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The California Interindustry Fisheries (CIF) Model: An Input-Output Analysis of California Fisheries and Seafood Industries

Volume II

Working Paper No. P-T-6

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by

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A California Sea Grant College Program Working Paper

The California Sea Grant College Program is a statewide multi-university program of marine research, education, and advisory services, administered by the University of California, Institute of Marine Resources. Sea Grant-sponsored research contributes to the growing body of knowledge about our coastal and oceanic resources that is necessary to solve contemporary problems in the marine sphere. Through its Marine Advisory Program, Sea Grant transfers information and technology developed in research efforts to a wide community of users in California, the region and the nation. Sea Grant also supports a broad range of educational programs for university students, public school teachers and students, and the general public so our coastal and oceanic resources may be understood and judiciously used by this and future generations.

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Preface:

During 1980-81, the California Sea Grant College Program and fishing industry trade organizations sponsored an economic study of California fisheries and seafood industries. The purpose of the study was to identify and examine economic activities that link California fisheries with each other and with the rest of the state economy. The study resulted in an "input-output" model of California fisheries which has been called the California Interindustry Fisheries (CIF) Model. The results of the study are summarized in The California Interindustry Fisheries (CIF) Model: An Economic Impact Calculator for California Fisheries, Volume 1.

Volume II describes the CIF model in nontechnical language and explains how it can be used by government and industry decision-makers.

<u>Chapter | describes input-output analysis and illustrates how it is used.</u>
<u>Chapter | I describes the California Interindustry Fisheries (CIF) Model and how it was developed.</u>

<u>Chapter III</u> contains the results of an input-output analysis using the CIF model and presents output, income, and employment multipliers for each of 19 fish harvesting sectors and 9 fish processing sectors.

Chapter IV provides guidelines for using the CIF model to forecast direct, indirect, and induced economic impacts of changes that affect California fisheries and seafood industries. The CIF model and related technical information are presented in Appendices.

The California Sea Grant Working Paper Series was established to make preliminary data, techniques, and reports under publication consideration available to government agencies, industries, fishermen, and the public. In a working paper, neither the research results presented nor the publication itself has undergone critical peer review according to the guidelines of the publications policy of the California Sea Grant College Program. This report is being made available to determine the CIF model's validity and potential applicability in determining the economic value of our fisheries resources.

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CHAPTER ONE

The Basics of I-O Analysis

General Background

Firms in every industry are linked through their purchases and sales with firms in other industries and with households. Interindustry linkages and the impact of industrial activities on incomes, employment, and overall economic conditions are important but not always apparent. The purpose of an input-output model is to display direct and indirect economic linkages and measure impacts of changes or proposed changes in industrial activity. The CIF model is designed to show the economic linkages and impacts of California's fish harvesting and fish processing industries.

The theoretical foundation for input-output analysis rests with eighteenth century French economists but the technique was developed and refined during the 1950's by a Harvard University economist.

Wassily Leontief, who won the 1962 Nobel Prize for his work on I-O analysis. Since then I-O models that describe economic linkages in national economic systems have been developed routinely by industrialized and developing countries; they are used to assess the impacts of economic policies and to identify "bottlenecks" in industrial development plans. Special-purpose State and regional I-O models like the one described here for California fisheries are also common; they are usually designed to show the economic impact of specific industries and are used by policy analysts to evaluate economic trade-offs.

The purpose of an I-O model determines which industrial activities and economic linkages are emphasized, but all I-O models are fundamentally the same. The basic approach is to collect as much purchase and sales information as possible from each industry, describe where each industry buys inputs and sells outputs, and evaluate how changes in one industry will work their way through the economic system. The best way to understand I-O analysis is to consider the interindustry linkages in a very simple economy.

An Illustration of I-O Analysis

Consider a simple regional economy with only three industrial activities which we can call Sector A. Sector B. and Sector C. Table 1 describes such an economy by showing the dollar value of transactions among the three industries and between each of them and households in the region.

Reading down the column for each sector shows the value of goods and services purchased by the sector listed above the columns from each of the sectors listed along the rows. Reading across the row for each sector shows the value of goods and services sold by the sector listed along the row to each of the sectors listed above the columns. Imports, exports, and transactions with households are also shown in the I-O model.

The <u>shaded row</u>, for example, shows that Sector B sold \$3 to firms in Sector A, \$9 to other firms in Sector B, and \$8 to Sector C. It also shows that Sector B sold \$4 to households and exported \$1; total sales by Sector B were \$25.

The <u>shaded column</u> for Sector B shows the firms in that sector purchased \$5 from firms in Sector A, \$9 from other firms in Sector B.

and \$4 from firms in Sector C. Sector B also purchased \$2 from outside the region (imports) and \$5 from households. In this model some of the \$5 paid to households is in the form of profits (payments to the households that own businesses) as well as wages, rents, etc.. As a result the total purchases for Sector B are shown here to equal total sales.

Table 1 is referred to as a Transactions Table and it is the foundation of I-O analysis. It is also a useful starting point for production and marketing studies since it identifies where industries buy and sell and where economic activities are "leaking" outside the region because of imports.

From the Transactions Table it is a simple step to develop what is called a Technical Coefficients Table. It shows the direct dollar purchases which are required from each row sector for each dollar sales by each column sector. Table 2 shows the technical coefficients derived from Table 1. The numbers in the shaded columns show that per \$1 of sales, Sector B directly purchases \$.20 from Sector A, \$.36 from Sector B, and \$.16 from Sector C. Based on the assumption that an n-fold increase in the output by a given sector requires an n-fold increase in the purchase of inputs by that sector, the technical coefficients permits the determination of indirect input-output requirements.

The third table shown. Table 3, is called an Interdependency Coefficients Table. It shows the amount of sales generated directly and indirectly in each row sector by each dollar of sales by the column sector. Note from the above illustration that the purchase of \$.16 by Sector B from Sector C would also call for an additional

production of \$.04 (.16 x .25) by Sector C as well as \$.05 (.16 x .33) by Sector B, and so on. There are many additional rounds of indirect economic impacts and these are what are reflected in Table 3. It shows, for instance, that the end result of \$1 sales by Sector B is not just a \$.16 increase in sales by Sector C, as shown in Table 2, but a \$.69 increase. Given the input—output relationships in our illustrative economy, Table 3 shows that each \$1 of sales by Sector A, B, and C respectively increases total regional economic production by \$3.29, \$3.45, and \$3.42.

The direct, indirect, and induced economic impacts of changes in industrial activity can be expressed simply through MULTIPLIERS.

Output Multipliers and Income Multipliers can be developed directly from the Interdependency Coefficients Table 3 and additional employment statistics can be used to estimate Employment Multipliers. In each case there are two types of multipliers. Type I Multipliers which show the impact of interindustry transactions and Type II Multipliers which include those impacts and the effects of transactions with households. Because Type II Multipliers include an additional "round" of household spending, they are larger than Type I output, income and employment multipliers; both are normally presented with the results of an I-O analysis.

CHAPTER TWO

The CIF Model

An Overview

In most ways the CIF model is an enlarged version of the model in the illustration. The region under consideration is California and purchases and sales outside California are included in other value added and other final demand (Sector 65). The CIF model has 63 industrial sectors including 19 fish harvesting sectors, nine fish processing sectors, and 35 other industrial sectors which represent all nonfishery related industries in the state. An outline of the CIF model is presented in Table 4 and a list of the industrial sectors specified in the CIF model is shown in Table 5.

Sources of Data for the CIF Model

A 389-sector 1977 I-O model of the California economy was acquired from researchers involved in a project for the U.S. Forest Service; it included only four fishery related sectors (Fishing. Tuna canning. Other Fish canning. Other Fish packing). This model was updated to reflect 1980 transactions and the four fishery related sectors were replaced by the 19 fish harvesting and nine fish processing sectors. These were defined on the basis of interviews with industry representatives and state and federal fishery agency personnel. The nonfisheries sectors were then aggregated into 35 sectors using standard industrial classification (SIC) grouping procedures. (See Appendix B)

Detailed data about purchases and sales for each fish harvesting and fish processing sector were acquired from published sources, from

interviews with industry experts, and from an extensive mail survey of California fisheries and seafood industries. The Pacific Coast Federation of Fishermen's Associations (PCFFA) contributed to the study by administering a mail survey of fishing firms and by arranging interview with fishing industry experts for Sea Grant researchers. The California Seafood Institute (CSI) contributed by administering a mail survey of California fish processors, wholesalers, distributors, and restaurants and by arranging interviews for researchers to discuss survey results and market data with fish market experts.

At the final stage of data collection a two-day review session was attended by researchers and industry representatives at the offices of PCFFA. The purpose of the session was to summarize and evaluate the mail survey and interview results and compare them with published data and the subjective impressions of industry experts. In general the mail survey results from each sector were considered reasonable by researchers and industry representatives and unless otherwise specified, the transactions values and technical coefficients presented here were developed from mail survey data. Interview data and information from review sessions helped in the interpretation of mail survey data and ensured that it was used properly in developing the model.

The procedures for developing the CIF model are described in Appendix B which also contains copies of the survey instruments and itineraries used for data collection.

CHAPTER THREE

Results of the CIF Model

Intermediate Results

From survey results and extensive interviews with fishing industry representatives it was possible to develop tables which show the purchases and sales of fish and seafood by species group 3s well as by industrial sector. Tables 6, 7 and 8 were developed from catch statistics provided by fish harvesters and fish purchase data provided by fish processors. Table 6 shows the value of 1980 fish landings in California by species for each of the 19 harvesting sectors and Table 7 shows the value of 1980 fish purchases by species for each major fish buying group. Table 8 was derived from Tables 6 and 7 and shows the dollar transactions between each of the 19 fish harvesting sectors and each of the nine fish processing sectors.

Final Results

The CIF transactions table, technical coefficients table, and interdependency coefficients table are presented in Appendix C. However, most users will be more interested in the income, output, and employment multipliers that are presented for harvesting sectors in Tables 9a, 9b and 9c and for processing sectors in Tables 10a, 10b and 10c.

Interpretation of Results

Two issues should be emphasized before the multipliers are used to assess economic impacts: <u>First</u>, I=0 multipliers reflect interdependencies associated primarily with the use of inputs by each sector. Primary producing sectors, such as fish harvesting sectors.

however, create economic activity not so much by purchasing inputs, but by providing essential raw materials to fish processors. restaurants, etc. In order to fully describe California fisheries, it was necessary to separate harvesting from processing industries in a way that isolates the impact of each harvesting sector as a purchaser of inputs. However, the overall impact of fish harvesting activities in California is more appropriately measured using the multipliers for fish processors shown in Tables 10a, 10b and 10c which reflect backward linkages of fish harvesters and <u>fish</u> processors. The selection and appropriate use of CIF multipliers depends on what circumstances and what issues are being evaluated and guidelines are provided in the following chapter.

CHAPTER FOUR

Instructions for Using the CIF Model

The CIF model shows direct, indirect, and induced changes in economic production, personal income, and employment per \$ million in sales by each sector. To forecast the economic impact of specific changes in biological, economic, political, or regulatory conditions, the user is required to estimate how the planned or expected change will directly affect sales in one or more industrial sectors. The procedure for using the CIF model has four basic steps:

- Step 1 Estimate the expected change in direct sales for each relevant sector.
- Step 2 Look up output, income, and employment entries for each relevant sector using the per \$ million sales columns in Tables 9 and 10 (Columns 3, 4).
- Step 3 Multiply the expected change in sales for each sector

 (Step 1) by the appropriate entries obtained from Tables

 9 and 10 (Step 2).

An Example

Suppose that increased fishing by the northern California salmon/albacore vessels was expected to increase albacore landings by 2,000 tons. At 1980 prices, this means an increase in direct sales by Sector 11 of \$3.5 million. If this is not expected to have any impact on the value of landings by any other California fishery, the sequence of steps for evaluating economic impacts is as follows:

Step 1 Determines direct impact
(+ \$3.5 million sales by Sector 11)

Step 2 Find appropriate entries in Tables 9a, 9b, 9c:

Type of Impact	Output (\$ million)	<pre>Income (\$ million)</pre>	Employment (# jobs)	
Direct (D)	1.00000	•43754	76.90	
Direct & Indirect (D & I)	1.71981	.64096	85.51	

Step 3 Find economic impact by multiplying direct impact from Step 1 by entrie in Step 2:*

Estimated Impact of +\$3.5 sales in Sector 11

Type of Impact	Output (\$ million)	<pre>Income (\$ million)</pre>	Employment (# jobs)
Direct	3.5	1.5314	269
Direct & Indirect	6.0193	2.2434	299
Direct, Indirect & Induced	12.440	3.1140	344

^{*} If there is more than one direct effect, perform Step 2 and 3 for each sector and add results.

INTERPRETATION

If direct, indirect, and induced economic impacts are considered, a 2000-ton increase in albacore landings by California salmon/albacore trollers generates:

- \$12,440,000 in increased economic production in California
- \$ 3.114.000 in increased personal income in California
 344 new jobs in California

A Note of Caution: Garbage In - Garbage Out

The CIF calculator forecasts indirect and induced impacts on the basis of changes in sales that the user specifies in Step 1. If these changes in direct sales are inaccurate or incomplete, the CIF calculator will produce unreliable forecasts. Results from any specific application of the CIF calculator are only as dependable as the assumptions or estimates used in Step 1.

APPENDIX A

Mathematical Description of the CIF Model

The CIF model is a Leontief type static open input-output model. The estimated parameters in the CIF model are based upon survey data of 19 fish harvesting sectors and nine fish processing sectors. The balance of the model's parameters were estimated from secondary data. This appendix describes the CIF model in mathematical terms; the methods used to estimate the parameters of the model are presented in Appendix B. In combination, this appendix and Appendix B describe the technical aspects of what was discussed in general terms in the text.

The CIF model can be expressed in two balance equations which say essentially the same thing.

(1)
$$X_{i} = \sum_{j=1}^{63} X_{ij} + C_{i} + F_{i}$$
 for $i = 1, 2 \dots 63$

(2)
$$X_{j} = \sum_{i=1}^{63} X_{ij} + Y_{j} + M_{j}$$
 for $j = 1, 2 \dots 63$

Where i = j, $X_i = X_j$.

Definitions of terms in equations (1) and (2):

 $\mathbf{X}_{\mathbf{i}}$ is total output (sales) by each of 63 industries designated by the subscript \mathbf{i} .

 ${\rm X}_{\rm j}$ is total inputs (purchases) by the same 63 industries designated by the subscript j. When subscripts i, and j are used in combination, i represents the selling industry and j designates the

purchasing industry. X_{ij} therefore denotes the value of sales by industry i to industry j. When i and j refer to the same industry (i.e., i=j) $X_j=X_i$. That is, total inputs equal total outputs in each industry. (This is accomplished by assigning profits and losses to the household sector.) In the static Leontief model, X_{ij} includes only those sales which are "used up" in the current production period. Capital goods transactions are all included with F_i which is exageneous in the model. F_i also includes all government purchases except the endogenous government enterprises (sectors 61 and 62), and exports from California. C_i is California households' purchases from sector i. Y_j in equation (2) is income to California households received from sector j (where $j=1, 2, \ldots 63$ industrial sectors). M_j is all other inputs to each of the 63 sectors j, and includes, taxes, retained corporate profits and imports from outside California.

Equations (1) and (2) therefore account for all sales and all purchases in the California economy by each of the 63 industries, by California households and by all other buyers and sellers.

Analytical Properties of the CIF Model

Various levels of potential analytical capabilities can be obtained from the transactions described in equations (1) and (2). Each application requires assumptions which introduce limitations concerning the accuracy of analytical predictions. The simplist applications, which we have made in the text discussion assumes:

(1) that the interindustry input-output relationships are linear and homogeneous and;

(2) that in applications involving "induced" effects, the household income payments are linear and homogeneous with respect to the output of the income-paying industry.

(3) that household consumption expenditures are linear and homogenous with respect to total household income. These are standard assumptions in regional input—output analysis and are accepted as being viable.

