no commonly accepted multiplier for the seafood industry, we have used a factor of 2.5 to determine the total direct and indirect expenditures (for every \$1 spent in direct expenditures, an additional \$1.50 is generated). This seems reasonable given the conservative estimates of direct expenditures and the very substantial impact the industry has on coastal Alaska.<sup>1</sup>

The expenditures identified in this report were generated from a number of sources, including detailed, confidential information from members of the Pacific Seafood Processors Association

(PSPA). The PSPA members provided data concerning an array of expenditures they made on a plant by plant location in Alaska. Municipal and borough governments, and various state and federal agencies, also provided information.

The information received from state and federal agencies on harvests and landings in Alaska conflicted at times. This was due to confidentially provisions that restrict the type of information available to the general public. In some instances, the data generated by this report (with regard to landings) will vary from the total harvest levels of a region. In part this is due to the data, and in part it is due to the transfer of fish and shellfish outside of Alaska for processing.

The regions used in this report consist of the following:

**Alaska Peninsula:** Oregon and the Aleutians East Borough (minus Adak).

**Delicat Bay:** The Delicat Bay region.

**Bering Sea/Arctic Islands:** Unalaska/ Dutch Harbor, Adak, villages in the Aleutians west of Unalaska, and the Pribilof Islands.

**Kenai/Cook Inlet/Barataria:** The Kenai Peninsula, including Barataria, and Anchorage.

**Kodiak:** All communities in the Kodiak Island Borough.

**Prince William Sound/Concise/Venice, and Valdez.**

**Southeast:** All communities south of, and including, Valdez.

In 1993, the shorewide seafood industry generated 2.7 billion pounds of fish and shellfish in Alaska communities—an average of 7.6 million pounds per day. Each day's production by Alaska's shorewide processing sector produced enough food to feed 672,000 people.

**Figure 1**  
Distribution of First & Subsequent Major Specimen Category Purchased by Shrimack Processing Industry in Alaska during 1982  
(in percent of total volume)

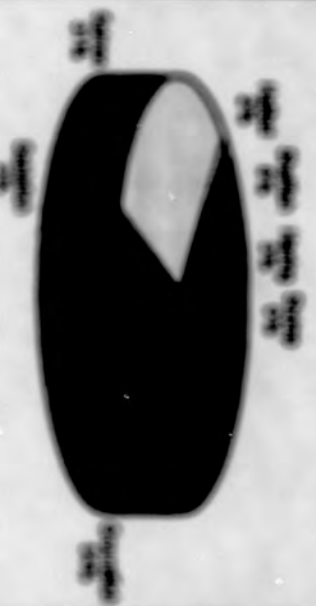


**Figure 2**  
Distribution of First & Subsequent Major Specimen Category Purchased by the Shrimack Processing Industry in Alaska during 1982  
(in percent of total volume)

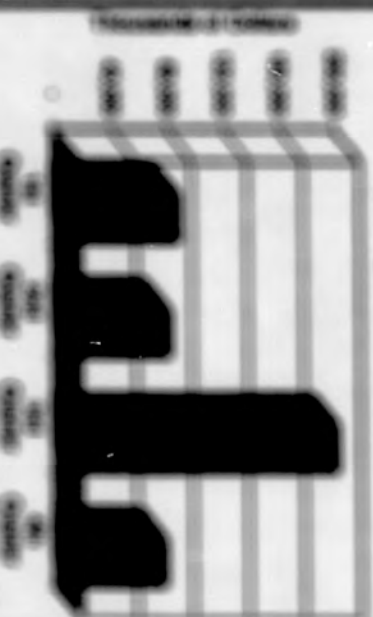


**Figure 3**  
Distribution of First & Subsequent Purchased by Shrimack Processing Industry in Alaska during 1982 by Species  
(in percent of total volume)



1982 was \$250 million; an additional \$91 million was spent on employee fringe benefits and other related costs, bringing the total expended for shrimack processing employees to \$341 million. (See Figure 4.)

**Figure 4**  
Distribution of Shrimack Processing Employees Major & Benefits during 1982  
(all figures converted)



The average value of the species harvested was \$205 million. On a quarterly basis, 55% of the value occurred during the first quarter, 40% in the second quarter, 50% in the third quarter, and 4% in the fourth quarter.

The Bering Sea/Vikotinsk engine accounted for \$100 million of total fish and shellfish purchases, followed by Southeast Alaska with \$180 million. Bristol Bay with \$170 million, Kodiak with \$100 million, the Alaska Peninsula with \$110 million, Kuskokwim with \$80 million, and Prince William Sound with \$100 million. (See Figure 5.)

An average of 11,500 individuals were directly employed by the shrimack sector in Alaska during 1982, at peak employment. (2,500 individuals were employed. The total direct payroll during

The shrimack industry's big economic engine for every community and region across coastal Alaska. The purchase of fish and shellfish by shrimack processors are to provide the entire economic backbone that affects all ways of life in each community. In preparation for the fishing season, shrimack employs crew members and provides food and supplies. Following the delivery of the harvest and production, the processor and owner depend on the market. Each individual employed can see with little exception in the community (see

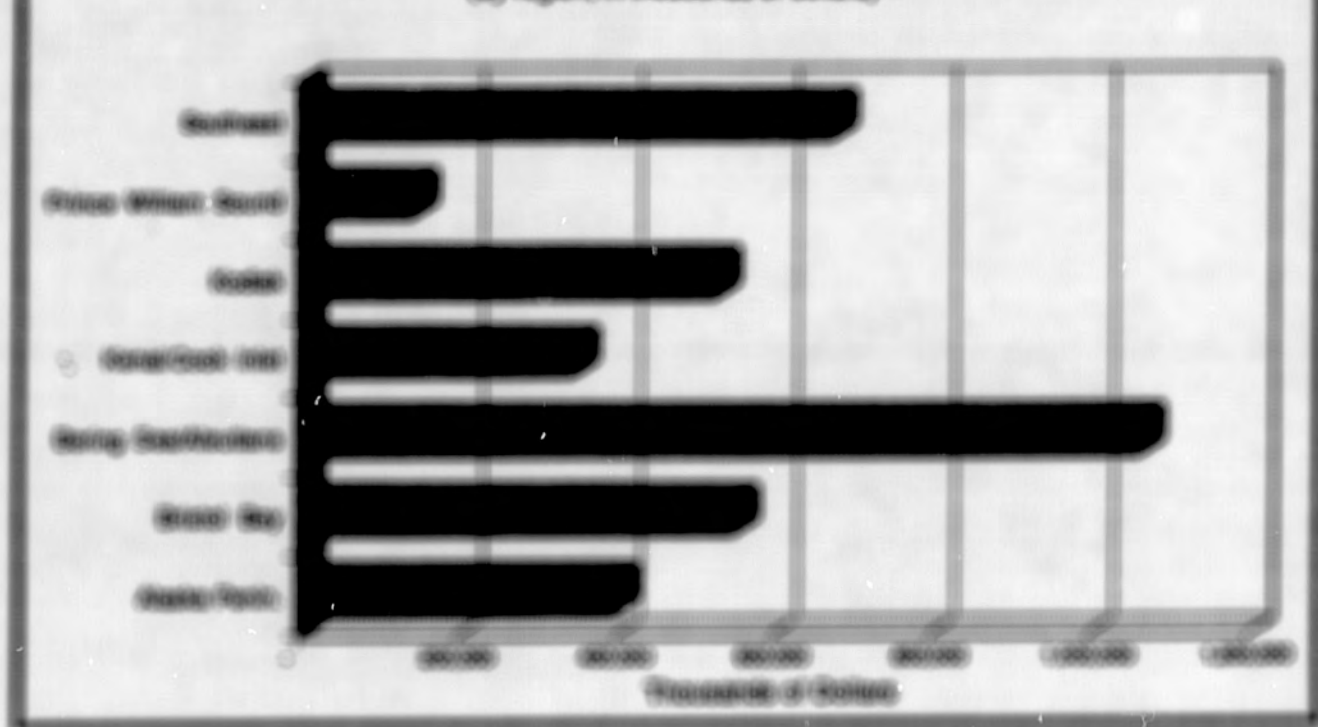


## Executive Summary

The total economic impact of the industry upon Alaska communities during 1993 was \$3.8 billion. On a regional basis, the total economic impact consisted of the following<sup>1</sup>:

|                            |                         |
|----------------------------|-------------------------|
| Alaska Residents           | \$ 355,769,326          |
| Travel Day                 | \$ 348,255,337          |
| Manufacturing Day          | \$ 1,139,856,116        |
| Food/Food Retail/Retailing | \$ 265,000,336          |
| Retail                     | \$ 225,360,780          |
| Travel/Wholesale Travel    | \$ 180,655,400          |
| Services                   | \$ 671,722,650          |
| <b>Total</b>               | <b>\$ 3,807,620,945</b> |

Figure 3  
Economic Impact of the Petroleum Processing Industry in Alaska during 1993  
(By Region, in Thousands of Dollars)



<sup>1</sup> By 1993, the total economic impact of the petroleum processing industry in Alaska was \$3.8 billion. This figure is based on the data provided by the Alaska Department of Commerce, Community and Economic Development. The data is based on the 1993 Survey of the Economic Impact of the Petroleum Processing Industry in Alaska. The data is based on the 1993 Survey of the Economic Impact of the Petroleum Processing Industry in Alaska. The data is based on the 1993 Survey of the Economic Impact of the Petroleum Processing Industry in Alaska.

<sup>2</sup> The regional economic impact of the petroleum processing industry in Alaska during 1993 was \$3.8 billion.

# Chapter 1

## Introduction

### 1.1 Purpose/Organization of Document

The seafood industry is Alaska's largest private sector employer. In excess of 25,000 people are employed in the harvesting and processing sectors of the industry. In many coastal regions of Alaska, the seafood industry generates nearly all economic activity. The revenues resulting from the industry, directly and indirectly, serve as the economic backbone for a large part of Alaska.

The domestic seafood processing sector is composed of over 250 facilities. Although the bulk of the industry consists of approximately 100 plants, the large impact of the industry in Alaska is reflected by the large number of small processing facilities: many facilities throughout Alaska derive a substantial portion of their livelihood from small scale, domestic seafood processing.

The purpose of this report is to quantify the economic and social impact of the domestic seafood processing industry upon Alaska. It examines sales and exports. The report is organized into several chapters: the address production of fish and shellfish (in pounds and in value added), on a state-wide and regional basis; production of goods and services within regions; the payment of taxes to the state, local municipalities and boroughs; the economic impact of employment; and a profile of the regional economic impacts of the domestic industry. Tables and graphs are widely dispersed to provide detailed information.

### 1.2 Confidentiality

The data used in this report came from private and business sources. Carefully to protect the confidentiality of all the members of the Pacific Seafood Association, questions regarding the detailed information described below:

- On a quarterly basis, the number of full-time equivalent and part-time employees in Alaska domestic facilities (and gross pay) for vessels based in Alaska

the number flown to and from Alaska, and the cost of air fare.

- On a quarterly basis, the amount expenditures for consumption, services, electricity, water, sewer, phone, trash removal, and "other" items by each company for each of their domestic facilities.

- The pounds and value of fish and shell fish purchased on a specific by specific basis during the year. This information was provided by each company for each of its plant locations in Alaska.

The response from FISH, members was excellent. Information was provided on a plant by plant basis, which made it possible to localize the data to specific communities and regions.

Domestic and foreign governments also provided detailed social and economic information regarding the status of local government revenues by category (water, sewer, etc.) and the impact of the industry upon that community.

### 1.3 Comments on Data and Confidentiality

The expenditures detailed in this report were generated from a number of sources. In some cases, where conflicting information was received, caution had to be made concerning which data set to use. In some instances, the author's knowledge of the industry and discussions with other industry sources resulted in the determination.

The information from the FISH respondents was collected by region and quarter on a basis of gross value. The information was compared with other data provided by state, local, and federal agencies. In some cases, such as the percentage of goods and services (including fish waste) within gross economic activity in Alaska, the level of activity derived in these studies, the data generated from the FISH response was used as a base to compare the total expenditures throughout the industry.

### 1.1.3 Employment

Employment information was received from the responding companies, and detailed the number of full time equivalent employees, the gross salary, the number of employees flow to the work site, and the total cost of salaries. All of this information was provided on a month by month, and work site by work site, basis.

Total seafood employment and accompanying wage information was provided by the Alaska Department of Labor through a special data run. The information provided by DOE may vary from the information contained in their quarterly and annual publications on employment in Alaska. This is because those reports do not specifically break out seafood processing employment, but include it as part of a larger employment grouping. Additionally, confidentiality restrictions make it difficult for the DOE to publish some employment information on a community by community basis. As a result, the employment numbers generated by the special data run occasionally result in greater employment in a region or community than shown on the DOE quarterly and annual reports.

To calculate the total salary expense incurred by the domestic seafood processing sector, the responses from FISHA provided sufficient information to determine the average percentage of employees flown to and from a work site by month and region during the year as well as the average cost of air fare per employee flown. These percentages were applied to total seafood processing employment in the region during the quarter to extrapolate the total number of employees transported by air and the attendant cost. The variable in this calculation is the assumption that not all responding companies experience the same ratio as the FISHA responding companies.

### 1.1.4 Harvested Species

Data on harvest and landing were generated by the reports received from the responding FISHA members, the International Pacific Halibut Commission, and special data runs by the Commercial Fisheries Survey Commission (CFSC), the National Marine Fisheries Service (NMFS). The data from each source varied. The FISHA data was reported by plant location by species. The CFSC data was reported by region by species and by vessel type.

but occasionally lumped data from several regions into one. The NMFS data showed total shorewide groundfish landings by port in Alaska.

The information from the different agencies on harvest and landings in Alaska conflated at times. This was due to confidentiality provisions that restrict the type of information available to the general public. For example, data on the amount of a species that was landed in a particular community or region could not be divulged unless there were at least four different facilities that purchased that species and all four facilities had different corporate owners.

This made it difficult to accurately determine landings by species by region. In some cases there are sufficient facilities and owners—and a large enough harvest—to meet the confidentiality requirement; often, however, the information was combined to mask the facilities and the regions in which the landings occurred. This occasionally resulted in the necessity to estimate the level of landings.

In some instances, the data generated by this report (with regard to landings) will vary from the total harvest levels of a species. In part this is due to the data, but it is also due to the transfer of fish and shellfish outside of Alaska for processing. Additionally, harvest and processing activities by catcher-processors (vessels that have the capacity to both harvest and process their catch) are not included in this report. Since their activities account for a large portion of the crab and groundfish harvests, the total landings of those species will be lower than the overall harvest levels.

### 1.1.5 Regions

The regions used in this report consist of the following:

**Alaska Peninsula:** Chignik and the Kik-  
tawo Cove Borough (minus Adman).

**Bristol Bay:** The Bristol Bay region.

**Eastern Sea/Alutians:** Unalaska/Fish  
Harbor, Adman, villages in the Kik-  
tawo west of Unalaska and the Pribilof  
Islands.

**Kanai/Cook Inlet:** The Kani Peninsula,  
including Barrow and Archangel.

**Kodiak:** All communities in the Kodiak Island Borough.

**Prince William Sound:** Cordova, Whittier, and Valdez.

**Southeast:** All communities south of, and including, Yakutat.

These regions vary from those used by the Alaska Department of Labor to identify unemployment in Alaska, those used by the Alaska Department of Fish & Game and the Commercial Fisheries Entry Commission to identify commercial fishery regions, and those used by the National Marine Fisheries Service to identify groundfish harvest regions. In fact, most of the regions used by the above agencies do not match.

### 1.2.6 The Use of Multipliers

There is no commonly accepted multiplier for the seafood industry. A 1987 report by Matthew Berman and Teresa Phil for the Institute of Social and Economic Research, University of Alaska, Anchorage, entitled *The Commercial Fishing Industry in Alaska's Economy*, is perhaps the most extensive work that has been done to analyze the downstream impact of direct expenditures in the industry. Berman and Phil identified a nine-wide multiplier of 1.73 (for every \$1 spent, an additional 73¢ is generated) for the seafood industry. They cautioned, however, that this could easily be a conservative estimate based upon several variables; additionally, they reasoned that changes in the industry during the near future could generate an increase in the multiplier.

For the purpose of this report, we have used a factor of 2.5 to determine total direct and indirect expenditures (for every \$1 spent in direct expenditures, an additional \$1.50 is generated). This seems appropriate for the following reasons:

- The estimates of direct expenditures in this report are conservative;
- There was substantially greater shorewide activity resulting from the fishing industry in Alaska in 1993 than there was in 1991; and,
- In many regions and communities, the fishing industry is the only source of primary economic activity; more, if not all, of the

other economic activity in the region results from the shorewide seafood industry.<sup>1</sup>

### 1.3 Overview

In 1993, the shorewide seafood industry processed 2.7 billion pounds of fish and shellfish in Alaska communities, or an average of 7.4 million pounds each day of the year. Assuming an across the board product recovery rate of 50% and an average serving size of one-quarter pound per person per meal, each day's production by Alaska's shorewide processing sector produces enough food to feed 925,000 people.

In terms of employment during 1993, an average of 10,541 individuals were directly employed by the shorewide sector in Alaska; during peak employment in the third quarter, 19,356 individuals were employed by shorewide seafood processing companies. The total payroll direct payroll during 1993 was \$267 million; an additional \$91 million was spent on employee fringe benefits and other related costs, bringing the total expended for shorewide processing employees to \$378 million.

Over \$41 million in goods and services were purchased directly by the shorewide processing sector in Alaska's communities from local vendors and municipalities. This includes \$43 million for consumables, \$21 million for services, and \$10 million for electricity, \$2 million water, and \$5.2 million for other services. In many locations, the expenditures by the local processor account for the vast majority of income for the local vendor or utility, thereby making it possible for other members of the community to benefit from access to those services.

Purchasers of fish and shellfish in by the shorewide processing industry in 1993 generated \$71 million in state and local taxes. Of this amount, \$29 million was paid directly to local governments through local taxes or from the state through new fish use revenue sharing; one-half of the state fish tax (\$13.2 million) and all of the local new fish tax (\$18.7 million).

In some communities and boroughs, taxes paid by the shorewide processing facility for fish purchased and processed in the community account for nearly all of the income generated by the community. In the Aleutians East Borough, for ex-

ample, revenues from fish taxes account for 83% of the total revenue received by the borough.

The total economic impact of the industry upon Alaska communities during 1993 was \$3.8 billion. On a regional basis, the total economic impact consists of the following:

|                            |                         |
|----------------------------|-------------------------|
| Alaska Peninsula           | \$ 393,764,326          |
| Bristol Bay                | \$ 548,933,037          |
| Aleutians/Bering Sea       | \$ 1,059,858,106        |
| Kenai/Cook Inlet/Anchorage | \$ 343,655,206          |
| Kodiak                     | \$ 523,265,980          |
| Prince William Sound       | \$ 140,455,600          |
| Southeast                  | \$ 671,920,650          |
| <u>Total</u>               | <u>\$ 3,809,329,401</u> |

<sup>1</sup> In the Aleutians East Borough during 1993, the domestic seafood industry accounted for 87% of total revenues; in Kodiak, over 30% of the available employment on a year-round basis is seafood processing; in Barrow of communities from Polina to Tiglak, the only source of economic activity is the domestic seafood industry.

## Chapter 2

# Economic Impacts Statewide

### 2.1 Introduction

Commencing with this chapter and continuing through the remainder of this report, are a series of five tables at the start of each chapter that detail the expenditures by category of shoreside processing industry purchases during 1993. In each chapter the tables are specific to the region addressed in that chapter. The tables consist of 5 pages: the first page provides annual data on expenditures, while the remaining four pages provide quarterly data. The categories consist of employment, purchases of goods and services, taxes, fish and shellfish purchases, and donations. Overviews for purchases of fish and shellfish, purchases of goods and services, and employment impacts are contained in this chapter.

Tables 2-1 through 2-5 display the statewide annual and quarterly economic impact of the shoreside seafood processing industry during 1993. The total economic impact upon Alaska was \$3.8 billion, of which \$1.5 billion consisted of direct expenditures. Of the direct expenditures, \$1 billion (65%) was spent on purchases of fish and shellfish, \$378 million (25%) was spent on labor, \$82 million (5%) was spent on purchases of goods and services, and \$71 million (5%) was spent on tax related items. Figure 2-1 shows the expen-

ditures by category as a percent of the total, while Figure 2-2 shows the distribution by quarter.

**Figure 2-2**  
Percent Distribution of Expenditures by  
Shoreside Processing Industry in Alaska  
during 1993



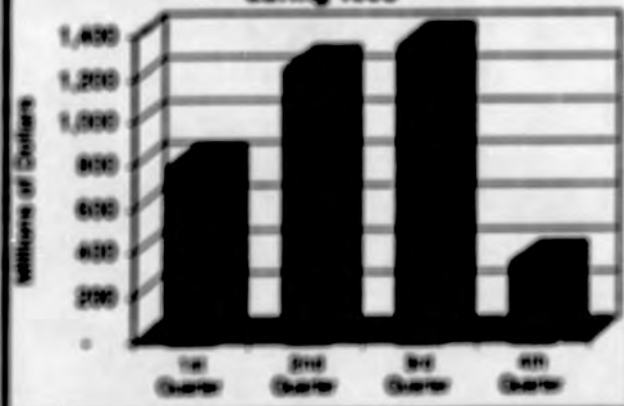
On an annual basis, shoreside seafood processing companies spent \$1.41 for every pound of fish and shellfish processed during 1993.

