



A N N U A L R E P O R T

1 9 8 5

FISHERIES DIVISION

MINISTRY OF PRIMARY INDUSTRIES

SUVA FIJI

1985 ANNUAL REPORT

| <u>TABLE OF CONTENTS</u> | <u>PAGE</u> |
|---|-------------|
| 1. <u>INTRODUCTION</u> | 3 |
| 2. <u>THE FISHERIES DIVISION</u> | 4 |
| 2.1. <u>PERSONNEL</u> | 4 |
| 2.1.1. ADMINISTRATION AND PERSONNEL | 4 |
| 2.1.2. AID PERSONNEL | 4 |
| 2.1.3. STAFF TRAINING | 5 |
| 2.2. <u>FINANCE</u> | 5 |
| 2.2.1. EXPENDITURE | 5 |
| 2.2.2. REVENUE | 5 |
| 2.3. <u>VESSELS</u> | 5 |
| 2.4. <u>VEHICLES</u> | 6 |
| 2.5. <u>BUILDINGS, PLANT AND OTHER FACILITIES</u> | 6 |
| 3. <u>COMMERCIAL FISHERIES</u> | 7 |
| 3.1. <u>THE INDUSTRIAL TUNA FISHERY</u> | 7 |
| <u>TUNA LANDINGS</u> | 7 |
| 3.1.1. POLE AND LINE VESSELS | 7 |
| 3.1.2. PURSE SEINE VESSELS | 7 |
| 3.1.3. LONGLINE VESSELS | 7 |
| 3.1.4. PACIFIC FISHING COMPANY | 7 |
| <u>TUNA PROCESSING AND SALES</u> | 7 |
| 3.1.6. CANNED TUNA | 7 |
| 3.1.7. FISHMEAL PRODUCTION | 7 |
| 3.2. <u>THE ARTISANAL FISHERY</u> | 8 |
| <u>FISH AND NON FISH PRODUCTS</u> | 8 |
| 3.2.1. FISH SALES | 8 |
| 3.2.2. NON FISH SALES | 8 |
| 3.3. <u>EXPORTS AND IMPORTS</u> | 8 |
| 3.4. <u>SUMMARY OF LOCAL FISH PRODUCTION</u> | 9 |

| | | |
|---------|--|----|
| 4. | <u>THE WORK OF THE FISHERIES DIVISION</u> | 10 |
| 4.1. | <u>RESOURCE ASSESSMENT AND DEVELOPMENT</u> | 10 |
| 4.1.1 | MARKET SURVEY | 10 |
| 4.1.2. | BAITFISH AND TUNA | 10 |
| 4.1.3. | EEZ SURVEY | 10 |
| 4.1.4. | STOCK ASSESSMENT | 10 |
| 4.1.5. | FISH AGGREGATION DEVICES | 11 |
| 4.1.6. | DEEPWATER SNAPPER | 11 |
| 4.1.7. | MISCELLANEOUS MARINE PRODUCTS | 11 |
| 4.1.8. | MANGROVE SURVEY | 11 |
| 4.1.9. | SEAWEED CULTURE | 11 |
| 4.1.10. | GIANT CLAM SURVEY | 12 |
| 4.1.11. | FRESHWATER FISHERIES | 12 |
| 4.2. | <u>AQUACULTURE</u> | 12 |
| 4.2.1. | NADURULOLOU STATION | 12 |
| 4.2.2. | RAVIRAVI PRAWN PROJECT | 13 |
| 4.2.3. | AQUACULTURE EXTENSION | 13 |
| 4.3. | <u>TECHNICAL SERVICES</u> | 13 |
| 4.3.1. | BOAT BUILDING PROGRAMME | 13 |
| 4.3.2. | FIJI DEVELOPMENT BANK LOAN ASSESSMENT | 14 |
| 4.3.3. | FISHING GEAR SALES | 14 |
| 4.3.4. | ICE PRODUCTION | 14 |
| 4.4. | <u>REGULATORY WORK</u> | 14 |
| 4.5. | <u>INFORMATION AND LIBRARY SERVICES</u> | 15 |
| 5. | <u>APPENDIX TABLES</u> | |
| A1. | ICE PRODUCTION | 16 |
| A2. | FISHERMEN PER DIVISION | 16 |
| A3. | VESSELS BY DIVISION | 16 |
| A4. | STAFF TRAINING LIST | 17 |
| B1. | TUNA RECORD PER ZONE | 18 |
| B2. | TUNA RECORDS BY VESSEL BY MONTH | 20 |
| B3. | UNLOADING QUANTITY OF FISH BY SPECIES BY PAFCO | 21 |
| B4. | UNLOADING QUANTITY BY BOATS AT PAFCO | 22 |
| B5. | BAIT RECORDS | 23 |
| C1. | ANNUAL DOMESTIC SALES FROM PAFCO | 24 |
| C2. | EXPORT OF FISH AND FISH PREPARATION | 25 |
| C3. | IMPORT OF FISH AND FISH PREPARATION | 26 |
| D1. | WEIGHTED MEAN PRICE FOR FISH PRODUCTS AT M/M | 27 |
| D2. | MEAN PRICE FOR NON FISH PRODUCTS AT M/M | 28 |
| D3. | VOLUME OF FISH SALES AT M/M OUTLETS | 29 |
| D4. | VOLUME OF NON FISH SALES AT M/M OUTLETS | 30 |
| D5. | VOLUME OF FISH SALES AT NON M/M OUTLETS | 31 |
| D6. | VOLUME OF NON FISH SALES AT NON M/M OUTLETS | 32 |

M/M = MUNICIPAL MARKET

1. INTRODUCTION

This report provides a concise summary of Fisheries Division activities during calendar year 1985 and production details of the fisheries sector.

1985 was the final year of the Development Plan 8 period (1981 -1985) during which the major objectives for the fisheries sector were to

- a) increase production to satisfy local demand for fish and fish products, both freshwater and marine.
- b) increase fish catch and production of fish products for export.
- c) increase local value added in the fisheries sector.

During DP8, significant progress was effected in resource identification, provision of necessary infrastructures and improvements to marketing arrangements. Financial assistance and some incentives were also provided. Training programmes were initiated and extension work continued. New directions were sought for the development of the tuna industry and for aquaculture development.

Rural and commercial artisanal fisheries development continued to be the basis of Government activity. Previously identified operating constraints such as an inadequate understanding of the exploitable resources, lack of incentives to join the industry, absence of servicing facilities, lack of practical knowledge of fish handling and processing techniques, lack of trained staff and limited capital investment were partly rectified. The resultant increase in employment and production was encouraging and the strategies will be continued and consolidated in the DP9 period. An increasing awareness of the potential of the fisheries sector was forthcoming in the private sector which has resulted in substantial investment by private investors in the collection and marketing of fish and to a lesser extent in the exploitation of fish.

During 1985, despite the effect of severe cyclones early in the year, commercial fish production showed a slight increase, to 5860 tonnes, valued at over F\$9 million. Production for the industrial fishery showed a slight decline, with exports of canned fish valued at F\$12.5 million. Encouraging progress was noted in small scale exports (fresh deepwater snappers, aquarium fish), aquaculture (seaweed, marine prawn farming) and local value added (trochus shell processing). Institutional arrangements within the fisheries sector are being rationalized and general awareness of the potential of fisheries in Fiji's economic development is increasing.

2. THE FISHERIES DIVISION

The Fisheries Division of the Ministry of Primary Industries has its headquarters at Lami, outside Suva. The four Administrative Divisions of Fiji are the primary organizational units, with Divisional Offices in Lautoka (Western Division), Labasa (Northern), Nausori (Central) and Lami (Eastern). These respectively service subsidiary offices in Raki Raki, Tavua, Ba and Sigatoka (Western), Taveuni, Savu Savu and Nabouwalu (Northern) and Lakeba, Vunisea and Levuka (Eastern).

2.1 PERSONNEL

2.1.1 ADMINISTRATION AND PERSONNEL

The freeze on recruitment continued on the existing 116 posts, 104 of which were occupied. Six administrative staff continued to manage internal activities including wages, revenue, expenditure and store keeping for the Division during 1985. No additional posts were created.

TABLE 1 FISHERIES DIVISION STAFF STRUCTURE

| <u>DESIGNATIONS</u> | <u>SCALE</u> | <u>ESTABLISHED</u> | <u>FILLED</u> | <u>VACANCIES</u> |
|--|--------------|--------------------|---------------|----------------------|
| Chief Fisheries Officer | US03 | 1 | 1 | - |
| Principal Fisheries Officer | NS01 | 3 | 3 | - |
| Senior Fisheries/ Fisheries Officer | NS02/3 | 13 | 12 | 1 (Advertised) |
| Fisheries Technical Officer | NS05 | 17 | 17 | - |
| Senior / Fisheries Assistant | NS06/7 | 73 | 63 | 10 (2 Advertised) |
| Library Assistant | AD06 | 1 | 1 | - |
| Executive Officers | AD05 | 1 | 1 | - |
| Asst. Accounts Officer | AD05 | 1 | - | - |
| Senior/Clerical Officer | AD06/7 | 2 | 2 | - |
| Stenographer/Typist | RT06 | 2 | 2 | - |
| Stores Officer II | SK06 | 1 | 1 | - |
| Storeman | SK07 | 1 | 1 | - |
| <u>TOTAL</u> | | <u>116</u> | <u>104</u> | |

2.1.2 AID PERSONNEL

The five man JICA team continued work on the joint Fiji - Japan aquaculture development programme. The CNEOX biologist continued to work on Raviravi prawn farm project. Of the two US Peace Corp Volunteers who joined the Division in the year, one was attached to the Information section and the other to freshwater fisheries. Several consultants

assisted the Fisheries Division on a short term basis throughout the year.

2.1.3 STAFF TRAINING

In 1985 a number of staff members attended training courses of varying durations locally and overseas. (see Appendix Table A4.)

2.2 FINANCE

2.2.1 EXPENDITURE

Total expenditure including aid for 1985 was \$2.3 million. This was disbursed as in Table 2.

TABLE 2. FISHERIES DIVISION EXPENDITURE 1985

| | |
|---|-----------------------|
| Number Of Permanent Staff | 104 |
| Salaries | \$1,030,179.05 |
| Operational Costs | \$ 245,795.36 |
| Capital Expenditure (predominantly Aid in Kind) | \$1,010,385.21 |
| <u>Total</u> | <u>\$2,286,359.62</u> |

2.2.2 REVENUE

Revenue for 1985 totalled \$450,315.

TABLE 3.

| <u>ITEM</u> | <u>VALUE (\$)</u> |
|---------------------------------------|-------------------|
| Service fees (use of freezer by NMA) | 6888 |
| Commission (Beche-de-mer sales - 10%) | 905 |
| Fish sales (Fisheries vessels) | 1994 |
| Fishing vessels - trainee | 154100 |
| - commercial | 100300 |
| Fishing gear | 36463 |
| Fishing licences - local | 12889 |
| - foreign | 150 |
| Ice | 136626 |
| <u>Total</u> | <u>\$450,315</u> |

2.3 VESSELS

A fleet of 14 powered vessels were used by the Fisheries Division, of which seven were based in Lami, two in Lautoka, two in Labasa/Savusavu, one in Taveuni, one in Levuka and one in Lakeba. (See Appendix Table A3.)

2.4 VEHICLES

The Division utilized a fleet of 21 vehicles and 2 motorbikes. Of these, 4 vehicles and 1 motorbike were used in the western division, 4 vehicles in the north and 14 vehicles and 1 motorbike in the central division. One new vehicle was added to the divisional pool in the year.

2.5 BUILDINGS, PLANT AND OTHER FACILITIES

During 1985, 6 new prefabricated staff quarters were constructed by Union Manufacturing and Marketing Co Ltd. These were sited at Vunisea, Kadavu, Sigatoka and Nabouwalu, in support of the newly established offices, and at Lami to provide additional office space.

A new office complex/workshop was constructed at Labasa (inclusive of a small ramp) and 4 new ice plants (1 ton/24hr capacity) were installed in Rakiraki, Sigatoka, Navua and Kadavu.

3. COMMERCIAL FISHERIES

3.1. THE INDUSTRIAL TUNA FISHERY

TUNA LANDINGS

3.1.1 POLE AND LINE VESSELS

The Ika Corporation fleet of 7 vessels, 3 Ika owned, 2 chartered Hokoku Marine vessels and two other privately owned pole and line vessels continued to fish in Fiji waters. A total of 3235 tonnes was landed and sold to Pacific Fishing Company for \$2.32 million. (See Appendix Table B1)

3.1.2. PURSE SEINE VESSELS

During 1985, only one purse seine vessel was licensed to fish in Fiji waters. Approximately 693 tonnes were caught and sold to PAFCO for \$497,400.