The simplest form of the model uses equations (1) and (2), and closes the model only to X_{ij} with respect to the first assumption (equation (3) below) and to X_{ij} , Y_j and C_i under assumptions (2) and (equation (4) below); then, equation (1) can be rewritten as:

(3)
$$X_{i} - \sum_{j=1}^{63} A_{ij} X_{j} = C_{i} + F_{i}$$

Where $A_{ij} = \frac{X_{ij}}{X_{j}}$ are the elements of a 63 x 63 Technical Coefficients, Matrix A.

In Matrix algebra notation, equation (3) can thus be stated as

(4) X-AX = C + F

and solving for X.

(5)
$$X = (I - A)^{-1}(C + F)$$

Introducing the assumptions regarding household consumption ${\bf C_i}$ and household income, ${\bf Y_i}$, equation (3) can be restated as:

(3a)
$$X_{j} = \sum_{j=1}^{54} A_{jj}^{i} X_{j} + F_{j}$$

Where the 64th row and column of a is households income and expenditures respectively, defined as $A_{64j} = \frac{\gamma_j}{\chi_j}$ and A_{64i} is $\overline{p_I}$ where PI is total California personal income. In this case, the technical coefficients Matrix A is augmented to include households and is denoted as A*.

Then equation (4) can be rewritten as

$$(4a) X - A'X = F$$

and solving for X, equation (5) is rewritten as (5a) $X = (I - A)^{-1}F$

Given the assumptions, a generalized solution for a unit change in the exogeneous terms (ie. in equation (5) the exogeneous terms are C + F, and in equation (5a) the exogeneous term is F) is given by $(I - A)^{-1}$ and $(I - A')^{-1}$ respectively.

Specifically, the row sums of each column of $(I - A)^{-1}$ are called Type I sector specific output multipliers; and the row sums of each column of $(I - A')^{-1}$ are called Type II sector specific output multipliers. These values were shown in text tables 9a and 10a respectively.

Using these two forms of generalized solutions $(I-A)^{-1}$ and $(I-A^*)^{-1}$, along with the assumption that sector specific income/output relationships and employment/output relationships are linear and homogeneous, the equations can be used to develop Type I and Type II income and employment multipliers. By multiplying both sides of equations (5) and (5a) respectively by a diagonal Matrix of income output ratios, $\frac{\hat{Y}_j}{X_j}$, we obtain

(6)
$$\frac{\hat{Y}}{X}$$
 $X = \frac{\hat{Y}}{X}$ (I-A)⁻¹ (C+F) = Y

and

(6a)
$$\frac{\hat{Y}}{X} = \frac{\hat{Y}}{Y} = (I-A')^{-1} = Y$$

In this case, the row sums of each column of the Matrices obtained by the operations $\frac{\hat{Y}}{X}$ $(I-A)^{-1}$ and $\frac{\hat{Y}}{X}$ $(I-A^*)^{-1}$ are, respectively, the total direct and indirect, and the total direct, indirect, and induced income changes per unit (dollar) change in the exogeneous terms (C+F, and F respectively). By dividing these sums by the direct $\frac{Y}{X}$ ratio. Type I and Type II income multipliers are obtained. This simply changes the base of the calculations from a unit change in the exogenous term, to a unit change in direct income. The effect is the same, ie. it derives the total direct, indirect (and induced) income changes from an given exogeneous direct income change. Type I and Type II income multipliers are shown in text tables 9b and 10b.

Similarly, by multiplying both sides of equations (5) and (5a) respectively by a diagonal matrix of employment/output ratios, $\frac{\hat{E}}{X}$, we obtain

(7)
$$\frac{\hat{E}}{X} X = \frac{\hat{E}}{X} (I-A)^{-1} (C+F) = E$$

and

(7a)
$$\frac{\hat{E}}{X} X = \frac{\hat{E}}{X} (I-A^*)^{-1} F = E$$

In this case, the row sums of each column of the matrices obtained by the operations $\frac{\hat{E}}{X}$ $(I-A)^{-1}$ and $\frac{\hat{E}}{X}$ $(I-A^*)^{-1}$ are, respectively, the total direct and indirect, and the total direct, indirect and induced employment changes per unit (dollar) change in the exogeneous terms (C + F, and F respectively).

As with income, these values can be recast to change the base from a unit of direct change in the exogeneous term to a unit change in direct employment by dividing the aforementined row sums by the column heading direct ratio. This results in what are called Type I and Type II employment multipliers. These values are in text tables 9c and 10c.

APPENDIX B

Procedures for Estimating the CIF Model

I. Data Collection and Analysis

Input-output models require an enormous amount of economic data and the cost of acquiring primary data to estimate a model the size of the CIF model is prohibitive. As a result, primary data were collected to estimate only those transactions that involved fish harvesting and fish processing sectors; secondary sources were used to develop transaction figures for the nonfisheries sectors.

Attachment B-1 is a schematic diagram of the procedures used to develop the CIF model.

Model Specifications

The aggregation of fishing and fish processing activities into industrial sectors was made with the cooperation of industry advisors and on the basis of interviews with staff from the National Marine Fisheries Service (NMFS) and California Division of Fish and Game (CF and G). The current version of the CIF model contains 28 fishery oriented sectors (19 fish harvesting sectors and nine fish processing sectors) and can be respecified to provide more detail or more accuracy as data become available.

A 1977 I-O model of the California economy was being developed during the spring of 1981 by Engineering-Economics Associates under a contract with the U.S. Forest Service. The CIF model was developed first with an updated 1972 model provided by Cal-Div-Of Water Resources and was then respecified using the Forest Service model when

it became available. That model contained four fishery related sectors (fishing, tuna canning, other fish canning, and other fish packaging) which were replaced by our own 28 fishery oriented sectors. The other industrial sectors in the Forest Service model were aggregated into 35 nonfishery sectors using Standard Industrial Classification (SIC) grouping procedures, then updated to 1980.

The current version of the CIF model contains 19 fish harvesting sectors, 9 fish processing sectors and 35 nonfishery sectors. An additional row and column displays transactions with California Households and there is an "Other" Column and an "Other" Row to account for purchases and sales outside California and other exogenous transactions.

Data Collection - Nonfishery Sectors

The 1977 I-O model of the California economy was derived from the U.S. Forest Service Project which updated the 1972 national I-O model prepared by the U.S. Department of Commerce Bureau of Economic Analysis based on data from the U.S. Bureau of Labor Statistics (BLS) and the U.S. Department of Commerce (DOC). The sectors specified in the 1977 model are listed in Attachment 2 and the procedure for updating the 1977 model to reflect 1980 conditions is described below. All aggregation and update routines used price, output, and employment data from BLS and DOC.

Data Collection - Fishery Sections

Data used to develop transaction figures for the fishery sectors were collected from both primary and secondary sources. There were three main sources: a mail survey of California fish harvesters and fish processors, interviews with industry experts, and a review of published data and government publications.

The Mail Survey

For the survey of fish harvesters, a pair of fleet lists (computer tapes) was obtained from NMFS and the U.S. Coast Guard; these were used to develop a list of all commercial fishing vessels greater than 5 GRT. Fleet lists for fisheries with vessels less than 5 GRT were obtained from cooperating industry trade organizations.

In total, the names and addresses of owners of 3,500 commercial fishing vessels were compiled and each of them was mailed a copy of the survey instrument shown as Attachment 3 along with a cover letter from the Pacific Coast Federation of Fishermen's Associations and a return envelope. A follow-up letter and duplicate survey instrument was mailed after one month. The response rate for the mail survey of fish-harvesters was 20% and 630 usable questionnaires were received back for processing. The current version of the CIF model is based on 557 completed questionnaires; the rest fell outside the 19 sectors listed and will need special treatment to be incorporated into the CIF model. [1]

For the mail survey of fish processors a list of all firms with California fish-buying licenses was obtained from California Fish and Game. This included many small bait shops, aquaculture farms, etc., as well as fish processors, wholesalers, restaurants, etc. Attempts to distinguish between firms in each sector on the basis of industry lists and firm names were unsuccessful so all 750 firms on the fish-buying list were sent initial and follow-up copies of the survey

^[1] Approximately 73 usable questionnaires from fish harvesters were classified in an "other" category and were not processed. It has been determined that these are primarily rod and reel fishing vessels, hooker boats, squid light-broilers, but these could not be included in this version of the CIF model. (See Attachment 4)

instrument shown in Attachment 5, along with a cover letter from the California Seafood Institute. The decision to mail to all 750 firms lowered the response rate for the survey of fish processors. The 68 returned questionnaires represented 9% of the total number mailed, but responding firms accounted for approximately 40-60% of 1980 raw-fish purchases in California.

Interviews

While the mail surveys were underway, researchers conducted face-to-face interviews with industry experts representing each fishery section. Cooperating industry representatives identified two experts for each fish harvesting and fish processing sector and arranged interview sessions where researchers obtained additional purchase and sales data and other relevant information to supplement the mail survey and secondary data. The protocol used to conduct these interviews is outlined in Attachment 6.

Data Processing

A private surveying company, Copley International Corporation (CIC), was contracted to code, edit, and collate the returned questionnaires. The summary of procedures used by CIC is provided as Attachment 7.

The mail surveys, interviews, and the review of secondary sources provided an extensive and sometimes conflicting data base for estimating interindustry transactions. After preliminary data analysis, a "data revew session" was organized where researchers and government and industry representatives evaluated data from the three sources and reconciled conflicts. The two-day session was held at PCFFA offices in Sausalito and was funded with a supplemental grant

Figure 8-1
Nine Basic Components of the CIF Transactions Table

	Purchases by 19 Fish Hervesting Sectors	Purchases by 9 Fish Processing Sectors	Purchases by The Remainder of 36 Sectors of The Economy	Other Final Dessand
19 Fish Harvesting Sectors to all Sectors	19 x 19 Sales by 19 Fish Harvesters to 19 Fish Harvestors T-1	19 x 9 Sales by 19 Fish Harvesters to 9 Fish Processors T-2	19 x 36 Selea by 19 Fish Harvesters to 36 Remaining Sectors of The California Economy including Households T-3	Sales by 19 Fish Harvesters to all other buyers Sales by 9 Fish Processors to all other buyers
9 Fish Processing Sectors Sales to all Sectors	9 x 19 Sales by 9 Fish Processing Sectors to 19 Fish Harvesting Sectors T=8	9 x 9 Sales by 9 Fish Processors to 9 Fish Processors	9 x 36 Sales by 9 Fish Harvestors to 36 Remaining Sectors of the California buyersincluding Households T=6	
36 Remaining Economic Sectors Seles to All Sectors	36 x 19 Purchased Inputs by 19 Fish Hervesters from 36 Remaining Sectors of the California Economy including Households T-7	36 x 9 Purchased Inputs by 9 Fish Processors from 36 Remaining Sectors of the California Economy including Households T-8	36 x 36 Interindustry Transactions Between the Remaining 36 Sactors of the California Economy including Households T-9	Sales by 36 Remain- ing Sec- tors of California Economic to all other buyers
Other Value Added	All other purchased inputs by 19 Fish Harvesters including Taxes and Imports	All other purchased inputs by 9 Fish Processors including Taxes and Imports	All other purchased inputs by 9 Fish Processors including Taxes and Imports	

from the National Marine Fisheries Service; the agenda for the review session is presented as Attachment 8.

The judgement of the researchers and the results of the data review session indicated that the mail survey data provided the most reliable transactions information for all but a few sectors. Computer programs for sorting and aggregating questionnaire data and converting "expense" estimates from the questionnaires into transactions figures for the CIF model are available from California Sea Grant or the Center for Marine Studies at San Diego State University. [2]

In constructing the CIF model, the transactions table (a 65 x 65 matrix) was viewed as a set of nine smaller sub-matrices, as shown in Figure B-1. The way the CIF model was specified, the output by each fish harvesting sector is shown to reach the ultimate consumer through one or more of the fish processing sectors. As a result T-1 (a 19 x 19 matrix) and T-3 (a 19 x 36 matrix) are assumed to be null matrices; that is all zeros. All direct sales by fish harvesters appear in T-2 (a 19 x 9 matrix) which shows California fish purchases by fish processors. The sale of California seafood to households and

The development of each of the nine sub-matrices took place as follows:

by California fish processors.

outside California is shown in T-6 (a 9 x 36 matrix) which shows sales

^[2] Survey questions dealing with input costs were asked in familiar cost accounting expense categories to encourage respondents to provide as much detail as possible; these responses were then translated into input purchase data for the CIF model. Computer programs are available that translate raw survey data into input purchase/sales data and aggregate by sector to provide sample averages and totals which can be scaled up to full transactions estimates using Sector Control Totals.

T-1 Fish Harvesting Sector Sales to Other Fish Harvesting Sectors (19 x 19)

In the current version of the CIF Model, fish harvesting sectors are shown to make all direct fish sales to one or more of the fish processing sectors (See T-2). T-1 is therefore a 19 x 19 Null Matrix.

T-2 Fish Harvesting Sector Sales to Fish Processing Sectors (19 x 9)

This sub-matrix shows the major interindustry linkages between fish harvesters and fish processors and is assumed to be the first stage in the distribution of harvested fish to the ultimate consumer. Estimating each element of this 19 x 9 section of the model was a major component of the overall study. It involved the following steps.

- Step (1) Survey 19 fish harvesting groups to estimate each group's purchases of the 13 species.
- Step (2) Survey nine fish processing groups to estimate each group's purchases of the 13 species.
- Step (3) Array information from Step (1) into a 19 x 13 "Make" Table (Harvester/Specie) according to the mean value species harvested from the sample survey responses on tons of fish purchased weighted by \$ value per ton from secondary data.
- Step (4) Array information from Step (2) into a 13 x 9 "Use"

 Table (Specie/Processor) according to the mean value (specie purchase) from sample survey responses on tons of fish purchased weighted by \$ value per ton from secondary data.
- Step (5) Expand the mean values in the "Make" Table to total specie landings based on NMFS data.

Step (6) Expand the mean value of specie purchases to the total species landings based on NMFS data.

Step (7) Derive harvester to processor transactions by assuming a constant proportion of species landed by harvester to a constant proportion of the specie purchased by the processor. (i.e. if the harvester (1) caught 40% of specie A and harvester (2) caught the other 60%, then each processor purchasing specie A was assumed to buy 40% from harvester (1) and 60% from harvester (2).

Mathematically the three stages of development of the T-2 Section are as follows:

- (1) Qik = The mean quantity of the kth specie landed by the ith harvester based on the harvester survey responses where i = 1, 2...19 and k = 1, 2,...13.
- (2) Qkj = The quantity of the kth specie purchased by the jth processor based on the processor survey responses.
- (3) Pk = The average price per ton of specie k.

 Transformation of Mean Quantity to Mean Dollar Values
- (4) Xik = PkQik = Mean value of specie k landed by harvester i.
- (5) Xkj = PkQkj = Mean value of specie k purchased by processor j.

 Expansion of Mean Values by Specie Control Totals, Ck
- (6) Xik = PkQik. Ck For k = 1, 2, ... 13, = "Make" Table
- (7) Xkj = PkQkj . Ck For k = 1, 2....13, = "Use" Table

 Transformation of "Make" and "Use" Tables to Harvester Sales to
 Processors, Xij.
- (8) Xij = Xik * Xkj For i = 1, 2...19 and j = 1, 2....9, and k = 1, 2....13.

T-3 Fish Harvesting Sector Sales to Nonfishery Sectors, Households and outside California (19 \times 36)

In the current version of the CIF model fish harvesting sectors are shown to make all direct sales to one or more of the fish processing sectors (See T-2). Therefore, T-3 is a 19 X 36 Null Matrix.