### 2.2 Purchases of Fish and Shellfish

During 1993, the purchases of all species of fish and shellfish by Alaska's shorebased seafood processing companies amounted to 2.7 billion pounds. Of this amount, 214 million pounds were shellfish, 1.5 billion pounds were groundfish, 834 million pounds were salmon, 86 million pounds were herring, 42 million pounds were halibut, 42 million pounds were sablefish, and 3 million pounds were other species. Table 2-6 reviews purchases by individual species and quarter. (See Chapters 3 through 9 for a review of purchases by region.)

On a regional basis statewide, the Unalaska/Akutan region dominated with 1.1 billion pounds of total purchases (44%), followed by Kodiak with 422 million pounds (17%), Southeast with 331 million pounds (13%), Bristol Bay with 287 million pounds (11%), the Alaska Peninsula with 215 million pounds (9%), Kenai/Cook Inlet with 73 million pounds (3%), and Prince William Sound with 49 mil-

**Figure 2-1**  
Distribution of Direct Expenditures by  
Shoreside Processing Industry in Alaska  
during 1993



lion pounds (1%). Other Alaska regions accounted for 24 million pounds (1%). (See Table 2-7.)

On a percentage of harvest by quarter basis, 77% of the first quarter harvest consisted of groundfish purchases and 23% consisted of crab purchases; the second quarter was more evenly distributed, with 46% of total purchases consisting of salmon, 24% groundfish, and 14% herring; the third quarter consisted of 43% salmon purchases and 55% groundfish purchases; and groundfish and crab dominated in the fourth quarter with 85% and 15% of the total respectively. (See Table 2-8.)

The ex-vessel value of the species harvested was \$993 million. Table 2-9 shows the ex-vessel value by species and quarter, while Table 2-10 reviews the ex-vessel value by species group. On a quarterly basis, 23% of the value occurred during the first quarter, 40% in the second quarter, 32% in the third quarter, and 6% in the fourth quarter. Overall, salmon represented 43% of the total value, followed by, 25% for crab, 14% for groundfish, 11% for sablefish, 5% for halibut, 2% for herring, and less than one percent for other species.

On a regional basis, the Aleutians/Bering Sea region accounted for \$282 million of total fish and shellfish purchases (28% of the statewide total), followed by Southeast Alaska with \$184 million (19%), Bristol Bay with \$172 million (17%), Kodiak with \$125 million (13%), the Alaska Peninsula with \$101 million (10%), Kenai/Cook Inlet with \$82 million (8%), and Prince William Sound with \$33 million (3%). Other Alaska regions accounted for \$10 million (1%). (See Table 2-11.)

Figures 2-3 and 2-4 display the distribution of fish and shellfish purchased by the shoreside processing industry as a percent of total pounds and total value, by major species group, respectively. Figures 2-5 and 2-6 show the distribution of fish and shellfish purchased by the shoreside processing industry as a percent of total pounds and total value by region, respectively.

### 2.2.1 Salmon

The total salmon harvest statewide during 1993 was 845 million pounds, valued at \$428 million. The following is a review of each species:

**Chinook Salmon:** Total statewide purchases of chinook salmon were 11.3 million pounds. The

**Figure 2-3**  
Distribution of Fish & Shellfish by Major Species Category Purchased by Shoreside Processing Industry in Alaska during 1993  
(In percent of total pounds)

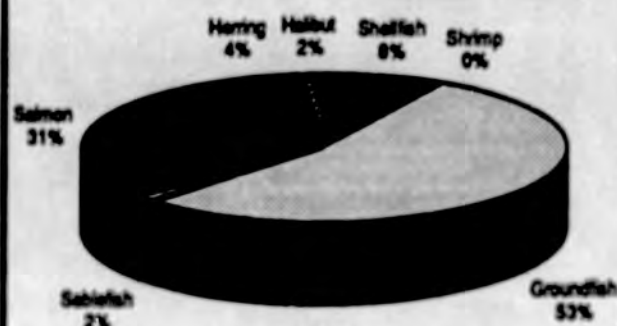


**Figure 2-4**  
Distribution of Fish & Shellfish by Major Species Category Purchased by Shoreside Processing Industry in Alaska during 1993  
(In percent of total value)

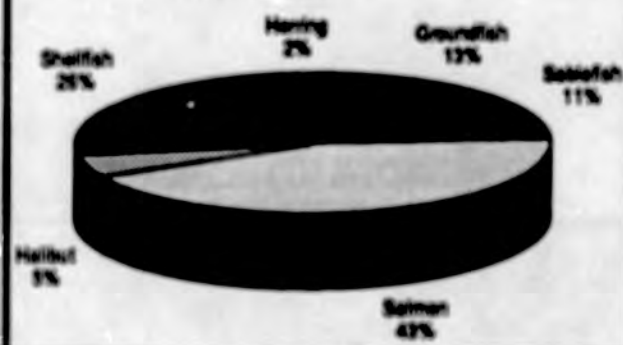


**Figure 2-5**  
Distribution of Fish & Shellfish Purchased by Shoreside Processing Industry in Alaska during 1993 by Region  
(In percent of total pounds)

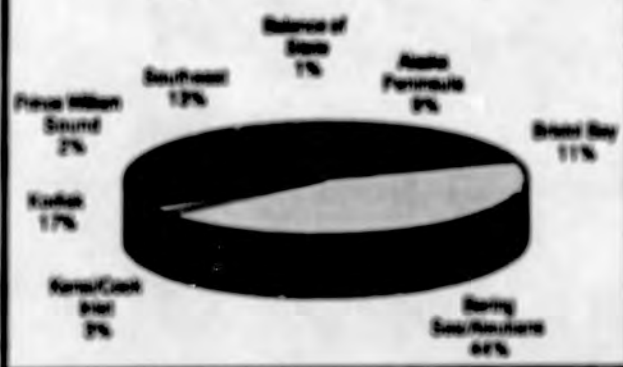
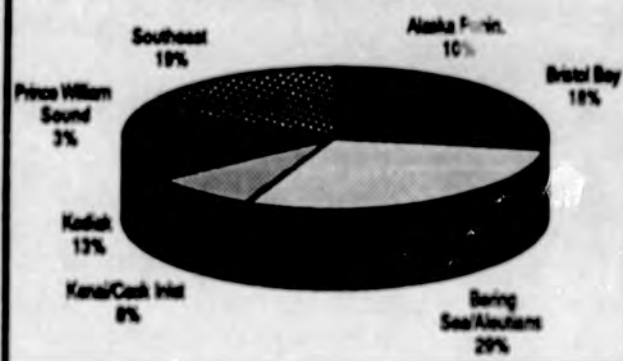


**Figure 2-6**  
Distribution of Fish & Shellfish Purchased by  
Shoreside Processing Industry  
in Alaska during 1993 by Region  
(in percent of total value)



total ex-vessel value was \$17.9 million. Landings of king salmon were highest in Southeast Alaska where 4.7 million pounds of chinook were purchased. (See Table 2-12.)

**Sockeye Salmon:** Sockeye salmon purchases totaled 378 million pounds during 1993. The total ex-vessel value was \$288 million. Fifty-nine percent of statewide sockeye landings occurred in Bristol Bay. (See Table 2-13.)

**Coho Salmon:** Thirty-eight million pounds of coho salmon were purchased by the shoreside processors during 1993. The total value was \$32.5 million. The largest landings occurred in Southeast Alaska where 23 million pounds were purchased. (See Table 2-14.)

**Pink Salmon:** Pink salmon constituted the largest harvest of all salmon species during 1993, with 334 million pounds purchased. Shoreside processors in Southeast Alaska and Kodiak bought the bulk of pink salmon with purchases of 169 million pounds and 106 million pounds respectively. The total ex-vessel value was \$54 million pounds. (See Table 2-15.)

**Chum Salmon:** Eighty-three million pounds of chum salmon were purchased by shoreside processors during 1993. The total ex-vessel value was \$36.5 million. The largest chum purchases were in Southeast Alaska where 26 million pounds were purchased. (See Table 2-16.)

Figures 2-7 and 2-8 display the distribution of salmon purchased by species as a percent of total pounds and total value respectively.

Note that there were no salmon purchases applied to the Unalaska/Akutan/Aleutians West region. During 1993, there were no salmon fisheries in those regions; some limited processing did occur in Unalaska and Akutan, but the poundage figures and value were unavailable to the authors.

**Figure 2-7**  
Distribution of Salmon by Major Species  
Category Purchased by Shoreside Processing  
Industry in Alaska during 1993  
(in percent of total pounds)

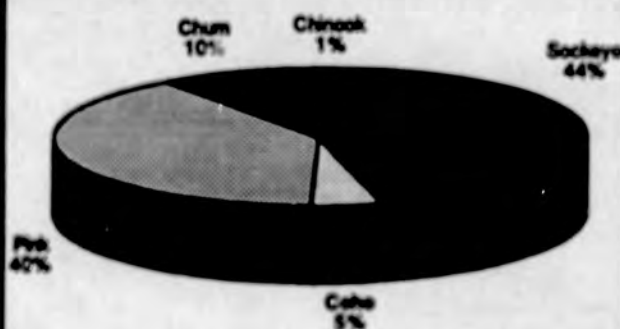
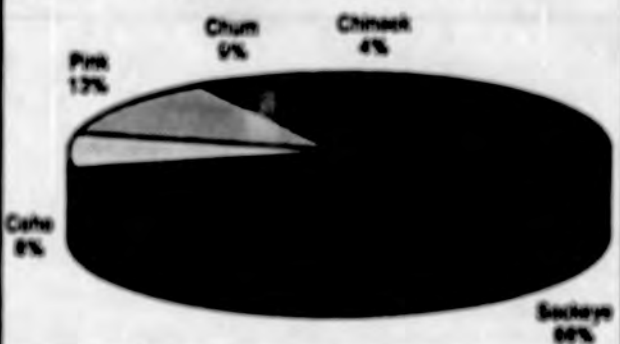


**Figure 2-8**  
Distribution of Salmon by Major Species  
Category Purchased by Shoreside Processing  
Industry in Alaska during 1993  
(in percent of total value)



### 2.2.2 Halibut

Total landings and purchases of halibut in Alaska during 1993 were 42 million pounds. The total ex-vessel value was \$51.6 million. Southeast led the state in landings (15.8 million pounds), followed by Kenai/Cook Inlet (14 million pounds), and Kodiak (13 million pounds). (See Table 2-17.)

Halibut harvests occur throughout most of Alaska, although the bulk of the harvest is in the

Gulf of Alaska. Information on halibut landing (purchases) by region were obtained from the International Pacific Halibut Commission (IPHC). The total landings are less than the total harvest since several million pounds of harvest were sold by the vessels in either British Columbia or Washington State.

### 2.2.3 Herring

The total amount of herring landed and purchased statewide during 1993 was 99 million pounds, valued at \$20 million. There are three types of herring fisheries: the spawn-on-kelp fishery, the food & bait fishery, and the sac roe fishery.

**Spawn-on Kelp:** The spawn-on-kelp fishery consists of a wild spawn-on-kelp fishery and a spawn-on-kelp pound fishery.

The wild fishery occurs in Prince William Sound and Bristol Bay, and consists of harvesting kelp that the herring have laid their spawn on naturally in the wild. This is a small fishery with low harvest levels compared to the pound fisheries.

The pound fisheries traditionally occur in Prince William Sound, although limited pound fisheries are developing in Southeast. The Prince William Sound fishery was closed during 1993, and the Southeast fishery is still in its infancy. (See Table 2-18.)

**Food & Bait:** The food & bait fishery harvested 8.9 million pounds. The total ex-vessel value of the fishery was \$1.2 million. The Dutch Harbor food and bait fishery accounted for the bulk of the harvest (4.5 million pounds). (See Table 2-19.)

**Sac Roe:** The total sac roe herring harvest was 90 million pounds. As with halibut, the total purchases are less than the total harvest since significant quantities of sac roe herring harvested in Southeast Alaska were transported to British Columbia by fishermen for sale and processing.

The total ex-vessel value of the purchases was \$18 million. The largest purchases occurred in Bristol Bay (36 million pounds) and Southeast (21 million pounds). (See Table 2-20.)

### 2.2.4 Sablefish

Total purchases of sablefish by the shoreside processing industry during 1993 were 42 million pounds. The total value was \$104 million.

Sablefish harvests occur primarily in the Gulf of Alaska, although limited fisheries also occur in

the Bering Sea and Aleutian Islands. Purchases were highest in Southeast with 17.8 million pounds (\$44.5 million in value), followed by Kenai/Cook Inlet (11.8 million pounds valued at \$29 million), and Kodiak (6.8 million pounds valued at \$5.3 million). (See Table 2-21.)

### 2.2.5 Groundfish

The total groundfish purchases statewide during 1993 by the shoreside processing industry were nearly 1.5 billion pounds, valued at \$134 million. Groundfish species include pollock, Pacific cod, flounder (including sole), rockfish, and miscellaneous groundfish. Groundfish are typically high volume, low value species. The average price was \$0.09 per pound. Harvest and production of groundfish is essentially limited to Kodiak, the Alaska Peninsula, and the Bering Sea/Aleutian Islands.

Catcher/processor vessels that are able to both harvest and process the catch on board the vessel and large ocean-going mothership factory vessels that continuously operate in an at-sea mode are significant components of the groundfish fisheries in the Bering Sea and, to a lesser extent, the Gulf of Alaska. The purchase figures identified in this report reflect only those purchases made by shoreside processors—they do not include production by catcher/processors or at-sea motherships.

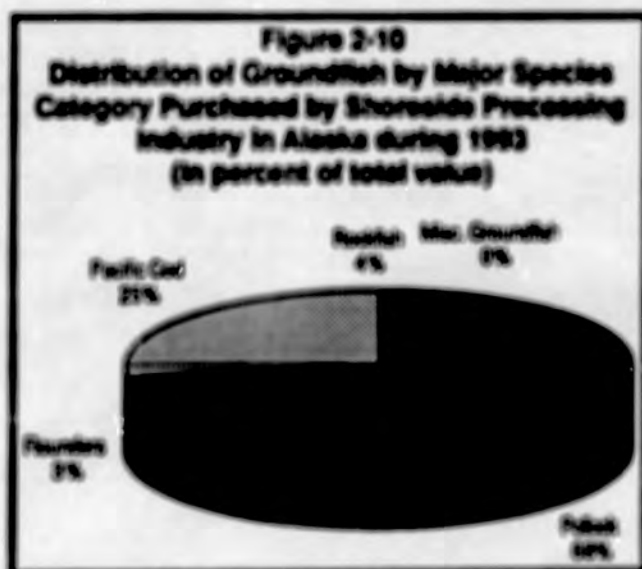
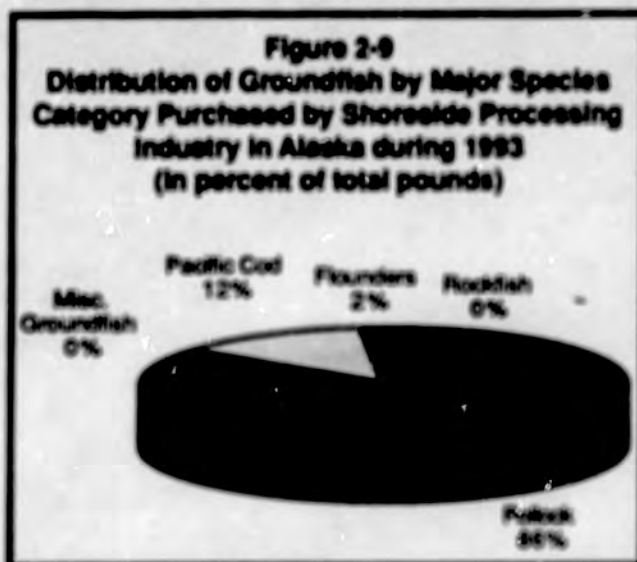
Statewide purchases of pollock by the shoreside processing industry during 1993 were 1.27 billion pounds. The bulk of the purchases were made in the Bering Sea/Aleutian Islands area, with the remainder in Kodiak and the Alaska Peninsula. In the Bering Sea/Aleutians, 1 billion pounds were purchased, while 183 million pounds were purchased in Kodiak and 60 million pounds in the Alaska Peninsula. The total value of the pollock purchases were \$92.6 million. (See Table 2-22.)

Pacific cod purchases during 1993 were 184 million pounds. (See Table 2-23.) The total value was \$33 million. Seventy-five million pounds were purchased in the Bering Sea/Aleutians, 54 million pounds in Kodiak, and 45 million pounds in the Alaska Peninsula.

Purchases of flounders amounted to 23 million pounds during 1993. These were essentially limited to Kodiak where 21 million was purchased. The total value of the fishery was \$3.4 million. (See Table 2-24.)

Rockfish purchases during 1993 were 3.9 million pounds. The total value was \$4.9 million. Southeast processors purchased 1.8 million pounds (valued at \$2.3 million) and Kodiak processors purchased 1.2 million pounds (valued at \$1.5 million). (See Table 2-25.)

Figures 2-9 and 2-10 display the distribution of groundfish purchased by species as a percent of total pounds and total value respectively.



### 2.2.6 Shellfish

The total landings and purchases of shellfish statewide during 1993 by the shoreline processing industry was 214 million pounds, valued at \$252 million.

The shellfish categories include red king crab, brown and blue king crab as a combined category,

bairdi Tanner crab, opilio Tanner crab, and Dungeness crab. Inconsequential harvests of Korean hair crab also occur, and are included in the miscellaneous shellfish species category.

Catcher/processor vessels that are able to both harvest and process the catch on board the vessel are significant components of the crab fisheries in the Bering Sea; they are insignificant in other crab fisheries in other regions of Alaska. As a result, the purchase figures represented by red, blue, and brown king crab, and by bairdi and opilio Tanner crab in the Bering Sea are less than the total harvest in that region.

The red king crab harvest was limited to the Bering Sea during 1993. Purchases of red king crab, however, occurred in the Alaska Peninsula and Kodiak regions as well as the Bering Sea/Aleutians region. A total of 9.5 million pounds were purchased by the shoreline processors during 1993. (See Table 2-27.) The ex-vessel value was \$37.2 million.

Brown king crab harvests were limited to the Bering Sea and Southeast Alaska, while blue king crab harvests are limited to the Bering Sea. During 1993, the total statewide purchases by the shoreline processors of brown and blue king crab were 5.4 million pounds. (See Table 2-28.) The ex-vessel value was \$12.6 million.

The bairdi Tanner crab harvests were also limited to the Bering Sea and Southeast Alaska during 1993. The total statewide purchases by shoreline processors were 39.4 pounds. (See Table 2-29.) The ex-vessel value was \$72.4 million.

Opilio Tanner crab are harvested exclusively in the Bering Sea. The opilio fishery is the largest in both volume and in value, generating 149.6 million pounds in purchases at an ex-vessel value of \$113 million. (See Table 2-30.)

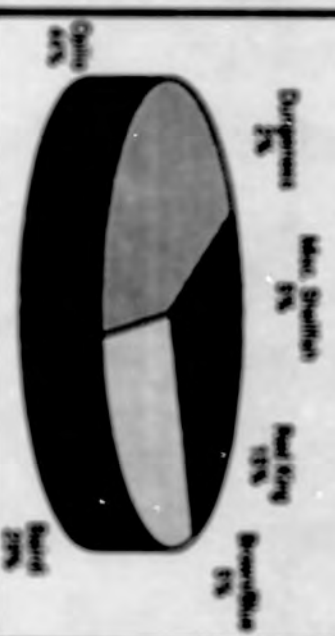
Dungeness crab fisheries occur in Southeast Alaska, Kodiak, and Cook Inlet. The fisheries normally occur during the summer and the fall to take advantage of the summer market conditions. The total statewide purchases by shoreline processors were 4.8 million pounds. (See Table 2-31.) The ex-vessel price value was \$4.7 million.

Figures 2-11 and 2-12 display the distribution of shellfish purchased by species as a percent of total pounds and total value respectively.

**Figure 2-11**  
Distribution of Shelldish by Major Species  
Category Purchased by Shorewide Processing  
Industry in Alaska during 1993  
(in percent of total pounds)



**Figure 2-12**  
Distribution of Shelldish by Major Species  
Category Purchased by Shorewide Processing  
Industry in Alaska during 1993  
(in percent of total value)



## 2.2.7 Other Species

Other species consist of clams, greenback, sea cucumbers, shrimp, sea urchins, and abalone. These fisheries predominantly occur in Southeast Alaska. The total combined purchases during 1993 were 4.3 million pounds. The total value was \$3.2 million, or \$0.73 per pound. Viewed individually, shrimp consisted of 3.2 million, with a gross value of \$2.3 million, or \$0.71 per pound, and the remainder of the species combined totaled 1.15 million pounds with a gross value of \$893,000, or \$0.76 per pound. (See Tables 2-32 and 2-33.)