3.1.3. LONGLINE VESSELS

A total of ten longline vessels were contracted by PAFCO during 1985. Total landings of fish were 2105.6 tonnes, valued at approximately \$3.75 million. Landings increased by 14.9% compared to 1984. (See Appendix Table B2.)

3.1.4. PACIFIC FISHING COMPANY

PAFCO received a total of 8424.8 tonnes of fish in 1985. Of these 38.6% were from pole and line vessels, 8.2% from purse seiners, 24.9% from longliners and the remaining 28.2% imported. (See Appendix Tables B3, B4.)

TUNA PROCESSING AND SALES

3.1.5. CANNED TUNA

A total of 391047 cartons (48 X 7oz) of canned fish were produced using 6820.97 tonnes of fish. Production was down by 9.3%. 555,554 cartons of tuna valued at \$12.5 million were exported and 7,400 cartons valued at \$106,509 were sold locally. (See Appendix Table C1.)

3.1.6. FISHMEAL PRODUCTION

Approximately 652.185 tonnes of fishmeal were produced and sold locally for \$324,700.

3.2. THE ARTISANAL FISHERY

FISH AND NON FISH PRODUCTS

3.2.1. FISH SALES

The total volume of fish sold through wholesale and retail outlets was 4083.7 tonnes, valued at \$8.1 million, an increase of 3.1% in volume and 9.8% by value compared with 1984. 65.9% was distributed through other outlets, which includes hotels, restaurants, cafes, butchers, wholesale fish dealers, shops, supermarkets and roadsides whilst municipal markets accounted for 24.8% and N.M.A 9.2%. (See Appendix Table D1,D3,D5)

3.2.2 NON FISH SALES

An estimated 1599.08 tonnes of aquatic non-fish products valued at \$1.003 million was sold through the municipal markets, NMA and other outlets. Sales were down by 10.1% in volume and 40.1% in value. (See Appendix table D2,D4,D6)

3.3. EXPORTS AND IMPORTS

In 1985, an estimated total of 1546 tonnes of fish products valued at \$13.31 million, and including 555,554 cartons of canned fish valued at \$12.5 million and \$96,475 worth of live aquarium fish were exported. (See Appendix Table C2.)

Exports of nonfish products included 308 tonnes (whole shell equivalent) of trochus valued at \$690,000, 16.1 tonnes of mother-of-pearl valued at \$56,000, 62.2 tonnes of beche-de-mer valued at \$660,000 and 10.82 tonnes of shark fin valued at \$108,200.

According to the Bureau of Statistics, imports of fishery products totalled 6090.28 tonnes valued at \$7.87 million in 1985. This excludes 5134 tonnes of tuna valued at \$6.19 million caught by chartered vessels and processed at PAFCO. (See Appendix Table C3.)

3.4 SUMMARY OF LOCAL FISH PRODUCTION

Table 4 summarizes details of local fisheries production for the period 1979 - 1985 inclusive.

*25/81
26 m.*

TABLE 4. SUMMARY OF LOCAL FISH PRODUCTION

| CLASSIFICATION | 1979 | | 1980 | | 1981 | | 1982 | | 1983 | | 1984 | | 1985 | |
|------------------------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| | Wgt | Value \$1000 | Wgt | Value \$1000 | Wgt | Value \$1000 | Wgt | Value \$1000 | Wgt | Value \$1000 | Wgt | Value \$1000 | Wgt | Value \$1000 |
| FISH & NON-FISH | | | | | | | | | | | | | | |
| Municipal Market | 839.4 | 1281 | 843.9 | 1348 | 1132.91 | 2022.22 | 973.71 | 1832.67 | 840.6 | 1575.8 | 925.3 | 1625.2 | 980.93 | 1638.2 |
| NMA | 195.9 | 177.5 | 133.3 | 193 | 192 | 234.67 | 136.13 | 660.78 | 290.6 | 365.56 | 276 | 277.13 | 379.33 | 656.93 |
| Other Outlets | 1040.3 | 1572 | 1537.6 | 2377 | 1305.16 | 3251.48 | 1755.76 | 3263.71 | 2360.6 | 4484.3 | 2728 | 5353.74 | 2691.04 | 5727.2 |
| Smoked Fish | | | | | 9.85 | 36.85 | 21.5 | 84.5 | 35.82 | 123.13 | 21.3 | 43.99 | 27.3 | 51 |
| Salted Fish | | | | | 9.65 | 41.74 | 26.7 | 80.1 | 33.8 | 141.73 | 9.7 | 38.63 | 5.1 | 20.5 |
| Sub total | 2075.6 | 3030.5 | 2514.8 | 3918 | 2649.57 | 5586.96 | 2913.8 | 5903.76 | 3561.42 | 6690.52 | 3960.3 | 7338.69 | 4083.7 | 8103.83 |
| NON-FISH PRODUCTS | | | | | | | | | | | | | | |
| Municipal Market | 885 | 322.2 | 956.4 | 662 | 1093.51 | 719.04 | 1443.1 | 2879.1 | 1450.3 | 880.96 | 1547.16 | 766.39 | 1175.7 | 643.83 |
| NMA & Other Outlets | 26.7 | 45.7 | 42 | 190 | 39.3 | 144.95 | 57.1 | 113.91 | 502.9 | 782.2 | 233.4 | 910.37 | 423.38 | 359.4 |
| Sub total | 911.7 | 367.9 | 998.4 | 852 | 1132.81 | 863.99 | 1500.2 | 2993.01 | 1953.2 | 1663.16 | 1780.56 | 1676.76 | 1599.08 | 1003.23 |
| RURAL FISHING SCHEME | | | | | | | | | | | | | | |
| | - | - | 14 | 150 | 79.04 | 104.99 | 99.4 | 133.32 | 143.8 | 192.03 | 121.76 | 169 | 180.7 | 256.94 |
| Total | 2987.3 | 3398.4 | 3527.2 | 4920 | 3861.42 | 6555.94 | 4513.4 | 9030.09 | 5658.42 | 8545.71 | 5862.62 | 9184.45 | 5863.48 | 9364 |
| SUBSISTENCE | | | | | | | | | | | | | | |
| | 13800 | | 14000 | | 14200 | | 14400 | | 14600 | | 14800 | | 15000 | |
| CANNERY PRODUCTION | | | | | | | | | | | | | | |
| Canned Fish (ctn) | 54766 | | 539647 | | 709622 | | 635461 | | 551321 | | 592484 | | 391047 | |
| Fish Meal | 376.15 | 228.98 | 357.25 | 156.8 | 640.15 | 279.33 | 717.5 | 329.67 | 741.4 | 312.8 | 682.18 | | 652.18 | 724.7 |
| Fish Oil | 43.5 | | | | | | | | | | | | | |
| INDUSTRIAL FISHERIES- | | | | | | | | | | | | | | |
| Pole & Line | 3495.7 | 1667.6 | 2500 | | 5828.2 | 4696.6 | 4664.3 | 3830 | 5468.9 | 3426.2 | 4572.8 | 3900 | 3252 | 2325.1 |
| Purse Seine | - | - | 47 | 1488 | 722.25 | 644.68 | 1006.7 | 812.6 | 1006 | 894.2 | 577.26 | 436.8 | 693 | 497.1 |
| Long Line | 3575.15 | | 5737 | | 3219.29 | 5073 | 2139.5 | 3371 | 1384.22 | 5581.8 | 1832.9 | 2200 | 2105.6 | 3751.5 |
| Other (Import) | | | | | | | | | 368 | 381.83 | 1987.3 | 1594.3 | 2374.2 | 1620.5 |
| Total | 7070.85 | 1667.6 | 8284 | 1488 | 9769.74 | 10414.2 | 7810.5 | 8013.6 | 8227.12 | 10284.0 | 8970.26 | 8131.1 | 8424.8 | 8194.2 |
| BAIT | | | | | | | | | | | | | | |
| | 84.12 | | 47.6 | | 110.59 | | 144.57 | | 114.56 | | 95.18 | | 57.2 | |
| EXPORT | | | | | | | | | | | | | | |
| Shark fin | 32.2 | 283.88 | 53.71 | 403 | 41.6 | 207.72 | 40.5 | 108.8 | 7.7 | 61.62 | 8 | 64 | 10.82 | 108.2 |
| Trochus | 166.49 | 165.13 | 180 | 104 | 182.7 | 109.64 | 219.1 | 328.65 | 334.1 | 576.9 | 340.1 | 646.19 | 274 | 534.3 |
| NOP | 22.79 | 50.22 | 29.8 | 66 | 70.05 | 26.42 | 17.1 | 51.1 | 22.3 | 80.28 | 23.6 | 84.96 | 16.1 | 56 |
| Beche-de-Mer | 10.43 | 86.45 | 16.4 | 169 | 15.84 | 109.08 | 34.6 | 346.03 | 32.9 | 394.8 | 53.7 | 451.35 | 66.203 | 660 |
| Frozen Crab | | | | | 4.1 | 20.41 | 4.26 | 34.08 | 1.5 | 12 | | | 0.042 | 0.183 |
| Frozen fish-Private | 1.5 | 19.8 | 2.9 | 14 | 5.4 | 24.41 | 7.5 | 37.5 | 3.1 | 15.5 | 4.6 | 46 | 26.6 | 133 |
| -PAFCO | 1346.11 | 1162.23 | 3615 | 5365.4 | 1673.3 | 2810.11 | 543.7 | 773.9 | 492.5 | 526.7 | 633.8 | 674.9 | 1153 | 1822.4 |
| Sub total | 1579.52 | 1767.71 | 3997.81 | 6121.4 | 1992.99 | 3307.79 | 866.76 | 1680.06 | 894.1 | 1667.8 | 1063.8 | 1967.4 | 1546.76 | 3314.08 |
| AQUARIUM FISH (NO) | | | | | | | | | | | | | | |
| | 11436 | 10.33 | | | | | | | | | 12866 | 2400 | 59404 | 96.475 |
| CANNED FISH (CTN) | | | | | | | | | | | | | | |
| | 496100 | 12241.7 | 346235 | 8615.5 | 662206 | 15468.1 | 574129 | 11310 | 771470 | 16416 | 589543 | 16088.5 | 555554 | 12497.1 |
| Total | | 12252.0 | | 8615.5 | | 15468.1 | | 11310 | | 16416 | | 18488.5 | | 12593.5 |
| Domestic canned | 6063 | 80.48 | 5954 | 76.91 | 6662 | 88.25 | 7691 | 108.96 | 7034 | 76.38 | 8678 | 116.82 | 7400 | 106.509 |

4. THE WORK OF THE FISHERIES DIVISION

4.1. RESOURCE ASSESMENT AND DEVELOPMENT

4.1.1. MARKET SURVEY

All municipal markets were surveyed six or more times per month, covering periods from Monday to Saturday. Approximately 80% of all other outlets were covered, though on a less frequent basis (once every three months).

An estimated 980.0 tonnes of fish and 1175.7 tonnes of non-fish products were sold through the municipal markets. 3124.65 tonnes were distributed through non-municipal market outlets and 401.53 tonnes through the National Marketing Authority.

The major non-fish product sold through municipal outlets was kai (FW mussel) which accounted for 79% of throughput by volume. (See Appendix Tables D1, D2, D3, D4, D5, D6)

4.1.2. BAITFISH AND TUNA

Bait and tuna data are continuously collected from pole and line vessels and compiled to monitor tuna fishing activities. Bait catch in 1985 totalled 31,788 buckets (approx. 57.2 tonnes) from 1073 sets in 740 nights. Lomaiviti (22.9%), Northern Lau (17.4%), and Levuka (14.3%) accounted for 54.6% of the total bait catch, while 45.5% were caught in other eight baiting zones.

A total of 3252 tonnes of tuna were landed in 1985 using 57.2 tonnes of bait or 17.5kgs of bait per tonne of tuna. (See Appendix Table B5.)

4.1.3. EEZ SURVEY

The Division continued to participate fully in the resource survey of the 200 miles EEZ of Fiji and Tuvalu (JICA funded). Surveys of snapper stocks on sea mounts using bottom lines gave encouraging results.

The joint survey, using the Tuvalu vessel Te-Tautai, will continue in 1986.

4.1.4. STOCK ASSESSMENT

Biological studies on growth and mortality of three tuna baitfish species, Herklotsichthys quadrimaculatus (Clupeidae), Rhabdamia gracilis (Apogonidae) and Spratelloides delicatulus (Clupeidae) have been concluded and will be published in 1986.

Other pilot biological studies on emperors (Lethrinidae), the single most valuable fish family in the

inshore catch, were completed last year and are in a draft form prior to publishing. These two papers will provide much needed information on the status of exploited stocks.

4.1.5. FISH AGGREGATION DEVICES

Of the 15 devices that were in position in early 1985, all were damaged by the three cyclones that swept through our shores except those east of Beqa and off Naboro respectively. Materials and design formulations were as recommended by South Pacific Commission studies.