T-4 Fish Processing Sector Sales to Fish Harvesting Sectors (9 x 19)

Estimates of bait purchases by lobsert/crabbers (Sectors 14, 15) from wholesaler, processors, distributors (Sectors 20-22) were obtained from the mail survey (See Section 9 of Attachment B-1) and from interviews with industry experts. The distribution of bait sales by various size wholesalers, processors and distributors was based on the distribution of sample sales for Sectors 20-22. With the exception of these bait sales T-4 is a null matrix; that is Xij = 0 where i = 20, 21, 22 and j = 14,15

$\underline{\text{T-5}}$ Fish Processing Sector Sales to Other Fish Processing Sectors (9 x 9)

Data for estimating sales among fish processing sectors (Sectors 20-28) were obtained from the mail survey (See Section 3) of Attachment B=2) and from interviews with industry experts.

Three additional assumptions were used to allocate intersectoral transactions in submatrix T-5; they are

(1) Retail markets, seafood restaurants and other eating and drinking places (Sectors 25-27) purchase California fish from wholesalers, processors and distributors and brokers (Sectors 20-23) in proportion to the relative size of sample sales by those sectors and do not buy directly from fish harvestors.

- (2) California-based tuna canners (Sector 24) buy all their nonimported fish supplies directly from California fish harvesters.
- (3) The California canned tuna market is supplied totally by California-based tuna canners (Sector 24).

T-6 Fish Processing Sector Sales to Nonfishery Sectors, California Households and Outside California and other Final Demand (9 x 37)

Data for estimating Γ -6 were obtained from the mail survey (See Section 3 of Attachment B-4) and from interviews with industry experts.

Three additional assumptions were used to allocate sector sales in T-6. They are:

- (1) All sales by fish processors, wholesalers and distributors (Sectors 20 -22) that are not made to other fish processing sectors within California (Sectors 23-28) are sold outside California. That is Xij = 0 where i = 20...22 and j = 29...63.
- (2) Seafood restaurants (Sector 25) serve the same percentage of out-of-state consumers as other eating and drinking establishments in California (Sector 26).
- (3) Seafood markets (Sector 27) sell the same percentage to out-of-state residents as other Retail Traders (Sector 57)
- T-7 Fish Harvesting Sector Purchases From Nonfishery Sectors.

 Households and From Outside California and Other Value Added

 Data for estimating T-7 were obtained from the mail survey (See

Attachment B-4). Survey data were converted from standard accounting (expense) categories to input purchase distributions using the procedure described in Attachment B-5.

Secondary data from previous studies were used as a check against survey results but were only used in the estimating procedure for the tuna purse seiner sector (Sector 5).

Cost Distribution estimates from mail survey data were reviewed by industry and government representatives before they were used to develop T-7.

T-8 Fish Processing Sector Purchases From Nonfishery Sectors. Households and From Outside California and other value added

Data for estimating T-8 were obtained from the mail survey (See Attachment B-5). Survey data were converted from accounting (expense) categories to input purchase described in Attachment B-5.

Secondary data from previous studies were used as a check against survey results but were only used in estimating procedures for tuna canners (Sector 25).

Transaction estimates for other eating and drinking establishments (Sector 26) and food and kindred processors were available from the 1977 I-O model updated to 1980. The update procedures are described in the following section (T-9).

T-9 Nonfishery Interindustry Transactions

The balance of the CIF model was developed using the 1972 476 sector National input-output model, updated to 1977 using the RAS Technique (Richard Stone) with 1977 economic census data developed specifically for this purpose in a project by the U.S. Forest Service. The Forest Service project also developed a state summary tape file

which included all final demand and value added components of the National Model disaggregated to the state level. This file also included state level employment by sector.

The 1977 California Model was derived from this information using the simple location quotient (SLQ) technique. The SLQ technique obtains balanced subnational models from National technical coefficients and ratios of the relative shares of subnational area employment to National employment.

The 1977 476 sector California input-output model was updated to 1980 using the following procedure.

- (1) The $\underline{1977}$ California Transactions Table sectors were aggregated to $\underline{38}$ sectors to conform to sector definitions we judged most useful in the CIF context.
- (2) The <u>38</u> sector 1977 transaction data were updated to 1980 for price and real production changes that occurred between 1977 and 1980.
- (3) The four fish harvesting and processing activities were then deleted from the 1980 38 sector model so that it could be merged with the survey estimates of fish harvesting and processing without double counting, resulting in the 34 nonfishing sectors to be added to the 19 fish harvesters and nine fish processing sectors to arrive at the final transactions table.

The final step in the overall procedure involved merging the nine components to the single transactions table described in the text. Standard row/column checks were performed on the merged components to make sure everything in the model balanced. Then the procedures described in Appendix A were performed to derive the analytical input—output tables from which the multipliers were obtained.

Mathematical Description of the Update Procedure

Definitions

(1) Sales by industry i to industry j. Xij in 1977 (based upon the aggregated 1977 California I=0 model) equals price in 1977 dollars of the ith good Pi⁷⁷ times the quantity of the ith good sold to sector j in 1977, Qij⁷⁷.

Update Procedure

(2)
$$x_{ij}^{80} = (\frac{P_i^{80}}{P_i^{77}}) * (\frac{Q_j^{80}}{Q_j^{77}}) * (x_{ij}^{77})$$
For i, j = 1,2...38

where $\frac{p_{i}^{80}}{\frac{p_{i}^{77}}{p_{i}^{77}}}$ is a price index for commodity i with base year Pi⁷⁷ = 1.0 and $\frac{Q_{j}80i^{77}}{Q_{j}^{77}}$ is a production index for commodity j with base year Q_{j}^{77} = 1.0.

The production index was based in part on California employment data and national productivity data. The following formula was used to derive a production index from these related data.

(3)
$$\frac{\text{Cal } Q_{\mathbf{j}}^{80}}{\text{Cal } Q_{\mathbf{j}}^{77}} = \frac{(\text{NQ}_{\mathbf{j}}^{80}/\text{NE}_{\mathbf{j}}^{80})}{\text{NQ}_{\mathbf{j}}^{77}/\text{NE}_{\mathbf{j}}^{77}} * \frac{\text{Cal } E_{\mathbf{j}}^{20}}{\text{Cal } E_{\mathbf{j}}^{17}}$$

Which is to say, the California Production index for Commodity j. Cal $0^{80}_{\hat{j}}$, was approximated using an index of change in National Cal $0^{77}_{\hat{j}}$. labor productivity, $(\frac{NQ_{\hat{j}}^{80}/NE_{\hat{j}}^{90}}{NQ_{\hat{j}}^{77}/NE_{\hat{j}}^{77}})$, times an index of employment change in California from 1977 to 1980 for sector j.

The components of the nonfishery sectors and the classifications used in the aggregation procedures are shown in Attachment 1.

Table 1.

Illustrative Input-Output Transactions Table (in Millions of Bollars)

	Proc	cessing Sec	tor	<u> </u>		
	Industry A	Industry B	Industry C	Exports	House- Holds	Total Sales
Processing Sector		أهمسا				
Industry A	10	5	3	1	12	31
Industry B	γ 3	9	8	1,	4	25
Industry C	8	4	6	3	3	24
Payments Sector		•				
Imports	6	2 ;	1	0	4	13
Rouseholds	4	5	6	0	4	19
Total Purchases	31	25	24	5	27	112

Table 2

Illustrative Input-Output
Technical Coefficients Table

	Industry A	Industry B	Industry C
Industry A	. 32	-20	.13
Industry B	.10	.36	.33
Industry C	.26	. 26	.25

Table 3

Illustrative Input-Output
Interdependency Coefficients Table

	Industry A	Industry B	Indus try C
Industry A	1.82	.73	.64
Industry B	.69	2.03	1.01
Industry C	.78	.69	1.77
Total	3.29	3.45	3.42

TABLE 4
OUTLINE OF THE CALIFORNIA INDUSTRY FISHERIES (CIF) MODEL

FISH MARVESTING SECTORS 10 SECTORS 19 SECTORS 29 SECTOR					,		·
FISH HARVESTING SECTORS 1. 19. FISH PROCESSING SECTORS 20. 28. CALIFORNIA NON-FISHERY SECTORS 29.		HARVESTING SECTORS	PROCESSING SECTORS	NON-FISHERY INDUSTRIES	HOUSEHOLDS	SALES	SALES
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TABLES: LIST OF INDUSTRIAL SECTORS IN THE CIF MODEL

FISH HARVESTING SECTORS

SECTOR	<u>!</u>	SECTOR #	· -
1.	Groundfish Trawlers, N.	11.	Salmon/Albacore
2.	Groundfish Trawlers, S.	12.	Long-Liners
3.	Shrimp Trawlers	13.	Black Cod Pots
4.	Tuna Purse-Seiners	14.	Crab/Lobster, N.
5.	Wetfish Seiners	15.	Crab/Lobster, S.
6.	Herring Gillnetters	16.	Baitboats, Tuna
7.	Other Gillnetters	17.	Jigboats, Tuna
8.	Small Salmon Trollers	-18.	Diveboats
9.	Large Salmon Trollers	19.	Harpoon, Billfish
10.	Salmon/Crabbers		• •

FISH PROCESSING SECTORS

SECTOR #		SECTOR #
21. 22.	Fish Whsl., Proc., Dist., Sm. Fish Whsl., Proc., Dist., Med. Fish Whsl., Proc., Dist., Lg.	25. Seafood Restaurants26. Other Eat And Drink27. Seafood Markets
23. 24.	Fish Import/Export Brokers	28. Other Food and Kindred Products

NON-FISHERY SECTORS

SECTOR	<u>#</u>	SECTOR #	<u> </u>
29.	Forestry and Other Fishing	47.	Textiles
30.	Forestry/Fish Services	48.	Apparel
31.	Patfood	49.	Paper
32.	Animal and Marine Fats	50.	Printing
33.	Ship and Boat	51.	Chemical
34.	Motor Freight	52.	Petroleum
35.	Agricultural	53.	Rubber and Plastics
36.	Mining	54.	Leather
37.	Construction	55.	Telephone and Public Utilities
38.	Lumber	56.	Wholesale Traders
39.	Furniture	S7.	Retail Traders
40.	Glass, Stone, Clay	58.	Insurance
41.	Metal	59.	Finance
42.	Non-Electric Machines	60.	Services
43.	- Electric Equipment	61.	Federal Government
44.	Transportation Equipment	62.	State and Local Governments
45.	Instruments	63.	Scrap Industries
46.	Miscellaneous Mfg. Goods		·

TABLE 6: 1980 California Landings by Species & Harvesting Sector (000\$)

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														-	17.	:	116.06	18.868	000.0	649.764	162.263	0,000	59.151	21,748	2162.522	43.86B	0.000	0,00	0.01	3209.109
	247,993													29105,319	16.		000.0	0.00	0000	0000	40.281	000.0	115.199	0.00	0430.910	0.00	0.00	000.0	0,000	0586.380
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SPECIES	CRUSTACEANS	MOLLUSCS	FLATFISH	RETFISH	SABLE/ROCK FISH	SHARK/RAY/SKATE	SACHON	HS1 1 I I I I	1111	900	00 d	PERCE	OTHER	TOTAL	SPECIES		CRUSTACEANS	MOLLUSKS	FLATFISH	METERISH	SABLE/ROCK FISH	SHARK/BAT/SKATE	SALMON	BILLFISH	TUNA	dob	BASS	PERCH	OTHER	TOTAL

HARVESTING SECTOR

Salmon/Albacore Troller	Long-Liners		Crab/Lobster, Worthern		Baitboats				
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Groundfish Trawl M.	Groundish Trawl S.								
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TABLE 7 : PROCESSOR/SPECIES USE TABLE

California Fish Purchases by Species for Fish Processing Sectors (in Thousands of Dollars) (Includes only direct purchases from California Harvestors)

		FISH PROC	ESSING SECTO	ORS (by Numbe	er)		TOTAL
	20.	21.	22.	23.	24.	25-28*	PURCHASES
SPECIES				· - · · · · · · · · · · · · · · · · · ·	<u> </u>		· · · · · · · · · · · · · · · · · · ·
CRUSTACEANS	267.500	2352,200	4958.300	0.000	0.000	0.000	7578,000
MOLLUSKS	313.100	2753.200	5803.500	71.200	0.000	0.000	8941.000
FLATFISH	307.100	2700.500	5692.400	0.000	0.000	0.000	8700, 0 00
JETFISH	0.000	0.000	0.000	19081.000	21352.000	0.000	40433.000
SABLE/ROCK FISH	445.600	3917.900	8258.500	1040.000	0.000	0.000	13662,000
SHARK/RAYS/SKATES	251.400	2210,400	4659.200	0.000	0.000	0.000	7121.000
SALMON	464.100	4081.200	8602.700	0.000	0.000	0.000	13148.000
BILLFISH	123.800	1088,600	2294.600	0.000	0.000	0.000	3507.000
TUNA	1.960	984.900	681.100	0.000	216055.094	0.000	217723.000
COD	3,090	27.160	57.250	0.000	0.000	0.000	87.500
BASS	0.700	6.200	13.100	0.000	0.000	0.000	20.000
PERCH	54.200	477.100	1005.700	0.000	0.000	0.000	1537.000
THER	0.200	1,500	8.300	0.000	0.000	0.000	5,000
IOTAL	2232.750	20600.859	42029.660	20192.199	237407.094	0.000	322462.500

FISH PROCESSING SECTORS

- 20. Small Wholesalers, Processors, Distributors
- 21. Medium Wholesalers, Processors, Distributors
- 22. Large Wholesalers, Processors, Distributors
- 23. Import/Export Brokers
- 24. Tuna Canners

- 25. Seafood Restaurants
- 26. Other Eat and Drink
- 27. Seafood Markets
- 28. Other Food and Kindred Products

NOTE: It is assumed for the CIF Model that Other Fish Processors (Sectors 25-28) buy all fish products from Wholesalers, Processors, Distributors and Import/Export Brokers (Sectors 20-23).

TABLE 8: HARVESTER-PROCESSOR TRANSACTIONS

1980 Sales by Harvesting Sectors to Processing Sectors (in Thousands of Dollars)

DIRECT PURCHASE PROCESSING SECTORS (by Number)

HARVESTIME SECTORS	20	21	22	23	24	25-29 *	TOTAL
1) BROUNDFISH TRANCERS, N.	366.939	3226.593	4801.300	254.792	4.591	0.000	10456.223
2) GROUNDFISH TRANLERS, 9.	117.264	1036.46	2173, 547	74, 593	90.469	0.000	3487.285
3) SHRIMP TRANLERS	93.937	826-012	1741-182	0.000	0.000	0.000	2661-131
4) TUNA PURSE-SEINERS	1,77	889.653	615. 232	0.000	195161	0.000	176647.653
5) WETFISH SEINERS	85.824	763.423	1596.648	7452.200	10265.84	0.000	20163.915
6) HEARING GILLMETTERS	164.147	1448.028	3045, 686	11056-12	13391.34	0.000	29105.321
7) OTHER GILLNETTERS	379.414	3343.38	7040.254	42.431	1117.002	0.000	11922.881
B) SHALL SALMON TROLLERS	46.945	412.969	070.284	.744	31.636	0.000	1362.58
9) LARGE SALMON TROLLERS	142.71	1260.821	2649.204	35.414	1343.779	0,000	5431.929
10) SALHOH/CRABBERS	74.126	453.53	1375.137	191.296	590.32	0.900	2884. 40 7
11) SALHOM/ALBACORE	20.354	188. 981	383.968	.103	2227.549	9.000	2020, 977
12) LONG-LINERS	3.428	30.192	63.561	1.571	12.265	0.000	111.017
13) BLACK COB POTS	322.884	2930.992	5984.272	655. 476	1.290	9.000	9802.922
(4) CRAB/LOBSTER, M.	92.691	615.804	1710.583	2.25	164.055	0.000	2795.383
15) CRAB/LOBSTER, S.	54.3	475.714	1002.776	67.591	75.376	0.000	1475.557
16) BAITBOATS	5.474	94,495	132.354	3.066	10321	8.000	10584.387
17) JISBOATS	13.587	127.074	256.224	319.137	2487.085	0.000	3209.109
18) DIVEBOATS	157.314	1393.493	2915.853	31.373	75.061	0.000	4563.084
19) HARPOON-BILLFISH	88.937	782.103	1448.472	1,834	13.429	0.000	2534,775
TOTAL	2232.051	20594.659	42016.547	20192, 199	237407.085	0.000	322442.541

FISH PROCESSING SECTORS

- 20. Small Wholesalers, Processors, Distributors
- 21. Medium Wholesalers, Processors, Distributors
- 22. Large Wholesalers, Processors, Distributors
- 23. Import/Export Brokers

- 25. Seafood Restaurants
- 26. Other Eat and Drink
- 27. Seafood Markets
- 28. Other Food and Kindred Products

It is assumed for the CIF Model that Other Fish Processors (25-28) buy all fish products from Wholesalers, Processors, Distributors and Import-Export Brokers (20-23).