## 2.3 Shorewide Purchases of Goods & Services

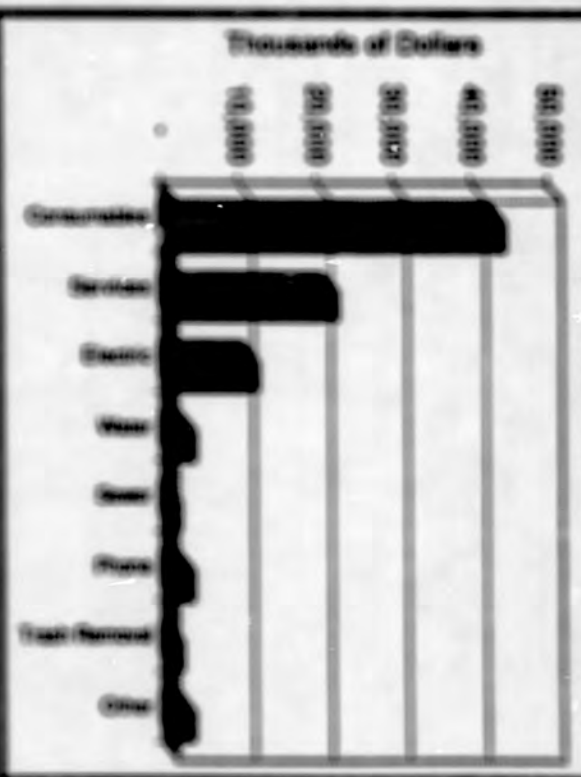
The P32PA questionnaire asked their members to identify the expenditures of goods and services they purchased in Alaska, by plant, by community, and by month. The expenditures are only those made in the community during the year, and do not reflect expenditures that may have been made in other communities in Alaska or outside the state.

The total expenditures identified by the P32PA respondents were double to estimate total state wide expenditures by the entire shorewide seafood processing industry. The double expansion figure was used in recognition that not all of P32PA's members responded to this portion of the questionnaire, and not every shorewide seafood processing company operating in Alaska is a member of

P32PA. The expansion seems conservative given the fact that approximately 30 of the P32PA company facilities responded to this portion of the questionnaire, yet there are more than 350 shorewide facilities overall that engage in some form of commercial seafood processing during the year.

The purchase categories consist of consumables, services, electricity, water, sewer, and other purchases. A total of \$42 million in purchases were reported (see Table 2-34). Figure 2-13 displays the expenditures by category.

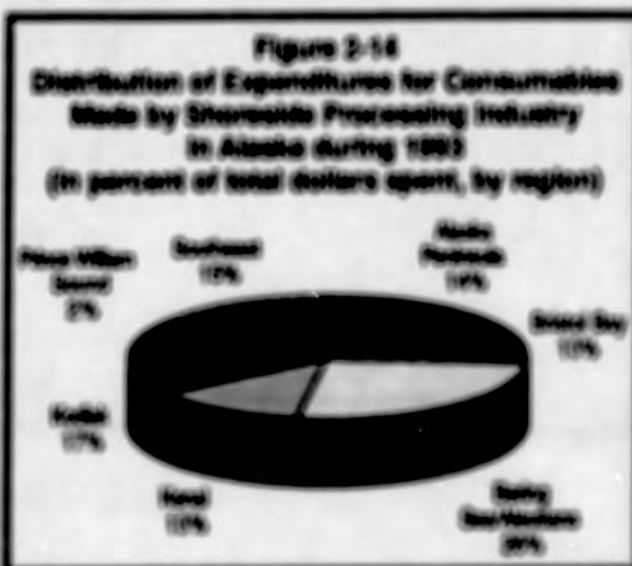
**Figure 2-13**  
Distribution of Expenditures of Goods & Services Made  
by Shorewide Processing Industry in Alaska during 1993  
(in dollars)



### 2.3.1 Consumables

During 1993, approximately \$43 million in consumables were purchased by the shoreside processing industry in Alaska. Consumables are defined as those goods that are perishable or otherwise used to support the operation of the facility. They include food, fuel, fiber, gear, etc.

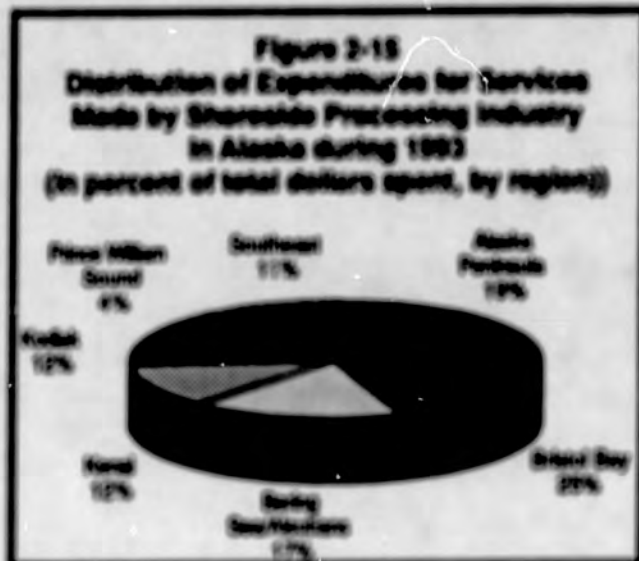
Table 2-35 details the purchases by region and quarter. The Bering Sea/Alutians region reported the greatest level of consumables with \$11 million purchased. In other regions, seafood processors in Kodiak spent \$7.4 million, and \$5 to \$6 million in all other regions except Prince William Sound (where \$1 million was spent). Figure 2-14 shows the distribution of expenditures by region, in percent of total dollars spent.



### 2.3.2 Services

Approximately \$23 million in services were purchased by the shoreside processing industry in Alaska during 1993. Services are defined as those activities that are in support of the operation of the facility. They include mechanical, refrigeration, electrical, etc.

Table 2-36 details the purchases by region and quarter. Bristol Bay region reported the greatest level of purchases with \$5.8 million, followed by the Alaska Peninsula (\$4 million), and the Bering Sea/Alutians (\$3.5 million). Kodiak, Kodiak, and Southeast were each about \$2.5 million, while Prince William Sound was \$76,000. Figure 2-15 shows the distribution of expenditures by region, in percent of total dollars spent.



### 2.3.3 Electricity

During 1993, approximately \$10.5 million in electricity was purchased from local utilities by the shoreside processing industry in Alaska. Table 2-37 details the purchases by region and quarter.

The Kodiak region reported the greatest amount of electricity expenditures with \$4.4 million purchased. The Southeast area was next with \$2.2 million in purchases, followed by Kodiak with \$1.5 million, and Prince William Sound with \$1.4 million. It is noteworthy that the major shoreside processors in Unalaska/Adak produce a substantial portion of their own electricity by utilizing fish oil they produce for fuel for their in-house generators; the total electric expenditures in this region were reported to be \$33,000.

### 2.3.4 Water

Approximately \$2.2 million in water was purchased by the shoreside processing industry during 1993 in Alaska. Table 2-38 details the purchases by region and quarter.

With the exception of the Alaska Peninsula and Bristol Bay (where the costs were less than \$100,000), all regions had water expenses of \$200,000 to \$400,000.

### 2.3.5 Sewer

The shoreside processing industry spent approximately \$635,000 for sewer services in Alaska during 1993. Table 2-39 details the purchases by region and quarter.

### 2.3.6 Other Purchases

During 1993, approximately \$4.8 million in expenditures on other items were made by the shoreside processing industry in Alaska. Other purchases include telephone expenses, etc. Tables 2-40 through 2-42 detail the purchases by region and quarter.

### 2.4 Employment

During 1993, a total of \$379 million was spent by the shoreside processors on wages and fringe benefits/overhead expenses for employees in Alaska. (See Table 2-43.) This consisted of \$347 million in direct wages to employees, \$46 million for fringe benefits and other employee overhead costs, and \$85 million on transportation costs to move employees to and from work site locations. On a monthly average, 16,741 people were employed in shoreside processing facilities.

#### 2.4.1 Direct Employment and Employee Overhead Expenses

Table 2-44 shows the employment impact on a regional basis, by quarter during 1993. Table 2-45 provides a monthly breakdown by region.

Overall, the Barling Sound/Adrian region had the highest level of average monthly employment at 3,154 employees per month. Kodiak had the second highest average at 1,729 employees per month. All other regions with the exception of Prince William Sound and Bristol Bay averaged monthly employment between 1,000 and 1,500 employees per month. Prince William Sound averaged 494 and Bristol Bay averaged 284.

Employment varied substantially by region and quarter. Figure 2-16 compares quarterly employment by region. The seasonality of employment was directly related to the diversity of spe-

cies available for harvest and processing. Access to groundfish and/or shellfish stocks served to round out the shoulder seasons surrounding salmon fisheries.

It is interesting to note the influence that groundfish processing has on employment. Prior to the advent of shoreside groundfish processing in 1968, the employment fluctuations in the Alaska Peninsula, Kodiak, and the Barling Sea/Adrian regions would have been much more severe since there would have been little employment opportunity available during the first and fourth quarters. Groundfish tends to be harvested during the winter months in the Barling Sea and year round in the Gulf of Alaska; this evens out the distribution of employment opportunities.

Employee earnings generally follow the same distribution pattern as employment. Figure 2-17 displays the statewide distribution of shoreside processing employees wages and benefits, by quarter, during 1993. Figure 2-18 illustrates the percentage of shoreside processing wages and benefits by region for the calendar year, while Figure 2-19 compares the expenditures by region in dollars.

Figure 2-16  
Shoreside Seafood Processing Employment by Quarter during 1993  
(in thousands of employees by region)

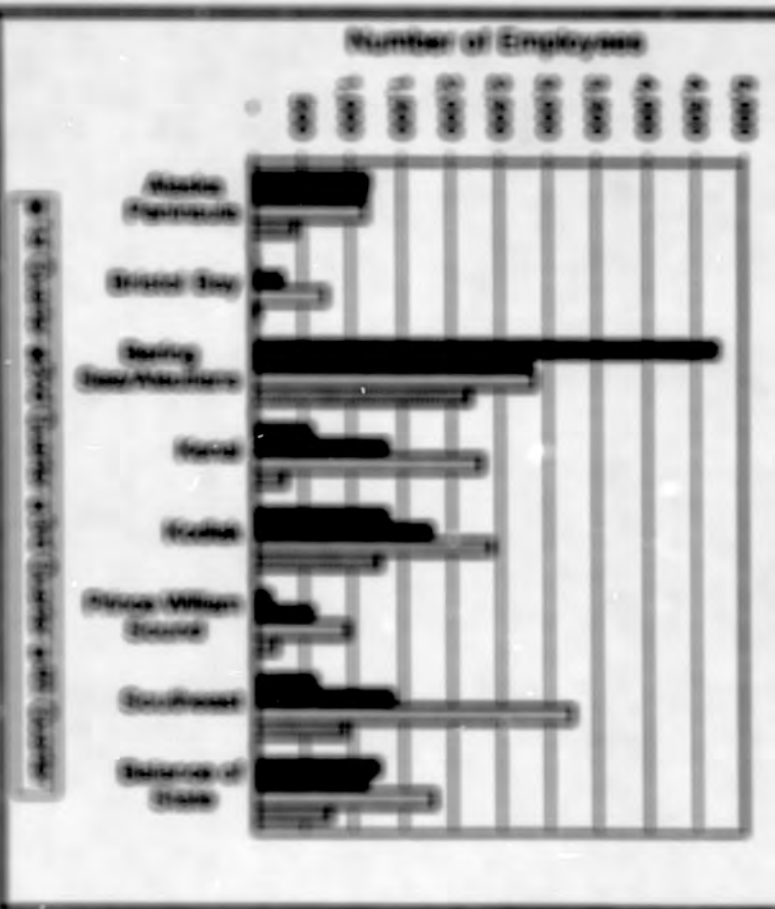


**Figure 2-17**  
**Distribution of Shoreside Processing Employee**  
**Wages & Benefits during 1993**  
*(all regions combined)*

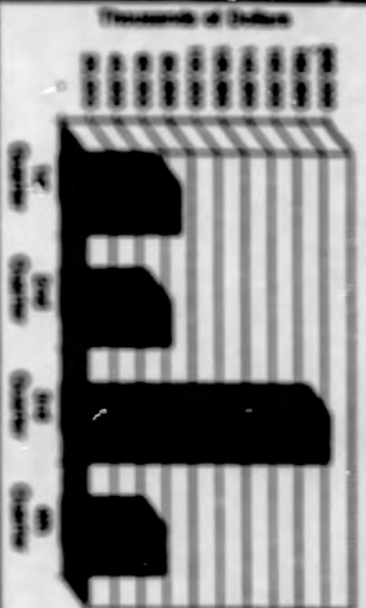
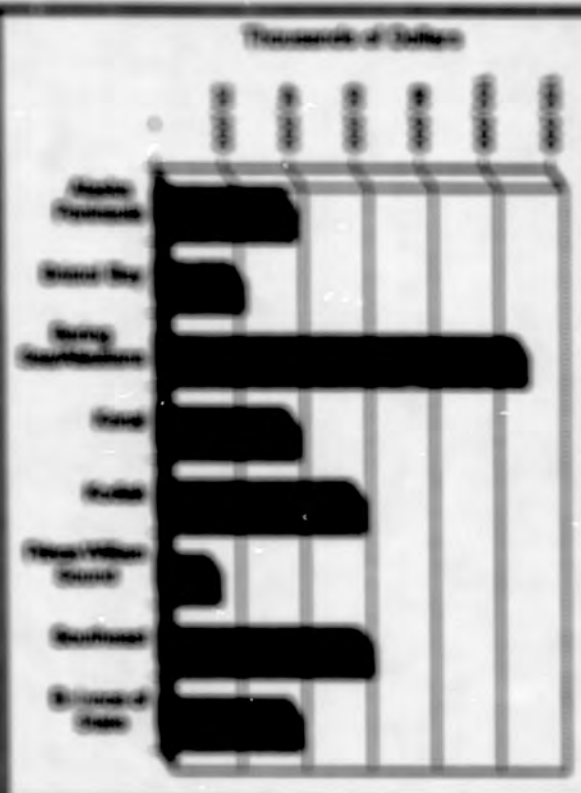


**Figure 2-18**  
**Distribution of Shoreside Processing Employees**  
**Wages & Benefits during 1993**  
*(by region, in percent)*



**Figure 2-19**  
**Distribution of Shoreside Processing Employees Wages &**  
**Benefits during 1993 (by region, in dollars)**



## 2.4.3 Transportation

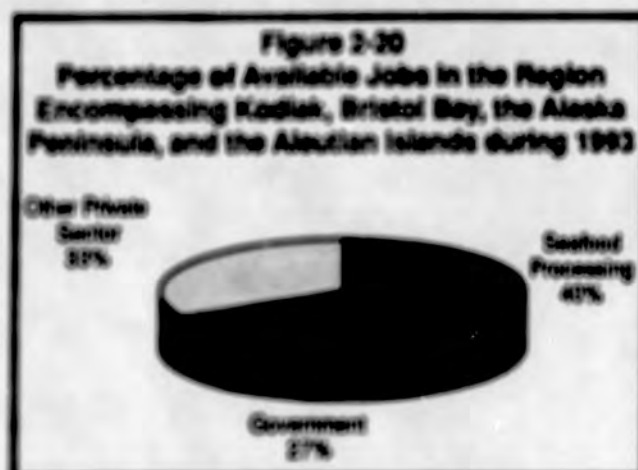
The shoreside processing industry spent \$5 million during 1993 to transport employees to and from various work locations within Alaska. This number was initially derived from the responses to the PAPA questionnaire, in which responding companies identified the number of employees flown to and from the work site, and the accompanying cost, by month; that data was then computed to total employment figures identified in the same questionnaire to identify the regional average number of employees transported and the average cost of transportation. These figures were then applied to total seafood employment as identified by the state, by region and quarter during 1993, to estimate total numbers of employees transported and the cost.

### 2.4.3 Seafood Employment

The seafood industry is the economic engine for many communities and regions within coastal Alaska. In some communities, there is no other industry. As a result, the purchase of fish and shellfish by shoreside processors sets in motion an entire economic structure that affects all ways of life in each of the communities. In preparation for the fishing season, harvesters employ crew members and purchase goods and supplies. Following the delivery of the harvest and production, the products must be transported to the market. Each individual employed and each dollar expended in the community contributes to another job in the community—which, in turn, generates additional employment and expenditures within the community.

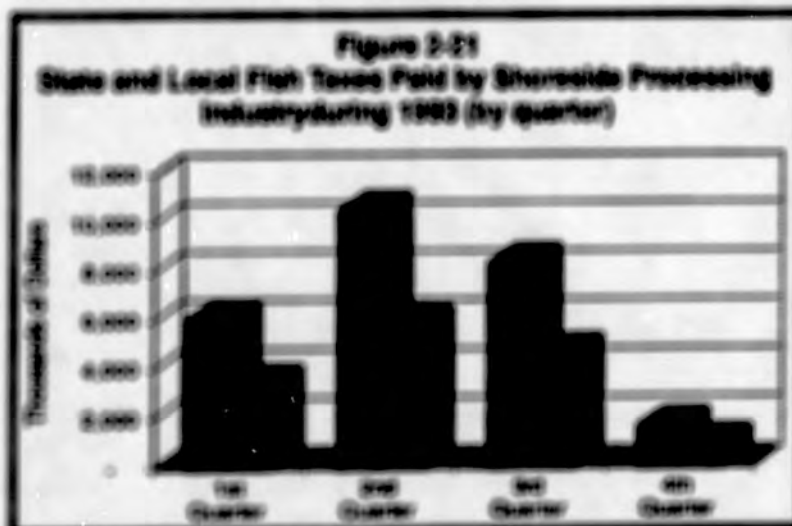
Figure 2-20 illustrates the relationship between the shoreside processing industry and other employment opportunity in a region. The figure shows the relative percentage of employment provided by seafood processing, other private sector employment, local and state government, and federal government in the region encompassing Kodiak, Bristol Bay, the Alaska Peninsula, and the Aleutian Islands during 1993. Forty percent of total employment in this region

during 1993 consisted of seafood processing, 33% was other private sector employment, and 25% was government. The 40% seafood processing figure **does not** include crew jobs, captain positions on fishing vessels, or other private sector jobs that are directly provide services to the shoreside seafood processing industry. Without the shoreside processing and fishing industry in this region, there would be little private sector employment opportunity since most of that opportunity exists to service the shoreside seafood processing industry. As processing employment increases, so does employment opportunity elsewhere in the private sector.



## 2.6 Taxes, Assessments, and Fees

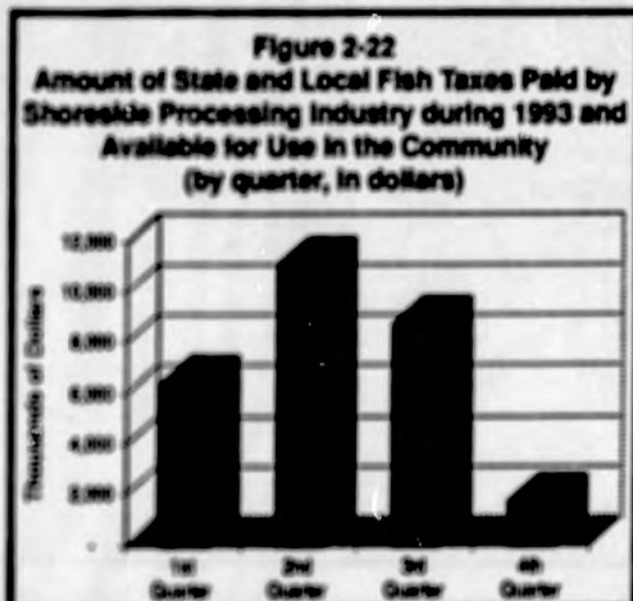
During 1993, the shoreside processing industry paid \$71 million in state and local taxes, assessments, and licenses, including \$26.5 million in state raw fish tax, \$14.7 million in local taxes on fish purchases, and \$30 million in property tax, state corporate income tax, licenses, ASSE assessments, etc. (See Tables 2-1 through 2-6.) Figure 2-21 shows the



amount of state and local fish taxes paid by quarter during the year.

Fifty percent of the state raw fish tax is returned to the community in which it was collected as a form of revenue sharing; therefore, the total amount of raw fish tax collections that are available for use in a community or region are substantially greater than the amount collected by the community itself.

During 1993, the total amount of fish taxes paid by the shoreside processing industry that were available for use by the communities were approximately \$28 million. Figure 2-22 shows the amount



of state and local raw fish collected on a quarterly basis during 1993 that will be returned or is otherwise available for use within the region. Figure 2-23 displays the amount available to each region.

Payments of taxes and other fees made by the shoreside seafood processing industry constitute significant contributions to the overall revenues available to most municipalities and boroughs in coastal Alaska. In the Aleutians East Borough, for example, 83% of total revenues during 1993 were composed of fish taxes paid by the shoreside processing industry: from total revenues of \$5.9 million, local Aleutians East Borough fish taxes accounted for \$3.1 million and state raw fish taxes returned to the borough as revenue

shoring amounted to \$1.3 million. (See Figure 2-26.)