4.1.6. DEEPWATER SNAPPER

Empasis was placed on encouraging local fishermen to efficiently exploit this resource and exploring the possibility of export. Several shipments were made to Hawaii with encouraging results and several local operators are now doing this routinely.

4.1.7. MISCELLANEOUS MARINE PRODUCTS

Export of aquarium fish were resumed during 1985 by a local joint venture company and exploratory exports of ornamental coral were also made. Small quantities of vasua (giant clam) and kai were also exported to overseas markets.

4.1.8. MANGROVE SURVEY

In 1985, The Fisheries Division received 17 reclamation applications involving 60.02ha. Reclamation was carried out mostly for industrial hotel and jetty development. Applications by division are as follows :-

| <u>DIVISION</u> | <u>NUMBER OF APPLICATIONS</u> | <u>AREA (HA)</u> |
|-----------------|-------------------------------|------------------|
| Central | 8 | 19.36 |
| Western | 6 | 32.49 |
| Northern | 3 | 8.17 |
| <u>Total</u> | <u>17</u> | <u>60.02</u> |

A Mangrove Management Plan for the three main delta areas of Fiji (Rewa, Ba and Labasa) was prepared at Cabinet direction, with SPREP funds. These areas comprise 40% of the total area under mangrove in Fiji. The plan was to be submitted to Cabinet for approval in 1986.

4.1.9. SEAWEED CULTURE

This project is moving towards a commercial basis after 20 months. Over 20 hectares of reef area was under seaweed culture at the end of 1985 which accounted for 35 farms. Over 30 tonnes of dried weed was produced and exported in 1985.

Tavua and Rakiraki produced 95% of all seaweed while 5% was distributed amongst Verata, Kaba, and Moturiki. Various prices paid for dried seaweed ranging from \$350/tonnes for unwashed, \$550 for semi-washed and \$650 for washed in freshwater and redried. The industry has provided new scope for employment and to date is employing more than 300 people on a part or full time basis.

4.1.10. GIANT CLAM SURVEY

The Fiji module of the ACIAR giant clam project started in mid 1984. This international programme was initiated to evaluate existing clam stocks in the region and to investigate the feasibility of clam culture.

Major and minor stock assessment surveys were made covering Vuata Ono, Vuata Vatoa and Navatu Reefs, Bukatatanoa and Reid Reefs, Bulia and Dravuni in the Astrolobe Reef, Vanuabalavu Barrier Reef, Nairai, Minerva Reef, Thakau Matacucu, the Great Sea Reef, coastal reefs of northern Vanua Levu, Bua and Naqelelevu. It was found that the abundance of clam stock was generally low on reefs close to inhabited islands, as well as in some more isolated areas due to poachers.

Tagging work is now in progress at 3 different sites (Vuata Ono, Nairai, and Naigani) and the results obtained after re-measuring will be of great importance in determining growth rates and future harvest policy.

4.1.11. FRESHWATER FISHERIES

With funds from the Australian small grants scheme, projects involving jungle perch (ika droka) and eels (duna) were initiated. The former seeks to learn more of the life history of ika droka, primarily by tagging fish in the Navua and the Rewa systems and biological sampling. In 1985, 285 ika droka were successfully captured and tagged. Of these, 16 have been recaptured. Efforts in the Rewa river drainage system have managed to tag 160 ika droka in 4 months, but despite adequate publicity and rewards no tagged fish have yet been returned.

Upstream movements of elvers were monitored during 1985 at a site in the Rewa delta and limited fyke netting trials carried out.

4.2 AQUACULTURE

4.2.1 NADURULOULOU STATION

During the year, the following projects/programmes were coordinated from the aquaculture station :

- 1) Finfish (Grass Carp) Culture Project (JICA)
- 11) Freshwater Prawn Culture Project (JICA)
- 111) Shellfish Culture Project

- 1V) Red Tilapia Project
- V) Rural Aquaculture Programme (US PCV)

Grass carps and Puntius have largely cleared the exotic Hydrilla weed from the Rewa River. Grass carp and silver carp were successfully induced to breed for the first time in Fiji. The Freshwater Prawn Hatchery based on the introduced Macrobrachium rosenbergii yielded more than 300,000 post larvae during the year. Mass production of prawn post larvae has been established as biologically feasible under Fiji conditions.

Green mussel spat have been transported to Savusavu for growout trials. Test marketing with the shellfish proved successful which encouraged experimental work to continue.

The red tilapia project was initially delayed because of the late arrival of the Taiwanese expert. Cage culture of the fish in a marine situation was initiated, as well as pond trials in various salinities.

The rural fish farming programme utilizing Peace Corp volunteers worked on consolidating the programme in Tailevu and Naitasiri Provinces and looked at means of increasing yields from village ponds.

4.2.2. RAVIRAVI PRAWN PROJECT

In September all construction works at the above farm were completed. A new company, Prawns Fiji Ltd. has taken over the operation on a commercial scale. This is now a fully commercial joint venture between France Aquaculture and FDB Nominees Ltd.

4.2.3. AQUACULTURE EXTENSION

About 11,000 grass carp were released in the Rewa River in the Lakena/Waila area, where Hydrilla had been observed, and 14,000 in the Waidalice River, the only river which still had a heavy biomass.

A total of 10,782 Tilapia fingerlings were distributed to rural subsistence fish farms; 8,000 mussels were transferred to Savusavu (Savarekareka Mission) where a raft was rigged and anchored. As to the end of the year no natural spat fall has been observed.

4.3. TECHNICAL SERVICES

4.3.1. BOAT BUILDING PROGRAMME

A total of thirty seven 28 foot vessels were constructed in 1985. Of these, twenty three were allocated to students who participated in the rural fishermen's

training programme, two built for the fisheries training programme, nine built for commercial fishermen and one sold to the Rabi Island Council. The remaining two were available for sale to fishermen.

4.3.2. FIJI DEVELOPMENT BANK LOAN ASSESSEMENT

In 1985, 229 loan applications were processed and submitted. Of these, 156 applications, totalling \$449,121, were approved showing a decrease of 16.1% in number and an increase of 22.8% in value over 1984.

4.3.3. FISHING GEAR SALES

During the year, a total of \$36,463 worth of fishing gear was sold to fishermen through the Fisheries Division's nine offices.

| <u>GEAR SALES</u> | <u>VALUE (\$)</u> |
|-------------------|-------------------|
| Lami | 15,698 |
| Labasa | 5,781 |
| Savusavu | 2,154 |
| Taveuni | 1,391 |
| Lautoka | 7,563 |
| Ba | 2,437 |
| Rakiraki | 409 |
| Tavua | 185 |
| Sigatoka | 184 |
| <u>TOTAL</u> | <u>\$36,463</u> |

Revenue from gear sales is placed in a revolving fund for further bulk purchase of fishing gear.

4.3.4. ICE PRODUCTION

The Division's nine ice plants produced 27 08 tonnes of ice in 1985. Of this, 2665.0 tonnes valued at \$136,626 were used by commercial fishermen while the remaining 43.7 tonnes were issued to Fisheries Division vessels. (See Appendix Table A1.)

4.4. REGULATORY WORK

In 1985, 1332 licensed fishermen and 3356 licensed crew were involved in fishing activities, utilizing 1323 fishing vessels. The figure showed a decrease of 13.4% in licensed fishermen, and 12.06% in licensed crew, and a decrease of 16.27% in the number of registered fishing vessels. Of all the licenses issued, 34.68% were for outside demarcated areas (ODA). (See Appendix Table A2.)

4.5 INFORMATION AND LIBRARY SERVICES

Fisheries related periodicals were made available to staff and members of the public through the Fisheries Division library. Visuals and newspaper supplements were produced to enhance public awareness of development activities in the fisheries sector. Several extension booklets and posters were produced during the year.

APPENDIX TABLES

A1. ICE PRODUCTION - 1985

| <u>CENTRAL DIVISION</u> | <u>PRODUCTION (MT)</u> | <u>SALES</u> | <u>VALUE (\$000)</u> |
|--------------------------|------------------------|--------------|----------------------|
| Lami | 591.34 | 547.63 | 28.28 |
| Wainibokasi | 610.41 | 610.41 | 30.47 |
| Navua | 29.30 | 29.30 | 1.62 |
| <u>WESTERN DIVISION</u> | | | |
| Lautoka | 536.5 | 536.5 | 27.69 |
| Sigatoka | 61.0 | 61.0 | 3.13 |
| Rakiraki | 47.0 | 47.0 | 1.82 |
| <u>NORTHERN DIVISION</u> | | | |
| Labasa | 635.5 | 635.5 | 32.49 |
| Savusavu | 136 | 136 | 7.33 |
| Taveuni | 61.62 | 61.62 | 3.23 |
| ----- | | | |
| TOTAL | 2708.67 | 2664.96 | 136.11 |
| ----- | | | |

A2. FISHERMAN PER DIVISION - 1985

| | <u>NO. OF LICENCES</u> | | <u>TOTAL CREW</u> |
|----------|------------------------|------------|-------------------|
| | <u>IDA</u> | <u>ODA</u> | |
| Central | 236 | 252 | 1654 |
| Western | 228 | 143 | 789 |
| Northern | 370 | 55 | 800 |
| Eastern | 44 | 4 | 113 |
| ----- | | | |
| TOTAL | 878 | 454 | 3356 |
| ----- | | | |

A3. VESSELS BY DIVISION - 1985

| | <u>CENTRAL</u> | <u>WESTERN</u> | <u>NORTHERN</u> | <u>EASTERN</u> |
|-------------------|----------------|----------------|-----------------|----------------|
| Punts | 85 | - | 82 | 8 |
| Launch | 142 | 34 | 82 | 10 |
| Outboard Punts | 239 | 89 | 192 | 30 |
| Half-cabin Launch | 106 | 223 | - | - |
| Skiffs | - | 1 | - | - |
| ----- | | | | |
| TOTAL | 572 | 347 | 356 | 48 |
| ----- | | | | |

A4

TRAINING OF FISHERIES DIVISION STAFF 1985

| <u>CENTRAL</u> | <u>OVERSEAS</u> | <u>LOCAL</u> |
|-------------------------|---|---------------------------|
| 1. S. Waqainabete | PNG-JICA - Fisheries | Ecosystem - MGT. - USP |
| 2. L. Balenacagi | SPC/Poly Tech - NZ | " " " |
| 3. K. Swamy | | EEZ - Mgt. - USP |
| 4. P. Singh | | " " " |
| 5. S. Tuilaulala | | 2nd Class Motor |
| 5. S.M. Singh | | Manufacturing & Trading |
| 7. T. Coriakula | | A/c |
| 8. A. Rahiman | | |
| 9. Dr. T. Lewis | Multilateral Treaty Negotiations - PNG | |
| 10. M. Lagibalavu | Study Visit - Taiwan | |
| 11. S. Cavuilati | High Level Meeting - Honiara | |
| 12. S. Sharma | | Computer - Suva |
| 13. T. Rabuli | | Safety - Suva |
| 14. J. Lesavua | | Safety - Suva |
| 15. G. Nath | Fish Processing - Korea | |
| 16. Taraivosa Biu | | Senior Stenographer-Suva |
| 17. S. Sharma | Statistics - SPC | |
| 18. S. Sewak | | Finance for Non-Finance |
| 19. R. Chand | Statistics - SPC | |
| 20. S. Cavuilati | | Strategic Mgt - USP |
| 21. M. Tauvoli | | Radar Observer |
| 22. K. Swamy | Mangrove Ecosystem- Bangkok | |
| 23. P. Singh | Mangrove Ecosystem- Singapore | |
| 24. J. Sogovale | | Computer App - Suva |
| 25. S. Sharma | Fishing Industry- Japan | |
| 26. S.M. Singh | | Staff Supervision - USP |
| 27. M. Lagibalavu | | " " " |
| 28. B. Tikomainiusiladi | | Staff Supervision - USP |
| <u>NORTHERN</u> | | |
| 1. S. Kumar | | Induction - Labasa |
| 2. M. Tumuri | | " " |
| 3. M. Baleivanualala | | Performance App. - Labasa |
| 4. M. Prasad | | Engineering |
| 5. S. Kumar | Deep Sea Coastal Fishing Tech. | |
| 6. F. Saumaki | | Registry Procedures |
| <u>WESTERN</u> | | |
| 1. C. Evening | | Staff Supervision - USP |
| 2. R. Kunaika | Marine Eng. - Korea | |
| 3. B. Kaumaitotoya | Coastal Fisheries II - Japan | |