Tuna Canners

TABLE 9. DIRECT, INDIRECT AND INDUCED CALIFORNIA PRODUCTION PER \$ SALES AND TYPE I & TYPE II DUTPUT MULTIPLIERS FOR FISH HARVESTING SECTORS (IN \$)

S	ECTOR		A \$ OUTPU		CALIF. MULTIP	OUTPUT LIERS
*	TITLE	0	D+I	D+I+IN	TYPE I	TYPE II
		Col. 1	Col. 2	Co1. 3	Cal. 4	Col. 5
1 2 3 4 5 6 7 8 9 10	GROUNDFISH TRAWLERS, N GROUNDFISH TRAWLERS, S SHRIMP TPAWLERS TUNA PURSE-SEINERS WETFISH SEINERS HERRING GILLNETTERS OTHER GILLNETTERS SMALL SALMON TROLLERS LARGE SALMON TROLLERS SALMON/CRABSERS	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	1.57921 1.75444 1.56205 1.44542	3. 70070 3. 69672 3. 78667 3. 66256 3. 77111 3. 46268 3. 70386 3. 53162 3. 56410 3. 54335	1. 70599 1. 43814 1. 50688 1. 51361 1. 53639 1. 41686 1. 57921 1. 75444 1. 56205 1. 44542	3. 70070 3. 69672 3. 78667 3. 66256 3. 77111 3. 46268 3. 70386 3. 53162 3. 56410 3. 54335
11 12 13 14	SALMON/ALBACORE LONG-LIMERS BLACK COD POTS CRAB/LOBSTER,N	1.00000 1.00000 1.00000 1.00000	1 71981 1 89111 1 83778 1 35756	3.55432 4.02240 3.53063 3.69648	1.71781 1.89111 1.83778 1.85766	3, 55432 4, 02⊋40 3, 53063 3, ∋9648
15 15 17	CRAB/LOSSTER,S BAIT3CATS,TUNA UIGBDATS,TUNA	1 00000 1 00000 1 00000	1,72903 1 38374 2,04611	3 54341 3 53314 3 75166	1 72803 1 38374 2 04611	3.54341 3.53314 3.75166
13 19	DIVEBOATS HARPOON, SILLFISH	1.0000 0 1.00000	1 47159 1 80203	3. 71117 3. 53327	1.47159 1.80203	3. 91117 3. 53327

LEGEND:

D - DIRECT DUTPUT GENERATED PER \$ SALES I - INDIRECT DUTPUT GENERATED PER \$ SALES IN - INDUCED DUTPUT GENERATED PER \$ SALES

TYPE I CULTIPLIER + (D+I)/D, i.e. the direct and indirect output generated by \$1 additional sales, (in \$).

TYPE II MULTIPLIER - (D+I+IN)/D, i.e. the direct, indirect and induced output generated by \$1 additional sales, (in \$)

TABLE 36 DIRECT, INDIRECT AND INDUCED CALIFORNIA INCOME FER \$ SALES AND TYPE I & TYPE II INCOME MULTIPLIERS FOR FISH HARVESTING SECTORS (IN \$)

				PLIERS
D	D+I	D+I+IN	TYPE I	TYPE II
Co1. 1	Col. 2	Col. 3	Col. 4	Col. 5
58786 57328 38715 53656 60276 43754 54830 34522 38040 26389 64666 28052	.69693 .78913 .79654 .75082 .74585 .71479 .74233 .62093 .69950 .73300 .64095 .74466 .59147 .64247 .56440 .75099 .59591	G. 96741 1. 09539 1. 10567 1. 04222 1. 03531 0. 99220 1. 03042 0. 86191 0. 97099 1. 01748 0. 88971 1. 03366 0. 32102 0. 39181 0. 79345 1. 04244 0. 32718	1 41383 1 16770 1 22699 1 22814 1 26394 1 21179 1 29488 1 60385 1 30348 1 21607 1 46490 1 35812 1 71332 1 68892 1 98810 1 15133 2 12430 1 19583	1. 96253 1. 62088 1. 70318 1. 70481 1. 75447 1. 68209 1. 79742 2. 22630 1. 80965 1. 68903 2. 03343 1. 68521 2. 37826 2. 34440 2. 75967 1. 61204 2. 94875 1. 64605
	49294 67580 64918 61134 59010 58986 57328 38715 53656 60276 43754 54830 34522 38040 25387 64466	Col. 1 Col. 2 .49294 .69693 .67580 .78913 .64918 .79654 .61134 .75082 .59010 .74585 .58986 .71479 .57328 .74233 .38715 .62093 .53656 .69950 .60276 .73360 .43754 .64095 .54830 .74466 .34522 .59147 .38040 .64247 .26389 .56440 .64666 .75099 .28052 .59591 .71380 .65237	Col. 1 Col. 2 Col. 3 .49294	Col. 1 Col. 2 Col. 3 Col. 4 .49294

LEGEND

D - DIFECT INCOME GENERATED PER * EALES I - INDIFECT INCOME GENERATED PER * SALES IN - INDUCED INCOME GENERATED PER * SALES

TYPE I TOLATIPLIER - (D+I)/D, i.e. the direct and indirect income generated by \$1 additional direct income, (in \$).

TYPE II MULTIPLIER - (D+I+IN)/D, i.e. the direct, indirect and induced income generated by \$1 additional direct income. (in \$).

TABLE 90 DIRECT, INDIRECT AND INDUCED CALIFORNIA EMPLOYMENT
PER * MILLION SALES AND TYPE I % TYPE II EMPLOYMENT
MULTIPLIERS FOR FISH HARVESTING SECTORS (IN NUMBER OF JOBS)

		OF JOBS CREA	ON OF EX			EMPLOYMENT
9	ECTOR	FIS	H SALES		MUL	TIPLIERS
*	TITLE	ā	D+1	D+1+1N	TYPE I	TYPE II
		Col. 1	Col. 2	Col. 3	Col. 4	Cal. 5
1	GROUNDFISH TRAWLERS, N	77. 30	85. 77	100. 76	1. 10962	1. 30355
2	GROUNCFISH TRAWLERS, S	10.10	15 04	32, 04	1. 49179	3. 17242
3	SHRIMP TRAULERS	23. 10	29 34	46 47	1. 26999	2.01171
4	TUNA PURSE-SEINERS	6.00	11.95	28 01	1.97594	4 66770
5	WETFISH SEINERS	58, 60	56.18	85 53	1 12927	1.40305
6	HERRING GILLMETTERS	28. 10	33, 25	48, 62	1. 18326	1. 73042
7	OTHER GILLNETTERS	79, 30	36, 24	102, 21	1.08754	1.28890
3	SMALL SALMON TROLLERS	352, 50	372, 29	3 85 65	1 02701	1.06386
7	LARGE SALMON TROLLERS	53 40	50 31	75 35	1. 12935	1.41112
10	EALMON/ CPADBERS	127 90	153. 31	149 07	1.04228	1.16555
11	SALMON/ALDACOPE	76 00	94 Si	₹8 30	1.11201	1 29342
12	LCNG-LIMERS	358, 30	355. 74	382 75	1.02355	1.06825
13	BLACK COD POTS	11.00	21 13	33 9 5	1 92047	3. 37 709
14	CRAB/LEDSTER/N	54, 20	55. 18	79 JO	1,20261	1 45759
15	CPAB/LOSSTER/S	200 10	211 72	223 96	1 05309	1.11876
15	BALTSOATS, TUNA	44, 40	48. 85	55 , 01	1 10031	1 46413
17	JIGSCATS, TUNA	49 10	51 65	74 45	1, 29145	1.54814
13	DIZESCATS	180 50	135, 09	204 43	1 03099	1 13257
19	HAPPOON, BILLFISH	29 50	29 14	112.14	1, 10768	1, 25298

LEGEND

D - DIRECT EMPLOYMENT GENERATED PER MILLION # BALES
I - INDIRECT EMPLOYMENT GENERATED PER MILLION # BALES
IN - INDUGED EMPLOYMENT GENERATED PER MILLION # BALES

Type I MULTIPLIER — (D+I)/D, i a the direct and indirect employment generated by each additional direct job created TYPE II MULTIPLIER — (D+I+IN)/D, i a the direct, indirect and induced employment generated by each additional direct job created.

TABLE 10a: DIRECT, INDIRECT AND INDUCED CALIFORNIA PRODUCTION PER * SALES AND TYPE I % TYPE II OUTPUT NULTIPLIERS FOR FISH PROCESSING SECTORS (IN *)

S	ECTOR		IA \$ OUTP ESSED FIS			OUTPUT PLIERS
*	TITLE	D	D+1	D+I+IN	TYPE I	TYPE II
		Col. 1	Col. 2	Col. 3	Cal. 4	Col. 5
20 21 23 24 25 27	FISH WHSL, PROC. DIST, SM FISH WHSL, PROC. DIST, MED FISH WHSL, PROC. DIST, LG FISH IMP/EXP, BROKERS TUNA CANNERS SEAFOGD RESTAURANTS OTHER EAT & DRINK	1.00000 1.00000 1.00000 1.00000 1.00000 1.00000	2. 26487 2. 33640 2. 23159 1. 21727 1. 98388 1. 55783 1. 63165	4. 13263 3. 98757 4. 10813 1. 76964 3. 67403 3. 38266 2. 78581	2. 26487 2. 33640 2. 23159 1. 21727 1. 98388 1. 55783 1. 63165	4 13253 3. 98757 4. 10813 1. 76964 3. 67403 3. 38266 2. 78581
29 29	SEAFOOD MARKETS OTHER FOOD & KINDRED PROC	1.00000 1.00000	1. 96610 2. 26058	3 15354 3 64215	1.96610 2.25058	3.153 5 4 3.54215

LEGEND:

D - DIRECT CUTPUT GENERATED PER * SALES
I - INDIRECT CUTPUT GENERATED PER * SALES
IN - INDUCED CUTPUT GENERATED PER * SALES

TYPE I MULTIPLIER - (S+I)/D, i.e. the direct and indirect output generated by \$1 additional sales, (in \$)

TYPE II MULTIPLIER - (D*I+IN)/D, i.e. the direct, indirect and induced output generated by \$1 additional sales, (in \$).

TABLE 106: DIRECT, INDIRECT AND INDUCED CALIFORNIA INCOME PER \$ SALES AND TYPE I & TYPE II INCOME MULTIPLIERS FOR FISH PROCESSING SECTORS (IN \$)

SECTOR	CALIFORN	IA INCOM	E PER \$	CALIF.	INCOME
	OF PROC	ESSED FI	SH SALES	MULTIF	PLIERS
# TITLE	D	D+I	D+I+IN	TYPE I	TYPE II
	Col. 1	Cal. 2	Ca1. 3	Col. 4	Col. 5
FISH WHSL, PROC, DIST, SM FISH WHSL, PROC, DIST, MED FISH WHSL, PROC, DIST, LG FISH IMP/EXP, BROKERS TUNA CANNERS SEAFOOD RESTAURANTS OTHER EAT & DRINK SEAFOOD MARKETS BUTHER FOOD & KINDRED PROC	.16624	65260	0.90587	3. 92564	5. 44919
	.09922	57691	0.80082	5. 81450	8. 07112
	.21579	65565	0.91011	3. 03837	4. 21757
	.10170	19300	0.26790	1. 89769	2. 63419
	.16051	59054	0.81973	3. 67915	5. 10704
	.47057	63758	0.88502	1. 35490	1. 88074
	.24878	40325	0.55976	1. 62092	2. 25000
	.15277	41489	0.57591	2. 71579	3. 74980
	.19176	48271	0.67005	2. 51725	3. 49420

LEGEND

D - DIRECT INCOME GENERATED PER . SALES

I - INDIRECT INCOME GENERATED PER * SALES IN - INDUCED INCOME GENERATED PER * SALES

TYPE I MULTIPLIES — (D+I)/D, i.e. the direct and indirect income generated by \$1 additional direct income, (in \$). TYPE II MULTIPLIES — (D+I+IN)/D, i.e. the direct, indirect and induced income generated by \$1 additional direct income, (in \$).

TABLE 100: DIRECT, INDIRECT AND INDUCED CALIFORNIA EMPLOYMENT
PER * MILLION SALES AND TYPE I & TYPE II EMPLOYMENT
MULTIPLIERS FOR FISH PROCESSING SECTORS, (IN NUMBER OF JOBS)

	# 0 F J0	DBS CREA	TED IN C	AL IFORNI	A	
	PER	# MILLI	ON OF PR	OCESSED	CALIF.	EMPLOYMENT
	SECTOR	_	H SALES		MUL	TIPLIERS
	SEG 15.1	,	,,			
*	TITLE	D	D+1	D+I+IN	TYPE I	TYPE II
•	71166	_		G - 1 - 110		
		Col. 1	Cal. 2	Col. 3	Col. 4	Col. 5
20	FISH WHSL, PROC. DIST, SM	16.50	60. 24	74, 27	3. 65066	4. 50140
21	FISH WHSL, PROC. DIST, MED	7. 30	48 19	50. 59	6. 60082	8. 30075
22	FISH WHSL, PROC. DIST, LG	12.10	55. 42	69.52	4.58011	5. 74566
23	FISH IMP/EXP/BROKERS	2.50	8.34	12, 50	3. 33795	4. 99851
24	TUNA CALLERS	10.20	23. 21	35. 91	2. 27545	3. 52078
25	SEAFOOD RESTAURANTS	54 00	62.84	76. 55	1 16364	1. 41761
25	OTHER EAT & DRINK	54, 20	64 50	73.17	1.19444	1.35508
27	SEAFOED MARKETS	15.20	35, 75	44, 68	2.35200	2, 93932
28	OTHER FOCO & KINDRED PROC	29.02	45.05	55. 43	1 80926	2, 22626

LEGEND:

D - DIRECT EMPLOYMENT GENERATED PER MILLION * SALES

I - INDIFECT EMPLOYMENT GENERATED PER MILLION * SALES

IN - INDUCED EMPLOYMENT GENERATED PER MILLION * SALES

TYPE I MULTIPLIER — $(D+I)/D_0$ i.e. the direct and indirect amployment generated by each additional direct job created. Trace II (**ULTIPLIER = $(D+I+IN)/D_0$) i.e. the direct, indirect and induced employment generated by each additional direct job created.