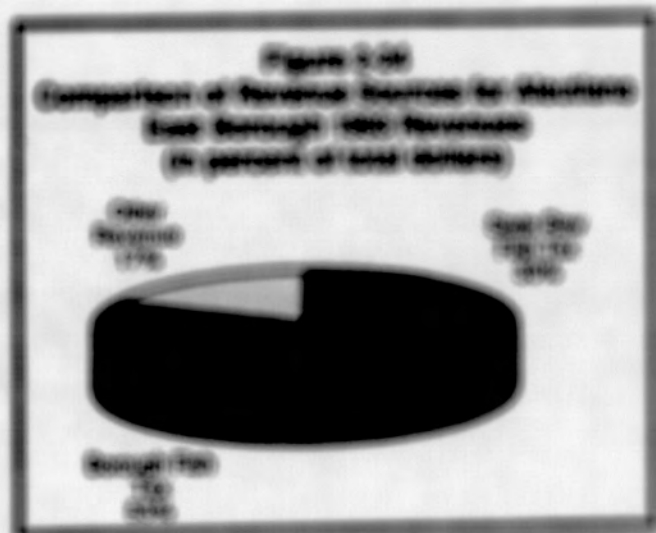
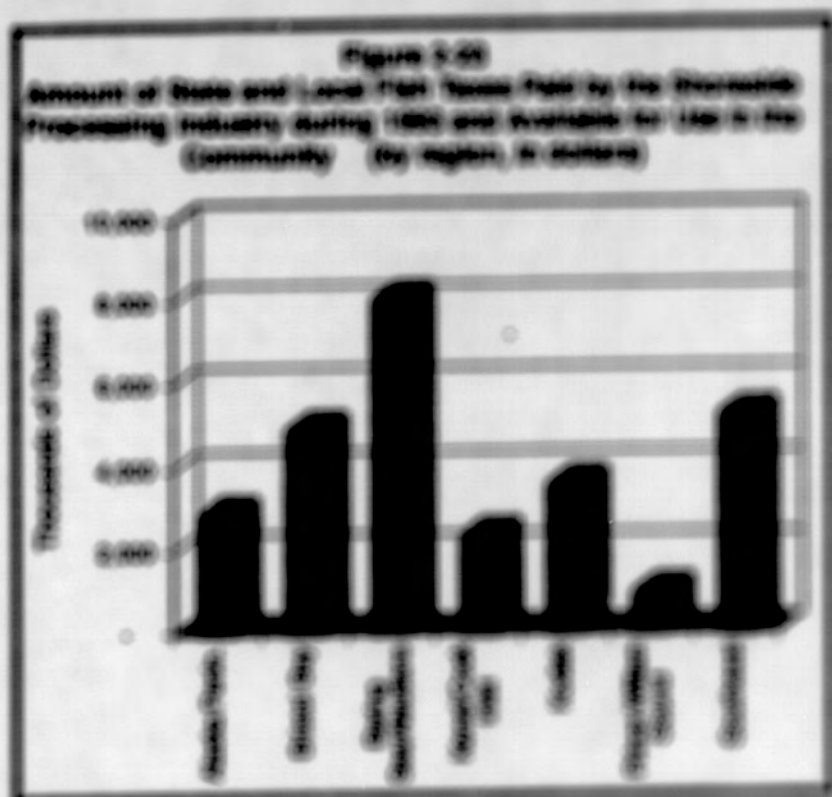


Table 2.1  
Economic Growth of the United States, 1900-1990  
at Market Prices (1990)

| Year | Real GDP (1990 prices) | Population (1990 prices) | Per Capita Real GDP (1990 prices) |
|------|------------------------|--------------------------|-----------------------------------|
| 1900 | 100                    | 100                      | 1.00                              |
| 1910 | 150                    | 110                      | 1.36                              |
| 1920 | 250                    | 120                      | 2.08                              |
| 1930 | 400                    | 130                      | 3.08                              |
| 1940 | 600                    | 140                      | 4.29                              |
| 1950 | 1000                   | 160                      | 6.25                              |
| 1960 | 1800                   | 180                      | 10.00                             |
| 1970 | 2800                   | 200                      | 14.00                             |
| 1980 | 4000                   | 220                      | 18.18                             |
| 1990 | 5500                   | 240                      | 22.92                             |

Source: Bureau of Economic Analysis, Department of Commerce, National Income and Product Accounts, Table 1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.5, 1.1.6, 1.1.7, 1.1.8, 1.1.9, 1.1.10, 1.1.11, 1.1.12, 1.1.13, 1.1.14, 1.1.15, 1.1.16, 1.1.17, 1.1.18, 1.1.19, 1.1.20, 1.1.21, 1.1.22, 1.1.23, 1.1.24, 1.1.25, 1.1.26, 1.1.27, 1.1.28, 1.1.29, 1.1.30, 1.1.31, 1.1.32, 1.1.33, 1.1.34, 1.1.35, 1.1.36, 1.1.37, 1.1.38, 1.1.39, 1.1.40, 1.1.41, 1.1.42, 1.1.43, 1.1.44, 1.1.45, 1.1.46, 1.1.47, 1.1.48, 1.1.49, 1.1.50, 1.1.51, 1.1.52, 1.1.53, 1.1.54, 1.1.55, 1.1.56, 1.1.57, 1.1.58, 1.1.59, 1.1.60, 1.1.61, 1.1.62, 1.1.63, 1.1.64, 1.1.65, 1.1.66, 1.1.67, 1.1.68, 1.1.69, 1.1.70, 1.1.71, 1.1.72, 1.1.73, 1.1.74, 1.1.75, 1.1.76, 1.1.77, 1.1.78, 1.1.79, 1.1.80, 1.1.81, 1.1.82, 1.1.83, 1.1.84, 1.1.85, 1.1.86, 1.1.87, 1.1.88, 1.1.89, 1.1.90, 1.1.91, 1.1.92, 1.1.93, 1.1.94, 1.1.95, 1.1.96, 1.1.97, 1.1.98, 1.1.99, 1.1.100.

**Table 2-1**  
**Summary of the 1990-1991 Seasonal Forecasting Results**  
**for the 1990-1991 Season**

| Forecast  | Actual | Forecast Error | Forecast Error Squared | Forecast Error Absolute |
|-----------|--------|----------------|------------------------|-------------------------|
| 1990-1991 | 100    | 0              | 0                      | 0                       |
| 1991-1992 | 100    | 0              | 0                      | 0                       |
| 1992-1993 | 100    | 0              | 0                      | 0                       |
| 1993-1994 | 100    | 0              | 0                      | 0                       |
| 1994-1995 | 100    | 0              | 0                      | 0                       |
| 1995-1996 | 100    | 0              | 0                      | 0                       |
| 1996-1997 | 100    | 0              | 0                      | 0                       |
| 1997-1998 | 100    | 0              | 0                      | 0                       |
| 1998-1999 | 100    | 0              | 0                      | 0                       |
| 1999-2000 | 100    | 0              | 0                      | 0                       |
| 2000-2001 | 100    | 0              | 0                      | 0                       |
| 2001-2002 | 100    | 0              | 0                      | 0                       |
| 2002-2003 | 100    | 0              | 0                      | 0                       |
| 2003-2004 | 100    | 0              | 0                      | 0                       |
| 2004-2005 | 100    | 0              | 0                      | 0                       |
| 2005-2006 | 100    | 0              | 0                      | 0                       |
| 2006-2007 | 100    | 0              | 0                      | 0                       |
| 2007-2008 | 100    | 0              | 0                      | 0                       |
| 2008-2009 | 100    | 0              | 0                      | 0                       |
| 2009-2010 | 100    | 0              | 0                      | 0                       |
| 2010-2011 | 100    | 0              | 0                      | 0                       |
| 2011-2012 | 100    | 0              | 0                      | 0                       |
| 2012-2013 | 100    | 0              | 0                      | 0                       |
| 2013-2014 | 100    | 0              | 0                      | 0                       |
| 2014-2015 | 100    | 0              | 0                      | 0                       |
| 2015-2016 | 100    | 0              | 0                      | 0                       |
| 2016-2017 | 100    | 0              | 0                      | 0                       |
| 2017-2018 | 100    | 0              | 0                      | 0                       |
| 2018-2019 | 100    | 0              | 0                      | 0                       |
| 2019-2020 | 100    | 0              | 0                      | 0                       |
| 2020-2021 | 100    | 0              | 0                      | 0                       |
| 2021-2022 | 100    | 0              | 0                      | 0                       |
| 2022-2023 | 100    | 0              | 0                      | 0                       |
| 2023-2024 | 100    | 0              | 0                      | 0                       |
| 2024-2025 | 100    | 0              | 0                      | 0                       |
| 2025-2026 | 100    | 0              | 0                      | 0                       |
| 2026-2027 | 100    | 0              | 0                      | 0                       |
| 2027-2028 | 100    | 0              | 0                      | 0                       |
| 2028-2029 | 100    | 0              | 0                      | 0                       |
| 2029-2030 | 100    | 0              | 0                      | 0                       |
| 2030-2031 | 100    | 0              | 0                      | 0                       |
| 2031-2032 | 100    | 0              | 0                      | 0                       |
| 2032-2033 | 100    | 0              | 0                      | 0                       |
| 2033-2034 | 100    | 0              | 0                      | 0                       |
| 2034-2035 | 100    | 0              | 0                      | 0                       |
| 2035-2036 | 100    | 0              | 0                      | 0                       |
| 2036-2037 | 100    | 0              | 0                      | 0                       |
| 2037-2038 | 100    | 0              | 0                      | 0                       |
| 2038-2039 | 100    | 0              | 0                      | 0                       |
| 2039-2040 | 100    | 0              | 0                      | 0                       |
| 2040-2041 | 100    | 0              | 0                      | 0                       |
| 2041-2042 | 100    | 0              | 0                      | 0                       |
| 2042-2043 | 100    | 0              | 0                      | 0                       |
| 2043-2044 | 100    | 0              | 0                      | 0                       |
| 2044-2045 | 100    | 0              | 0                      | 0                       |
| 2045-2046 | 100    | 0              | 0                      | 0                       |
| 2046-2047 | 100    | 0              | 0                      | 0                       |
| 2047-2048 | 100    | 0              | 0                      | 0                       |
| 2048-2049 | 100    | 0              | 0                      | 0                       |
| 2049-2050 | 100    | 0              | 0                      | 0                       |
| 2050-2051 | 100    | 0              | 0                      | 0                       |
| 2051-2052 | 100    | 0              | 0                      | 0                       |
| 2052-2053 | 100    | 0              | 0                      | 0                       |
| 2053-2054 | 100    | 0              | 0                      | 0                       |
| 2054-2055 | 100    | 0              | 0                      | 0                       |
| 2055-2056 | 100    | 0              | 0                      | 0                       |
| 2056-2057 | 100    | 0              | 0                      | 0                       |
| 2057-2058 | 100    | 0              | 0                      | 0                       |
| 2058-2059 | 100    | 0              | 0                      | 0                       |
| 2059-2060 | 100    | 0              | 0                      | 0                       |
| 2060-2061 | 100    | 0              | 0                      | 0                       |
| 2061-2062 | 100    | 0              | 0                      | 0                       |
| 2062-2063 | 100    | 0              | 0                      | 0                       |
| 2063-2064 | 100    | 0              | 0                      | 0                       |
| 2064-2065 | 100    | 0              | 0                      | 0                       |
| 2065-2066 | 100    | 0              | 0                      | 0                       |
| 2066-2067 | 100    | 0              | 0                      | 0                       |
| 2067-2068 | 100    | 0              | 0                      | 0                       |
| 2068-2069 | 100    | 0              | 0                      | 0                       |
| 2069-2070 | 100    | 0              | 0                      | 0                       |
| 2070-2071 | 100    | 0              | 0                      | 0                       |
| 2071-2072 | 100    | 0              | 0                      | 0                       |
| 2072-2073 | 100    | 0              | 0                      | 0                       |
| 2073-2074 | 100    | 0              | 0                      | 0                       |
| 2074-2075 | 100    | 0              | 0                      | 0                       |
| 2075-2076 | 100    | 0              | 0                      | 0                       |
| 2076-2077 | 100    | 0              | 0                      | 0                       |
| 2077-2078 | 100    | 0              | 0                      | 0                       |
| 2078-2079 | 100    | 0              | 0                      | 0                       |
| 2079-2080 | 100    | 0              | 0                      | 0                       |
| 2080-2081 | 100    | 0              | 0                      | 0                       |
| 2081-2082 | 100    | 0              | 0                      | 0                       |
| 2082-2083 | 100    | 0              | 0                      | 0                       |
| 2083-2084 | 100    | 0              | 0                      | 0                       |
| 2084-2085 | 100    | 0              | 0                      | 0                       |
| 2085-2086 | 100    | 0              | 0                      | 0                       |
| 2086-2087 | 100    | 0              | 0                      | 0                       |
| 2087-2088 | 100    | 0              | 0                      | 0                       |
| 2088-2089 | 100    | 0              | 0                      | 0                       |
| 2089-2090 | 100    | 0              | 0                      | 0                       |
| 2090-2091 | 100    | 0              | 0                      | 0                       |
| 2091-2092 | 100    | 0              | 0                      | 0                       |
| 2092-2093 | 100    | 0              | 0                      | 0                       |
| 2093-2094 | 100    | 0              | 0                      | 0                       |
| 2094-2095 | 100    | 0              | 0                      | 0                       |
| 2095-2096 | 100    | 0              | 0                      | 0                       |
| 2096-2097 | 100    | 0              | 0                      | 0                       |
| 2097-2098 | 100    | 0              | 0                      | 0                       |
| 2098-2099 | 100    | 0              | 0                      | 0                       |
| 2099-2100 | 100    | 0              | 0                      | 0                       |

Table 2.1

Financial Statement Analysis: A Review of the Major Concepts and Techniques

| Financial Statement               | Key Concepts and Techniques                                      | Key Ratios and Metrics                       | Key Trends and Patterns    |
|-----------------------------------|------------------------------------------------------------------|----------------------------------------------|----------------------------|
|                                   |                                                                  |                                              |                            |
| Balance Sheet                     | Assets, Liabilities, Equity                                      | Current Ratio, Debt-to-Equity Ratio          | Stable, Growing, Declining |
| Income Statement                  | Revenue, Expenses, Net Income                                    | Gross Profit Margin, Operating Profit Margin | Stable, Growing, Declining |
| Statement of Cash Flows           | Operating Activities, Investing Activities, Financing Activities | Free Cash Flow, Operating Cash Flow          | Stable, Growing, Declining |
| Statement of Retained Earnings    | Retained Earnings, Dividends                                     | Dividend Payout Ratio                        | Stable, Growing, Declining |
| Statement of Comprehensive Income | Comprehensive Income, Other Comprehensive Income                 | Comprehensive Income Margin                  | Stable, Growing, Declining |

Table 2.1  
Financial Statement of the University of Wisconsin System  
for the Year Ending June 30, 1999

| Balance Sheet                  |                               | Income Statement             |                               |
|--------------------------------|-------------------------------|------------------------------|-------------------------------|
| Assets                         | Liabilities and Equity        | Revenues                     | Expenses                      |
| Current Assets                 | Current Liabilities           | Operating Revenues           | Operating Expenses            |
| Cash and equivalents           | Accounts payable              | Tuition and fees             | Salaries and benefits         |
| Accounts receivable            | Deferred contributions        | Grants and contracts         | Scholarships and fellowships  |
| Investments                    | Other current liabilities     | Other operating revenues     | Depreciation and amortization |
| Total Current Assets           | Total Current Liabilities     | Total Operating Revenues     | Total Operating Expenses      |
| Non-Current Assets             | Non-Current Liabilities       | Non-Operating Revenues       | Non-Operating Expenses        |
| Property, plant, and equipment | Long-term debt                | Investment income            | Interest expense              |
| Other non-current assets       | Other non-current liabilities | Other non-operating revenues | Other non-operating expenses  |
| Total Non-Current Assets       | Total Non-Current Liabilities | Total Non-Operating Revenues | Total Non-Operating Expenses  |
| Total Assets                   | Total Liabilities and Equity  | Total Revenues               | Total Expenses                |
|                                |                               | Surplus (Deficit)            |                               |

Table 2.2  
Economic Impact of the Electric Power Industry  
on Manufacturing and the Private Sector, 1990

| Economic Sector            | Key Statistics of Manufacturing Sector |             | Economic Sector            | Key Statistics of Manufacturing Sector |             |
|----------------------------|----------------------------------------|-------------|----------------------------|----------------------------------------|-------------|
|                            | Value                                  | Unit        |                            | Value                                  | Unit        |
| Manufacturing              | Value Added                            | \$1,100,000 | Manufacturing              | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |
| Electric Power             | Value Added                            | \$1,100,000 | Electric Power             | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |
| Transportation             | Value Added                            | \$1,100,000 | Transportation             | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |
| Retail Trade               | Value Added                            | \$1,100,000 | Retail Trade               | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |
| Food and Beverage          | Value Added                            | \$1,100,000 | Food and Beverage          | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |
| Health and Social Services | Value Added                            | \$1,100,000 | Health and Social Services | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |
| Education and Recreation   | Value Added                            | \$1,100,000 | Education and Recreation   | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |
| Government                 | Value Added                            | \$1,100,000 | Government                 | Value Added                            | \$1,100,000 |
|                            | Employment                             | 100,000     |                            | Employment                             | 100,000     |
|                            | Output                                 | 1,000,000   |                            | Output                                 | 1,000,000   |
|                            | Investment                             | 100,000     |                            | Investment                             | 100,000     |
|                            | Capital Stock                          | 1,000,000   |                            | Capital Stock                          | 1,000,000   |



**Table 2-7**  
**Regional Purchases of Fish and Shellfish Statewide during 1993**  
(in pounds and percent, by quarter)

| Purchase Recipient   | 1st Quarter | 2nd Quarter | 3rd Quarter   | 4th Quarter | Total         |
|----------------------|-------------|-------------|---------------|-------------|---------------|
| Alaska Residents     | 377,303,870 | 56,313,655  | 65,963,548    | 17,667,856  | 2,17,216,884  |
| Bristol Bay          | -           | 140,817,622 | 126,767,969   | -           | 267,585,591   |
| Bering Sea/Vikings   | 633,263,612 | 21,362,298  | 626,277,095   | 11,628,313  | 1,313,437,318 |
| Central/Cook Sales   | 5,633,773   | 46,279,667  | 22,222,826    | 68,812      | 74,133,478    |
| Exhibit              | 78,643,189  | 121,276,362 | 128,256,625   | 56,228,268  | 423,394,434   |
| Prince William Sound | 1,546,648   | 21,814,895  | 25,617,293    | 131,271     | 48,393,106    |
| Seafishers           | 6,433,455   | 89,121,354  | 226,106,781   | 5,253,137   | 331,921,727   |
| Balance of State     | -           | 13,242,226  | 8,367,113     | -           | 21,609,339    |
| Total                | 556,655,648 | 622,315,187 | 1,253,963,012 | 85,556,555  | 2,518,516,399 |

| Percent of Harvest by Region & Quarter | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Percent of Total |
|----------------------------------------|-------------|-------------|-------------|-------------|------------------|
| Alaska Residents                       | 7%          | 10%         | 5%          | 21%         | 9%               |
| Bristol Bay                            | 0%          | 24%         | 11%         | 0%          | 17%              |
| Bering Sea/Vikings                     | 77%         | 8%          | 51%         | 12%         | 60%              |
| Central/Cook Sales                     | 1%          | 7%          | 2%          | 0%          | 3%               |
| Exhibit                                | 14%         | 21%         | 17%         | 62%         | 17%              |
| Prince William Sound                   | 0%          | 4%          | 2%          | 0%          | 2%               |
| Seafishers                             | 1%          | 14%         | 18%         | 6%          | 17%              |
| Balance of State                       | 0%          | 2%          | 1%          | 0%          | 1%               |
| Total                                  | 100%        | 100%        | 100%        | 100%        | 100%             |

| Purchase Recipient   | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
| Alaska Residents     | 10%         | 6%          | 3%          | 8%          | 10%   |
| Bristol Bay          | 0%          | 2%          | 6%          | 0%          | 10%   |
| Bering Sea/Vikings   | 90%         | 5%          | 56%         | 1%          | 10%   |
| Central/Cook Sales   | 0%          | 6%          | 1%          | 0%          | 10%   |
| Exhibit              | 10%         | 11%         | 17%         | 62%         | 10%   |
| Prince William Sound | 0%          | 4%          | 2%          | 0%          | 10%   |
| Seafishers           | 1%          | 14%         | 18%         | 1%          | 10%   |
| Balance of State     | 0%          | 6%          | 1%          | 0%          | 10%   |
| (Quarterly Average)  | 22%         | 24%         | 52%         | 3%          | 10%   |