B1

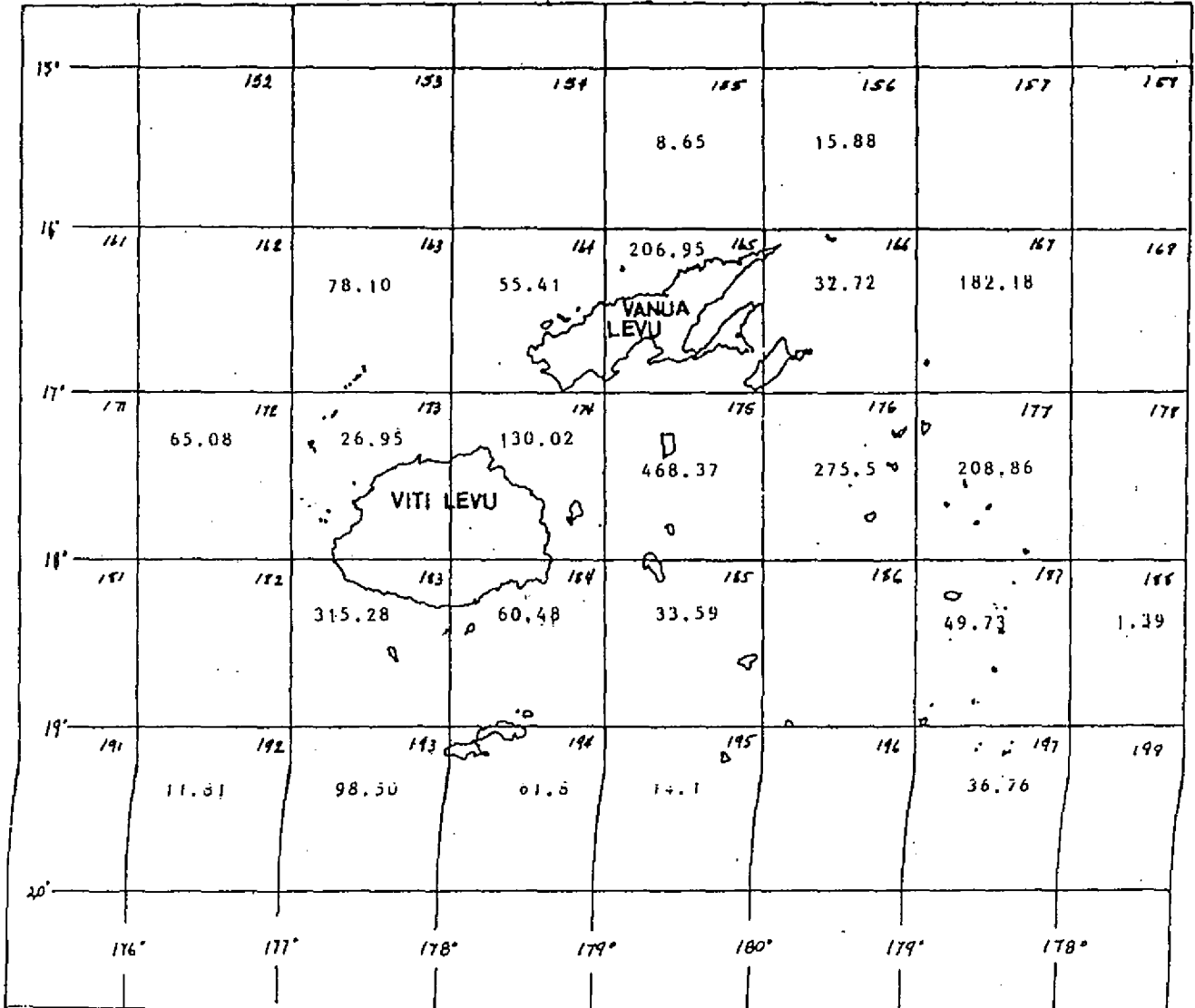
DISTRIBUTION OF TUNA CATCH AND EFFORT FOR 1985

| GRID NO | SKIP JACK | YELLOW FIN | TOTAL CATCH | FISHING DAYS | CATCH PER DAY | SCHOOLS SEEN | SCHOOLS FISHED |
|---------|-----------|------------|-------------|--------------|---------------|--------------|----------------|
| 148 | 3.44 | 0 | 3.44 | 1 | 3.44 | 3 | 3 |
| 155 | 7.6 | 1.05 | 8.65 | 4 | 2.16 | 20 | 18 |
| 156 | 14.28 | 1.6 | 15.88 | 8 | 1.99 | 26 | 19 |
| 163 | 77.71 | .39 | 78.1 | 24 | 3.25 | 60 | 42 |
| 164 | 51.09 | 4.32 | 55.41 | 11 | 5.04 | 61 | 36 |
| 165 | 169.23 | 37.72 | 206.95 | 70 | 2.96 | 312 | 263 |
| 166 | 31.22 | 1.5 | 32.72 | 14 | 2.34 | 47 | 44 |
| 167 | 160.65 | 21.53 | 182.18 | 35 | 5.21 | 190 | 170 |
| 172 | 57.06 | 8.02 | 65.08 | 16 | 4.07 | 79 | 52 |
| 173 | 23.15 | 3.8 | 26.95 | 6 | 4.49 | 51 | 27 |
| 174 | 121.67 | 8.35 | 130.02 | 32 | 4.06 | 150 | 138 |
| 175 | 405.98 | 62.39 | 468.37 | 177 | 2.65 | 688 | 576 |
| 176 | 245.86 | 29.64 | 275.5 | 103 | 2.68 | 404 | 329 |
| 177 | 181.44 | 27.42 | 208.86 | 44 | 4.75 | 161 | 145 |
| 183 | 292.85 | 22.43 | 315.28 | 80 | 3.94 | 290 | 239 |
| 184 | 47.47 | 13.01 | 60.48 | 21 | 2.88 | 60 | 55 |
| 185 | 29.53 | 4.06 | 33.59 | 14 | 2.40 | 37 | 31 |
| 187 | 43.02 | 6.71 | 49.73 | 15 | 3.32 | 61 | 48 |
| 188 | 1.39 | 0 | 1.39 | 2 | 0.70 | 5 | 5 |
| 192 | 11.81 | 0 | 11.81 | 9 | 1.31 | 65 | 63 |
| 193 | 84.1 | 14.4 | 98.5 | 21 | 4.69 | 96 | 73 |
| 194 | 36.3 | 25.5 | 61.8 | 16 | 3.86 | 82 | 70 |
| 195 | 8.2 | 5.9 | 14.1 | 2 | 7.05 | 10 | 7 |
| 197 | 36.76 | 0 | 36.76 | 12 | 3.06 | 33 | 32 |

Total number of schools seen = 2991
 Total number of schools fished = 2485
 Total catch by all vessels in all areas = 2441.55
 Total fishing days = 737
 Total catch per day = 3.31

B1.2

DISTRIBUTION OF TUNA CATCH AND EFFORT FOR 1985



B2.

1985 TUNA RECORDS BY VESSEL, BY MONTH

B2.

MONTH = JANUARY

| VESSEL | SKIP JACK | YELLOW FIN | TOTAL CATCH | FISHING DAYS | CATCH PER DAY | SCHOOLS SEEN | SCHOOLS FISHED |
|--------|-----------|------------|-------------|--------------|---------------|--------------|----------------|
| IKA 5 | 29.5 | 66.86 | 36.36 | 12 | 3.03 | 46 | 44 |
| IKA 7 | 47.76 | 2.49 | 50.25 | 18 | 2.792 | 49 | 43 |
| IKA 8 | 26.98 | 0 | 26.98 | 15 | 1.799 | 27 | 23 |
| HM 7 | 88.42 | 13.1 | 101.52 | 20 | 5.076 | 123 | 68 |
| HM 8 | 100.1 | 6.7 | 106.8 | 21 | 5.086 | 128 | 100 |

Total number of schools seen = 373
 Total number of schools fished = 278
 Total catch by all vessels in all areas = 321.91
 Total fishing days = 86
 Total catch per day (effort) = 3.743

MONTH = FEBRUARY

| | | | | | | | |
|-------|--------|-------|--------|----|-------|-----|----|
| IKA 5 | 42.5 | 10.36 | 52.86 | 16 | 3.304 | 64 | 61 |
| IKA 7 | 49.24 | 0 | 49.24 | 21 | 2.345 | 61 | 55 |
| IKA 8 | 23.37 | 0 | 23.37 | 14 | 1.669 | 26 | 21 |
| HM 7 | 112.49 | 10.7 | 123.19 | 19 | 6.484 | 82 | 77 |
| HM 8 | 91.8 | 11.4 | 103.2 | 21 | 4.914 | 111 | 98 |

Total number of schools seen = 344
 Total number of schools fished = 312
 Total catch by all vessels in all areas = 351.86
 Total fishing days = 91
 Total catch per day (effort) = 3.867

MONTH = MARCH

| | | | | | | | |
|-------|-------|------|-------|----|-------|-----|-----|
| IKA 5 | 30.34 | 2.99 | 33.33 | 20 | 1.667 | 62 | 39 |
| IKA 7 | 64.77 | 0 | 64.77 | 20 | 3.209 | 64 | 48 |
| HM 7 | 90 | 8.3 | 98.3 | 20 | 4.915 | 111 | 111 |
| HM 8 | 87.5 | 9.05 | 96.55 | 26 | 3.713 | 154 | 133 |

Total number of schools seen = 391
 Total number of schools fished = 331
 Total catch by all vessels in all areas = 292.35
 Total fishing days = 86
 Total catch per day (effort) = 3.399

B2.2
 MONTH = JULY

| VESSEL | SKIP JACK | YELLOW FIN | TOTAL CATCH | FISHING DAYS | CATCH PER DAY | SCHOOLS SEEN | SCHOOLS FISHED |
|--------|-----------|------------|-------------|--------------|---------------|--------------|----------------|
| IKA 7 | 22.67 | 0 | 22.67 | 14 | 1.619 | 81 | 78 |
| IKA 8 | 17.79 | 4.54 | 22.33 | 16 | 1.396 | 36 | 26 |
| HM 7 | 15 | 6 | 21 | 12 | 1.75 | 35 | 27 |
| HM 8 | 39.6 | 6.1 | 45.7 | 13 | 3.515 | 92 | 57 |

Total number of schools seen = 244
 Total number of schools fished = 188
 Total catch by all vessels in all areas = 111.7
 Total fishing days = 55
 Total catch per day (effort) = 2.031

MONTH = DECEMBER

| | | | | | | | |
|-------|-------|-------|-------|----|-------|----|----|
| IKA 5 | 58.33 | 15.83 | 74.16 | 21 | 3.531 | 40 | 40 |
| IKA 7 | 36.39 | 0 | 36.39 | 22 | 1.654 | 68 | 65 |
| HM 7 | 115.8 | 5.7 | 121.5 | 19 | 6.395 | 62 | 55 |
| HM 8 | 52.93 | 8.52 | 61.45 | 15 | 4.097 | 77 | 71 |

Total number of schools seen = 247
 Total number of schools fished = 231
 Total catch by all vessels in all areas = 293.5
 Total fishing days = 77
 Total catch per day (effort) = 3.812

TOTAL

| | | | | | | | |
|-------|--------|--------|--------|-----|-------|-----|-----|
| IKA 5 | 390.8 | 44.85 | 425.65 | 126 | 3.378 | 393 | 315 |
| IKA 7 | 339.92 | 2.49 | 342.41 | 149 | 2.298 | 498 | 437 |
| IKA 8 | 203.44 | 15.87 | 219.31 | 135 | 1.625 | 367 | 300 |
| HM 7 | 664.15 | 115.79 | 779.94 | 159 | 4.967 | 763 | 630 |
| HM 8 | 553.5 | 120.74 | 674.24 | 168 | 4.013 | 965 | 795 |

Total number of schools seen = 2991
 Total number of schools fished = 2485
 Total catch by all vessels in all areas = 2441.55
 Total fishing days = 737
 Total catch per day (effort) = 3.313

B2.1

MONTH = APRIL

| VESSEL | SKIP JACK | YELLOW FIN | TOTAL CATCH | FISHING DAYS | CATCH PER DAY | SCHOOLS SEEN | SCHOOLS FISHED |
|--------|-----------|------------|-------------|--------------|---------------|--------------|----------------|
| IKA 5 | 52.09 | 2.94 | 55.07 | 19 | 2.898 | 84 | 58 |
| IKA 7 | 18.79 | 0 | 18.79 | 14 | 1.342 | 55 | 47 |
| IKA 8 | 32.3 | 0 | 32.3 | 20 | 1.615 | 49 | 41 |
| HM 7 | 122 | 19 | 141 | 23 | 6.109 | 139 | 114 |
| HM 8 | 48.36 | 18.7 | 67.06 | 24 | 2.794 | 144 | 121 |

Total number of schools seen = 453
 Total number of schools fished = 379
 Total catch by all vessels in all areas = 314.22
 Total catch per day (effort) = 3.142