APPENDIX C

THE CALIFORNIA INTER-INDUSTRY FISHERIES (CIF) MODEL

includes

TRANSACTIONS TABLE
TECHNICAL COEFFICIENTS TABLE
LEONTIEFF (I-A) INVERSE TABLE (TYPE II)

2	00/200	•	Transac	tions Table	(Rows 1	-66, Column	s 1-8)		
-	COUNDE 18H TRAMERS.	. 5	* 5	7 6	• ;	en j	- 9 :		9
T#	ORDONDF1SH TRALEFER. #	3 8	3 8	3 8	8	8	8	8	8
		3 8	9 1	8	8	8	8	80	8
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٠.		8	8	8	8	8	8	8	000
	Office of the terms	8 6	8	8	8	8	800	8	8
•	SHALL SALMON TON LOS	3 8	88	8	8	8	8	00.0	800
•	LARGE SALMON TROUTERE	3 8	88	88	8	8	8	8	00.0
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~		88	88	3 5	88	88	8	8	8
C		8	88	88	38	38	8 8	88	86
=	CRAD/LDDBIER, N	00	8	8	3 8	3 8	38	8 9	8
•	CAAB/LODGTER, B	8	8	3 8	38	38	8 8	86	8 :
2	-	8	8	8 8	8 8	38	3 6	88	8
_	JEGBOATS, TUNA	8	00	88	8 8	3 8	8 6	8 8	8
9		8 0	8	8	88	3 8	3 8	8 8	86
<u>-</u>	HARPOON. DILLFISH	80	8	0	8 8	3 8	3 8	38	8 8
2	FISH UMSEL, PROC, DIST, BM	8	8	8	00		3 8	3 8	3 8
Fe i	FISH LINSL, PROC, DIST, MED	9	8	0	8		3 8	3 8	3 6
CO I	FISH WHOL. PROC. DIST, LO	8	00	9	8		3 8	3 8	3 6
ถ	FISH IMP/EXP. BROKERS	8	00	8	8 8		3 8	3 8	8 6
Š	TUPIA CALERED	00	8	8 8	8 8		38	8 6	8
P N	BEAFOOD RESTAURANTS	8	0	38	38		38	88	8
e C	OTHER EAT & DRINK	8	8	3 8	3 8		88	8 8	8
ŝ	SEAFOOD MARKETS	8	0	8 8	8 8		38	88	8 8
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ę,	FORESTAY & DIMEN FISHING		8	88	8 8		38	8 8	8
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č	ANIMAL & MARIME FATE		8	0	0	38	3 8	3 8	3 6
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9 6	CONSTRUCTION		8		8		00.0	8	00.00
8			3 8		8		8	8	90.0
Ė	FURNITURE		3 8		000		8	8	8
•	OLASS, BYTHE, CLAY		3 8		8		8	8	8
7	METAL		3 2		8		0	0	0 0
Ç	NON-ELECTRIC MACHINES		3		9 8	8 8		0	6.0
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*	INSTRUMENTS		8		88		5 6	5:	3 8
*	MISC. MIFO GOODS		8		8	- C	000		5 6
47	TEXTILES		8		8		8	5 6	5 6
9 9	APPAPEL		8		8		8	88	88
	7.7.4.4.0.0		8		8		8	8	8
7 17	CHERICAL		88		8	8	8	00.0	00 •
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9			0 0		6.32		<u>.</u>	0, 93	0 03
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6	97 P. LOC GOVERNMENT	88	5 6	3 3	8 6		000	8	00 0
6	SCRAP MATERIALS	000	000	8 8	38		8 8	9 6	00 0
4	HOUSEHOLDS	200	200		} : :	3 6	3 5	8 :	0 0 0
6	INPORTS/Exhorits	200	20	0 0	10 40			2 F	E 6 6
44	TOTALS	10, 65	10	9	198 14	12		¥ 2	<u>.</u>
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ELECTRIC EQUIPMENT TRANSFORTATION EQUIP INSTRUMENTS HISC RAFO GOODS TEXTILES

CUVERIMENT

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MATERIALS

NAPORTS/EMPORTS TOTAL 8

TELEPHENEZPUB UTIL WHOLESALE TRADERB RETAIL TRADERS

ドンスペーション・ SERVICES FED GRIVER \$ 1.0c

PLAST 1C

PETROLEGI RUBRER & C

EATER

PHINTING

APER.

APPAREL

CHEMICA

ELECTRIC MACHINES

PLASS. BTOME, CLAY

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FATS

HAL & MARINE

PETF DOD

IP & BOAT TOR FREIGHT RICULTURE

DTHER FOOD & MINDRED FROC FORESTRY & OTHER FIGHING FORESTRY/FIBH BERVICES

1004. BILLF18H 1 M4SL, PROC, D18T, BH 1 M4SL, PROC, D18T, MED 1 M4SL, PROC, D18T, LO

5222

CHAP/LOBSTER, N CHAB/LOBSTER, E BATTUDATE: TUMA JOSEATS, TUMA DIVEBLATS HAPPOCH: BILLETS

IMP/EXP. BROKERS

TUNA CALMERB BEAFOOD REGTAUMANTS UTHER EAT 4 DRIAM BEAFOOD MARKETB

9-1₆)

Colorens

1-66,

Transactions Table (Rows

2

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ROW/COL.

1 GROWNDFISH TRANLERS, R. 2 GROUNDFISH TRANLERS
3 SHRIMP TRANLERS
4 TUNA PURSE-SELIKERS

 \mathcal{C}

TROLLERS

BHALL SALMON TROO LARGE GALMON TROO BALMONYCRABBERS BALMONYCRABBERS BALMONYCRABBERS CONG-LINENS BLACK COD POTB CHAP/LUBSTER, N

METFISH SEINERB HERRING CILLNETTERB OTHER CILLNETTERS

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Commonwed by Transfer State	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MANDFISH TRAMLERS, M MANDFISH TRAMLERS, S INP TRAMLERS IN PURSE-BEINERS FISH SEINERS MALL SALMUN TROLLERS MALL SHOOT, DIST, MED MANGL PROC, DIST, MED MANGRES FOOD A KIANDRED PROC FESTA V FISH SERVICES FOOD MALL MANINE FATB	2888888888888888888888 2666666666666666	# 6 8 6 8 6 8 6 6 6 6 6 6 6 6 6 6 6 6 6	28888 6666	9 2 3 3 0 0 0		7.485 Fig.	00000 00000	000
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2 :	BALMON/CPASHERS	9.0		88	88	3 8	9 6	88	8 8
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v m	LUMS-LINERS BLACK COD BOTO	86		8	8	8	8 8	88	88
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€	BAITBOATE, TUNA	8		8 8	3 8	3 6	000	8	8
_ :	JIGROATS. TUM	8		8 6	3 8	3 8	8 6	88	00 0
e :	DIVEGOAT8	8	000	00	8	8	88	38	88
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2	FISH INP/ENP, BROKERS	00		3 5			0 0	8	8
Ž.	TUM CAMERS	8		88	38	88	88	88	8 6
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	L. PHUC. DIBT, LG	88	8 8	8 8	8 8	_	_	8	8
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Technical Coefficients Table (Rows 1-66, Columns 9-16)

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Technical Coefficients Table (Rows 1-66, Columns 25-32)

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Technical Coefficients Table (Rows 1-66, Columns 49-56)

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Technical Coefficients Table (Rows 1-66, Columns 57-64)

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TION MANY PRINCIPLES TO	0.0000000	0 0000000	c	í	000000	٠.	0.0000000	0.00000187
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LUMBER	0.0000000		٦.		Ξ.		-	0.00000000
FUHALITURE	00000000	0.0000032	0.00000184			O. 000000489		
GLASS, BTOME, CLAY	0.00019333	0.0000348	0.00000467	-			0.0000000	Ξ.
	0.00029910	0.00007244		0.00134030		_		٠.
NON-ELECTRIC MACHINES	O. 0001564B	0.00000328		0.00000000	-			
ELECTRIC EQUIPMENT	0.00031995	0.00023864			V. 0001/04%			
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THE REAL TRANSPORT	02348380		0.00813661	0 02686083	٠.	. 1		0.00103148
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INSURANCE	0018/343		0.00094751	0.00292453	_	E1E50200		
FINANCE	2/2/3/300		07061010	0.00740581	_	00266584		0.04484300
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DI D. L. D. ACRESTON	9090500		0.00411721	0.00551304		00000000		0.12423004
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	000002374		0.0000000	0.00029194	00000000	00000376	0.00076491	0.00271440
1 PW-UR TB/EXPONTE	0.00000077	0.23166331	0.00093323	0.40263291	72598020	0. 29504034	00000000	0.00377442

Leontieff (I-A) Inverse Table (Rows 1-64, Columns 1-8)

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	-	0000 1400						+2011E00 0 /	0	0	00292741	A 000005124
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	•	0041/00	Õ	00287478	8	00074484		•	•	2	03578450	0 04915858
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Leontieff (I-A) Inverse Table (Rows 1-64, Columns 9-16)

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	0.0000015		0.000000	_	0 00000033		0 0000003	00000000
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MERMING GILLINETTERS	0.00000045	0.00000035	0 000000055	Ξ.	0 00000008	Ξ.	0 00000075	
OTHER CICLINETTERS	0.00000103	0 00000001	0 00000126	0 00000131	0 00000157	0 00000168	0 00000174	0 00000004
SALMON TROULERS	E1000000 0	0 0000000	0 00000016	0.00000016	0 00000019	0 00000001	0 00000002	-
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	c 00000001	0000000	0000000	0000000	0000000	0000000		
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CHASH DBSHER, N	C 00000025	0.00000000	6 00000031	0 00000033	0.00000038	1 00000001	0 00000043	
CHAS 41 OBS4ER. S	0.00000015	0 00000012	0 00000018	610000000	0 00000022	0 00000024	1 00000025	0 00000000
	0 000000003	0 00000005	0 00000003	0 00000003	0.00000000	0.00000004	0.00000004	1 0000000
TOSBAIS, THAN	0.00000000	0 00000003	0.00000000	0.0000000	0.00000000	0.0000000	90000000	00000000
DEVENDATS	6.00000043	0 00000034	0 00000032	0.00000034	0.0000000	0 00000010	0 00000072	0.00000026
HARPON, BILLFISH	0 000000054	c 00000014	0.00000030	0.00000031	0 00000037	6C000000 0	0 00000041	0 00000015
# 1551 1510, PROC. 6151, SM	0.00000050	0 00000034	0 00000001	0.00000062	0 00000076	18000000 0	0.00000084	0 00000031
(SL. PROC, DIST, MED	01000000	000000400	0 000000834	0 00000040	0.00000776	0.00000829	0.00000000	E 000000 0
FIGHT HAIST, PROC. DIST, LG	0 00000049	69900000	0 00001038	0.00001082	0.00001291	00001380	0 00001434	0 00000522
	00000000	000000000000000000000000000000000000000	00000000	0.0000000	00000000	0000000	00000000	00000000
CHEMICAL CONTRACTOR OF THE CON	2000000	00000000	00000000	0000000	0000000	00000000	00000000	00000000
ODER PAT & DETAK	0.00000000	0 00351971	0 00549399	0 00505351	00000000	000000	0000000	0.0000000
SEAFORD MARKETS	00000000	00000000	00000000	0 00000000	0000000	00000000	00000000	00000000
UTHAK FOOD & KINDRED PROC	0 00110222	0.00083433	0.00133119	0.00176686	0.00163367	0.00176713	0 00189784	0 00067884
THESTRY & DINER FISHING	0 00006292	0.00004466	0 00007051	0.00006489	0 000000391	0 00010279	0 00009865	0 00003941
FORFETRY ZFISH SERVICES	0 00032894	0 00025503	0.00041271	0 00094293	0 00043509	0 00039747	0 00046672	_
CATTACK SANTHER CATC	00000388	0 00001082	0.00001737	0.0000200	00000000	0 00001943	0 00002247	0 0000048
SHIP & BOAT	0 10946997		0.106BB210	0.00036704	0 10869961	0 17910087	0 16721779	
MUTUR PREJORG	0 00350479	0 00277057	0.00435991	0 00403905	0 00533318		BC896500 0	0.00221071
AGRICULTURE	G 00076644	0 00058656	0 00092444	0 00131921	0 00111451		0 00123217	. –
	0 00955337	0.00849475	0.01555649	0.01608301	0.01406496		0 01945835	16844600 0
CONSTRUCTION	0 00662789	٠.	Ξ.	0.01914780	0.00945759		0 01018246	
- 41	0 06390787		0.00424191	0.00378091	0.00523524		0.00403096	0 00239732
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	0 04460990		0 08423904	0.004694		000000000000000000000000000000000000000	000000000000000000000000000000000000000	
NATE OF CIRIC HACHINES	0.02143464	0.01812430	0 02833434	0.00741091			0.00150	0 00589180
ELLETRIC FAUTPHENT	0 01040414	0 00773856	0.01219099	0.00680771		0 01972885		
THARSPORTATION EQUIP	0.00343705	0 00304449	0.00444636	0.00196418	0.00007649		0 00598642	0 00121012
1NS18144118	C 00540289	0.00477521	0.00745312	0 00157979	0.01531495		0 00779113	0 00113470
Miles codos	E2070100 a	0 00384755	96692600 0	0.00072218	0.01253152		0 00537921	0 00043150
41 3 1 11 ES	#6##n000 0	0 000422	0.00063393	0 00050602		0.00100428	0 00092962	_
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HA LICENS	30003400 O	000000000	0 000473999	0.00407043	0.0038930V	06377600	1141/500 0	E0497100 0
	0.00601331	0.00443500	0010000	00000000			000000000000000000000000000000000000000	0 0004042
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HUILLER & PLASFIC	0 00228369	0 00181083	0 00280348				0 00341444	
	0.00034830		0 0000000	0.00004248	0.0000476	0.00008833	0.00007878	000000000
TELEPHONE/POB UTIL	0 03030333	0 04149390	0 05111407	0.03026687			0 11677806	
UHIJI ESALE TRADEKS	0.04490270	0 03954982	0 06610736	0 07177903	0 03789847	0 06416977	0 08373678	0 03616925
RETAIL FRADERS	0 03194054	0.04171617	CORPOVIO O	CCOURTON O	CECE 1000 0			4

Leontieff (I-A) inverse Table (Rows 1-64, Columns 17-24)

Inverse

(I-A)

Leontieff

Table (Rows 1-64, Columns 25-32)

C

32 00002240 00000716 00000573 0/366022 00327970 00536241 01164777 04510056 01121320 000000000000000 000 00000000 99999999 000 00360208 00415491 00068862 80002060 0000000000000000 00000000 **+000000000000** 00265621 00249194 82325210 0000000 000000 00000 0 o 00472817 00231235 26057676 01227494 07845159 00368788 0.2412870 0.02412870 0.02412870 0.0266400 0.0266400 0.020817910 0.020817910 0.020817910 0.020817910 0.020817910 0.020817910 0.020817910 0.020817910 0.020817910 0.020817910 0.020817910 0.02081791 96610308 26 (2013) 246 (2013) 246 (2013) 247 (2013) 2 06794564 00258464 00438140 00046377 43164801 00 0000 0000 000 000 001030423 00113849 00113849 001025626 00025626 001025626 001025626 00102623 00126582 00126582 00126582 00126582 00126582 00126582 0012777 00012677 00012777 01785762 04983944 04463780 02299754 00124697 0000606660 55783232 00500677 00162588 7/960 PROC OTHER FOOD & MINDRED PHOC FORESTRY & OTHER FISHING FURESTRYZEISH SERVICES FISH WHSE, PRUC, DIST, SK FISH WHSE, PRUC, DIST, MED FISH WHSE, PRUC, DIST, LO FISH INF ZEXP, BROWERS = : FUGGEREC EQUIPMENT TRANSPORTETION EQUIPMENT SALMON IRULLERS SALMON IROLLERS HUNG HUNDER SEINERS
HEIGTISH SEINERS
HERGTIS GILLNETTERS
GHALL SALMUN IRULLERS
SAALL SALMUN IRULLERS
SAALNING IRULLERS
SAALMUNZCRABUERS
SAINON/CRABUERS FATE SOCKER PROPERTY. SOCKER JP RESTAURANTS EAT & DRINK CLIVE HERE N 14 FERTALS 1101 - 1 FERTALS TELEPHONEZPUBUTTE. UMULESALE TRADERE HARPOON, DILLFISH BLACK CUD POIS CRADALIDBSER, N CRADALIDBSER, S UNITEDATS, INNA ASS, STONE, CLAY conps 2 PLASTIC SEALTHUD NARKETS ANIBAL C MARINE ANTIP & DISAT NOTON FREIGHT AGNICULTURE TAIL TRADEMS こと、当分をしている HAP MATERIAL CAMERIC CLEASTRUCTION THEIRUMENTS CONG-CINERS 044 DIVE BOATS FURENT THE METHOREUM TREMEDIAL FALCAL ST # 13C SECTIONS: SEAPOUR APPARIL. FAPLR PERM EACHER ZIZ HUDDE: 110 (114) LUMBER OTHER.R ₹ ā CUSTA = っき K