**Table 2-8**  
**Statewide Purchases of Fish and Shellfish by Major Species Group**  
**during 1993 (in pounds and percent, by quarter)**

| Pounds Purchased<br>By Species Group | Quarter     |             |               |             | Total         |
|--------------------------------------|-------------|-------------|---------------|-------------|---------------|
|                                      | 1st Quarter | 2nd Quarter | 3rd Quarter   | 4th Quarter |               |
| Shellfish                            | 163,355,839 | 22,827,592  | 3,314,248     | 14,632,726  | 204,129,405   |
| Shrimp                               | 715,892     | 716,592     | 716,592       | 716,592     | 2,871,668     |
| Groundfish                           | 251,212,254 | 127,691,568 | 690,972,870   | 62,746,783  | 1,481,664,065 |
| Salmon                               | -           | 36,547,416  | 3,426,435     | -           | 41,974,862    |
| Steelhead                            | 471,904     | 298,314,291 | 543,582,794   | 1,379,759   | 641,348,752   |
| Halibut                              | 2,248,476   | 92,648,174  | 4,514,254     | 16,000      | 99,421,104    |
| Total                                | -           | 23,830,204  | 8,457,246     | -           | 42,227,086    |
| Total                                | 716,265,565 | 454,164,947 | 1,276,113,318 | 98,582,259  | 2,527,072,090 |
| <b>Percent of Total Shrimp</b>       |             |             |               |             |               |
| <b>by Species &amp; Quarter</b>      |             |             |               |             |               |
| Shellfish                            | 22%         | 5%          | 1%            | 17%         | 6%            |
| Shrimp                               | 1%          | 1%          | 1%            | 1%          | 1%            |
| Groundfish                           | 77%         | 24%         | 52%           | 62%         | 34%           |
| Salmon                               | 0%          | 6%          | 1%            | 0%          | 2%            |
| Steelhead                            | 1%          | 46%         | 42%           | 1%          | 21%           |
| Halibut                              | 1%          | 14%         | 1%            | 0%          | 4%            |
| Total                                | 100%        | 100%        | 100%          | 100%        | 100%          |
| <b>Percent by Species</b>            |             |             |               |             |               |
| <b>during Each Quarter</b>           |             |             |               |             |               |
| Shellfish                            | 74%         | 12%         | 2%            | 7%          | 100%          |
| Shrimp                               | 23%         | 25%         | 23%           | 22%         | 100%          |
| Groundfish                           | 27%         | 11%         | 47%           | 6%          | 100%          |
| Salmon                               | 0%          | 67%         | 13%           | 0%          | 100%          |
| Steelhead                            | 1%          | 32%         | 64%           | 1%          | 100%          |
| Halibut                              | 1%          | 41%         | 2%            | 0%          | 100%          |
| Total                                | 1%          | 40%         | 37%           | 0%          | 100%          |
| (Quarter's Average)                  | 34%         | 34%         | 42%           | 6%          | 100%          |

Table 2-9  
 Statewide Purchases of Fish and Shellfish by the  
 Shoreside Processing Industry during 1993  
 (in dollars, by quarter, by species)

|                   | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total       |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| Red King          | -           | -           | -           | 22,372,226  | 22,372,226  |
| Brown/Blue        | 6,295,583   | -           | -           | 6,295,583   | 12,591,166  |
| Sable             | 72,566,206  | -           | -           | -           | 72,566,206  |
| Opilio            | 90,582,764  | 22,505,651  | -           | -           | 112,879,415 |
| Dungeness         | -           | 1,418,363   | 2,324,902   | 764,834     | 4,508,117   |
| Misc. Shellfish   | 2,675,714   | 2,586,506   | 2,586,506   | 2,675,714   | 12,524,440  |
| Pollock           | 23,907,876  | 5,220,673   | 48,275,747  | 5,372,216   | 82,676,512  |
| Pacific Cod       | 13,372,295  | 14,142,312  | 1,280,450   | 2,627,675   | 31,422,732  |
| Flounders         | 863,442     | 862,123     | 850,798     | 850,798     | 3,427,161   |
| Rockfish          | 1,493,161   | 1,264,842   | 797,889     | 1,303,077   | 4,859,170   |
| Misc. Groundfish  | 2,823       | 2,562       | 2,562       | 2,562       | 10,512      |
| Chinook           | 822,157     | 2,371,463   | 2,784,459   | 2,192,852   | 17,887,113  |
| Sockeye           | -           | 158,118,329 | 129,218,895 | -           | 287,337,225 |
| Coho              | -           | 4,507,376   | 27,540,324  | -           | 32,047,700  |
| Pink              | -           | 8,113,416   | 45,965,816  | -           | 54,079,232  |
| Chum              | -           | 13,197,777  | 23,275,771  | -           | 36,473,548  |
| Species not Kelly | -           | 684,672     | -           | -           | 684,672     |
| Foodfish          | 2,140       | 517,289     | 671,729     | 1,760       | 1,393,928   |
| Sea Roe           | 478,444     | 17,456,571  | -           | -           | 17,935,015  |
| Salmon            | -           | 90,468,314  | 13,566,640  | -           | 104,034,954 |
| Shellfish         | -           | 41,271,681  | 13,562,809  | -           | 54,834,490  |
| Shrimp            | 564,157     | 552,164     | 552,164     | 552,164     | 2,220,645   |
| Total             | 224,142,412 | 342,352,413 | 313,224,919 | 62,468,271  | 892,792,295 |

Table 2-10  
Statewide Purchases of Fish and Shellfish by Major Species Group  
during 1993 (in dollars and percent, by quarter)

| Ex-Vessel Purchases by<br>Species Group (dollars) | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total               |
|---------------------------------------------------|-------------|-------------|-------------|-------------|---------------------|
| Shellfish                                         | 172,720,067 | 27,003,378  | 4,711,409   | 47,808,277  | 252,243,031         |
| Shrimp                                            | 764,877     | 722,064     | 822,064     | 822,064     | 3,131,069           |
| Groundfish                                        | 49,626,646  | 22,422,552  | 51,207,636  | 9,853,277   | 133,109,111         |
| Subfish                                           | -           | 90,868,714  | 13,506,641  | -           | 104,375,355         |
| Salmon                                            | 822,377     | 191,343,804 | 224,375,452 | 2,002,832   | 4,240,846           |
| Herring                                           | 402,444     | 14,646,722  | 672,722     | 1,700       | 16,422,568          |
| Halibut                                           | -           | 41,271,000  | 11,242,809  | -           | 52,513,809          |
| Total                                             | 224,042,412 | 392,955,602 | 315,224,809 | 60,484,271  | 992,702,104         |
| Percent of Total Value<br>by Group & Quarter      |             |             |             |             | Percent<br>of Total |
| Shellfish                                         | 77%         | 7%          | 1%          | 7%          | 25%                 |
| Shrimp                                            | 0%          | 0%          | 0%          | 0%          | 0%                  |
| Groundfish                                        | 22%         | 6%          | 10%         | 10%         | 10%                 |
| Subfish                                           | 0%          | 22%         | 4%          | 0%          | 11%                 |
| Salmon                                            | 0%          | 49%         | 70%         | 3%          | 45%                 |
| Herring                                           | 0%          | 3%          | 0%          | 0%          | 0%                  |
| Halibut                                           | 0%          | 10%         | 3%          | 0%          | 3%                  |
| Total                                             | 100%        | 100%        | 100%        | 100%        | 100%                |
| Percent Value by Species<br>During Each Quarter   |             |             |             |             | Total               |
| Shellfish                                         | 49%         | 11%         | 2%          | 10%         | 10%                 |
| Shrimp                                            | 26%         | 20%         | 20%         | 20%         | 10%                 |
| Groundfish                                        | 27%         | 17%         | 30%         | 7%          | 10%                 |
| Subfish                                           | 0%          | 81%         | 12%         | 0%          | 10%                 |
| Salmon                                            | 0%          | 45%         | 55%         | 0%          | 10%                 |
| Herring                                           | 2%          | 3%          | 2%          | 0%          | 10%                 |
| Halibut                                           | 0%          | 40%         | 30%         | 0%          | 10%                 |
| Quarterly Average                                 | 25%         | 40%         | 30%         | 6%          | 10%                 |

Table 2-11  
State-wide Purchases of Fish and Shellfish by Region  
during 1993 (in dollars and percent, by quarter)  
Ex-Vessel Expenditures by Region (in dollars)

| Ex-Vessel Purchases by Region (dollars) | Quarter     |             |             |             | Total        |
|-----------------------------------------|-------------|-------------|-------------|-------------|--------------|
|                                         | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |              |
| Alaska Peninsula                        | 21,298,266  | 42,421,080  | 20,861,726  | 11,866,212  | (11,007,282) |
| British Bay                             | -           | 68,429,799  | 42,598,346  | -           | 112,028,145  |
| Bering Sea/Aleutians                    | 167,032,079 | 28,411,262  | 47,216,418  | 29,121,661  | 282,119,367  |
| Central/Cook Inlet                      | 3,118,819   | 26,597,100  | 22,073,092  | 6,062       | 61,801,071   |
| Kodiak                                  | 26,032,205  | 21,566,127  | 21,596,029  | 11,792,476  | (22,167,226) |
| Prince William Sound                    | 222,202     | 18,412,846  | 12,228,467  | 27,112      | 22,962,828   |
| Southwest                               | 6,296,727   | 68,712,416  | 42,724,261  | 6,621,727   | (26,222,279) |
| Balance of State                        | -           | 2,491,906   | 7,726,222   | -           | (1,409,219)  |
| Total                                   | 226,192,612 | 291,629,276 | 212,621,181 | 62,468,271  | 699,368,297  |

| Percent of Purchases by Region & Quarter | Quarter     |             |             |             | Percent of Total |
|------------------------------------------|-------------|-------------|-------------|-------------|------------------|
|                                          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |                  |
| Alaska Peninsula                         | 9%          | 12%         | 6%          | 21%         | 10%              |
| British Bay                              | 0%          | 21%         | 27%         | 0%          | 17%              |
| Bering Sea/Aleutians                     | 72%         | 10%         | 22%         | 46%         | 26%              |
| Central/Cook Inlet                       | 1%          | 9%          | 7%          | 0%          | 6%               |
| Kodiak                                   | 12%         | 12%         | 12%         | 18%         | 12%              |
| Prince William Sound                     | 0%          | 6%          | 4%          | 0%          | 3%               |
| Southwest                                | 2%          | 21%         | 20%         | 11%         | 19%              |
| Balance of State                         | 0%          | 1%          | 3%          | 0%          | 1%               |
| Total                                    | (10%)       | (10%)       | (10%)       | (10%)       | (10%)            |

| Percent by Region    | Quarter     |             |             |             | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
|                      | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |       |
| Alaska Peninsula     | 21%         | 42%         | 21%         | 12%         | (12%) |
| British Bay          | 0%          | 21%         | 40%         | 0%          | (12%) |
| Bering Sea/Aleutians | 69%         | 14%         | 17%         | 42%         | (12%) |
| Central/Cook Inlet   | 4%          | 40%         | 27%         | 0%          | (12%) |
| Kodiak               | 21%         | 41%         | 20%         | 29%         | (12%) |
| Prince William Sound | 1%          | 20%         | 40%         | 0%          | (12%) |
| Southwest            | 2%          | 40%         | 42%         | 4%          | (12%) |
| Balance of State     | 0%          | 2%          | 7%          | 0%          | (12%) |
| (Quarterly Average)  | 21%         | 29%         | 21%         | 12%         | (12%) |

Table 2-22

Purchases of Chinook Salmon by the Bioniside Processing Industry  
during 1992 (in pounds, dollars and percent, by quarter)

| By Processor:        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
| Alaska Packers       | 0%          | 0%          | 0%          | 0%          | 0%    |
| Bioniside Bay        | 0%          | 0%          | 0%          | 0%          | 0%    |
| Bering Sea Fisheries | 0%          | 0%          | 0%          | 0%          | 0%    |
| Green                | 0%          | 0%          | 0%          | 0%          | 0%    |
| Scallop              | 0%          | 0%          | 0%          | 0%          | 0%    |
| Prince William Sound | 0%          | 0%          | 0%          | 0%          | 0%    |
| Southwest            | 0%          | 0%          | 0%          | 0%          | 0%    |
| A. B. & C.           | 0%          | 0%          | 0%          | 0%          | 0%    |

| By Processor:        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
| Alaska Packers       | 0           | 0           | 0           | 0           | 0     |
| Bioniside Bay        | 0           | 0           | 0           | 0           | 0     |
| Bering Sea Fisheries | 0           | 0           | 0           | 0           | 0     |
| Green                | 0           | 0           | 0           | 0           | 0     |
| Scallop              | 0           | 0           | 0           | 0           | 0     |
| Prince William Sound | 0           | 0           | 0           | 0           | 0     |
| Southwest            | 0           | 0           | 0           | 0           | 0     |
| A. B. & C.           | 0           | 0           | 0           | 0           | 0     |
| Total                | 0           | 0           | 0           | 0           | 0     |

| By Processor:        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
| Alaska Packers       | 0           | 0           | 0           | 0           | 0     |
| Bioniside Bay        | 0           | 0           | 0           | 0           | 0     |
| Bering Sea Fisheries | 0           | 0           | 0           | 0           | 0     |
| Green                | 0           | 0           | 0           | 0           | 0     |
| Scallop              | 0           | 0           | 0           | 0           | 0     |
| Prince William Sound | 0           | 0           | 0           | 0           | 0     |
| Southwest            | 0           | 0           | 0           | 0           | 0     |
| A. B. & C.           | 0           | 0           | 0           | 0           | 0     |
| Total                | 0           | 0           | 0           | 0           | 0     |

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### Examples of Software Patents by the Wisconsin Patenting Industry during 1987 (in percent, father and second by patent)

| By Percent                 | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------------|-------------|-------------|-------------|-------------|-------|
| Charles Thompson           | 8.0%        | 10.0%       | 10.0%       | 8.0%        | 36.0% |
| Barrett Key                | 8.0%        | 10.0%       | 10.0%       | 8.0%        | 36.0% |
| Henry Doug Williams        | 8.0%        | 8.0%        | 8.0%        | 8.0%        | 32.0% |
| Barrett                    | 8.0%        | 10.0%       | 10.0%       | 8.0%        | 36.0% |
| Barrett                    | 8.0%        | 10.0%       | 10.0%       | 8.0%        | 36.0% |
| Barrett Williams (Barrett) | 8.0%        | 10.0%       | 10.0%       | 8.0%        | 36.0% |
| Barrett                    | 8.0%        | 10.0%       | 10.0%       | 8.0%        | 36.0% |
| Barrett                    | 8.0%        | 10.0%       | 10.0%       | 8.0%        | 36.0% |

| By Name:              | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total      |
|-----------------------|-------------|-------------|-------------|-------------|------------|
| Alfredo Quintana      | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |
| Armedo Bay            | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |
| Barry Day/Montano     | •           | •           | •           | •           | •          |
| Bernie                | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |
| Carlson               | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |
| Charles William Jones | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |
| Christina             | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |
| Chris                 | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |
| David                 | •           | 97,000,000  | 97,000,000  | •           | 97,000,000 |

[illegible]

Table 3.18

Purchases of Consumer Goods by the Domestic Accounting Industry  
(Starting 1997 in pounds, dollars and pence, by region)

| By Region:         | UK   | EU   | EEA  | EEA  | EEA  |
|--------------------|------|------|------|------|------|
| Alcohol, Tobacco   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat (kg)          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat, Soft (kg)    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat, Without Meat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| By Region:         | UK   | EU   | EEA  | EEA  | EEA  |
|--------------------|------|------|------|------|------|
| Alcohol, Tobacco   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat (kg)          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat, Soft (kg)    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat, Without Meat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| By Region:         | UK   | EU   | EEA  | EEA  | EEA  |
|--------------------|------|------|------|------|------|
| Alcohol, Tobacco   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat (kg)          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat, Soft (kg)    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat, Without Meat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Meat               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 3.12  
Description of Fuel Subsidies by the Government Operating Refinery  
During 1997 to present (when not passed to provinces)

| a) Period             | b) Source  |            |            |            | Total |
|-----------------------|------------|------------|------------|------------|-------|
|                       | 1st Source | 2nd Source | 3rd Source | 4th Source |       |
| March/September       | 0%         | 0%         | 0%         | 0%         | 0%    |
| October/Dec           | 0%         | 0%         | 0%         | 0%         | 0%    |
| January/February      | 0%         | 0%         | 0%         | 0%         | 0%    |
| March                 | 0%         | 0%         | 0%         | 0%         | 0%    |
| April                 | 0%         | 0%         | 0%         | 0%         | 0%    |
| May                   | 0%         | 0%         | 0%         | 0%         | 0%    |
| June                  | 0%         | 0%         | 0%         | 0%         | 0%    |
| July/August/September | 0%         | 0%         | 0%         | 0%         | 0%    |
| October               | 0%         | 0%         | 0%         | 0%         | 0%    |
| November              | 0%         | 0%         | 0%         | 0%         | 0%    |
| December              | 0%         | 0%         | 0%         | 0%         | 0%    |
| Total                 | 0%         | 0%         | 0%         | 0%         | 0%    |

| a) Period             | b) Source  |            |            |            | Total |
|-----------------------|------------|------------|------------|------------|-------|
|                       | 1st Source | 2nd Source | 3rd Source | 4th Source |       |
| March/September       | 0%         | 0%         | 0%         | 0%         | 0%    |
| October/Dec           | 0%         | 0%         | 0%         | 0%         | 0%    |
| January/February      | 0%         | 0%         | 0%         | 0%         | 0%    |
| March                 | 0%         | 0%         | 0%         | 0%         | 0%    |
| April                 | 0%         | 0%         | 0%         | 0%         | 0%    |
| May                   | 0%         | 0%         | 0%         | 0%         | 0%    |
| June                  | 0%         | 0%         | 0%         | 0%         | 0%    |
| July/August/September | 0%         | 0%         | 0%         | 0%         | 0%    |
| October               | 0%         | 0%         | 0%         | 0%         | 0%    |
| November              | 0%         | 0%         | 0%         | 0%         | 0%    |
| December              | 0%         | 0%         | 0%         | 0%         | 0%    |
| Total                 | 0%         | 0%         | 0%         | 0%         | 0%    |

| a) Period             | b) Source  |            |            |            | Total |
|-----------------------|------------|------------|------------|------------|-------|
|                       | 1st Source | 2nd Source | 3rd Source | 4th Source |       |
| March/September       | 0%         | 0%         | 0%         | 0%         | 0%    |
| October/Dec           | 0%         | 0%         | 0%         | 0%         | 0%    |
| January/February      | 0%         | 0%         | 0%         | 0%         | 0%    |
| March                 | 0%         | 0%         | 0%         | 0%         | 0%    |
| April                 | 0%         | 0%         | 0%         | 0%         | 0%    |
| May                   | 0%         | 0%         | 0%         | 0%         | 0%    |
| June                  | 0%         | 0%         | 0%         | 0%         | 0%    |
| July/August/September | 0%         | 0%         | 0%         | 0%         | 0%    |
| October               | 0%         | 0%         | 0%         | 0%         | 0%    |
| November              | 0%         | 0%         | 0%         | 0%         | 0%    |
| December              | 0%         | 0%         | 0%         | 0%         | 0%    |
| Total                 | 0%         | 0%         | 0%         | 0%         | 0%    |





**Table 1.1**  
**Summary of Results: Survey for 2014-15**  
**Microbial, Chemical, Physical, and Biological**  
**in Groundwater, Surface Water, and Air**

| By Parameter   | 1. Micro | 2. Chem | 3. Phys | 4. Bio | 5. Tot |
|----------------|----------|---------|---------|--------|--------|
| Water (Ground) | 0        | 0       | 0       | 0      | 0      |
| Water (Surf)   | 0        | 0       | 0       | 0      | 0      |
| Water (Air)    | 0        | 0       | 0       | 0      | 0      |
| Soil           | 0        | 0       | 0       | 0      | 0      |
| Sludge         | 0        | 0       | 0       | 0      | 0      |
| Sludge (Water) | 0        | 0       | 0       | 0      | 0      |
| Sludge (Air)   | 0        | 0       | 0       | 0      | 0      |
| Sludge (Soil)  | 0        | 0       | 0       | 0      | 0      |

| By Parameter   | 1. Micro | 2. Chem | 3. Phys | 4. Bio | 5. Tot |
|----------------|----------|---------|---------|--------|--------|
| Water (Ground) | 0        | 0       | 0       | 0      | 0      |
| Water (Surf)   | 0        | 0       | 0       | 0      | 0      |
| Water (Air)    | 0        | 0       | 0       | 0      | 0      |
| Soil           | 0        | 0       | 0       | 0      | 0      |
| Sludge         | 0        | 0       | 0       | 0      | 0      |
| Sludge (Water) | 0        | 0       | 0       | 0      | 0      |
| Sludge (Air)   | 0        | 0       | 0       | 0      | 0      |
| Sludge (Soil)  | 0        | 0       | 0       | 0      | 0      |

| By Parameter   | 1. Micro | 2. Chem | 3. Phys | 4. Bio | 5. Tot |
|----------------|----------|---------|---------|--------|--------|
| Water (Ground) | 0        | 0       | 0       | 0      | 0      |
| Water (Surf)   | 0        | 0       | 0       | 0      | 0      |
| Water (Air)    | 0        | 0       | 0       | 0      | 0      |
| Soil           | 0        | 0       | 0       | 0      | 0      |
| Sludge         | 0        | 0       | 0       | 0      | 0      |
| Sludge (Water) | 0        | 0       | 0       | 0      | 0      |
| Sludge (Air)   | 0        | 0       | 0       | 0      | 0      |
| Sludge (Soil)  | 0        | 0       | 0       | 0      | 0      |

Table 1. Summary of Survey Results  
 (continued from Table 1)  
 (continued from Table 1)

| Q. Question                                | Response 1 | Response 2 | Response 3 | Response 4 | Total |
|--------------------------------------------|------------|------------|------------|------------|-------|
| Q1. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |
| Q2. How easy is it to use?                 | 15         | 25         | 35         | 45         | 120   |
| Q3. How useful is the system?              | 20         | 30         | 40         | 50         | 140   |
| Q4. How satisfied are you with the system? | 10         | 20         | 30         | 40         | 100   |
| Q5. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |
| Q6. How easy is it to use?                 | 15         | 25         | 35         | 45         | 120   |
| Q7. How useful is the system?              | 20         | 30         | 40         | 50         | 140   |
| Q8. How satisfied are you with the system? | 10         | 20         | 30         | 40         | 100   |
| Q9. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |

| Q. Question                                | Response 1 | Response 2 | Response 3 | Response 4 | Total |
|--------------------------------------------|------------|------------|------------|------------|-------|
| Q1. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |
| Q2. How easy is it to use?                 | 15         | 25         | 35         | 45         | 120   |
| Q3. How useful is the system?              | 20         | 30         | 40         | 50         | 140   |
| Q4. How satisfied are you with the system? | 10         | 20         | 30         | 40         | 100   |
| Q5. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |
| Q6. How easy is it to use?                 | 15         | 25         | 35         | 45         | 120   |
| Q7. How useful is the system?              | 20         | 30         | 40         | 50         | 140   |
| Q8. How satisfied are you with the system? | 10         | 20         | 30         | 40         | 100   |
| Q9. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |

| Q. Question                                | Response 1 | Response 2 | Response 3 | Response 4 | Total |
|--------------------------------------------|------------|------------|------------|------------|-------|
| Q1. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |
| Q2. How easy is it to use?                 | 15         | 25         | 35         | 45         | 120   |
| Q3. How useful is the system?              | 20         | 30         | 40         | 50         | 140   |
| Q4. How satisfied are you with the system? | 10         | 20         | 30         | 40         | 100   |
| Q5. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |
| Q6. How easy is it to use?                 | 15         | 25         | 35         | 45         | 120   |
| Q7. How useful is the system?              | 20         | 30         | 40         | 50         | 140   |
| Q8. How satisfied are you with the system? | 10         | 20         | 30         | 40         | 100   |
| Q9. How often do you use the system?       | 10         | 20         | 30         | 40         | 100   |



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Figure 1. Schematic representation of the experimental design. The figure shows a timeline of the experiment. The timeline starts with a 10-minute period of rest, followed by a 10-minute period of rest, and then a 10-minute period of rest. The timeline ends with a 10-minute period of rest.