MONTH = MAY

| | | | | | | | |
|-------|-------|-------|-------|----|-------|-----|-----|
| IKA 5 | 72.4 | 1.75 | 74.15 | 18 | 4.119 | 45 | 32 |
| IKA 7 | 45.75 | 0 | 45.75 | 23 | 1.989 | 89 | 70 |
| IKA 8 | 34.85 | 2.75 | 37.6 | 24 | 1.567 | 84 | 74 |
| HM 7 | 57.17 | 29 | 86.17 | 23 | 3.747 | 111 | 101 |
| HM 8 | 69.4 | 27.31 | 96.71 | 24 | 4.03 | 143 | 128 |

Total number of schools seen = 472
 Total number of schools fished = 405
 Total catch by all vessels in all areas = 340.38
 Total fishing days = 112
 Total catch per day (effort) = 3.039

MONTH = JUNE

| | | | | | | | |
|-------|-------|-------|-------|----|-------|-----|----|
| IKA 5 | 95.64 | 4.08 | 99.72 | 20 | 4.986 | 75 | 43 |
| IKA 7 | 55.22 | 0 | 55.22 | 18 | 3.068 | 34 | 34 |
| IKA 8 | 34.92 | 2.96 | 37.88 | 20 | 1.894 | 67 | 56 |
| HM 7 | 63.2 | 23.99 | 87.19 | 22 | 3.963 | 97 | 74 |
| HM 8 | 63.81 | 32.96 | 96.77 | 24 | 4.032 | 116 | 87 |

Total number of schools seen = 389
 Total number of schools fished = 294
 Total catch by all vessels in all areas = 376.78
 Total fishing days = 104
 Total catch per day (effort) = 3.623

B 3

UNLOADING QUANTITY OF FISH BY SPECIES AT PAFCO -1985

| SPECIES | MONTH | | | | | | | | | | | | Total |
|----------------|---------|---------|---------|---------|---------|---------|---------|----------|--------|----------|---------|---------|----------|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| 1) Long line | | | | | | | | | | | | | |
| ALBACORE | 301.564 | 168.230 | | 69.773 | 120.457 | | 143.653 | 326.087 | 64.267 | | 228.980 | 122.546 | 1545.557 |
| YELLOWFIN | 24.472 | 23.489 | | 37.451 | 83.285 | | 36.577 | 48.301 | 20.975 | | 64.636 | 24.000 | 363.186 |
| BIGEYE | 9.242 | 7.074 | | 20.263 | 8.533 | | 8.931 | 14.970 | 3.433 | | 18.917 | 40.272 | 131.635 |
| BLUE MARLIN † | 7.835 | 5.290 | | 3.391 | 4.539 | | 2.454 | 0.311 | 0.086 | | 6.091 | 4.499 | 34.496 |
| BLACK MARLIN | 0.703 | 0.195 | | 0.295 | 0.436 | | 0.255 | 0.317 | | | 0.306 | 0.680 | 3.187 |
| SWORD FISH | 4.254 | 3.270 | | 0.181 | 0.946 | | 0.752 | 5.513 | 0.230 | | 3.391 | 2.063 | 20.600 |
| STRIPED MARLIN | 6.630 | 4.858 | | 0.088 | 0.202 | | 4.205 | 10.233 | 0.530 | | 3.935 | 0.457 | 31.138 |
| SAIL FISH | 1.709 | 0.172 | | 0.287 | 0.998 | | 0.296 | 0.029 | 0.093 | | 1.313 | 0.159 | 5.056 |
| SPEAR FISH | 3.166 | 0.032 | | 0.374 | 0.937 | | 1.399 | 0.897 | 0.110 | | 0.213 | | 7.128 |
| WAHOO | 1.666 | 0.380 | | 0.631 | 1.086 | | | 0.040 | | | | | 3.803 |
| MAHI MAHI | 0.317 | | | 0.298 | 0.044 | | | 0.337 | | | | | 0.996 |
| SHARK | 1.607 | 1.477 | | 0.954 | 1.534 | | 1.387 | 4.756 | | | 1.499 | 0.501 | 13.715 |
| SKIPJACK | 1.727 | 0.702 | | 0.316 | 1.307 | | 0.993 | 2.098 | 0.904 | | 1.686 | 0.907 | 10.640 |
| Sub Total | 364.892 | 215.169 | 0.000 | 134.302 | 224.304 | 0.000 | 200.902 | 413.889 | 90.628 | 0.000 | 330.967 | 196.084 | 2171.137 |
| 2) Pole & Line | | | | | | | | | | | | | |
| ALBACORE | | | | | | | | | | | 1.669 | 1.684 | 3.353 |
| YELLOWFIN | 85.389 | 89.418 | 64.822 | 74.299 | 113.271 | 123.341 | 83.103 | | | 0.603 | 44.654 | 45.493 | 724.393 |
| BIGEYE | 0.408 | 0.215 | 0.169 | 0.288 | 0.075 | 0.169 | 0.174 | | | | | | 1.498 |
| SKIPJACK | 391.628 | 497.011 | 486.242 | 449.952 | 352.614 | 361.631 | 250.157 | | | 28.745 | 44.520 | 356.684 | 3219.184 |
| Sub Total | 477.425 | 586.644 | 551.233 | 524.539 | 465.960 | 485.141 | 333.434 | 0.000 | 0.000 | 29.348 | 90.843 | 403.861 | 3948.428 |
| 3) IMPORT | | | | | | | | | | | | | |
| SKIPJACK | | | | | 276.635 | | | 681.415 | | 1011.002 | 69.223 | | 2038.275 |
| YELLOWFIN | | | | | 0.094 | | | 0.078 | | 237.788 | 125.146 | | 363.106 |
| BIGEYE | | | | | | | | | | 0.955 | 7.930 | | 8.885 |
| Sub Total | 0.000 | 0.000 | 0.000 | 0.000 | 276.729 | 0.000 | 0.000 | 681.493 | 0.000 | 1249.745 | 202.299 | 0.000 | 2410.266 |
| Total | 842.317 | 801.813 | 551.233 | 658.841 | 966.993 | 485.141 | 534.336 | 1095.382 | 90.628 | 1279.093 | 624.109 | 599.945 | 8529.831 |

† Common English names used for billfish, rather than English equivalents of Japanese names

84.

UNLOADING QUANTITY BY BOATS AT PAFCD - 1985

| BOATS | MONTH | | | | | | | | | | | | Total |
|----------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-------|
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| 1) Long line | | | | | | | | | | | | | |
| SHIN KING YANG NO. 1 | 70 | | | 90 | | | | 97 | | | | 87 | 344 |
| NO. 3 | | | | | | | | | 91 | | | | 91 |
| LAH FAH | 107 | | | | 106 | | | 104 | | | | | 317 |
| LIAH SHENG | | 37 | | | 63 | | | | | | 97 | | 197 |
| JIN RUENN | | 103 | | | 55 | | | 4 | | | | 110 | 272 |
| CHANG NO. 1 | 26 | | | | | | 115 | | | | 106 | | 247 |
| SHENG YUH NO. 6 | 93 | | | 31 | | | | 39 | | | | | 153 |
| YONG BAR NO. 21 | 50 | | | | | | | | | | 129 | | 178 |
| SHIN KING YANG NO. | 29 | | | | | | | | | | | | 29 |
| LOFA | | 75 | | 13 | | | 86 | | | | | | 174 |
| Other | | | | | | | | | | | | | 0 |
| Sub Total | 365 | 215 | 0 | 134 | 224 | 0 | 201 | 244 | 91 | 0 | 331 | 197 | 2002 |
| 2) Pole & Line | | | | | | | | | | | | | |
| HATSUTORI 7 | 82 | 143 | 103 | 155 | 39 | 84 | 29 | | | | | 120 | 755 |
| HATSUTORI 8 | 124 | 66 | 104 | 98 | 52 | 94 | 93 | | | | | 57 | 608 |
| IKA NO. 5 | 14 | 54 | 37 | 55 | 73 | 87 | 53 | | | | | 77 | 450 |
| IKA NO. 7 | 67 | 31 | 75 | 29 | 43 | 60 | 25 | | | | | 31 | 361 |
| IKA NO. 9 | 43 | 25 | 18 | 39 | 51 | 31 | 34 | | | | 21 | 43 | 305 |
| TE TAUTAI | 2 | 1 | | | | | | | | 29 | 58 | 25 | 115 |
| INDEPENDENCE | 46 | 62 | 119 | 64 | 86 | 39 | 30 | | | | 12 | 51 | 509 |
| Sub Total | 378 | 362 | 456 | 440 | 344 | 395 | 264 | 0 | 0 | 29 | 91 | 404 | 3183 |
| 3) Purse seine | | | | | | | | | | | | | |
| WESTERN PACIFIC | 99 | 204 | 94 | 85 | 52 | 90 | 70 | | | | | | 694 |
| Sub Total | 99 | 204 | 94 | 85 | 52 | 90 | 70 | 0 | 0 | 0 | 0 | 0 | 694 |
| 4) Others | | | | | | | | | | | | | |
| PNG (IMPORT) | | | | | 277 | | | 681 | | 1250 | | | 2208 |
| KIRIBATI (") | | | | | | | | | | | 202 | | 202 |
| Sub Total | 0 | 0 | 0 | 0 | 277 | 0 | 0 | 681 | 0 | 1250 | 202 | 0 | 2410 |
| Total | 642 | 801 | 550 | 659 | 897 | 485 | 535 | 925 | 91 | 1279 | 624 | 601 | 8289 |

B5.

1985 Bait records by grid area

85.

| Area | Fishing days | Buckets | % of total |
|--------------|--------------|--------------|---------------|
| Lavuka | 38 | 4834 | 14.20 |
| Lomalviti | 163 | 8320 | 24.44 |
| Viti Levu | 104 | 3714 | 10.91 |
| Kadavu | 34 | 1039 | 3.05 |
| Savusavu | 33 | 1261 | 3.70 |
| N Vanua Levu | 42 | 1523 | 4.47 |
| E Vanua Levu | 61 | 2310 | 6.79 |
| Northern Lau | 130 | 6833 | 20.01 |
| Southern Lau | 79 | 4209 | 12.36 |
| TOTAL | 738 | 34043 | 100.00 |

SPECIES COMPOSITION

Area Lavuka

Fishing days = 85
 Total hauls = 118
 Total buckets = 4834
 Average hauls per day = 1.31
 Average buckets per haul = 40.97

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 275.25 | 5.69 |
| Sardine | 911.4 | 18.85 |
| Daniva | 2739.45 | 56.67 |
| Silver-side | 352.45 | 7.29 |
| Salala | 407 | 8.41 |
| Cardinal | 33.3 | 0.68 |
| Anchovy | 41.95 | 0.86 |
| Others | 13.2 | 1.51 |

Area Lomalviti

Fishing days = 163
 Total hauls = 241
 Total buckets = 8320
 Average hauls per day = 1.48
 Average buckets per haul = 34.52

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 1280.17 | 15.38 |
| Sardine | 2099.75 | 25.23 |
| Daniva | 1111.55 | 13.35 |
| Silver-side | 440.13 | 5.29 |
| Salala | 1251.9 | 15.04 |
| Cardinal | 924.27 | 11.10 |
| Anchovy | 689.58 | 8.28 |
| Others | 522.65 | 6.28 |

85.2

Area Viti Levu

Fishing days = 108
 Total hauls = 166
 Total buckets = 3714
 Average hauls per day = 1.54
 Average buckets per haul = 22.37

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 415.2 | 11.17 |
| Sardine | 1791.6 | 48.23 |
| Daniva | 267.45 | 7.20 |
| Silver-side | 150.4 | 4.04 |
| Salala | 137 | 3.69 |
| Cardinal | 155.55 | 4.18 |
| Anchovy | 354.15 | 9.54 |
| Others | 118.15 | 3.18 |

Area Kadavu

Fishing days = 34
 Total hauls = 38
 Total buckets = 1039
 Average hauls per day = 1.12
 Average buckets per haul = 27.34

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 174.05 | 16.74 |
| Sardine | 442.95 | 42.61 |
| Daniva | 150.6 | 14.49 |
| Silver-side | 317.5 | 30.54 |
| Salala | 60.95 | 5.86 |
| Cardinal | 23.1 | 2.22 |
| Anchovy | 24.1 | 2.32 |
| Others | 124.5 | 11.98 |

Area Savusavu

Fishing days = 33
 Total hauls = 55
 Total buckets = 1261
 Average hauls per day = 1.67
 Average buckets per haul = 22.93

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 71.4 | 5.66 |
| Sardine | 542.45 | 43.01 |
| Daniva | 189.6 | 15.03 |
| Silver-side | 24.6 | 1.96 |
| Salala | 123.7 | 9.81 |
| Cardinal | 67.1 | 5.32 |
| Anchovy | 149.8 | 11.87 |
| Others | 92.15 | 7.31 |