Leontieff (I-A) Inverse Table (Rows 1-64, Columns 33-40)

40 0. 000000066 0. 000000066 0. 000000033 0. 000000048	UUUUUUUU BBBBBBBBBBBBBBBBBBBBBBBBBBBBB	00285106 00041274 00324208
24 0000035 00000014 00000016 0000009 0000009 0000009	10000000000000000000000000000000000000	00340931 0 00447193 0 00218363 0
000000		
30 0 0000000000000000000000000000000000	220000000000000000000000000000000000000	0.00435962 0.00435962 0.0017447 2.12290817
37 0. 000000318 0. 00000036 0. 00000031 0. 00000038 0. 00000038	000000000000000000000000000000000000000	
36 0 000001166 0 00000017 0 00000017 0 00000017 0 00000172	0. 0000000146 0. 0000000146 0. 0000000146 0. 0000000146 0. 0000000140 0. 00000000140 0. 00000000140 0. 00000000140 0. 00000000140 0. 00000000000 0. 000000000000 0. 00000000	00413700 00121263 51234667
0 00001202 0 00000384 0 00000308 0 00000308 0 00000308 0 00000339 0 00000339	0.00000194 0.00000464 0.00000041 0.00000011 0.00000011 0.00000011 0.00000011 0.00000011 0.00000011 0.00000011 0.00000011 0.00000011 0.00000011 0.00000000	
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0.000000184 0.00000183 0.00000083 0.00000036 0.00000036 0.00000172 0.00000038	0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 000000190 0 0000000000	00326140 0 00331434 0. 78259295 1.
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	CARGE SALMAN INCHLERS SALMAN INCHLERS SALMAN INCHLERS SALMANA SACORE LCHOCLIERS BLACK CUD FORS CRARLOBSTER, B CRARLOBSTER, B CRARLOBSTER, B JICHOSTER, B JICHO	BT & LOC GOVERNMENT BCRAP MATERIALS NUTPUT MULTIPLIERS
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Leontieff (1-A) Inverse Table (Rows 1-64, Columns 41-48)

ROW/COL	/COI.	Ŧ	42	Ç	77	•	*	•	9
- ^		0 \$0000376	သ	0 00000464	0.00000543	0.00000327	0 00000277	0 000000	בטכטטטטט ט
's en	CHARLES DE TRACE DES	th 00000126	c i	Ξ.			6 0000000	0	
•	TUNA PUREE SELIERS	0.000000	0 00000000	0.00000124		_		o i	
ñ	WETETSH SEINERS	0 00000043	o		0.00000128	0.00000048	0.00000041	0.0000032	٠.
۰ ۰		0.00000177	Ö						0 0000048
~ =	SHALL SALMON TOOM FEE	0.00000410	o (Ξ.	Ξ.	_			
T	CARGE BALMON TROULERS	0 00000134	0 00000104	0 00000000	0.00000000	0.00000042		_	
2	SALMUN/CRABBERS	0 00000000		_	0 0000011	0.00000127	BO 100000 0		
= 5	SALMON/ALBACORE	0.00000000	91000000 0			_	0.00000016	0.00000013	0.00000041
2	BLACK COD POTA	0 00000000				Ξ.			
=	CRAB/LINSTER, N	0 00000100	0 00000040	0.00000426	0.00000478	٠, ٠	0.00000244	Ξ.	т.
en .		0.00000038	Ξ.			0 0000008	0.0000000	0.00000056	0.0000000
2 -		0.00000000	0.00000000				0.0000000	_	0 0000000
	DIVERNATA IUTA	0 00000013	0.00000011	0.0000001 0	0.00000021	0.00000013		_	
-	HARPOOK, BILLEIGH	0 0000000	0.00000117	0 00000508			0.00000114	0.00000048	0.00000097
50	F19H MHSL, PROC. DIBT. BM	0 00000144	0.000001.17	0 00000117	2E100000 0	0.00000074			0.00000049
ភូមិ	FISH MASE, PROC, DIST, MED	0 00002050	0.00001397	0.00002482	0.00002784		0.0000137	0.0000104	0.0000100
N T	FISH MASE, PROC, DIST, LO	0.00003360	0.00002317	0.00004109	,		0.00002374	0.00001930	
	TONA CAMMERS	00000000	0.0000000	٠.	0.00000000		0.00000000	0.00000000	0 00000000
6	SEAFOOD REBTAURANTS	000000000	0 00000000	00000000	00000000	0.0000000		Ξ.	
2	OTHER EAT & DRINK	0.01816176	0.01247869		0.0000000	9,00000	0.0000000	000000000	
	SEAFOOD MARKETS	000000000	0.0000000	0.0000000	0 0000000	0 0000000		0.00000000	0.0000000
5 8	CONTRA FUGD & KINDAED PROC	0.00400276	C 00279643	0.00480327	D. D0524402	0.00391332	0.00390437	_	
2		0.00012858	0.00009564		0, 00032135	0.00009329	0.00062469		
.	PETFOOD	0.00003259	0.00002338	0.00003403	0.00031322	0.00041398			
8	ANIMAL & MARINE FATS	0.00011610	0.00003931	0.00010540			0.00001840	0.00003937	0.00003826
3 (SHIP 4 BOAT	0.00030629	0.00026964	-	0. 00025220				
6	AGNICULTURE	0.01277044	0.0101010	0.00993757		0.01226193	Ξ.	0.01720280	-
38	ALEINO.		0 00962643	0.00004030	0.00323496		0 00431362	0.03636991	
76	COMBINICATION	0.01291637	0.00924988	0.01032427	0.00937193	0.00/46463	0. 010H1740	0.01041887	0.00471797
B 8		Ξ.	0.00397026	0.00428991	0.02193846	0.00572084			0.00241003
104	GLASS, STONE, CLAY	0.00043123	0.00023222	0.00158374			т.		
Ŧ	PETAL.		0.00051034	0.00948794	٠.	-	-		
Ť	HAN ELECTRIC MACHINES	0.02237195	1.07411211	0.01353689	0.12741641	0 08577968	0.07350760		-, -
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e i	WHICH ESALE TRADERS	0 04440784		0.04803664			0.05429832	0.044/3041	0.0334274
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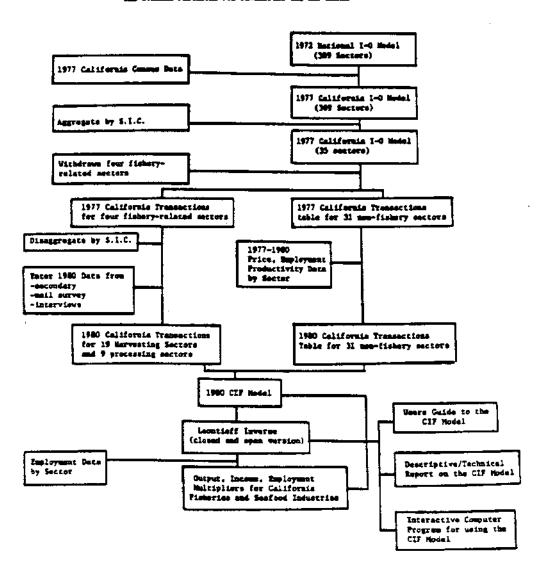
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ATTACHMENT 1.
THE OVERALL PROCESSES FOR WEVELOPING THE CITY MENEL.



ATTACEMENT 2

Industry Classification of the 1977 Input-Output Table'

The titles in bold face represent the groupings of industries used for the summary version of the 1972 tables.

1		Industry number and title	Related Compu- SIC onder (1972 addition)	No.		Endustry magniner and title	Rainted Cen SIC codes () edition)
Ļ	GRICU	LTURE, FORESTRY, AND FISHERSES		1	0.012	bluri gd	1446
ı		f. Liverset and liverset products		39	* 040	Contract	1452
Н	1. Oi	Dury farm products	6741 6161	34	7 050	First class	1453
1			4719 at 0701	37	7 060	Publer is agreed. Kantin and ball oby Casy, commerce, and redrigatory department. A.c.c	1454
	1.02	Fourty and eggs	4259, pt. 0293 025 (encl. 0254 and pt.	78]\$	9 970	Kanin and has sky	1453
ı			. 0299) ot Diet ei. i	12	7.000	Clay, cornect, had refrectory marrie. A.c.f.	[]4]?
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1			0129, pt. 0259, pt. 0291	43	7.120	Cypage Talc, Supergrap, and pyrophydist Mac. Sectoralis: Colombia, S.A.C.	1499
١.		1. Other agricultural products			10 01	10 Chrosins and Sardina estated estates Serve	1472
P	2 01	Соттоп	0131. pt. 0191. pt.	45	10 02	Tieners.	1471
1			0219. pt 0259, pt.	44		Potest, seds, and barear minority Peopleter rect. Rock mit.	1474
ıl :	2.02	Fond feed grains and grain seeds	or 011 0101		10.04	Phosphare reck	1475
1			0717 m 0744 m		10 05	Rock mit.	1476
1			0717 pt 0256 pt. 0291 pt. 0196		10.06	Suiter Chemical and fermion minoral manage s.c.s.	1477
ŀ	203	Tobacco	0137. pt (3191, pt. 0219 pt 0219	**	10.07	11 Non-communication	
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1	2.04	Fruits and time nucl.	PC 017, pt. 0191, pt. 0219, pt.				pr 1000. pt 1213. pt 13
ı,	2 05	Vegetables digit and mucellaneous crops	0291, 0173, pt 0179		İ		148
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ı			Pt 0219 ot 0299	13	:1.00	12 Majorancies and repet construction. Measurement and repet construction.	pt. 15 pt. 14.
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1	2.06	Oil bearing_crops	0116.pt 0119, pt 013, pt 0173.pt 0219,		1		
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[;	90	Forestry and funers products	GS1-4.091.097	14	13 8400	2 Small arms attraction 2 Small arms attraction 2 Other ordinance and actomated	3004
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	QZ1	Grad and zincienn mixing	7011	#	14 090	Canned specializes	····
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Industry Classification of the 1977 Input-Output Table' -Continued

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	14 200 Remoted codin.	3704 3704 3771	174		#1
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101			183	3.000 Manifold because forms	778 778
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115	17 0000 Flast coverings. 17 0000 Fait seeds, n.s.s	2392 2293	123	27 Sant Nitransham and Champhatic fartilization. 27 Sant Furtilizati, manife only. 27 Sant Agricultural characesis. 5, 52. 27 Sant Gum and word characesis. 27 Sant Purplement on Santanata. 27 Sant Purplement. 27 Sant Purplement. 27 Sant Purplement. 27 Sant Purplement. 28 Sant Purplement. 28 Santanata. 29 Santanata. 29 Santanata. 29 Santanata. 29 Santanata. 20 Santanata. 20 Santanata. 20 Santanata.	2677 7661
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te2	20 GaJD Veneer and prywood	4	317	2 0902 Patricised rubber products, n.e.c.	105
143	50 0"51 Structural wood members, n e c.	444	iii	C Miles Maraba and Transfer Programmers and the section of the sec	477
101	30 US STRICTURM Wood THERSEN, n e c . 30 US THE	44	T I		44
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196	B Keembald furniture		滥	- Until Lagiller (leves and mittees	115
57 E	Otor Wond household furniture	312	124	4.0300 women a handlings and more	1 4
152	1907 Household (urraitmen n e c	2 <u>11</u> 5	끏	Cope Personal location grands.	173
134	TOO I produced household furniture	312			_
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60 3	1 MADD Wood DESTRICTION and SETTING	341	333 3	One Committee will and flow the	35) 233
41]	1900 Blinds, shedes, and drapery nerdware.	942 31	214 3 215 3	6 0100 Clay refractories	244
•	9 MION Wood partitions and flatures 9 DASS Menal partitions and flatures 9 0000 Blinds, shedes, and drapmy nerviews 1 0000 Fortunes and Strongs, it e.c.	<u>ن</u> ا	234	The Control of the Particular Distance of the Control of the Contr	250
	M. Proper and attend		237 3	Offic Vitreets chang fred utensils.	25) 262
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	1980 Paper mile, risept building paper. 2 (400) Paperbased State.		240 3	OND POLLETY products, n e c	
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72	270s Premed and moded built deads	<u>بة</u>	247	1800 A breaker products	25E 2791.
73 -0 74 -1	Transid and moded pulp goods 25:0725 Stationary products 25:0725 Converted paper products n.e.e. 26:	<u>*</u> 1	204 2	1700 Addition products	3 00
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Industry Classification of the 1977 Input-Output Table' -Continued