[illegible][illegible]

Table 2. Summary of Results  
The following table presents the results of the analysis of variance for the dependent variable of interest. The results are presented for each of the independent variables and their interactions. The results are presented in the form of a table with the following columns: Source of Variation, Sum of Squares, Degrees of Freedom, Mean Square, F-Value, and Probability > F.

| Source of Variation | Sum of Squares | Degrees of Freedom | Mean Square | F-Value | Probability > F |
|---------------------|----------------|--------------------|-------------|---------|-----------------|
| Model               | 10.00          | 10                 | 1.00        | 1.00    | 0.00            |
| Intercept           | 10.00          | 1                  | 10.00       | 10.00   | 0.00            |
| Factor A            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor B            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor C            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor D            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor E            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor F            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor G            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor H            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor I            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |

| Source of Variation | Sum of Squares | Degrees of Freedom | Mean Square | F-Value | Probability > F |
|---------------------|----------------|--------------------|-------------|---------|-----------------|
| Model               | 10.00          | 10                 | 1.00        | 1.00    | 0.00            |
| Intercept           | 10.00          | 1                  | 10.00       | 10.00   | 0.00            |
| Factor A            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor B            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor C            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor D            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor E            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor F            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor G            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor H            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor I            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |

| Source of Variation | Sum of Squares | Degrees of Freedom | Mean Square | F-Value | Probability > F |
|---------------------|----------------|--------------------|-------------|---------|-----------------|
| Model               | 10.00          | 10                 | 1.00        | 1.00    | 0.00            |
| Intercept           | 10.00          | 1                  | 10.00       | 10.00   | 0.00            |
| Factor A            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor B            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor C            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor D            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor E            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor F            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor G            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor H            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |
| Factor I            | 1.00           | 1                  | 1.00        | 1.00    | 0.00            |

**Table 2-1**  
**Summary of Key Economic Indicators for the United States, 1990-2000**

|                                | 1990  | 1995  | 2000   | 2005   | 2010   |
|--------------------------------|-------|-------|--------|--------|--------|
| GDP (Billions of \$)           | 5,900 | 7,500 | 10,000 | 12,500 | 15,000 |
| Population (Millions)          | 250   | 265   | 275    | 285    | 295    |
| Unemployment Rate (%)          | 6.0   | 5.5   | 5.0    | 4.5    | 4.0    |
| Inflation Rate (%)             | 5.0   | 3.0   | 2.0    | 1.5    | 1.0    |
| Federal Reserve Rate (%)       | 6.0   | 5.0   | 4.0    | 3.0    | 2.0    |
| Trade Balance (Billions of \$) | -100  | -150  | -200   | -250   | -300   |
| Deficit (Billions of \$)       | 100   | 150   | 200    | 250    | 300    |
| Debt (Billions of \$)          | 5,000 | 6,000 | 7,000  | 8,000  | 9,000  |

|                                | 1990  | 1995  | 2000   | 2005   | 2010   |
|--------------------------------|-------|-------|--------|--------|--------|
| GDP (Billions of \$)           | 5,900 | 7,500 | 10,000 | 12,500 | 15,000 |
| Population (Millions)          | 250   | 265   | 275    | 285    | 295    |
| Unemployment Rate (%)          | 6.0   | 5.5   | 5.0    | 4.5    | 4.0    |
| Inflation Rate (%)             | 5.0   | 3.0   | 2.0    | 1.5    | 1.0    |
| Federal Reserve Rate (%)       | 6.0   | 5.0   | 4.0    | 3.0    | 2.0    |
| Trade Balance (Billions of \$) | -100  | -150  | -200   | -250   | -300   |
| Deficit (Billions of \$)       | 100   | 150   | 200    | 250    | 300    |
| Debt (Billions of \$)          | 5,000 | 6,000 | 7,000  | 8,000  | 9,000  |

|                                | 1990  | 1995  | 2000   | 2005   | 2010   |
|--------------------------------|-------|-------|--------|--------|--------|
| GDP (Billions of \$)           | 5,900 | 7,500 | 10,000 | 12,500 | 15,000 |
| Population (Millions)          | 250   | 265   | 275    | 285    | 295    |
| Unemployment Rate (%)          | 6.0   | 5.5   | 5.0    | 4.5    | 4.0    |
| Inflation Rate (%)             | 5.0   | 3.0   | 2.0    | 1.5    | 1.0    |
| Federal Reserve Rate (%)       | 6.0   | 5.0   | 4.0    | 3.0    | 2.0    |
| Trade Balance (Billions of \$) | -100  | -150  | -200   | -250   | -300   |
| Deficit (Billions of \$)       | 100   | 150   | 200    | 250    | 300    |
| Debt (Billions of \$)          | 5,000 | 6,000 | 7,000  | 8,000  | 9,000  |

Table 2-2

Comparison of Economic Systems in the Soviet Union, Eastern Europe, and the West

|                                             | 1. Soviet Union | 2. Eastern Europe | 3. Western Europe | 4. United States | Total |
|---------------------------------------------|-----------------|-------------------|-------------------|------------------|-------|
| Population (millions)                       | 240             | 240               | 100               | 240              | 820   |
| GDP (billions of dollars)                   | 1,200           | 1,200             | 1,200             | 1,200            | 4,800 |
| Per capita GDP (dollars)                    | 5,000           | 5,000             | 12,000            | 5,000            | 5,800 |
| Unemployment (%)                            | 10              | 10                | 5                 | 5                | 7.5   |
| Life expectancy (years)                     | 70              | 70                | 75                | 75               | 72.5  |
| Health care (per 1,000 people)              | 100             | 100               | 150               | 150              | 125   |
| Education (per 1,000 people)                | 100             | 100               | 150               | 150              | 125   |
| Research and development (per 1,000 people) | 100             | 100               | 150               | 150              | 125   |
| Defense (per 1,000 people)                  | 100             | 100               | 150               | 150              | 125   |
| Environment (per 1,000 people)              | 100             | 100               | 150               | 150              | 125   |
| Other (per 1,000 people)                    | 100             | 100               | 150               | 150              | 125   |

|                                             | 1. Soviet Union | 2. Eastern Europe | 3. Western Europe | 4. United States | Total |
|---------------------------------------------|-----------------|-------------------|-------------------|------------------|-------|
| Population (millions)                       | 240             | 240               | 100               | 240              | 820   |
| GDP (billions of dollars)                   | 1,200           | 1,200             | 1,200             | 1,200            | 4,800 |
| Per capita GDP (dollars)                    | 5,000           | 5,000             | 12,000            | 5,000            | 5,800 |
| Unemployment (%)                            | 10              | 10                | 5                 | 5                | 7.5   |
| Life expectancy (years)                     | 70              | 70                | 75                | 75               | 72.5  |
| Health care (per 1,000 people)              | 100             | 100               | 150               | 150              | 125   |
| Education (per 1,000 people)                | 100             | 100               | 150               | 150              | 125   |
| Research and development (per 1,000 people) | 100             | 100               | 150               | 150              | 125   |
| Defense (per 1,000 people)                  | 100             | 100               | 150               | 150              | 125   |
| Environment (per 1,000 people)              | 100             | 100               | 150               | 150              | 125   |
| Other (per 1,000 people)                    | 100             | 100               | 150               | 150              | 125   |

|                                             | 1. Soviet Union | 2. Eastern Europe | 3. Western Europe | 4. United States | Total |
|---------------------------------------------|-----------------|-------------------|-------------------|------------------|-------|
| Population (millions)                       | 240             | 240               | 100               | 240              | 820   |
| GDP (billions of dollars)                   | 1,200           | 1,200             | 1,200             | 1,200            | 4,800 |
| Per capita GDP (dollars)                    | 5,000           | 5,000             | 12,000            | 5,000            | 5,800 |
| Unemployment (%)                            | 10              | 10                | 5                 | 5                | 7.5   |
| Life expectancy (years)                     | 70              | 70                | 75                | 75               | 72.5  |
| Health care (per 1,000 people)              | 100             | 100               | 150               | 150              | 125   |
| Education (per 1,000 people)                | 100             | 100               | 150               | 150              | 125   |
| Research and development (per 1,000 people) | 100             | 100               | 150               | 150              | 125   |
| Defense (per 1,000 people)                  | 100             | 100               | 150               | 150              | 125   |
| Environment (per 1,000 people)              | 100             | 100               | 150               | 150              | 125   |
| Other (per 1,000 people)                    | 100             | 100               | 150               | 150              | 125   |

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|           | 1st Source                 | 2nd Source | 3rd Source | 4th Source | Total |
|-----------|----------------------------|------------|------------|------------|-------|
| a) Female | Female - Postnatal         | 0000       | 00         | 00         | 0000  |
|           | Female - Pre               | 00         | 00         | 00         | 00    |
|           | Female - Post/Prenatal     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female - Postnatal - Total | 0000       | 0000       | 0000       | 0000  |
|           | Female - Pre               | 0000       | 0000       | 0000       | 0000  |
| b) Female | Female - Postnatal         | 0000       | 00         | 00         | 0000  |
|           | Female - Pre               | 00         | 00         | 00         | 00    |
|           | Female - Post/Prenatal     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female - Postnatal - Total | 0000       | 0000       | 0000       | 0000  |
|           | Female - Pre               | 0000       | 0000       | 0000       | 0000  |
| c) Female | Female - Postnatal         | 0000       | 00         | 00         | 0000  |
|           | Female - Pre               | 00         | 00         | 00         | 00    |
|           | Female - Post/Prenatal     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female - Postnatal - Total | 0000       | 0000       | 0000       | 0000  |
|           | Female - Pre               | 0000       | 0000       | 0000       | 0000  |
| d) Female | Female - Postnatal         | 0000       | 00         | 00         | 0000  |
|           | Female - Pre               | 00         | 00         | 00         | 00    |
|           | Female - Post/Prenatal     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female                     | 0000       | 0000       | 0000       | 0000  |
|           | Female - Postnatal - Total | 0000       | 0000       | 0000       | 0000  |
|           | Female - Pre               | 0000       | 0000       | 0000       | 0000  |

Table 3.4  
 Expenditures of Microbusiness (Entrepreneurial)  
 by the National Accounting System (1993)  
 (in pounds sterling and prices of 1993)

| By Region        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|------------------|-------------|-------------|-------------|-------------|-------|
| London (England) | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |

| By Region        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|------------------|-------------|-------------|-------------|-------------|-------|
| London (England) | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |

| By Region        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|------------------|-------------|-------------|-------------|-------------|-------|
| London (England) | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |
| North (York)     | 100         | 100         | 100         | 100         | 400   |



Table 3.38  
Partners of Bruce and Bill King (1988)  
a) for Domestic Flamingo (Larus) Marling (1988)  
(in pounds, dollars and percent, \$1,000)

| By Species        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|-------------------|-------------|-------------|-------------|-------------|-------|
| Adults (Domestic) | (0)         | (0)         | (0)         | (0)         | (0)   |
| Adults (By)       | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |

| By Species        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|-------------------|-------------|-------------|-------------|-------------|-------|
| Adults (Domestic) | (0)         | (0)         | (0)         | (0)         | (0)   |
| Adults (By)       | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |

| By Species        | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|-------------------|-------------|-------------|-------------|-------------|-------|
| Adults (Domestic) | (0)         | (0)         | (0)         | (0)         | (0)   |
| Adults (By)       | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (Domestic)  | (0)         | (0)         | (0)         | (0)         | (0)   |
| Young (By)        | (0)         | (0)         | (0)         | (0)         | (0)   |





**Table 2.13**  
**Regression of Earnings Persistence: 1980 to 1999**  
**Model 1: Earnings Persistence (1980 to 1999)**

| Variable       | 1980-1989 | 1990-1999 | 1980-1999 | 1990-1999 | Total |
|----------------|-----------|-----------|-----------|-----------|-------|
| Constant       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS/Book Value | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS/Book Value | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Constant       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |

| Variable       | 1980-1989 | 1990-1999 | 1980-1999 | 1990-1999 | Total |
|----------------|-----------|-----------|-----------|-----------|-------|
| Constant       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS/Book Value | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS/Book Value | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Constant       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Total          | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |

| Variable       | 1980-1989 | 1990-1999 | 1980-1999 | 1990-1999 | Total |
|----------------|-----------|-----------|-----------|-----------|-------|
| Constant       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS/Book Value | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS            | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| EPS/Book Value | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Constant       | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |
| Total          | 0.00      | 0.00      | 0.00      | 0.00      | 0.00  |

Table 1  
 Comparison of the results of the different methods for the estimation of the parameters of the model  
 (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (r) (s) (t) (u) (v) (w) (x) (y) (z)

|         | 1.0000 | 2.0000 | 3.0000 | 4.0000 | 5.0000 |
|---------|--------|--------|--------|--------|--------|
| 1.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 3.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 4.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 5.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 6.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 7.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 8.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 9.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 10.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

|         | 1.0000 | 2.0000 | 3.0000 | 4.0000 | 5.0000 |
|---------|--------|--------|--------|--------|--------|
| 1.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 3.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 4.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 5.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 6.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 7.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 8.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 9.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 10.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

|         | 1.0000 | 2.0000 | 3.0000 | 4.0000 | 5.0000 |
|---------|--------|--------|--------|--------|--------|
| 1.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 2.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 3.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 4.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 5.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 6.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 7.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 8.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 9.0000  | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 10.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Table 2: Summary of Results  
 Comparison of the proposed method with the existing methods for the solution of the problem.  
 Method: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z.

| Method   | A   | B   | C   | D   | E   |
|----------|-----|-----|-----|-----|-----|
| Method A | 100 | 100 | 100 | 100 | 100 |
| Method B | 100 | 100 | 100 | 100 | 100 |
| Method C | 100 | 100 | 100 | 100 | 100 |
| Method D | 100 | 100 | 100 | 100 | 100 |
| Method E | 100 | 100 | 100 | 100 | 100 |
| Method F | 100 | 100 | 100 | 100 | 100 |
| Method G | 100 | 100 | 100 | 100 | 100 |
| Method H | 100 | 100 | 100 | 100 | 100 |
| Method I | 100 | 100 | 100 | 100 | 100 |
| Method J | 100 | 100 | 100 | 100 | 100 |
| Method K | 100 | 100 | 100 | 100 | 100 |
| Method L | 100 | 100 | 100 | 100 | 100 |
| Method M | 100 | 100 | 100 | 100 | 100 |
| Method N | 100 | 100 | 100 | 100 | 100 |
| Method O | 100 | 100 | 100 | 100 | 100 |
| Method P | 100 | 100 | 100 | 100 | 100 |
| Method Q | 100 | 100 | 100 | 100 | 100 |
| Method R | 100 | 100 | 100 | 100 | 100 |
| Method S | 100 | 100 | 100 | 100 | 100 |
| Method T | 100 | 100 | 100 | 100 | 100 |
| Method U | 100 | 100 | 100 | 100 | 100 |
| Method V | 100 | 100 | 100 | 100 | 100 |
| Method W | 100 | 100 | 100 | 100 | 100 |
| Method X | 100 | 100 | 100 | 100 | 100 |
| Method Y | 100 | 100 | 100 | 100 | 100 |
| Method Z | 100 | 100 | 100 | 100 | 100 |

| Method   | A   | B   | C   | D   | E   |
|----------|-----|-----|-----|-----|-----|
| Method A | 100 | 100 | 100 | 100 | 100 |
| Method B | 100 | 100 | 100 | 100 | 100 |
| Method C | 100 | 100 | 100 | 100 | 100 |
| Method D | 100 | 100 | 100 | 100 | 100 |
| Method E | 100 | 100 | 100 | 100 | 100 |
| Method F | 100 | 100 | 100 | 100 | 100 |
| Method G | 100 | 100 | 100 | 100 | 100 |
| Method H | 100 | 100 | 100 | 100 | 100 |
| Method I | 100 | 100 | 100 | 100 | 100 |
| Method J | 100 | 100 | 100 | 100 | 100 |
| Method K | 100 | 100 | 100 | 100 | 100 |
| Method L | 100 | 100 | 100 | 100 | 100 |
| Method M | 100 | 100 | 100 | 100 | 100 |
| Method N | 100 | 100 | 100 | 100 | 100 |
| Method O | 100 | 100 | 100 | 100 | 100 |
| Method P | 100 | 100 | 100 | 100 | 100 |
| Method Q | 100 | 100 | 100 | 100 | 100 |
| Method R | 100 | 100 | 100 | 100 | 100 |
| Method S | 100 | 100 | 100 | 100 | 100 |
| Method T | 100 | 100 | 100 | 100 | 100 |
| Method U | 100 | 100 | 100 | 100 | 100 |
| Method V | 100 | 100 | 100 | 100 | 100 |
| Method W | 100 | 100 | 100 | 100 | 100 |
| Method X | 100 | 100 | 100 | 100 | 100 |
| Method Y | 100 | 100 | 100 | 100 | 100 |
| Method Z | 100 | 100 | 100 | 100 | 100 |

| Method   | A   | B   | C   | D   | E   |
|----------|-----|-----|-----|-----|-----|
| Method A | 100 | 100 | 100 | 100 | 100 |
| Method B | 100 | 100 | 100 | 100 | 100 |
| Method C | 100 | 100 | 100 | 100 | 100 |
| Method D | 100 | 100 | 100 | 100 | 100 |
| Method E | 100 | 100 | 100 | 100 | 100 |
| Method F | 100 | 100 | 100 | 100 | 100 |
| Method G | 100 | 100 | 100 | 100 | 100 |
| Method H | 100 | 100 | 100 | 100 | 100 |
| Method I | 100 | 100 | 100 | 100 | 100 |
| Method J | 100 | 100 | 100 | 100 | 100 |
| Method K | 100 | 100 | 100 | 100 | 100 |
| Method L | 100 | 100 | 100 | 100 | 100 |
| Method M | 100 | 100 | 100 | 100 | 100 |
| Method N | 100 | 100 | 100 | 100 | 100 |
| Method O | 100 | 100 | 100 | 100 | 100 |
| Method P | 100 | 100 | 100 | 100 | 100 |
| Method Q | 100 | 100 | 100 | 100 | 100 |
| Method R | 100 | 100 | 100 | 100 | 100 |
| Method S | 100 | 100 | 100 | 100 | 100 |
| Method T | 100 | 100 | 100 | 100 | 100 |
| Method U | 100 | 100 | 100 | 100 | 100 |
| Method V | 100 | 100 | 100 | 100 | 100 |
| Method W | 100 | 100 | 100 | 100 | 100 |
| Method X | 100 | 100 | 100 | 100 | 100 |
| Method Y | 100 | 100 | 100 | 100 | 100 |
| Method Z | 100 | 100 | 100 | 100 | 100 |