85.3

Area N Vanua Levu

Fishing days = 42
 Total hauls = 6
 Total buckets = 1523
 Average hauls per day = 1.62
 Average buckets per haul = 22.40

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 345.9 | 22.71 |
| Sardine | 343.75 | 22.57 |
| Daniva | 195.6 | 12.84 |
| Silver-side | 38.75 | 2.54 |
| Salala | 33 | 2.16 |
| Cardinal | 312.5 | 20.51 |
| Anchovy | 114.9 | 7.54 |
| Others | 138.6 | 9.1 |

Area E Vanua Levu

Fishing days = 61
 Total hauls = 89
 Total buckets = 2310
 Average hauls per day = 1.46
 Average buckets per haul = 25.96

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 170.7 | 7.38 |
| Sardine | 967.15 | 41.86 |
| Daniva | 160.85 | 6.96 |
| Silver-side | 54.2 | 2.34 |
| Salala | 117.65 | 5.09 |
| Cardinal | 320.8 | 13.88 |
| Anchovy | 490.63 | 21.23 |
| Others | 28.02 | 1.21 |

Area Northern Lau

Fishing days = 130
 Total hauls = 204
 Total buckets = 6833
 Average hauls per day = 1.57
 Average buckets per haul = 33.50

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 2382.15 | 34.86 |
| Sardine | 2097.15 | 30.69 |
| Daniva | 333.5 | 4.88 |
| Silver-side | 228.65 | 3.34 |
| Salala | 197.9 | 2.89 |
| Cardinal | 571.77 | 8.35 |
| Anchovy | 236.68 | 3.46 |
| Others | 785.8 | 11.5 |

85.4

Area Southern Lau

Fishing days = 79
 Total hauls = 114
 Total buckets = 4209
 Average hauls per day = 1.44
 Average buckets per haul = 36.92

| Species | Buckets | % |
|-------------|---------|-------|
| Sprat | 177.26 | 4.21 |
| Sardine | 1159.15 | 27.53 |
| Daniva | 228.57 | 5.43 |
| Silver-side | 211.77 | 5.03 |
| Salala | 266.57 | 6.33 |
| Cardinal | 13.1 | 0.31 |
| Anchovy | 41.5 | 0.98 |
| Others | 53.95 | 1.28 |

Grand Total

Fishing days = 738
 Total hauls = 1093
 Total buckets = 34043
 Average hauls per day = 1.48
 Average buckets per haul = 31.15

| Species | Buckets | % |
|-------------|----------|-------|
| Sprat | 5294.08 | 15.55 |
| Sardine | 10355.35 | 30.41 |
| Daniva | 1754.8 | 5.15 |
| Silver-side | 1532.9 | 4.5 |
| Salala | 2595.67 | 7.62 |
| Cardinal | 2420.89 | 7.11 |
| Anchovy | 2152.29 | 6.32 |
| Others | 1937.02 | 5.68 |

C1. ANNUAL DOMESTIC SALES FROM PAFCO CANNERY : 1985

| Commodities | Size | Quantity | Amount |
|------------------|-------------|--------------|----------------------|
| AC2 (R) | 48 x 6.5 oz | 1670 C/s | 23,149.60 |
| AC2 (Exp) | 48 x 6.5 oz | 23 C/s | 659.00 |
| ACL | 24 x 6.5 oz | 45 | 827.00 |
| ACL | 48 x 3.5 oz | 3 | 75.00 |
| ACL (BCP) | 24 x 6.5 oz | 3 | 55.00 |
| YN2C | 48 x 6.5 oz | 21 | 593.00 |
| YN2C | 48 x 7.0 oz | 2 | 58.50 |
| YN2 | 48 x 7.0 oz | 62 | 1,086.00 |
| YN2 | 48 x 3.5 oz | 8 | 120.00 |
| YN2 (RL) | 48 x 7.0 oz | 4998 | 67,937.00 |
| YN2 (OB) | 48 x 185 gm | 105 | 2,395.00 |
| YNLC | 24 x 6.5 oz | 11 | 155.00 |
| Ovalau Blue (IY) | | 60 | 1,620.00 |
| SJ2 | 48 x 7.0 oz | 27 | 546.00 |
| SJ2 | 48 x 3.5 oz | 3 | 15.00 |
| SJ2C | 48 x 7.0 oz | 2 | 60.00 |
| SJL | 24 x 6.5 oz | 7 | 185.00 |
| Canned Mackerel | | 338 | 6,854.00 |
| Petfood | | 81 | 674.00 |
| Fish meal | | 652.91 (M/T) | 324,723.90 |
| Others | | - | 1,934.00 |
| Total | | | \$ 433,727.00 |

Code:

RL or R = Red label
 Exp = export
 AC = Albacore
 YN = Yellow fin
 SJ = Skipjack
 OB = Ovalau Blue
 2 = Oil
 L = Water
 C = Chunks

C.2

EXPORT OF FISH AND FISH PREPARATIONS IN 1985

| Item Description | Unit | Quantity | Value |
|---|------|----------|--------|
| ----- | | | |
| A Fish, Live | (No) | | |
| United Kingdom | | 13600 | 41200 |
| United States | | 45804 | 55275 |
| ----- | | | |
| Total | | 59404 | 96475 |
| ----- | | | |
| B Fish, Fresh or Chilled | (Kg) | | |
| Australia | | 3161 | 11416 |
| Canada | | 901 | 2310 |
| Japan | | 257 | 919 |
| New Zealand | | 122 | 827 |
| United States | | 14214 | 51763 |
| ----- | | | |
| Total | | 18655 | 67235 |
| ----- | | | |
| C Fish, Frozen, Incl Fillets, Fresh, Chilled or Frozen | (Kg) | | |
| Australia | | 5934 | 20169 |
| Canada | | 2659 | 8774 |
| New Zealand | | 91 | 393 |
| United States | | 500 | 600 |
| ----- | | | |
| Total | | 9184 | 29936 |
| ----- | | | |
| D Fish Meal Fit For Human Consumption | (Kg) | | |
| Australia | | 6 | 25 |
| ----- | | | |
| Total | | 6 | 25 |
| ----- | | | |
| E Beche-de-mer | (Kg) | | |
| Australia | | 2493 | 26903 |
| Hong Kong | | 55306 | 262259 |
| New Zealand | | 764 | 6473 |
| Thailand | | 272 | 8685 |
| United States | | 7368 | 76661 |
| ----- | | | |
| Total | | 66203 | 380981 |
| ----- | | | |
| F Fish, Dried, Salted or in Brine | (Kg) | | |
| Australia | | 178 | 1321 |
| Canada | | 344 | 1478 |
| Hong Kong | | 9610 | 104170 |
| ----- | | | |
| Total | | 10132 | 106969 |

| Item Description | Unit | Quantity | Value |
|---|------|----------|----------|
| ----- | | | |
| G Crustaceans and Molluscus-Live | (Kg) | | |
| Australia | | 25 | 80 |
| Canada | | 17 | 103 |
| ----- | | | |
| Total | | 42 | 183 |
| ----- | | | |
| H Crustaceans, Molluscus, Chilled Frozen, Salted etc | (Kg) | | |
| Australia | | 7930 | 67049 |
| Canada | | 843 | 4991 |
| China-Taiwan | | 1824 | 15213 |
| Hong Kong | | 200 | 2308 |
| New Zealand | | 3417 | 7296 |
| United States | | 1363 | 14466 |
| ----- | | | |
| Total | | 15577 | 111323 |
| ----- | | | |
| I Other Prepared or Preserved, Fish Canned, etc | (Kg) | | |
| Australia | | 17770 | 54433 |
| Canada | | 450669 | 2097569 |
| French Polynesia | | 8402 | 19553 |
| Greece | | 3980 | 12323 |
| Japan | | 600 | 1787 |
| New Caledonia | | 3715 | 7708 |
| New Zealand | | 68017 | 136336 |
| Niue | | 1419 | 2823 |
| United Kingdom | | 2533940 | 8552176 |
| ----- | | | |
| Total | | 3088512 | 10884708 |
| ----- | | | |
| J Prepared or Preserved Crustaceans and Molluscus-Other | (Kg) | | |
| Australia | | 5 | 20 |
| Canada | | 1587 | 6662 |
| ----- | | | |
| Total | | 1592 | 6682 |

IMPORT OF FISH AND FISH PREPARATION IN 1985¹

C.3

| Item Description | Unit | Quantity | Value |
|--|------|----------|---------|
| A Fish, Live | No. | | |
| Japan | | 20000 | 10000 |
| Total | | 20000 | 10000 |
| B Fish, Fresh or Chilled | (Kg) | | |
| Australia | | 4000 | 3445 |
| NZ | | 37899 | 43694 |
| Trawlers-China (Taiwan) | | 28282 | 17633 |
| Total | | 76181 | 64682 |
| C Fish, Frozen, Incl Fillets, Fresh, Chilled or Frozen | (Kg) | | |
| American Samoa | | 19640 | 10658 |
| Australia | | 9250 | 12988 |
| China- People's Republic Of | | 6050 | 4356 |
| Kiribati | | 202299 | 176252 |
| Japan | | 509 | 1972 |
| New Zealand | | 165345 | 186204 |
| Papua New Guinea | | 2854662 | 2151447 |
| Tonga | | 173584 | 392622 |
| Tuvalu | | 29348 | 20739 |
| Trawlers-China (Taiwan) | | 1924988 | 3513798 |
| Total | | 5325675 | 6471096 |
| D Fish Meal Fit For Human Consumption | (Kg) | | |
| Japan | | 75 | 453 |
| Total | | 75 | 453 |
| E Fish, Gried, Salted, or in Brine | (Kg) | | |
| China- People's Republic Of | | 542 | 2981 |
| Hong Kong | | 80 | 340 |
| India | | 120 | 662 |
| Japan | | 445 | 3540 |
| New Zealand | | 9220 | 12018 |
| Tonga | | 661 | 2644 |
| Trawlers- China (Taiwan) | | 6560 | 26240 |
| Total | | 17628 | 48425 |
| F Crustaceans and Molluscs Live | (Kg) | | |
| Fahiti | | 434 | 11350 |
| New Caledonia | | 222 | 1379 |
| New Zealand | | 879 | 11391 |
| Total | | 1525 | 24120 |
| G Other Prepared or Preserved Fish, Canned etc | (Kg) | | |
| Australia | | 292 | 1182 |
| Canada | | 354496 | 494530 |
| China- People's Republic Of | | 8998 | 15726 |
| Denmark | | 15 | 77 |
| Hong Kong | | 902 | 2599 |
| Italy | | 10 | 24 |
| Japan | | 4941972 | 6089756 |
| Malaysia | | 14056 | 17825 |
| New Zealand | | 58368 | 449748 |
| Singapore | | 77 | 215 |
| Spain | | 107 | 593 |
| Thailand | | 20 | 23 |
| United States | | 797 | 7231 |
| Tot.. | | 5690124 | 7079525 |

| Item Description | Unit | Quantity | Value |
|--|------|----------|--------|
| H Crustaceans and Molluscs, Chilled, Frozen, Salted, etc | (Kg) | | |
| Australia | | 19572 | 203747 |
| Canada | | 20 | 329 |
| China- People's Republic Of | | 215 | 2247 |
| Hong Kong | | 341 | 3467 |
| Japan | | 1272 | 15588 |
| Malaysia | | 51 | 589 |
| New Zealand | | 16163 | 61877 |
| Philippines | | 200 | 2634 |
| Singapore | | 1520 | 19957 |
| Thailand | | 1010 | 11330 |
| Tonga | | 100 | 207 |
| Trawlers-China (Taiwan) | | 420 | 420 |
| Total | | 40904 | 327490 |
| I Caviar and Caviar Substitutes | | | |
| Fish-Marinades, Sausages | (Kg) | | |
| Australia | | 549 | 3283 |
| Canada | | 10 | 213 |
| China- People's Republic Of | | 14 | 138 |
| Denmark | | 179 | 1124 |
| Germany-Federal Republic Of | | 562 | 2593 |
| Japan | | 80 | 491 |
| New Zealand | | 497 | 1018 |
| Spain | | 26 | 577 |
| Total | | 1919 | 10437 |
| J Fish Pastes | (Kg) | | |
| Japan | | 53876 | 52446 |
| Total | | 53876 | 52446 |
| K Smoked Fish | (kg) | | |
| Australia | | 430 | 6451 |
| Canada | | 65 | 1171 |
| New Zealand | | 345 | 2128 |
| Total | | 840 | 9760 |
| L Prepared Or Preserved Crustaceans and Molluscs-Other | (Kg) | | |
| Australia | | 2999 | 18533 |
| Canada | | 25 | 190 |
| China- People's Republic Of | | 80 | 988 |
| Denmark | | 240 | 1893 |
| France | | 344 | 2281 |
| Germany- Federal Republic of | | 21 | 302 |
| Hong Kong | | 80 | 700 |
| Japan | | 53 | 594 |
| Korea-Republic Of | | 102 | 655 |
| Malaysia | | 620 | 5641 |
| New Zealand | | 1058 | 9621 |
| Norway | | 15 | 37 |
| Singapore | | 80 | 212 |
| Thailand | | 120 | 1730 |
| United States | | 37 | 73 |
| Total | | 6070 | 43450 |