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Ne.	Industry manhor and title	Related Comme SIC resides (1973 relation)	Ma.	industry mission and title	SIC nodes (1972 edition)
	F 0103 Steel were and related products.				
		1914 1914	194	10 mil Carburtters, parcent, rings, valves. 20 mil Carburtters, parcent, rings, valves. 20 mil Carburtters, parcent sistematic base.	
331	2) (1) Step) page with the transformation of the first tra	2017		Managery, serve	\
740	7 000 Promery metal products, n.e.c.	=	1 :	II Office, enterprising, and extensiving described	277
241	T Got! Notal heat spening.	5 00	114	49 AND Columnston and administration quantum	±74
,		200	iie	gg Office, exampling, and excepting describes 14.500 Equivalent case, parting equipment. 14.500 Calculating and exampling quations. 14.400 Typewriters. 14.400 Office and business. 14.400 Office manifestate.	1177 1378
	38 Primary conference ments manufactures 38 0300 Primary conger 39 0300 Primary circ.		122	NAME OF THE PERSON NAMED IN COLUMN NAMED IN CO	3570
261 244	M. (30) Primary lead		1 – 1		
345	Palin Primary sinc.	22		ST. 1988 A set unsertier reporterment in durinty against a \$2,000 Counts servine language; requipment . \$2,000 Counts servine language; requipment . \$2,000 Counts servine mad beauting excupreent	. 1061
280	M 1600 Primary siuminum 16 0800 Primary nonferrous metals n.e.e. 80 0800 September nonferrous metals	102A, 36346 1330	141 143	12.020 Candidate languary squamphi	3562 3585
140	36 OSCO Secondary nonferrous metals 36 OTOO Copper rolling and drawing	F-	J43	32.000 Rategoristion and sensing occupation 22.000 Measuring and dispersions promps. 22.000 Service Industry Machines, B.4.6.	
270	26 0:00 Copper reside and unwing. 26 0:00 Aluminum relling and drawing. 26 0:00 Nonkerous rolling and drawing. ILPR. 28 1000 Nonkerous were drawing and inaulating.	3341 33(3-2)	1	12 MM Service Industry Machines, B.4.C.	. 1400
171	38 0:00 Nonferrous rolling and drawing, n.e.e.	202	•		ļ
171	N 1100 Virtuitum and describes	245		A Secrete examination and distribution equipment and implement appears and implement experience.	l
			1 144	indownal appears SERIO Instruments to makeure electricity SERIO Transformed SERIO Switchpeer and seritchheard appearing SERIO Meters and penameters. SERIO Meters and penameters. SERIO Meters and penameters. SERIO Meters and penameters.	. 1875 1817
173	36 1300 Nonferrous chilings, n.e.e. 38 1400 Nonferrous forgings.	3300	1 12	15 cm factorer and periodiaged appreciation	3613
• / •		3963	347	S1.040 Maters and passerstore.	- 127 1427
117	Moni estationy	l	151	STAND TAKING ADMINISTRATING CHARLES	: 122
278	35 C107 Metal cans. 35 C200 Metal barrels drums, and pails.	3413		St.000 Wriding apparatom, everter St.070 Carbon and graphics products St.000 Electroni ladustrial apparaton, s.e.c.	. 3574 3429
			350		1—
	ab Heating, physibling, and federosing structural street graduate		1	<u> 16 September approprie</u>	MCS1
179	40.0000 Metal santrary ware. 40.0000 Plumbing fixture fixture and trum.	3631	154	34.000 Ecombaid analyzing equipment 34.000 Ecombaid retrigerators and frames.	1951 1422
			134	7 PORTO HORSENS (Prints) administrative	324
287	40 0300 Reating equipment, except electric. 40 0400 Fabricaled structural metal.	341	157	\$4,500 Electric housewarm and fant.	1435
291 184	40 0000 Metal Goors, Mart. and trum.	3642	177		
245	40 0100 ±0ee! metal work.	334	1 200	MATTO Hazzahaid applicates, 2.4.C	1439
217	60 0600 Februaries structural metal. 40 0800 Metal doors, mah. and tram. 40 0800 Petal doors, mah. and tram. 50 0800 Petal doors, mah. and tram. 60 0800 Petal work booker shope! 60 000 Sinel metal work. 60 0800 Petalscriss	3046 3045		If Mantels Aginting and wiring oppipment	1
294	so 0902 M meethaneous meetal wark.	350	141	1 to mile Florente (armuni.	361 365-6
	41 flowr machine students and standards		ᇤ		364
289	41 0100 Server machine products and bolts, nuts, rivers, and washers.	A3			
290 291	41.0202 Crowns and tictures] }}}}	1	MAKE Radio and TV recentled will	3041
292	41 CENS Metal stampings, n.e d.	3465	763	\$6,000 Phonograph recents and tape	1857
	A AL- (300	26.050 Radio TV received in equipment 26.050 Radio and TV received into	
791	42 0100 Cutlers 42 0100 Cutlers 42 0200 Hand and edge tools, n.e c	3471	-		
294	42 200 Hand and edge tools, n.e c	3473 3473	348	57 Plantage composes and composes 57 0100 Electron tuber 57 0100 Semiconductors and related devices.	3571-3
291	42 Mar. Hardware n.e.s	1 1478	140	57 0204 Semiconduction and related devices	3674
297 208	C 3601 Planter and polishing	3473 3479	170	The second control of	
299	42 3500 M uses language and allow mere products	3405-4		18 bile of the control of the contro	1
100	142 OTGG Steel springs, except Wife	.] 1443	371 377	38 0100 Storage batternes	30rt 3404
901 902	42 Web Pipe Talves, and pipe fittings.	100 mm	177	MANO X-ray apparatus and tubes.	3663
30)	42 1000 Metal fort and sal. 12.1100 Fabricated metal products, 8 4.0	3499	179	M 900 Engine electroni equipment	3694 2697
	45 England and carbines				1
304	43 0100 Steam engines and turnings	1311 1316	174	Maken reshisher and squapment 9 000 Truck and long bedses.	5713
105	43. DED Internal combustion engines, n.e c		177	Se Con Truck traders	T 15
	44 Parm and garden machinery 46 0001 Form machinery and equipment	1	1 13	FI 3 CADL MOUSE TRANSMA.	\$711 \$714
304 107	46 0001 Farm machinery and equipment	3414	1 "		
	1	ł ·		A Already and parts	
3.74	45 Construction and mining machinery	. 3421	38.	60 0300 Aureraft and manufa engines and engine mirts.	3774. 3754
104	41.0100 Construction machiners and regisperent 55 CNG Mining machiners, except quibeld. 41.0200 Onliferd machinery.	342	1 ~	6000 Aircraft and Bissaile equipment, 5.5.	F.S. 3764
110	43.0300 Onlifetà machinery		1	Al Communication or supposed	1
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113	At Alm. Planes - and many and appeared	. 1334 1335	10:	5 2000 Book building and repairing 6 2000 Railrand equipment 6 40 3000 Notherbeits, bery cier, and parts 7 41 480 Tower (railers and campers.	5 4
311	#6 0200 Elevators and conveying equipment. #6 0200 Flouts craims and menoralia.	3336	184	41 0000 Motorcy clera, bies ever, and parts.	553
114	46 0400 Industrial traces and tractors.	122		41 0002 Mobile bermen	:: isi
	of Motel working machinery and reprised	l	348	# 61 0002 Mobile houses and campers.	579
\$15		361		d Particular	_1
317	47 2000 Machine tools metal cutting types. 47 2000 Special dies and tools and machine tool accessores.	3544-5 3444	1 17		
316	47 3000 Special dies and tools and machine 2001 accessed 47 3401 Power driven hand tools 47 3402 Keising mill machinery, 47 3403 Metalworking machinery, n.e.c.	3547	10.	2 42 COST ALTERPRITATION TO SECURITY OF THE	
J17 J20	17 DMC Housing mill machinery	3341	1 !	67 0000 Surgical and Species instruments.	<u>341</u>
		1	19	C.OM Survices applications and surples.	36. 2
121	48 Spanial indicator conductory and emigrated. 48 Olds Testile machinery.	3561		and parts.	
122	44 CM Tertile machinery.	333	1	10 Opt-pat,	• 1
121	46 2300 Whodworsing machinery	334			¥5
125	46 3000 Woodserging machinery. 45 9400 Paper industries machiners. 46 9500 Printing trades machiners. 48 9800 Special industry machiners. 0 F C.	1144	1 7	ON Photography	
724	49 0000 Special inquisity machinery, n F.C	7			
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127	40 9000 Pumps and compression	3562	1 40	1 56 0102 Jewesers management and landers work	IP 15
129	49 (20) Birmers and fails.	3364	#	1 14 0105 Continue and plaint ware	. 3014 Tests
130	to 0400 industrial patterns	3544 3344	<u> </u>	e of other Musica, : nauruments	20
112	es una romer transmission squipment.	376:	#	Se ME Doils tobs, and children a venicus	3964 3847
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Industry Classification of the 1977 Input-Output Table' -Continued

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-81	54. held Sporting and utilistic guide, n.e.c. 64.000, Perm and mechanical pencils 64.000 Lead puncils and are guide 66.000 Marking devices 66.000 Arching levices 64.000 Arching true and favors	1	T		
1445	60.000. Perm and mechanical peneils.	300 301 302 302 303 304	1 4	T 000 Educational services	17 14, 84, 8822
- 77	to their Markule devices.	· - 1	464	177.000 Addressed care :	1.61
411	44 0064 Carbon paper and thing ribbune.	너 🗮	I	(77.66) (77.67) Seeini persona, n. c. c.	• • • • • • • • • • • • • • • • • • •
+13	44 0000 Arabas tres and favors.	700 200 200 201 301	497	(77.07) Seein present s.c.c.	0331, 8351, DJ2
454	At 1998 Wandley same and hammen	· · · · · · · · · · · · · · · · · · ·	l l	[77.00]	8399
419	64 Casto Breache said breaches. 64 Casto Breache said breaches.	201	ı	GOVERNMENT ENTERPRISES	•
410	64 (960) Pierd mertain floor covernant.	이 뿐!	1		
			J	73 Pedani Government congresses 73 2000 U.S. Pestal Service	
41.5			1 7	Ta.0307 Federal electric statistics Ta.0307 Commodity Credit Corporation Ta.0407 Other Enders Lievernment enterprises	4311 pc: 401
4		·] 구하우 (ess), 2000	-	73.0000 Commodity Credit Corporation	pt. uL3
	TRANSPORTATION, COMMUNICATION, AND STILITION	1	441	78.000 Other Federal Gerermannt enterprises	76.461.07)
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428	SE Transportation and our should !	ŗ	1	79 State and bond government assembles 79 Offit Local government massement research	SE. 41
421			441	73 1000 Star and local electric utilities.	2 A
	4) 1959 Vistor Progre Compensation and warehousing		444	79 man Other and local electric utilities. 79 man Other State and local government enterprises.	M versily
437	41 mile Upter freite Ernemertation and warehousing	. 45 42, pt. 4789	ľ		
42J 424	4.0400 Water transportation.	.] 4		DUMMY AND SPECIAL INDUSTRIES	
421	G 0.000 Art interpretation. G 0.400 Pipe shirt scrept natural sea. 65.0700 Transportation servess.	-(44	ı	M. Montengarakki (mparte	
424	G.0705 Transpertation mercans	·	-40	18-008 Neucomparable emports.	
		47 (em), 474 and 34.	1	1	
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427	68. Comprendentions, except radio and TV 64.0006 Comprendentions, except radio and TV		1 –	61.000 fersp. good, and secondhand goods	
	Annual or antital control or table to the state of the st	46 (emil. 466)		# Contraction Industry	
	T Bodio and TV brandanian	ľ	447	\$2.000 Government Industry	
436	47 State Radio and TV broadcastung	.] 🛥			
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429	48 0100 Electric services (statutes). 32 0200 Gas production and distribution (statutes).				
+14	4 0200 GAS production and distribution (stations)	- 12 번 발		St. Household industry	
+11	of 2000. A stee sublish and secretary sections.	44 P. 44	***	64.0000 Hayarhaid Industry	
1	WHOLESALE AND RETAIL TRADE			M Impriory mineries adjumentes	
		1	476	St. 2000 Investory valuation adjustment	
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- 1		Commence of the sales		V.A. Valte acting, send	
411	69 0000 Retail trade.	000) 53-7, 50, 7300, 66d2	472	M Implementation	
		25-7, 39, 730b, 66d	473	20 Trail Part North Add Partie	
i	FINANCE, INSURANCE, AND REAL INTATE	l I	474	20 Property-type incesse	
	79 Planton and Jameson !	i I			
434	TO MICH Bank broke	l <u> </u>	472	H. Purasai esamapies espenditures 91.0700 Personal consumption expenditures	
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117	2 200 Security and commandity brokers 2 2400 Impurance carriers 2 2008 Impurance agents and brokers	E	473	tf Great grives demostic fixed integrated	
+14	TO CARD I INSURANCE DESCRIPTIONS	-	7,7		
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	77 Real estate and resign		474	A ONO Change in business in rentones.	
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	TOTAL Personal and estimate assessment and	TO (enc), disting)		4 Fodorná Garara mest parchama, nazásnaj áglanas	
	and barber shops		477	to 0000 Federal Covernment purchases, national defense	
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^{1.} The 1977 input-Output table is based on the conversion of the official 1972 BEA "use" and "make" tables to an industry by industry table and then updating this to 1977 using an RAS technique. This work was completed under convex for the U.S. Forest Service.

2. Excluding government enterprises.

3. In the 1972 31C, government enterprise activities are smoorally classified with the similar provide activity. In I.-O activities of enterprises are classified in groups 78 and 79 and the corresponding 31C"s are shown encept for 78.0400 and 79 0300, such of which includes a number of SIC's and several activities for which no comparable 3IC exists.

ATTACEMENT 3

QUESTIONALIS INSTRUCTIONS

This questionnaire asks for information about the accommics of year business and we urge you to provide as much detail as possible. Questions refer to business operations during 1980; but if you prefer to give information about other years, please specify which were now are under which year you are using.

We have assumed that your business fails into once of the industrial sectors listed in Question I below. If you operate more them one business in one or more of these in Question I below. If you operate more them one business is one or more of these sectors, please telephone relief to Dr. Dennis H. King at 714/263-6335 or Dr. Kenneth L. sectors, please telephone at place for additional instructions. Also, if you have any questions Shellhammer at 714/239-0888 for additional instructions. Also, if you have any questions at all about the questionneire or the everall study please do not besitate to telephone collect to either Dr. King or Dr. Shellhammer.

QUESTIONRAIRE FOR SEAFOOD PROCESSORS/DISTRIBUTORS

	Ansattownering tok stor oon .		
1)	What is the primary nature of your (CHECK ONE ONLY:)	business?	
	Distributor, Wholeseler, P.	rocessor	
	Broker, Import/Export Busin	nes=	
	Restaurant Seafood Spec	lalty House	
	Restaurant Other (with License)	Celifornia Fish	and Game, Fish
	Seafood Markets (specialize processed fish)	ing in frash, s	emi-processed, or
	Non-Seafood Markets (super etc.)	market chains,	small variety stores.
	Canners (tuna, salmon, spo	rt-fish, etc.)	
	Other Businesses, specify packers, bait shops, wo	by circling (so rm farms, fish	okers, specialty farms, other)
2)	For what year are you supplying the		
	second column, indicate what perc California-based firms or Califor	Percent of	California-Based
	Type of Customer	Total Sales	Firms or Individuals
	Consumers		7
	Hospitals	7.	
	Military Institutions	7.	7.
	Prisons	7.	
	Other Institutions (specify:)		7.
	Recail Fish Markets		7
	Other Retail Markets		1
	Fish Restaurants		7
	Fish Restaurants Other Restaurants		²

_		Total Amount (5)	Percent (I) Purchased
	pecies Type	Purchased in 1980	Outside California
¢	rustaceans (shrimp, crab, lobster)		
H	ollusks (clams, abalone, equid, oyster)		
F	latfish (sole, flounder, halibut)		
W	ecfish (anchovy, eardine, herring)		-
Sa	iblefish, Hake, Rockfish		
Sh	arks, Rays, Skates		
Sa	ilmon (King, Silver, Pink)		
Bí	llfish (swordfish, marlin, etc.)		
Tu	na		
	her, circle which species (cod, bass, croaker, perch, ecc	.)	
va:	LIST SHOUNDER (S)	Cttos Blibell,	ion of your total 1980 expersus report either actual total 1980 costs (%), but p the last column, indicate fornia. Note: If any indicate your total expenses, pleas
do in pro ua: be	LIST SHOUNDER (S)	percentage of your is you are using. In firms outside California exceeded 3% of the control of the california exceeded 3% of t	total 1980 costs (%), but p the last column, indicate formia. Note: If any indi your total expenses, plea (\$) or Percent (%) ent of Spent Outside
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doini pro ua: be	llar amounts (\$) or dicate which measure opportion was paid to 1 "Other" type of ar sure to break it or pe of Expenditure Material Costs Raw Fish Purchased	percentage of your is you are using. In firms outside California exceeded 3% of it. Amount Percentage (Total)	total 1980 costs (%), but p the last column, indicate formia. Note: If any indi your total expenses, plea (\$) or Percent (%) ent of Spent Outside
va do ini pro ua be	llar amounts (\$) or dicate which measure opportion was paid to 1 "Other" type of an aure to break it out to be of Expenditure Marerial Costs Raw Fish Purchased Question 3)	percentage of your is you are using. In firms outside California exceeded 3% of it. Amount Percentage (Total)	total 1980 costs (%), but p the last column, indicate formia. Note: If any indi your total expenses, plea (\$) or Percent (%) ent of Spent Outside
va do ini pro ua be	llar amounts (\$) or dicate which measure opportion was paid to 1 "Other" type of an aure to break it out to be of Expenditure Marerial Costs Raw Fish Purchased Question 3)	percentage of your is you are using. In firms outside California exceeded 3% of it. Amount Percentage (Total)	total 1980 costs (%), but p the last column, indicate formia. Note: If any indi your total expenses, plea (\$) or Percent (%) ent of Spent Outside

5) EXPENSES (continued)

	Amount of Percent of Total Cost	Fercent (%) Spent Outside California
Type of Expenditure B. Expenses	Inter Par	
Operating Expenses Office Supplies		
Freight Charges		
Uriliries		
Telephone		
Auto/Truck Expense		
Professional Services (e.g., legal, advertising, accounting, etc.)		
Other Services (secretarial, janitorial, etc.)		
Repairs and Maintenance		
Building Depreciation		
Building Rental/Lease		
Equipment Depreciation		
Equipment Rental/Lease		
Other (specify):		
Payroll Expenses		
Salaries and Wages		
Payroll Taxes		
Employee Benefits (health and welfare, insurance, pension)	
Other, e.g., commissions, education, etc. (specify):		
<u> </u>		
Financial Expenses		
Insurance	-	
Licenses and Fees		

5) EXPENSES (continued)

Type of Expenditure	Amount (\$) of Percent of Total Cost	Percent (%) Spent Outside California
Financial Expenses (cont'd)		
Taxes		
Federal		
State		
Local		
Dividends and Return to Ownership, Management		
Finance Charges		
Bad Debts	· 	
Other (specify):		
		
		
Miscellaneous Expenses		
Dues and Subscriptions		
Conventions, Travel, and Entertainment		
Other (specify):		
		

SECTOR TITLE	BAMPLE * BAMPLE	BAMPLE	REVENUE/	EHPLOY	REVENUE/
BECTOR TITLE	SAMPLE # REC USE	BAMPLE REVENUES	REVENUE/ VESSEL	EMPLOY /VE88EL	REVENUE/ EMPLOY
	4 0 0 4 0 4 0 5 0 5 0 5 0 5 0 5 0 5 0 5	1, 707, 949 1, 782, 247 240, 089 14, 951, 696 145, 100 640, 144 1, 413, 071 2, 472, 102 857, 881 87, 917 1, 595, 560 836, 890 367, 329 2, 520, 630 998, 442 88, 654 781, 693	77, 634 594, 082 108, 018 2, 491, 949 145, 100 71, 127 5, 917 46, 822 23, 456 26, 299 12, 960 319, 112 64, 539 17, 492 11, 082 22, 334	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	12, 939 99, 014 43, 207 146, 130 17, 039 35, 344 12, 617 2, 739 18, 729 13, 130 2, 791 91, 173 18, 437 4, 998 22, 506 20, 801 9, 341
Harpoon, Billian	•				

ATTACRMENT 5

STATISTICAL ENTRY CODE

OFFICE USE ONLY

QUESTIONWAIRE DISTRUCTIONS

This questionnairs eaks for information about your carches and expenses. The questions are salf-explanatory and answers which supply the greatest detail possible would be appreciated.