Table 2-3

Approximate Costs of Various Construction Activities, by District, by Season, by Month, by Activity, and by Material (in thousands of dollars)

| Activity          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|-------------------|-------------|-------------|-------------|-------------|-------|
| Excavation        | 100         | 100         | 100         | 100         | 400   |
| Foundation        | 100         | 100         | 100         | 100         | 400   |
| Structural Steel  | 100         | 100         | 100         | 100         | 400   |
| Roofing           | 100         | 100         | 100         | 100         | 400   |
| Interior Finishes | 100         | 100         | 100         | 100         | 400   |
| Exterior Finishes | 100         | 100         | 100         | 100         | 400   |
| Landscaping       | 100         | 100         | 100         | 100         | 400   |
| Utilities         | 100         | 100         | 100         | 100         | 400   |
| Other             | 100         | 100         | 100         | 100         | 400   |

| Activity          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|-------------------|-------------|-------------|-------------|-------------|-------|
| Excavation        | 100         | 100         | 100         | 100         | 400   |
| Foundation        | 100         | 100         | 100         | 100         | 400   |
| Structural Steel  | 100         | 100         | 100         | 100         | 400   |
| Roofing           | 100         | 100         | 100         | 100         | 400   |
| Interior Finishes | 100         | 100         | 100         | 100         | 400   |
| Exterior Finishes | 100         | 100         | 100         | 100         | 400   |
| Landscaping       | 100         | 100         | 100         | 100         | 400   |
| Utilities         | 100         | 100         | 100         | 100         | 400   |
| Other             | 100         | 100         | 100         | 100         | 400   |

Table 5.28

Participation of (contaminated) by the Northwest Processing Industry  
 (including LOP) in National milk program by region and quarter)

| By Region               | 1st Quarter |             |             |             | 2nd Quarter |             |             |             | Total   |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------|
|                         | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |         |
| Alaska (Quarter)        | (176)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (1,036) |
| Alaska (By)             | (76)        | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (1,036) |
| Alaska (By/Alaska)      | (400)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (1,036) |
| Alaska                  | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (1,036) |
| Alaska                  | (176)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (1,036) |
| Alaska (Alaska Quarter) | (176)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (1,036) |
| Alaska                  | (176)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (246)       | (1,036) |
| Total                   | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144) |

| By Region               | 1st Quarter |             |             |             | 2nd Quarter |             |             |             | Total    |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
|                         | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter |          |
| Alaska (Quarter)        | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144)  |
| Alaska (By)             | (400)       | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144)  |
| Alaska (By/Alaska)      | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144)  |
| Alaska                  | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144)  |
| Alaska                  | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144)  |
| Alaska (Alaska Quarter) | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144)  |
| Alaska                  | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (1,036)     | (4,144)  |
| Total                   | (4,144)     | (4,144)     | (4,144)     | (4,144)     | (4,144)     | (4,144)     | (4,144)     | (4,144)     | (16,576) |

**Table 2-36**  
**Purchases of Services by the Shoreside Processing Industry**  
**during 1993 (in dollars and percent, by region and quarter)**

| <b>By Percent:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b> |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| Alaska Peninsula     | 23%                | 38%                | 23%                | 15%                | 100%         |
| Bristol Bay          | 21%                | 28%                | 50%                | 1%                 | 100%         |
| Bering Sea/Aleutians | 25%                | 29%                | 25%                | 21%                | 100%         |
| Kenai                | 18%                | 37%                | 35%                | 10%                | 100%         |
| Kodiak               | 15%                | 28%                | 44%                | 12%                | 100%         |
| Prince William Sound | 12%                | 29%                | 52%                | 7%                 | 100%         |
| Southeast            | 14%                | 26%                | 41%                | 19%                | 100%         |

| <b>In Dollars:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b>      |
|----------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| Alaska Peninsula     | 940,990            | 1,530,050          | 936,380            | 617,580            | 4,025,000         |
| Bristol Bay          | 1,118,254          | 1,489,879          | 2,719,787          | 64,303             | 5,392,222         |
| Bering Sea/Aleutians | 873,036            | 1,012,546          | 872,012            | 735,867            | 3,493,462         |
| Kenai                | 469,878            | 975,236            | 927,216            | 251,352            | 2,623,683         |
| Kodiak               | 377,312            | 682,710            | 1,085,803          | 294,500            | 2,440,325         |
| Prince William Sound | 89,210             | 224,872            | 398,032            | 54,756             | 766,870           |
| Southeast            | 320,290            | 597,250            | 946,520            | 432,408            | 2,296,468         |
| <b>Total</b>         | <b>4,188,971</b>   | <b>6,512,544</b>   | <b>7,885,750</b>   | <b>2,450,766</b>   | <b>21,038,031</b> |

Table 2-37  
Purchases of Electricity by the Shorewide Processing Industry  
during 1993 (in dollars and percent, by region and quarter)

| By Percent:          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
| Alaska Peninsula     | 29%         | 26%         | 23%         | 23%         | 100%  |
| Brinsford Bay        | 13%         | 33%         | 20%         | 32%         | 100%  |
| Bering Sea/Aleutians | 47%         | 7%          | 9%          | 37%         | 100%  |
| Kenai                | 13%         | 23%         | 44%         | 21%         | 100%  |
| Kodiak               | 23%         | 24%         | 33%         | 19%         | 100%  |
| Prince William Sound | 22%         | 29%         | 28%         | 21%         | 100%  |
| Southeast            | 17%         | 21%         | 33%         | 27%         | 100%  |

| In Dollars:          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total      |
|----------------------|-------------|-------------|-------------|-------------|------------|
| Alaska Peninsula     | 35,852      | 32,292      | 28,517      | 28,517      | 125,178    |
| Brinsford Bay        | 112,958     | 310,954     | 178,834     | 290,046     | 892,792    |
| Bering Sea/Aleutians | 16,570      | 2,300       | 3,250       | 12,880      | 35,000     |
| Kenai                | 195,250     | 340,842     | 638,886     | 311,379     | 1,506,358  |
| Kodiak               | 1,068,516   | 1,037,503   | 1,416,816   | 813,787     | 4,336,621  |
| Prince William Sound | 312,986     | 407,099     | 402,606     | 302,678     | 1,425,370  |
| Southeast            | 370,009     | 452,364     | 743,902     | 585,971     | 2,154,266  |
| Total                | 2,112,141   | 2,603,375   | 3,434,812   | 2,345,237   | 10,495,583 |

**Table 2.38**  
**Purchases of Water by the Shoreline Processing Industry**  
**during 1993 (in dollars and percent, by region and quarter)**

| By Percent:          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
| Alaska Peninsula     | 10%         | 70%         | 5%          | 15%         | 100%  |
| Delicat Bay          | 14%         | 39%         | 43%         | 4%          | 100%  |
| Bering Sea/Alutians  | 33%         | 22%         | 17%         | 26%         | 100%  |
| Kodiak               | 15%         | 14%         | 51%         | 20%         | 100%  |
| Prince William Sound | 22%         | 23%         | 33%         | 21%         | 100%  |
| Southeast            | 20%         | 22%         | 36%         | 22%         | 100%  |
|                      | 19%         | 20%         | 33%         | 28%         | 100%  |

| To Dollars:          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total     |
|----------------------|-------------|-------------|-------------|-------------|-----------|
| Alaska Peninsula     | 6,000       | 42,000      | 3,000       | 9,000       | 60,000    |
| Delicat Bay          | 11,761      | 33,043      | 37,014      | 3,500       | 85,318    |
| Bering Sea/Alutians  | 197,218     | 122,741     | 94,830      | 143,034     | 559,822   |
| Kodiak               | 39,492      | 36,004      | 132,264     | 52,294      | 260,053   |
| Prince William Sound | 141,433     | 148,021     | 228,965     | 133,140     | 651,558   |
| Southeast            | 42,175      | 46,968      | 74,977      | 43,340      | 209,459   |
|                      | 69,021      | 74,874      | 120,074     | 103,667     | 367,634   |
| Total                | 507,118     | 503,630     | 691,122     | 493,974     | 2,195,864 |

**Table 2-39**  
**Purchases of Sewer Services by the Shoreline Processing Industry**  
**during 1993 (in dollars and percent, by region and quarter)**

| By Percent:          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total |
|----------------------|-------------|-------------|-------------|-------------|-------|
| Alaska Peninsula     | 0%          | 0%          | 0%          | 0%          | 0%    |
| Brinsford Bay        | 18%         | 45%         | 28%         | 8%          | 100%  |
| Bering Sea/Aleutians | 35%         | 22%         | 17%         | 26%         | 100%  |
| Kodiak               | 0%          | 60%         | 0%          | 40%         | 100%  |
| Prince William Sound | 24%         | 24%         | 24%         | 27%         | 100%  |
| Southeast            | 25%         | 26%         | 25%         | 25%         | 100%  |
|                      | 20%         | 21%         | 28%         | 31%         | 100%  |

| In Dollars:          | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Total   |
|----------------------|-------------|-------------|-------------|-------------|---------|
| Alaska Peninsula     | -           | -           | -           | -           | -       |
| Brinsford Bay        | 6,701       | 16,813      | 10,500      | 3,000       | 37,014  |
| Bering Sea/Aleutians | 48,809      | 30,680      | 23,707      | 36,258      | 139,454 |
| Kodiak               | -           | 1,680       | -           | 1,120       | 2,800   |
| Prince William Sound | 13,935      | 13,935      | 13,935      | 15,120      | 56,925  |
| Southeast            | 28,218      | 29,086      | 27,556      | 27,598      | 112,458 |
|                      | 16,365      | 16,618      | 22,618      | 25,411      | 81,012  |
| Total                | 114,029     | 108,811     | 98,316      | 108,508     | 429,664 |

**Table 2-40**  
**Purchases of Phone Services by the Shoreside Processing Industry**  
**during 1993 (in dollars and percent, by region and quarter)**

| <b>By Percent:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b> |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| Alaska Peninsula     | 24%                | 41%                | 16%                | 18%                | 100%         |
| Bristol Bay          | 9%                 | 25%                | 49%                | 16%                | 100%         |
| Bering Sea/Aleutians | 23%                | 19%                | 40%                | 18%                | 100%         |
| Kenai                | 13%                | 32%                | 36%                | 20%                | 100%         |
| Kodiak               | 21%                | 27%                | 36%                | 15%                | 100%         |
| Prince William Sound | 22%                | 39%                | 23%                | 16%                | 100%         |
| Southeast            | 13%                | 23%                | 47%                | 17%                | 100%         |

| <b>In Dollars:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b>     |
|----------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| Alaska Peninsula     | 63,976             | 108,687            | 42,289             | 48,489             | 263,440          |
| Bristol Bay          | 83,463             | 230,175            | 449,455            | 145,242            | 908,335          |
| Bering Sea/Aleutians | 70,745             | 59,510             | 122,722            | 55,991             | 308,968          |
| Kenai                | 20,966             | 51,784             | 58,959             | 32,312             | 164,021          |
| Kodiak               | 36,585             | 47,731             | 63,873             | 26,855             | 175,044          |
| Prince William Sound | 18,703             | 33,730             | 20,015             | 13,491             | 85,940           |
| Southeast            | 26,947             | 45,983             | 93,586             | 33,565             | 200,082          |
| <b>Total</b>         | <b>321,384</b>     | <b>577,601</b>     | <b>850,900</b>     | <b>355,944</b>     | <b>2,105,829</b> |

**Table 2-41**  
**Purchases of Trash Removal Services by the Shoreside Processing Industry**  
**during 1993 (in dollars and percent, by region and quarter)**

| <b>By Percent:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b> |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| Alaska Peninsula     | 19%                | 45%                | 16%                | 19%                | 100%         |
| Bristol Bay          | 9%                 | 45%                | 45%                | 1%                 | 100%         |
| Bering Sea/Aleutians | 29%                | 18%                | 35%                | 19%                | 100%         |
| Kenai                | 4%                 | 29%                | 63%                | 4%                 | 100%         |
| Kodiak               | 28%                | 19%                | 43%                | 11%                | 100%         |
| Prince William Sound | 17%                | 24%                | 36%                | 22%                | 100%         |
| Southeast            | 12%                | 14%                | 47%                | 27%                | 100%         |

| <b>In Dollars:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b>   |
|----------------------|--------------------|--------------------|--------------------|--------------------|----------------|
| Alaska Peninsula     | 22,000             | 51,900             | 18,900             | 22,000             | 114,800        |
| Bristol Bay          | 3,340              | 16,842             | 16,752             | 500                | 37,434         |
| Bering Sea/Aleutians | 55,516             | 34,655             | 67,221             | 35,853             | 193,244        |
| Kenai                | 192                | 1,389              | 3,016              | 192                | 4,788          |
| Kodiak               | 70,852             | 48,783             | 110,223            | 27,210             | 257,068        |
| Prince William Sound | 6,213              | 8,765              | 13,232             | 8,042              | 36,251         |
| Southeast            | 9,189              | 10,782             | 35,317             | 20,405             | 75,694         |
| <b>Total</b>         | <b>167,302</b>     | <b>173,114</b>     | <b>264,661</b>     | <b>114,201</b>     | <b>719,279</b> |

**Table 2-42**  
**Purchases of Other Services by the Shoreside Processing Industry**  
**during 1993 (in dollars and percent, by region and quarter)**

| <b>By Percent:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b> |
|----------------------|--------------------|--------------------|--------------------|--------------------|--------------|
| Alaska Peninsula     | 0%                 | 0%                 | 0%                 | 0%                 | 0%           |
| Bristol Bay          | 9%                 | 36%                | 36%                | 18%                | 100%         |
| Bering Sea/Aleutians | 0%                 | 0%                 | 0%                 | 0%                 | 0%           |
| Kenai                | 1%                 | 44%                | 17%                | 37%                | 100%         |
| Kodiak               | 28%                | 25%                | 36%                | 12%                | 100%         |
| Prince William Sound | 25%                | 25%                | 25%                | 25%                | 100%         |
| Southeast            | 0%                 | 40%                | 35%                | 25%                | 100%         |

| <b>In Dollars:</b>   | <b>1st Quarter</b> | <b>2nd Quarter</b> | <b>3rd Quarter</b> | <b>4th Quarter</b> | <b>Total</b>     |
|----------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| Alaska Peninsula     | -                  | -                  | -                  | -                  | -                |
| Bristol Bay          | 27,210             | 109,638            | 109,428            | 54,210             | 300,486          |
| Bering Sea/Aleutians | -                  | -                  | -                  | -                  | -                |
| Kenai                | 1,757              | 69,999             | 27,680             | 59,015             | 158,452          |
| Kodiak               | 355,839            | 316,105            | 455,722            | 154,905            | 1,282,570        |
| Prince William Sound | 42,500             | 42,500             | 42,500             | 42,500             | 170,000          |
| Southeast            | -                  | 6,214              | 5,437              | 3,884              | 15,534           |
| <b>Total</b>         | <b>427,306</b>     | <b>544,456</b>     | <b>640,767</b>     | <b>314,513</b>     | <b>1,927,042</b> |

**Table 2-43**  
**Summary of Shoreside Seafood Processing Impacts during 1993**  
**(by region)**

| 1st Quarter Total    | Average<br>Monthly<br>Employment | Total<br>Payroll  | Annual<br>Fringe Benefit<br>Costs at 30% | Total<br>Airfare<br>Cost | Total<br>Expenditures |
|----------------------|----------------------------------|-------------------|------------------------------------------|--------------------------|-----------------------|
| Alaska Peninsula     | 1,186                            | 4,708,180         | 1,412,454                                | 348,078                  | 6,468,712             |
| Bristol Bay          | 36                               | 171,015           | 51,305                                   | 339                      | 222,659               |
| Bering Sea/Aleutians | 4,735                            | 29,110,693        | 8,733,208                                | 923,341                  | 38,767,242            |
| Kenai                | 599                              | 3,013,351         | 904,005                                  | 4,823                    | 3,922,179             |
| Kodiak               | 1,361                            | 9,558,597         | 2,867,579                                | 421                      | 12,426,597            |
| Prince William Sound | 151                              | 990,038           | 297,011                                  | 14,221                   | 1,301,270             |
| Southeast            | 626                              | 2,771,845         | 831,554                                  | 5,037                    | 3,608,436             |
| Balance of State     | 1,253                            | 6,366,212         | 1,909,864                                | N/A                      | 8,276,076             |
| <b>Total</b>         | <b>9,947</b>                     | <b>56,689,931</b> | <b>17,006,979</b>                        | <b>1,296,261</b>         | <b>74,993,171</b>     |

| 2nd Quarter Total    | Average<br>Monthly<br>Employment | Total<br>Payroll  | Annual<br>Fringe Benefit<br>Costs at 30% | Total<br>Airfare<br>Cost | Total<br>Expenditures |
|----------------------|----------------------------------|-------------------|------------------------------------------|--------------------------|-----------------------|
| Alaska Peninsula     | 1,157                            | 4,734,770         | 1,420,431                                | 632,733                  | 6,787,934             |
| Bristol Bay          | 302                              | 2,563,463         | 769,039                                  | 194,306                  | 3,526,808             |
| Bering Sea/Aleutians | 2,825                            | 20,220,765        | 6,066,229                                | 403,589                  | 26,690,583            |
| Kenai                | 1,364                            | 6,324,553         | 1,897,366                                | 42,295                   | 8,264,214             |
| Kodiak               | 1,798                            | 8,663,643         | 2,599,093                                | 261,352                  | 11,524,088            |
| Prince William Sound | 598                              | 2,786,181         | 835,854                                  | 97,787                   | 3,719,822             |
| Southeast            | 1,410                            | 6,618,495         | 1,985,549                                | 157,224                  | 8,761,267             |
| Balance of State     | 1,150                            | 5,573,577         | 1,672,073                                | N/A                      | 7,245,650             |
| <b>Total</b>         | <b>10,604</b>                    | <b>57,485,447</b> | <b>17,245,634</b>                        | <b>1,789,285</b>         | <b>76,520,366</b>     |

**Table 2-43 (continued)**  
**Summary of Shoreside Seafood Processing Impacts during 1993**  
**(by region)**

| 3rd Quarter Total    | Average<br>Monthly<br>Employment | Total<br>Payroll   | Annual<br>Fringe Benefit<br>Costs at 30% | Total<br>Airfare<br>Cost | Total<br>Expenditures |
|----------------------|----------------------------------|--------------------|------------------------------------------|--------------------------|-----------------------|
| Alaska Peninsula     | 1,155                            | 12,173,040         | 3,651,912                                | 173,061                  | 15,998,013            |
| Bristol Bay          | 752                              | 7,614,463          | 2,284,339                                | 138,723                  | 10,037,525            |
| Bering Sea/Aleutians | 2,860                            | 18,507,529         | 5,552,259                                | 593,727                  | 24,653,514            |
| Kenai                | 2,316                            | 11,966,868         | 3,590,060                                | 56,195                   | 15,613,123            |
| Kodiak               | 2,431                            | 17,962,263         | 5,388,679                                | 175,702                  | 23,526,644            |
| Prince William Sound | 964                              | 4,967,624          | 1,490,287                                | 73,267                   | 6,531,178             |
| Southeast            | 3,234                            | 20,608,386         | 6,182,516                                | 208,982                  | 26,999,884            |
| Balance of State     | 1,842                            | 12,632,629         | 3,789,789                                | N/A                      | 16,422,418            |
| <b>Total</b>         | <b>15,555</b>                    | <b>106,432,802</b> | <b>31,929,841</b>                        | <b>1,419,656</b>         | <b>139,782,299</b>    |

| 4th Quarter Total    | Average<br>Monthly<br>Employment | Total<br>Payroll  | Annual<br>Fringe Benefit<br>Costs at 30% | Total<br>Airfare<br>Cost | Total<br>Expenditures |
|----------------------|----------------------------------|-------------------|------------------------------------------|--------------------------|-----------------------|
| Alaska Peninsula     | 437                              | 1,980,225         | 594,068                                  | 167,546                  | 2,741,839             |
| Bristol Bay          | 48                               | 284,674           | 85,402                                   | -                        | 370,076               |
| Bering Sea/Aleutians | 2,197                            | 18,918,285        | 5,675,486                                | 306,675                  | 24,900,446            |
| Kenai                | 326                              | 2,854,984         | 856,495                                  | 8,066                    | 3,719,546             |
| Kodiak               | 1,290                            | 6,357,468         | 1,907,240                                | 47,444                   | 8,312,152             |
| Prince William Sound | 222                              | 1,114,426         | 334,328                                  | 8,755                    | 1,457,508             |
| Southeast            | 940                              | 5,710,500         | 1,713,150                                | 42,908                   | 7,466,558             |
| Balance of State     | 759                              | 3,338,252         | 1,001,476                                | N/A                      | 4,339,728             |
| <b>Total</b>         | <b>6,218</b>                     | <b>40,558,815</b> | <b>12,167,644</b>                        | <b>581,394</b>           | <b>53,307,853</b>     |