| D.I. | WEIGHTED MEAN PRICE FOR FISH PRODUCTS AT MUNICIPAL MARKET OUTLETS-1985 | | | | | | | | | | | | | Northern Division | Mean Price \$/Kg |
|--------------|--|------------------|-------|---------|--------|----------|------------------|---------|------|-------|----------|--------|-------------|-------------------|------------------|
| | MARKET | Central Division | | | | | Western Division | | | | | Labasa | | | |
| SPECIES | Suva | Nausori | Navua | Tailevu | Lagere | Sigatoka | Nadi | Lautoka | Ba | Tavua | Rakiraki | Labasa | Price \$/Kg | | |
| | 2.22 | 2.16 | 1.84 | 1.64 | 2.16 | 1.6 | 1.87 | 1.97 | 1.89 | 1.66 | 1.76 | 1.5 | 1.86 | | |
| Yawa | | | 1.62 | 1.09 | 1.60 | 1.41 | | 1.66 | 1.55 | 1.28 | 1.49 | 1.09 | 1.42 | | |
| Voivoi | | | 1.46 | | | | | | | | | | 1.46 | | |
| Ikasa | | | | | 1.66 | | | | | | | | 0.83 | | |
| Busa | 1.80 | 1.82 | 1.80 | 1.35 | 1.90 | 1.56 | 2.50 | 1.55 | 1.74 | 0.46 | | | 1.65 | | |
| Saku | 1.52 | 1.64 | 1.74 | 1.21 | 2.00 | 1.53 | | 1.45 | 1.36 | 1.04 | 1.49 | 1.02 | 1.46 | | |
| Corocoro | | | | | 2.20 | | | 2.08 | 2.09 | 2.01 | | | 2.10 | | |
| Uculuka | 1.90 | 1.81 | 1.62 | 1.63 | 2.00 | 1.00 | | 1.80 | 1.75 | 1.47 | | 1.13 | 1.61 | | |
| Kela | | | | | | | | | | | | 1.15 | 1.15 | | |
| Ogo | 2.00 | 1.95 | 1.87 | | 1.66 | 1.68 | 1.78 | 1.86 | 1.71 | 1.91 | 1.98 | 1.16 | 1.78 | | |
| Kanace | 2.14 | 2.21 | 2.00 | 1.63 | 2.20 | 1.72 | 1.25 | 2.03 | 2.02 | 1.90 | 1.93 | 1.43 | 1.87 | | |
| Kava | | | | | | 1.53 | | 2.07 | | | | | 1.80 | | |
| Mataba | | 2.00 | 1.63 | 1.00 | | | | | | | | | 1.54 | | |
| Reve | | 1.80 | 1.50 | | 1.60 | | | | | | | | 1.63 | | |
| Qitawa | | 1.71 | | | 2.00 | 1.25 | | 1.22 | 1.98 | 1.75 | 1.78 | | 1.67 | | |
| Kawago | 3.10 | 3.08 | 2.36 | 2.23 | 2.80 | 2.00 | 2.50 | 2.36 | 2.48 | 2.20 | 2.23 | 2.35 | 2.47 | | |
| Kacika | 2.89 | 2.68 | 2.30 | | 2.70 | 1.86 | | 2.22 | 2.24 | 2.15 | 2.16 | 2.04 | 2.32 | | |
| Sabutu | 2.76 | 2.72 | 2.40 | 2.23 | 2.77 | 1.94 | 1.60 | 2.23 | 2.18 | | 2.11 | 2.08 | 2.28 | | |
| Kabatia | 2.24 | 2.34 | | 1.62 | 2.30 | 1.56 | 1.50 | 2.02 | 1.04 | 1.89 | 1.95 | 1.45 | 1.81 | | |
| Mama | 1.50 | 2.11 | 2.40 | 2.09 | 2.50 | | 2.35 | 2.22 | 2.07 | 1.89 | 2.19 | 2.05 | 2.13 | | |
| Dokonivudi | | 3.00 | | | | 1.86 | 2.35 | 2.24 | 2.46 | 2.20 | 2.20 | 2.04 | 2.29 | | |
| Sabutudamu | 2.48 | 2.45 | 2.15 | 1.97 | | | | | | | | | 2.26 | | |
| Sabutukula | | | | | | | | | | | | | | | |
| Ki | 2.05 | 2.26 | 1.88 | 1.85 | 2.25 | 1.25 | 2.08 | 1.87 | 1.98 | 1.76 | | 1.24 | 1.86 | | |
| Mataroko | 2.50 | 2.08 | | 2.00 | 2.40 | | | | | | | 1.71 | 2.04 | | |
| Ose | | | | | | | | | | | | | | | |
| Salala | 2.12 | 2.32 | 1.83 | 1.93 | 2.25 | 1.69 | 2.29 | 2.04 | 2.08 | 1.50 | 1.78 | 0.99 | 1.40 | | |
| Votiniwoli | | 1.70 | | | | 1.50 | | | | | | | 1.60 | | |
| Walu | 2.61 | | | | | | 2.25 | 2.21 | 2.49 | 2.33 | | 1.56 | 2.24 | | |
| Salalnitoga | | | | | | 1.60 | | 1.76 | 1.80 | 1.40 | | | 1.64 | | |
| Yatu | | | 1.60 | | | | | 1.90 | | | | | 1.75 | | |
| Yellowfin | | | | | | | | 1.64 | 1.57 | | | | 1.61 | | |
| Tovisi | 1.13 | 1.30 | | 1.16 | 2.00 | | 1.00 | 0.91 | 1.00 | 0.50 | | | 1.13 | | |
| Mphimahi | | | | | | | | | | | | | | | |
| Kaikai | 2.05 | 2.53 | 1.85 | 1.67 | 1.50 | 1.41 | 1.71 | 1.67 | 1.70 | 1.48 | 1.41 | 0.98 | 1.66 | | |
| Matu | 1.73 | 1.94 | 1.85 | 1.66 | 2.20 | 1.53 | | 2.01 | 2.08 | 1.50 | 1.53 | 1.31 | 1.76 | | |
| Seriseriwa | | | | | | | | | | | | | | | |
| Sevaseva | | | | | 2.30 | | | | | | | 1.89 | 2.10 | | |
| Saqa | 2.58 | 2.59 | 2.05 | 1.73 | 2.60 | 1.94 | 2.10 | 2.05 | 2.16 | 1.92 | 2.10 | 2.11 | 2.16 | | |
| Vetaku | | | | | 2.00 | | | | | | | 1.88 | 1.94 | | |
| Moli | | | 2.00 | | | | | 1.80 | | | | | 1.90 | | |
| Kawakawa | 3.00 | 2.59 | 2.39 | 2.14 | 2.75 | 1.86 | 2.10 | 2.13 | 2.50 | 2.11 | 2.15 | 2.11 | 2.32 | | |
| Kasala | | | | | | | | 2.27 | 2.30 | 2.06 | 2.11 | | 2.19 | | |
| Senikawakawa | | | | 1.50 | 2.30 | | | | | | | 2.10 | 1.97 | | |
| Donu | | 2.80 | | | | | | 2.52 | 2.56 | 2.27 | | 1.64 | 2.36 | | |
| Tilapia | | | | | | | | | | | | | | | |
| Damu | | 2.12 | 1.67 | | 2.50 | 1.80 | 1.95 | 2.09 | 2.16 | 2.15 | 2.16 | 1.39 | 2.00 | | |
| Bati | | | | | | | | | | | | 1.18 | 1.18 | | |
| Kake | 2.40 | 2.33 | 1.92 | 1.76 | 2.40 | 1.59 | 2.37 | 1.98 | 2.02 | 1.72 | 1.76 | 1.43 | 1.97 | | |
| Bo | | | | | 2.50 | | | 1.95 | 2.15 | 2.61 | 2.12 | | 2.27 | | |

D 2.

MEAN PRICE FOR NON-FISH PRODUCTS AT MUNICIPAL MARKET OUTLETS-1985

| Markets Species \$/Kg | Central Division | | | | | Western Division | | | | Northern Division | | M/Price \$/kg. |
|--------------------------|------------------|---------|-------|---------|----------|------------------|---------|------|-------|-------------------|--------|-------------------|
| | Suva | Mausori | Navua | Tailevu | Sigatoka | Nadi | Lautoka | Ba | Tavua | Rakiraki | Labasa | |
| | 1.82 | 1.76 | 1.41 | 1.89 | 1.76 | 2.31 | 1.89 | 2.44 | 1.93 | 1.93 | 1.85 | 1.91 |
| CRABS | | | | | | | | | | | | |
| Qari | 5.36 | 5.26 | 3.88 | 3.90 | 4.68 | 4.97 | 5.55 | 5.19 | 5.03 | 5.10 | 3.87 | 4.8 |
| Kuka | 1.84 | 1.35 | | 1.00 | 1.33 | 0.45 | 1.45 | 1.38 | | | 0.95 | 1.22 |
| Lairo | 1.98 | 2.03 | 2.00 | 1.10 | 1.99 | 1.50 | 2.39 | 2.39 | | | 2.21 | 1.95 |
| PRAWNS | | | | | | | | | | | | |
| Ura/fw | 5.37 | 4.54 | | 4.50 | | 5.23 | 6.24 | 6.50 | 5.00 | | 5.33 | 5.34 |
| Moci | 4.72 | 2.85 | | | | | | 5.00 | | | | 4.19 |
| BIVALVES | | | | | | | | | | | | |
| Kaikoso | 0.27 | 0.27 | | 0.39 | 0.41 | | 0.31 | 0.33 | 0.30 | 0.41 | 0.18 | 0.32 |
| Kai/fw | 0.23 | 0.19 | 0.25 | 0.27 | 0.29 | 0.23 | 0.25 | 0.27 | 0.25 | 0.27 | 0.27 | 0.25 |
| Kalavatu | 2.17 | 2.50 | | | 2.27 | 2.00 | 1.51 | 2.00 | | | 1.80 | 2.04 |
| Kaidawa | | 0.50 | | | | | 0.34 | | | | | 0.42 |
| Sigawale | 0.31 | | | | | | | | | | 0.50 | 0.41 |
| Dioniveitira | 0.33 | | | | | | | | | | | 0.33 |
| GASTROPODS | | | | | | | | | | | | |
| Yaga | | 0.53 | | | | | | | | | 0.55 | 0.54 |
| Sici | 1.82 | | | | 1.33 | | 1.54 | 1.00 | | | 2.16 | 1.57 |
| Tovu(shell) | 0.33 | | | | 0.25 | | 0.50 | | | | | 0.36 |
| Stonbs | | | | | | | | | | | | |
| Drevula | 0.59 | | 0.30 | | | | | | | | | 0.45 |
| Gera | 0.31 | | | | | | 0.53 | 0.46 | 0.50 | | 1.25 | 0.61 |
| ECHINODERMS | | | | | | | | | | | | |
| Dairo | 0.83 | 1.19 | 0.93 | | 0.38 | | 0.59 | 0.42 | 0.50 | | 0.99 | 0.73 |
| Loaloa | 0.69 | | | | | | 0.56 | | | | | 0.63 |
| Cawaki | 0.28 | 0.50 | | | | | 0.30 | | | | | 0.36 |
| TURTLES | | | | | | | | | | | | |
| Taku | | | | | | | | | | | | |
| Vonudina | 3.36 | 3.00 | 2.00 | | | 2.25 | 2.54 | | | | 2.00 | 2.53 |
| LOBSTER | | | | | | | | | | | | |
| Uraudina | 5.94 | | | | 4.16 | 4.50 | 6.25 | 6.34 | | | 3.36 | 5.09 |
| Nana | 1.84 | 1.84 | | | | | | | | | | 1.84 |
| SEAWEED | | | | | | | | | | | | |
| Nana | 1.11 | 0.86 | 0.95 | | | 1.00 | 1.54 | 1.50 | | | 1.23 | 1.17 |
| Lumi | 1.05 | 0.76 | 0.95 | | | 1.00 | 1.83 | 1.58 | | | | 1.2 |
| MISC | | | | | | | | | | | | |
| Veata | 0.61 | | | | | | | | | | | 0.61 |
| Tadruku | | | | | | | 0.70 | | | | | 0.7 |
| Kuita | 2.25 | | | 2.00 | 2.27 | | 2.78 | 2.20 | | | 3.00 | 2.42 |