If you see or operate more than one vessel and they are similar, you may pool information. If they are not similar, please telephone collect to Dr. Dennis King at 714/265-6335 or Dr. Kenneth Shellhammer at 714/239-0385 to sek for additional questionnaites. If you have any questions at all about the questionnaire or the everall study, please do not hesitate to telephone collect to Dr. Eing or Dr. Shellhammer at the above numbers. Your prompt response will help a great deal. Please indicate the number of vessels for which you are supplying data below. 1)__ QUESTIONNAIRE FOR SEAFOOD HARVESTERS Did you fish full time or part time during 1980? CRECK ONE ONLY: Full time ___ Part time 2)_ ____ No fishing 2) Did you fish full time or CHECK ONE ONLY: part time during 1979? ___ Juli time ____ Part time 3)_ _ No fishing If you did not fish at all during either 1979 or 1980, please leave the remaining questions blank and return the questionnaire to us. If you fished in 1979 but not in 1980, please complete the questionnaire using your 1979 figures.

If you fished in both 1979 and 1980, we request that you give us your 1980 figures. We realize that 1980 was not a normal fishing year and will adjust the data provided to account for this fact. Please assist us in making the proper adjustments by explaining how 1979 and/or 1980 differed from previous years when you operated the same business. 4) from previous years when you operated the same business. 6) 7) 3) What size vessel do your operate? (Note each if more than one.) Cons feet in length __ tons 9)____ feet in length tons feet in length 10)___ _ tons __ feet in length 11) _____ 4) What was your principal gear? (check one only) 5) What was your secondary gear? (check one only) - Seine ___ Pots/traps ____ Seine ___ Pots/traps - Travl ___ Scuba __ Trawl ___ Scuba 12) - Troll ___Other (Specify: __ Troll ___ Other (Specify: ___ Gillner __ Gillner 13) __ No secondary gear

-1-

Fireka area	Fireka area San Francisco area Noncrey area Los Angeles area Ban Diago area 14) 15) LANDINGS: List below your 1980 landings in California and outside of California for each apeciae you caught: Tou may record in pounds or tone, but please indicate which measure you are using. Pacties Amount Landed Outside of California 16) 17) Amount Landed Outside of California 18) 1 Crustaceans (shripp. crah lobater) 2 Hollusks (clans. abalone, squid. oyster) 3 Flatfish (sole. flounder, haltbut) 4 Watfish (ancheovy. sardine, herring) 5 Sablerish, Hake. Rockfish 6 Sharks, Rays, Skates 1bs/tons 1bs/tons 1bs/tons 6 Sharks, Rays, Skates 1bs/tons 1bs/tons 1bs/tons 1bs/tons 22) 5 Salmon (King. Silver. Fink) 6 Sharks, Rays, Skates 1bs/tons 31) 22) SALES: List below the amount of your 1980 sales; by species, to each of the types of purchaser shown. Again please indicate whether you are recording pounds California Species Calif. Distributors/ California Species California Species California Species California 1bs/tons/S	6) In w	hich of the following are: ck one only)	ss is your wessel's ;	was port located?	STATISTICAL ENTRY CODE
San Francisco area Los Angeles erea	San Francisco area	•	•-	-	_	OFFICE USE ONLY
Monterey area Sam Diego area 14	LANDUNGS: List below your 1950 landings in California and outside of California for each species you caught: Fou may record in pounds or tons, but please indicate which measure you are wing. Amount Landed Outside of California	•				
LANDINGS: List below your 1980 landings in California and outside of California for each species you caught. You may record in pocumes or tons, but please indicate which measure you are using.	LANDINGS: List below your 1900 landings in California and ourside of California for each species you caught Tou may record in pounds or tons, but please indicate which massive you are using. Paciest Species Type				•	145
Species Species Type	pacies sumber Species Type Amount Landed Outside of 183 183 185 18	•		San D:	lego aras	
Species Species Type	pacies sumber Species Type Amount Landed Outside of 183 183 185 18	7) LAND	INGS: List below your 190	00 landings in Califo	rnia and outside of	15)
Species Number Species Type in Celifornis California California (17) 1 Crustaceans (shrimp. crab. lobater) lbs/tons lbs/tons (20) sablone, squid. oyster) lbs/tons lbs/tons lbs/tons (20) sablone, squid. oyster) lbs/tons lbs/tons lbs/tons (21) (22) [1] (23) [1] (24) [1] (25	Amount Landed 17 18 18 17 18 18 17 18 18					16)
Number Species Type	Species Type Amount Landed California				Amount Landed	•
Crustaceans (shrimp, crash, lobs/cone 19) 19/ 10/	1		Species Type		Orreide Of	18)
2 Holluske (clams abalone, squid, oyster) lbs/tons lbs/tons 21)	2 Mollusks (class, abalone, squid, oyster) lbs/tons lbs/tons 21)	1	Crustaceans (shrimp, crab, lobster)	150/2000	1h = / 2004	19)
Salane Squid Oyster Ibs/tons Ibs/tons 21 22 22 23 24 25 25 25 26 27 27 28 27 28 28 28 28	1	2	Hollusks (clams,	They code	1847 6001	20)
Tlatfish (sole	3			lhe/rone	15.4/2004	
Wetfish (anchovy sardine herring)	### Wetfish (anchovy sardine, herring)	3	Flatfish (sole,			
Sablefish Hake, Rockfish	Salefish, Hake Rockfish 1bs/tons 1bs/tons 24	٨	•	lbs/tons	lbs/tons	
Sablefish, Hake	Sablefish Hake Rockfish 1bs/tons 1bs/tons 249 250 260 270 260 270 260 270 260 270	•		1bs/tons	lbs/tons	1
5 Sharks, Rays, Skates lbs/tons lbs/tons 26 7 Salmon (King, Silver, Pink) lbs/tons lbs/tons 27 27 27 27 27 27 27 2	6 Sharks, Rays, Skates lbs/tons lbs/tons 26	5]
7 Salmon (King, Silver. 1bs/tons 1bs/tons 27 27 27 27 28 27 27 27	Salmon (King, Silver, Pink)	6	Sharks, Rays, Skates		lbs/tons	_
8 Billfish (swordfish, marlin, etc.) lbs/tons lbs/tons lbs/tons 28) 9 Tuna lbs/tons lbs/tons 28) Other (cod, croaker, bass perch, etc.), specify: 29) 10 lbs/tons lbs/tons 30) 11 lbs/tons lbs/tons 31) 12 lbs/tons lbs/tons 32)) SALES: List below the amount of your 1980 sales, by species, to each of the types of purchaser shown. Again please indicate whether you are recording pounds, toms, or dollars of total sales. You may use the species numbers shown in Question 7 for the first column response. Species Calif. Distributors/ California Sectionnia Outer Sold Total Sold Sold Total Sold Sold Total Sold Sold Sold Sold Sold Sold Sold Sol	Billfish (swordfish, marlin, etc.) lbs/tons lbs/tons lbs/tons 28	7		12.4		
### Tuna	Tuna lbs/tons lbs/tons 28	8		LDS/ CORS	lbs/tons	27)
10	Other (cod, croaker, bass perch, etc.), specify: 10	-	marlin, etc.)	lbs/tons	lbs/tons	
10	10	9			lbs/tons	28)
10	10					
15	10	10		lbs/tons	lbs/tons	
) SALES: List below the amount of your 1980 sales, by species, to each of the types of purchaser shown. Again please indicate whether you are recording pounds, coms, or dollars of total sales. You may use the species numbers shown in Question 7 for the first column response. Species California Species California Species California Species California Species Processors Sestaurants Species California Species C	SALES: List below the amount of your 1980 sales, by species, to each of the types of purchaser shown. Again please indicate whether you are recording pounds, tons, or dollars of total sales. You may use the species numbers shown in Question 7 for the first column response. California		· · · · · · · · · · · · · · · · · · ·	lbs/tons	lbs/tons	
SALES: List below the amount of your 1980 sales, by species, to each of the types of purchaser shown. Again please indicate whether you are recording pounds, tons, or dollars of total sales. You may use the species numbers shown in Question 7 for the first column response. California	SALES: List below the amount of your 1980 sales, by species, to each of the types of purchaser shown. Again please indicate whether you are recording pounds, tons, or dollars of total sales. You may use the species numbers shown in Question 7 for the first column response. Species Calif. Distributors/ California California California Dutated 1980 36) Rumber Brokers Processors Restaurants Purchasers Calif. Sales 37)	12		lbs/tons	lbs/tons	
of the types of purchaser shown. Again please indicate whether you are recording pounds, coms, or dollars of total sales. You may use the species numbers shown in Question 7 for the first column response. California	of the types of purchaser shown. Again please indicate whether you are recording pounds, coms, or dollars of total sales. You may use the species numbers shown in Question 7 for the first column response. California			·		
the species numbers shown in Question 7 for the first column response. California	the species numbers shown in Question 7 for the first column response. California Other Sold Total Species Calif. Distributors/ California California Outside 1980 Number Brokers Processors Restaurants Purchasers Calif. Seles 1bs/tons/\$ 1bs/tons/\$ 1bs/tons/\$ 1bs/tons/\$ 1bs/tons/\$ 1bs/tons/\$) SALES	: List below the amount	of your 1980 sales,	by species, to each	33)
California Species Calif. Distributors/ Number Brokers Processors Eastsurants Purchasers Calif. Sales 1bs/tons/s 1bs/tons/s 1bs/tons/s 1bs/tons/s 1bs/tons/s 1bs/tons/s 1bs/tons/s	the species numbers shown in Question / for the first column response. Species Calif. Distributors/ California California Dueside 1980 36) Number Brokers Processors Restaurants Purchasers Calif. Sales 37)	ATA T	ecordina hounds. Coms. Of	dollars of total ea	Nes You man	34)
Species Calif. Distributors/ Emiformia California Outside 1980 36) Number Brokers Processors Restaurants Purchasers Calif. Sales 37)	California Other Sold Total 1980	the s	pecies numbers shown in Q	westion 7 for the fi	irst column response.	35)
Number Brokers Processors Restaurants Purchasers Calif. Sales	Number Brokers Processors Restaurants Purchasers Calif. Sales	Specia		Other Lifornia California D		
		•		staurants Purchasers	Calif. Sales	
	1be/tons/s 38) 39)				lbs/tons/S	<u></u> -
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	· · · · · · · · · · · · · · · · · · ·		_ 		lbs/tons/S	·

9) EXPENSES: List your 1980 costs for each of the categories shown below. Use dollar figures or percentage of total costs, but please indicate which you are using. In the right-hand column, please show how much of the amount stated was spent outside California, if any.

Expenses	Total Spent	of California
Gasoline		
Diesel Fuel		
Repairs/Maintenance		
Supplies/Provisions:		
Connect for		
specify:		
 		
Bashara		
Dockage		
Capital Expenses (vessel or equipment):		
From Manufacturers		
From Wholeselers		
From Retailers	<u> </u>	
Interest		
Depreciation		
Specify Any Major Capital Expenditure (by type):	-	
Insurance		
Other Expenses:		
Specify:		

Taxes		
Federal		
State and Local		
Crevshares and Wages		
Total 1980 Expenses		
PENTANCE. THE TE AN AVAILABLE		

REMINDER: THIS IS AN ANONYMOUS QUESTIONNAIRE. PLEASE DO NOT SIGN.

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STATISTICAL ENTRY CODE

ATTACHMENT 6

PROTOCOL FOR INTERVIEW SESSIONS WITH FISH HARVESTING SECTOR EXPERTS

1. Fleet Characteristics

- a. Number of vessels; seasonal/annual fluctuations
- b. Vessel age; mean and distribution
- c. Vessel size; mean and distribution
- d. Crew size; mean and distribution

How do operating procedures and input/output relationships change with a through d?

2. Primary/Secondary Gear

- a. What types of gear are used; how often; why
- b. Significance of gear changes between seasons; between years
- c. Impacts of biological, technical, economic, political changes within seasons, between years

3. Fishing Intensity

- a. How many full-time/part-time fishermen
- b. Average number annual and seasonal fishing days
- c. Relationship of costs/catches to fishing time
- d. Changes in target species affect crew size, cost, etc.

4. Fish Abundance/Availability/Catchability

- a. 1980 vs previous years and outlook
- b. Impact of 4 on 2 and 3, etc.
- c. Distance of fishing areas for primary, secondary species

5. Fish Markets

- a. Ex-vessel market size; number of buyers/sellers; alternative markets
- Volume landings; distribution throughout season, seasonal price fluctuations
- c. Stability of ex-vessel prices for primary and secondary species; effect of pricing on fishing activities
- d. 1980 vs earlier years and outlook

6. Federal and State Regulations

- a. Impacts on fishing activities, prices, cost of fishing
- Special circumstances during 1980
- c. Stability of regulations and expected changes for 1980 conditions

ATTACEMENT 7

AGENDA FOR FISHERMEN REVIEW OF INPUT-OUTPUT DATA

Conducted at Readquarters of

Pacific Coast Federation of Fishermen's Association
Saucilito, CA

April 28 and 29, 1981

TUESDAY APRIL 28, 1981

TOESDAY APRIL 28, 1901	•
10:00 - 11:00 a.m.	King/Shellhammer
	 a. Outline I=O model of California fisheries
	b. Discuss methods of data collection, data analysis and uses of I-O model
	 Demonstrate use of I-O model using fishery sector of CBARC model
11:00 - 12:00 Noon	 Outline information required from reviewers and intended users
12:00 - 1:30 p.m.	LUNCH
1:30 - 3:00 p.m.	Review and discussion of each Harvesting Sector Including:
	- Size and condition of fleets
	- Location of major fleets
	~ Primary and secondary gear
	- Primary and secondary target species
	- Market conditions and prices
	- Political and regulatory setting
	- Special industry problems
3:00 - 4:30 p.m.	Review of Primary Data (Mail Survey)
	- Assessment of output/market distribution
	- Assessment of input/cost distribution
	- Criteria for resectoring harvestors
	- 1980 vs past years
	- 1980 vs future years
	• · · · = - ·

WEDNESDAY APRIL 29, 1981

9:00 - 11:00 a.m. Review of Secondary Data (Published Work)

AGENDA (Continued) Page 2

- Individual reviewers evaluate and rank relevance of published cost and earnings reports with regard to differences in:
 - Operating costs
 - Target species
 - Fishing and sea conditions
 - Market and price conditions
 - Political and regulatory conditions

11:00 - 12:00 Noon

Review of Fish Processing Sectors

- Sector definitions
- Size, location and condition of exvessel markets

12:00 - 1:00 p.m.

Estimate distributions of sales by species/by sector to various categories of fish buyers

1:00 - 2:00 p.m.

LUNCH

2:00 - 3:00 p.m.

Clean up.