**Table 2-44**  
**Shoreside Seafood Processing Impacts during the First Quarter, 1993**  
**(by region, by month)**

| <b>January</b>       | <b>Monthly<br/>Employment</b> | <b>Monthly<br/>Payroll</b> | <b>Fringe Benefits,<br/>Etc., @ 30%</b> | <b>Monthly<br/>Total</b> |
|----------------------|-------------------------------|----------------------------|-----------------------------------------|--------------------------|
| Alaska Peninsula     | 873                           | 1,242,621                  | 372,786                                 | 1,615,407                |
| Bristol Bay          | 46                            | 73,520                     | 22,056                                  | 95,577                   |
| Bering Sea/Aleutians | 3,933                         | 7,329,927                  | 2,198,978                               | 9,528,905                |
| Kenai                | 394                           | 660,323                    | 198,097                                 | 858,420                  |
| Kodiak               | 735                           | 1,720,688                  | 516,206                                 | 2,236,894                |
| Prince William Sound | 88                            | 191,902                    | 57,570                                  | 249,472                  |
| Southeast            | 557                           | 822,107                    | 246,632                                 | 1,068,740                |
| Balance of State     | 978                           | 1,656,333                  | 496,900                                 | 2,153,233                |
| <b>Total</b>         | <b>7,604</b>                  | <b>13,697,421</b>          | <b>4,109,226</b>                        | <b>17,806,648</b>        |

| <b>February</b>      | <b>Monthly<br/>Employment</b> | <b>Monthly<br/>Payroll</b> | <b>Fringe Benefits,<br/>Etc., @ 30%</b> | <b>Monthly<br/>Total</b> |
|----------------------|-------------------------------|----------------------------|-----------------------------------------|--------------------------|
| Alaska Peninsula     | 1,237                         | 1,214,032                  | 364,210                                 | 1,578,241                |
| Bristol Bay          | 28                            | 39,249                     | 11,775                                  | 51,024                   |
| Bering Sea/Aleutians | 5,162                         | 10,147,939                 | 3,044,382                               | 13,192,321               |
| Kenai                | 465                           | 632,600                    | 189,780                                 | 822,380                  |
| Kodiak               | 1,600                         | 3,028,466                  | 908,540                                 | 3,937,006                |
| Prince William Sound | 140                           | 177,927                    | 53,378                                  | 231,305                  |
| Southeast            | 665                           | 746,871                    | 224,061                                 | 970,932                  |
| Balance of State     | 1,439                         | 2,255,843                  | 676,753                                 | 2,932,596                |
| <b>Total</b>         | <b>10,736</b>                 | <b>18,242,927</b>          | <b>5,472,878</b>                        | <b>23,715,806</b>        |

| <b>March</b>         | <b>Monthly<br/>Employment</b> | <b>Monthly<br/>Payroll</b> | <b>Fringe Benefits,<br/>Etc., @ 30%</b> | <b>Monthly<br/>Total</b> |
|----------------------|-------------------------------|----------------------------|-----------------------------------------|--------------------------|
| Alaska Peninsula     | 1,449                         | 2,251,528                  | 675,458                                 | 2,926,986                |
| Bristol Bay          | 33                            | 19,942                     | 5,983                                   | 25,924                   |
| Bering Sea/Aleutians | 5,109                         | 11,632,827                 | 3,489,848                               | 15,122,675               |
| Kenai                | 939                           | 993,866                    | 298,160                                 | 1,292,026                |
| Kodiak               | 1,748                         | 3,555,741                  | 1,066,722                               | 4,622,463                |
| Prince William Sound | 226                           | 196,616                    | 58,985                                  | 255,600                  |
| Southeast            | 656                           | 589,410                    | 176,823                                 | 766,233                  |
| Balance of State     | 1,342                         | 2,343,884                  | 703,165                                 | 3,047,049                |
| <b>Total</b>         | <b>11,502</b>                 | <b>21,583,813</b>          | <b>6,475,144</b>                        | <b>28,058,957</b>        |

**Table 2-44 (continued)**  
**Shoreside Seafood Processing Impacts during the Second Quarter, 1993**  
**(by region, by month)**

| <b>April</b>         | <b>Monthly<br/>Employment</b> | <b>Monthly<br/>Payroll</b> | <b>Fringe Benefits,<br/>Etc., @ 30%</b> | <b>Monthly<br/>Total</b> |
|----------------------|-------------------------------|----------------------------|-----------------------------------------|--------------------------|
| Alaska Peninsula     | 1,240                         | 1,391,249                  | 417,375                                 | 1,808,624                |
| Bristol Bay          | 61                            | 172,595                    | 51,779                                  | 224,374                  |
| Bering Sea/Aleutians | 3,639                         | 8,225,578                  | 2,467,674                               | 10,693,252               |
| Kenai                | 811                           | 1,253,167                  | 375,950                                 | 1,629,117                |
| Kodiak               | 1,702                         | 2,733,689                  | 820,107                                 | 3,553,796                |
| Prince William Sound | 413                           | 641,412                    | 192,424                                 | 833,835                  |
| Southeast            | 1,147                         | 1,794,660                  | 538,398                                 | 2,333,059                |
| Balance of State     | 1,280                         | 2,067,878                  | 620,363                                 | 2,688,241                |
| <b>Total</b>         | <b>10,293</b>                 | <b>18,280,229</b>          | <b>5,484,069</b>                        | <b>23,764,298</b>        |
| <b>May</b>           | <b>Monthly<br/>Employment</b> | <b>Monthly<br/>Payroll</b> | <b>Fringe Benefits,<br/>Etc., @ 30%</b> | <b>Monthly<br/>Total</b> |
| Alaska Peninsula     | 915                           | 1,194,972                  | 358,491                                 | 1,553,463                |
| Bristol Bay          | 189                           | 181,936                    | 54,581                                  | 236,516                  |
| Bering Sea/Aleutians | 2,694                         | 6,695,490                  | 2,008,647                               | 8,704,137                |
| Kenai                | 1,097                         | 1,022,706                  | 306,812                                 | 1,329,517                |
| Kodiak               | 1,249                         | 1,585,711                  | 475,713                                 | 2,061,424                |
| Prince William Sound | 499                           | 565,854                    | 169,756                                 | 735,611                  |
| Southeast            | 1,282                         | 1,345,530                  | 403,659                                 | 1,749,189                |
| Balance of State     | 1,023                         | 1,203,413                  | 361,024                                 | 1,564,436                |
| <b>Total</b>         | <b>8,948</b>                  | <b>13,795,611</b>          | <b>4,138,683</b>                        | <b>17,934,294</b>        |
| <b>June</b>          | <b>Monthly<br/>Employment</b> | <b>Monthly<br/>Payroll</b> | <b>Fringe Benefits,<br/>Etc., @ 30%</b> | <b>Monthly<br/>Total</b> |
| Alaska Peninsula     | 1,316                         | 2,148,549                  | 644,565                                 | 2,793,114                |
| Bristol Bay          | 656                           | 592,541                    | 177,762                                 | 770,303                  |
| Bering Sea/Aleutians | 2,141                         | 5,299,696                  | 1,589,909                               | 6,889,605                |
| Kenai                | 2,185                         | 1,703,124                  | 510,937                                 | 2,214,061                |
| Kodiak               | 2,443                         | 2,528,707                  | 758,612                                 | 3,287,319                |
| Prince William Sound | 882                           | 787,380                    | 236,214                                 | 1,023,593                |
| Southeast            | 1,801                         | 1,398,886                  | 419,666                                 | 1,818,552                |
| Balance of State     | 1,147                         | 1,176,462                  | 352,939                                 | 1,529,400                |
| <b>Total</b>         | <b>12,571</b>                 | <b>15,635,345</b>          | <b>4,690,604</b>                        | <b>20,325,949</b>        |

**Table 2-44 (continued)**  
**Shoreline Seafood Processing Impacts during the Third Quarter, 1993**  
 (by region, by month)

| July                 | Monthly    |            | Monthly    |            | Fringe Benefits,<br>Exc., @ 30% |       | Monthly    |         |
|----------------------|------------|------------|------------|------------|---------------------------------|-------|------------|---------|
|                      | Employment | Payroll    | Employment | Payroll    | Exc., @ 30%                     | Total | Employment | Payroll |
| Alaska Peninsula     | 1,618      | 4,675,514  | 1,602,654  | 4,679,168  |                                 |       |            |         |
| Belizel Bay          | 1,818      | 6,136,123  | 1,840,837  | 7,976,969  |                                 |       |            |         |
| Bering Sea/Alutians  | 2,419      | 4,723,849  | 1,417,155  | 6,141,934  |                                 |       |            |         |
| Kodiak               | 3,502      | 6,032,528  | 1,809,758  | 7,842,286  |                                 |       |            |         |
| Prince William Sound | 3,132      | 7,712,888  | 2,313,867  | 10,026,755 |                                 |       |            |         |
| Southeast            | 1,076      | 1,848,898  | 554,669    | 2,403,567  |                                 |       |            |         |
| Balance of State     | 3,223      | 6,843,391  | 2,053,617  | 8,899,008  |                                 |       |            |         |
| Total                | 2,568      | 5,869,676  | 1,790,843  | 7,630,318  |                                 |       |            |         |
| Total                | 19,356     | 43,844,666 | 13,153,430 | 56,998,066 |                                 |       |            |         |

| August               | Monthly    |            | Monthly    |            | Fringe Benefits,<br>Exc., @ 30% |       | Monthly    |         |
|----------------------|------------|------------|------------|------------|---------------------------------|-------|------------|---------|
|                      | Employment | Payroll    | Employment | Payroll    | Exc., @ 30%                     | Total | Employment | Payroll |
| Alaska Peninsula     | 1,198      | 4,636,515  | 1,130,966  | 5,767,521  |                                 |       |            |         |
| Belizel Bay          | 364        | 5,644,938  | 1,693,481  | 7,338,489  |                                 |       |            |         |
| Bering Sea/Alutians  | 2,812      | 6,025,130  | 1,807,539  | 7,832,669  |                                 |       |            |         |
| Kodiak               | 2,627      | 7,230,022  | 2,175,007  | 9,423,029  |                                 |       |            |         |
| Prince William Sound | 2,795      | 8,630,631  | 2,529,185  | 10,959,846 |                                 |       |            |         |
| Southeast            | 1,163      | 2,703,485  | 811,945    | 3,514,430  |                                 |       |            |         |
| Balance of State     | 3,497      | 8,902,721  | 2,670,816  | 11,575,537 |                                 |       |            |         |
| Total                | 1,719      | 5,793,253  | 1,736,736  | 7,526,029  |                                 |       |            |         |
| Total                | 15,975     | 40,342,715 | 14,754,826 | 63,927,581 |                                 |       |            |         |

| September            | Monthly    |            | Monthly    |            | Fringe Benefits,<br>Exc., @ 30% |       | Monthly    |         |
|----------------------|------------|------------|------------|------------|---------------------------------|-------|------------|---------|
|                      | Employment | Payroll    | Employment | Payroll    | Exc., @ 30%                     | Total | Employment | Payroll |
| Alaska Peninsula     | 630        | 3,060,972  | 938,293    | 3,979,263  |                                 |       |            |         |
| Belizel Bay          | 74         | 3,636,873  | 1,037,062  | 4,693,923  |                                 |       |            |         |
| Bering Sea/Alutians  | 3,549      | 7,738,570  | 2,327,565  | 10,066,114 |                                 |       |            |         |
| Kodiak               | 1,018      | 6,830,543  | 2,042,863  | 8,872,405  |                                 |       |            |         |
| Prince William Sound | 1,367      | 5,773,634  | 1,752,030  | 7,019,664  |                                 |       |            |         |
| Southeast            | 632        | 2,936,438  | 880,321    | 3,817,269  |                                 |       |            |         |
| Balance of State     | 2,983      | 11,812,983 | 3,543,898  | 15,356,839 |                                 |       |            |         |
| Total                | 1,240      | 5,796,649  | 1,731,905  | 7,522,644  |                                 |       |            |         |
| Total                | 11,313     | 47,397,430 | 14,238,435 | 61,854,945 |                                 |       |            |         |

Table 2-44 (continued)  
 Chesapeake Seafood Processing Impacts During the Fourth Quarter, 1993  
 (by region, by month)

| October              | Monthly<br>Employment | Monthly<br>Payroll | Fringe Benefits,<br>\$100 | Monthly<br>Total |
|----------------------|-----------------------|--------------------|---------------------------|------------------|
|                      |                       |                    |                           |                  |
| Alaska Peninsula     | 546                   | \$1,302,563        | \$21,068                  | \$1,323,631      |
| Bristol Bay          | 23                    | \$104,776          | \$1,823                   | \$106,599        |
| Bering Sea/Vikotians | 2,462                 | \$5,222,846        | \$1,660,136               | \$6,882,982      |
| Kodiak               | 563                   | \$1,627,675        | \$21,302                  | \$1,648,977      |
| Kodiak               | 1,795                 | \$2,966,702        | \$42,911                  | \$3,009,613      |
| Prince William Sound | 322                   | \$239,817          | \$11,885                  | \$251,702        |
| Southwest            | 1,615                 | \$3,279,375        | \$41,113                  | \$3,320,488      |
| Balance of State     | 792                   | \$1,161,121        | \$24,539                  | \$1,185,660      |
| Total                | 8,124                 | \$16,457,082       | \$2,048,705               | \$18,505,787     |

| November             | Monthly<br>Employment | Monthly<br>Payroll | Fringe Benefits,<br>\$100 | Monthly<br>Total |
|----------------------|-----------------------|--------------------|---------------------------|------------------|
|                      |                       |                    |                           |                  |
| Alaska Peninsula     | 628                   | \$255,219          | \$18,656                  | \$273,875        |
| Bristol Bay          | 26                    | \$1,269            | \$1,875                   | \$3,144          |
| Bering Sea/Vikotians | 2,223                 | \$5,634,103        | \$1,681,223               | \$7,315,326      |
| Kodiak               | 213                   | \$667,679          | \$19,713                  | \$687,392        |
| Kodiak               | 1,092                 | \$1,213,238        | \$76,183                  | \$1,289,421      |
| Prince William Sound | 129                   | \$81,186           | \$7,355                   | \$88,541         |
| Southwest            | 606                   | \$2,871,827        | \$41,253                  | \$2,913,080      |
| Balance of State     | 675                   | \$1,061,946        | \$24,036                  | \$1,085,982      |
| Total                | 5,398                 | \$11,696,256       | \$1,508,877               | \$13,205,133     |

| December             | Monthly<br>Employment | Monthly<br>Payroll | Fringe Benefits,<br>\$100 | Monthly<br>Total |
|----------------------|-----------------------|--------------------|---------------------------|------------------|
|                      |                       |                    |                           |                  |
| Alaska Peninsula     | 224                   | \$231,146          | \$6,266                   | \$237,412        |
| Bristol Bay          | 25                    | \$12,879           | \$1,894                   | \$14,773         |
| Bering Sea/Vikotians | 1,227                 | \$2,790,228        | \$2,226,998               | \$5,017,226      |
| Kodiak               | 217                   | \$652,668          | \$26,753                  | \$679,421        |
| Kodiak               | 982                   | \$1,467,766        | \$46,223                  | \$1,513,989      |
| Prince William Sound | 114                   | \$42,783           | \$4,836                   | \$47,619         |
| Southwest            | 599                   | \$2,713,469        | \$1,713,149               | \$4,426,618      |
| Balance of State     | 813                   | \$237,277          | \$1,213                   | \$238,490        |
| Total                | 4,125                 | \$7,294,826        | \$2,049,257               | \$9,344,083      |



The figure shows a typical result of the analysis. The figure is a 3D plot of the data. The axes are labeled 'X', 'Y', and 'Z'. The 'X' axis ranges from -10 to 10, the 'Y' axis from -10 to 10, and the 'Z' axis from 0 to 10. The data is represented by a series of points that form a curved surface. The surface is highest at the center and slopes down towards the edges. The points are colored in a gradient from blue at the bottom to red at the top.

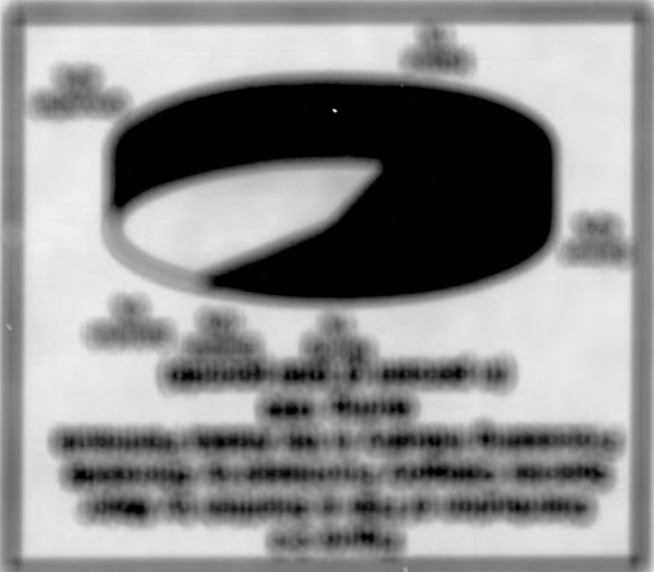


Figure 1. Example of a typical result.



Figure 2. Example of a typical result.

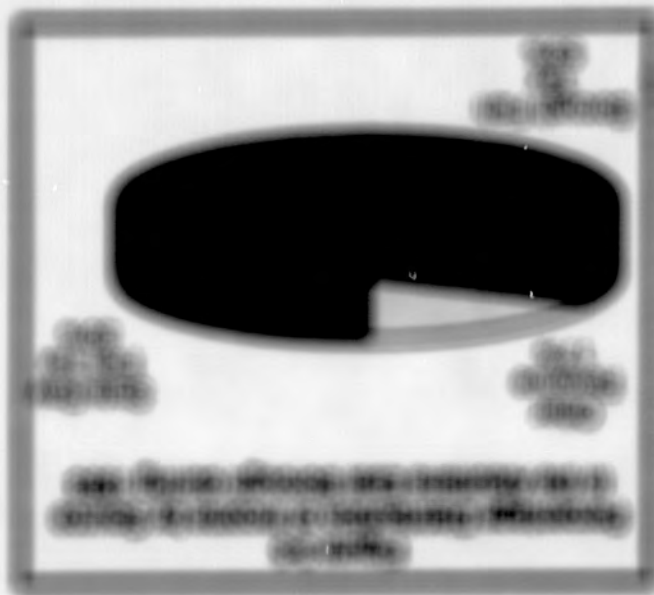


Figure 3. Example of a typical result.

The figure shows a typical result of the analysis. The figure is a 3D plot of the data. The axes are labeled 'X', 'Y', and 'Z'. The 'X' axis ranges from -10 to 10, the 'Y' axis from -10 to 10, and the 'Z' axis from 0 to 10. The data is represented by a series of points that form a curved surface. The surface is highest at the center and slopes down towards the edges. The points are colored in a gradient from blue at the bottom to red at the top.

The figure shows a typical result of the analysis. The figure is a 3D plot of the data. The axes are labeled 'X', 'Y', and 'Z'. The 'X' axis ranges from -10 to 10, the 'Y' axis from -10 to 10, and the 'Z' axis from 0 to 10. The data is represented by a series of points that form a curved surface. The surface is highest at the center and slopes down towards the edges. The points are colored in a gradient from blue at the bottom to red at the top.





Table 3.2  
 Estimated Impact of the Proposed Financing Package  
 on the Housing Market During the Second Quarter, 1990

| Description | By State (Percentages) | Total<br>Percentages | Total<br>Value | Total<br>Value |
|-------------|------------------------|----------------------|----------------|----------------|
|             |                        |                      |                |                |
| Housing     | By State (Percentages) |                      |                |                |
|             | Alabama                | 1.12                 |                |                |
|             | Arizona                | 1.12                 |                |                |
|             | California             | 1.12                 |                |                |
|             | Florida                | 1.12                 |                |                |
|             | Illinois               | 1.12                 |                |                |
|             | Indiana                | 1.12                 |                |                |
|             | Iowa                   | 1.12                 |                |                |
|             | Michigan               | 1.12                 |                |                |
|             | Minnesota              | 1.12                 |                |                |
|             | Missouri               | 1.12                 |                |                |
| Other       | By State (Percentages) |                      |                |                |
|             | Alabama                | 1.12                 |                |                |
|             | Arizona                | 1.12                 |                |                |
|             | California             | 1.12                 |                |                |
|             | Florida                | 1.12                 |                |                |
|             | Illinois               | 1.12                 |                |                |
|             | Indiana                | 1.12                 |                |                |
|             | Iowa                   | 1.12                 |                |                |
|             | Michigan               | 1.12                 |                |                |
|             | Minnesota              | 1.12                 |                |                |
|             | Missouri               | 1.12                 |                |                |
| Total       | By State (Percentages) |                      |                |                |
|             | Alabama                | 1.12                 |                |                |
|             | Arizona                | 1.12                 |                |                |
|             | California             | 1.12                 |                |                |
|             | Florida                | 1.12                 |                |                |
|             | Illinois               | 1.12                 |                |                |
|             | Indiana                | 1.12                 |                |                |
|             | Iowa                   | 1.12                 |                |                |
|             | Michigan               | 1.12                 |                |                |
|             | Minnesota              | 1.12                 |                |                |
|             | Missouri               | 1.12                 |                |                |