| D3. | VOLUME OF FISH SALES AT MUNICIPAL MARKET OUTLETS-1985 | | | | | | | | | | | | | Total Wt. (Mt) |
|---------------|---|---------|-------|---------|--------|----------|-------|----------------------------------|--------|-------|----------|--------|---------------------------------------|-------------------|
| | Central Division Total 97.63 | | | | | | | Western Division Total 638.31 | | | | | Northern Division Total 7363.25 | |
| Market | Suva | Nausori | Navua | Tailevu | Lagere | Sigatoka | Nadi | Lautoka | Ba | Tavua | Rakiraki | Labasa | | |
| Species | 5.22 | 19.96 | 16.54 | 6.82 | 40.07 | 7.08 | 96.98 | 272.38 | 125.61 | 43.19 | 25.37 | 320.37 | 981.05 | |
| Yawa | | | 0.14 | 0.22 | 0.20 | 0.60 | 0.48 | 1.42 | 0.05 | 0.22 | 0.17 | 2.49 | 5.99 | |
| Voivoi | | | 0.05 | | | | | | | | | | 0.05 | |
| Ikasa | | 0.03 | 0.05 | | 0.05 | | | | | | | | 0.13 | |
| Busa | 0.12 | 0.12 | 0.17 | 0.19 | 0.34 | 0.24 | 3.60 | 0.54 | 1.80 | 0.48 | 0.03 | 0.50 | 8.13 | |
| Saku | 0.06 | 0.27 | 0.17 | 0.22 | 0.19 | 0.18 | 2.12 | 1.39 | 0.28 | 0.18 | 0.08 | 2.10 | 7.24 | |
| Corocoro | | 0.03 | | | 0.15 | | 1.10 | 3.20 | 1.30 | 0.30 | 0.04 | | 6.12 | |
| Uculuka | 0.05 | 0.28 | 0.39 | 0.12 | 0.48 | | | 0.15 | 0.18 | 0.12 | 0.06 | 0.48 | 2.31 | |
| Kela | | 0.03 | 0.15 | | 0.15 | | 1.30 | 5.00 | 1.50 | 0.50 | 1.04 | 3.90 | 13.57 | |
| Ogo | | 0.05 | | | 0.34 | 0.12 | 14.08 | 45.25 | 20.84 | 6.46 | 4.34 | 9.29 | 100.77 | |
| Kanace | 0.96 | 3.86 | 4.18 | 0.91 | 6.35 | 0.60 | 30.08 | 10.88 | 5.69 | 3.49 | 1.06 | 16.87 | 84.93 | |
| Kava | | | | | | 0.12 | | | | 0.10 | 1.04 | | 1.26 | |
| Mataba | | | 0.09 | 0.04 | 0.01 | | | | | | | 1.20 | 1.34 | |
| Reve | | 0.09 | 0.16 | | 0.32 | | | | | | | | 0.57 | |
| Qitaya | | 0.04 | 0.22 | 0.02 | 0.53 | 0.42 | 0.20 | 4.70 | 1.00 | 1.40 | 0.04 | 0.57 | 9.14 | |
| Kawago | 0.16 | 1.32 | 0.23 | 0.18 | 2.45 | 0.30 | 2.16 | 8.35 | 12.16 | 1.22 | 0.86 | 12.68 | 42.07 | |
| Kacika | 0.10 | 0.89 | 0.13 | | 0.62 | 0.12 | 2.12 | 1.40 | 1.21 | 0.37 | 0.27 | 8.34 | 15.57 | |
| Sabutu | 0.27 | 1.29 | 0.56 | 0.12 | 2.13 | 0.36 | 2.10 | 3.49 | 1.22 | 1.05 | 0.59 | 12.08 | 25.26 | |
| Kabatia | 0.39 | 0.96 | 0.66 | 0.22 | 1.35 | 0.54 | 4.50 | 4.74 | 1.50 | 1.97 | 0.93 | 16.70 | 34.46 | |
| Mama | 0.02 | 0.17 | 0.20 | | 0.13 | | 1.04 | 1.84 | 0.39 | 0.04 | 0.20 | 0.11 | 4.14 | |
| Dokonivudi | | 0.08 | | | 0.06 | 0.06 | 0.02 | 4.50 | 1.80 | 0.50 | 1.04 | 3.80 | 11.86 | |
| Sabutudaa | | 0.25 | 0.15 | 0.04 | 0.56 | | 0.20 | 5.70 | 1.40 | 0.80 | 0.04 | 0.48 | 9.62 | |
| Ki | 0.10 | 1.34 | 0.40 | 0.20 | 1.02 | 0.30 | 0.24 | 0.43 | 0.46 | 0.17 | 0.02 | 1.41 | 6.09 | |
| Mataroko | 0.05 | 0.41 | 0.21 | 0.06 | 0.41 | | 0.20 | 0.07 | 2.50 | 0.09 | | 1.26 | 5.26 | |
| Ose | | | | | | | 0.30 | | | | | | 0.3 | |
| Salala | 0.43 | 0.63 | 0.67 | 0.49 | 2.58 | 0.36 | 2.28 | 9.43 | 5.95 | 8.47 | 0.96 | 102.68 | 134.93 | |
| Votonimoli | | 0.04 | 0.05 | | 0.10 | 0.06 | 0.20 | 4.70 | 1.70 | 0.50 | 1.04 | 0.49 | 8.88 | |
| Walu | 0.03 | | | | 0.02 | | 2.22 | 11.02 | 10.29 | 0.13 | 0.03 | 1.86 | 25.6 | |
| Salalanttoqa | | | | | | | 0.20 | 4.70 | 1.50 | 0.50 | 0.04 | | 6.94 | |
| Yatu | | | 0.06 | | | | | 2.50 | | | | | 2.56 | |
| Yellow Fin | | | 0.12 | | | 0.60 | | 1.81 | 0.26 | | | | 2.79 | |
| Tovisi | 0.04 | 0.58 | 0.40 | 0.42 | 0.61 | | 0.44 | 0.10 | 1.81 | 0.08 | 0.03 | | 4.51 | |
| Mahimahi | | | | | | | 0.20 | | 1.40 | 0.60 | 0.78 | | 2.98 | |
| Kaikai | 0.22 | 2.84 | 1.44 | 0.80 | 1.84 | 0.18 | 2.52 | 3.68 | 4.50 | 1.33 | | 5.67 | 25.02 | |
| Matu | 0.10 | 0.41 | 0.32 | 0.18 | 0.66 | 0.42 | 0.12 | 1.30 | 0.66 | 0.44 | 0.09 | 1.04 | 5.74 | |
| Sirisiriniwai | | | | | | | | | 1.40 | | | 1.69 | 3.09 | |
| Sevaseva | | 0.06 | 0.07 | 0.10 | 0.38 | | 0.20 | 4.70 | | 0.50 | 1.04 | 16.53 | 23.58 | |
| Saqa | 0.70 | 0.86 | 1.13 | 0.29 | 4.85 | 0.24 | 12.04 | 28.48 | 9.41 | 3.16 | 2.36 | 9.65 | 73.17 | |
| Vetaku | | 0.07 | 0.16 | | 0.18 | | | 1.12 | 0.75 | | | 0.28 | 2.56 | |
| Moli | | | 0.04 | | | | | 1.50 | | | | 0.58 | 2.12 | |
| Kawakawa | 0.20 | 0.80 | 0.62 | 0.24 | 2.03 | 0.18 | 6.24 | 16.26 | 3.52 | 1.44 | 0.95 | 17.35 | 49.83 | |
| Kasala | | | | | | | | 4.70 | | | | | 4.7 | |
| Seni Kawakawa | | | 0.02 | 0.10 | 0.28 | | | | | | | 0.42 | 0.82 | |
| Donu | | 0.02 | | | 0.16 | | 1.20 | 9.70 | 8.40 | 0.90 | 1.04 | 13.62 | 35.04 | |
| Tilapia | | | 0.03 | | | | | | | | | | 0.03 | |
| Damu | | 0.18 | 0.33 | 0.27 | 1.44 | 0.06 | 0.20 | 4.70 | 1.65 | 0.60 | 1.04 | 2.58 | 13.05 | |
| Bati | | 0.02 | | 0.02 | 0.42 | | 0.20 | 4.50 | 0.16 | | 0.04 | 0.48 | 5.84 | |
| Kake | 0.39 | 0.78 | 0.52 | 0.32 | 1.49 | 0.30 | 0.12 | 3.03 | 1.44 | 1.75 | | 5.46 | 15.6 | |
| Bo | 0.17 | 0.25 | 0.30 | 0.08 | 0.66 | | 0.68 | 3.90 | 1.40 | 0.50 | 1.04 | 2.26 | 11.24 | |
| Misc | 0.66 | 0.91 | 1.95 | 0.97 | 4.53 | 0.72 | 2.08 | 47.5 | 14.13 | 4.83 | 3.04 | 43.47 | 124.25 | |

D4

VOLUME OF NON FISH SALES AT MUNICIPAL MARKET OUTLETS-1985

| MARKET | Central Division | | | | | | Western Division | | | | Northern Division | Total (Mt) | |
|--------------------|------------------|---------|-------|---------|--------|----------|------------------|---------|--------|-------|-------------------|------------|---------|
| | Suva | Nausori | Navua | Tailevu | Lagere | Sigatoka | Nadi | Lautoka | Ba | Tavua | Rakiraki | | Labasa |
| SPECIES WT(Mt) | 310.32 | 198.25 | 41.55 | 5.85 | 1.53 | 86.26 | 9.21 | 279.58 | 152.18 | 22.38 | 19.83 | 48.41 | 1175.35 |
| CRABS | | | | | | | | | | | | | |
| Oari | 4.67 | 6.83 | 1.27 | 0.10 | 0.84 | 0.84 | 0.01 | 2.11 | 1.47 | 0.71 | 0.42 | 8.57 | 27.94 |
| Kuka | 16.99 | 5.63 | | 0.06 | 0.38 | 1.14 | 0.04 | 2.03 | 1.34 | | | 0.26 | 27.87 |
| Lairo | 0.95 | 0.74 | 0.02 | 0.03 | | 0.96 | 1.88 | 10.89 | 4.54 | | | 1.51 | 21.52 |
| PRAWNS | | | | | | | | | | | | | |
| Ura/fw | 0.40 | 0.21 | | 0.02 | 0.13 | | | 0.62 | 0.21 | 0.02 | | 1.02 | 2.63 |
| Moci | 2.45 | 0.83 | | | 0.12 | | | | 0.01 | | | | 3.41 |
| BIVALVES | | | | | | | | | | | | | |
| Kaikoso | 46.77 | 12.36 | | 0.18 | | 0.04 | | 9.35 | 3.34 | 1.39 | 0.30 | 6.59 | 80.32 |
| Kai/fw | 203.34 | 162.24 | 39.84 | 5.41 | | 78.78 | 5.40 | 231.85 | 135.81 | 19.88 | 19.11 | 23.75 | 925.41 |
| Katavatu | 0.41 | 0.07 | 0.02 | | | 1.20 | 1.64 | 3.36 | 0.65 | | | 0.86 | 7.14 |
| Kaidawa | | 0.06 | | | | | | 1.29 | | | | | 1.35 |
| Sigawale | 0.50 | 0.01 | 0.01 | | | | | | | | | 0.01 | 0.53 |
| Dioniveti:ra | 0.13 | | | | | | | | | | | 0.86 | 0.99 |
| GASTROPODS | | | | | | | | | | | | | |
| Yaga | 0.17 | 0.27 | 0.02 | | | | | | | | | 0.26 | 0.72 |
| Sici | 0.31 | 0.15 | | | | 0.42 | | 1.88 | 0.92 | | | 0.88 | 4.56 |
| Tovu(Shell) | 0.78 | 0.48 | | | | 0.18 | | | | | | | 1.44 |
| Stombs | | | | | | | | 0.81 | 0.23 | | | | 1.04 |
| Drevula | 0.57 | | 0.02 | | | | | | | | | | 0.59 |
| Gera | 0.88 | | | | | | | 1.65 | 1.42 | 0.10 | | 0.21 | 4.26 |
| ECHINODERMS | | | | | | | | | | | | | |
| Dairo | 2.52 | 0.59 | 0.07 | 0.01 | | 0.36 | | 3.73 | 0.95 | 0.27 | | 0.38 | 8.98 |
| Loaloa | 0.76 | 3.01 | 9.05 | | | | | 0.01 | | | | | 0.77 |
| Cawaki | 1.63 | 0.09 | | | | | | 0.14 | | | | | 1.86 |
| TURTLES | | | | | | | | | | | | | |
| Taku | | | | | | | | 4.76 | | | | | 4.76 |
| Vonudina | 1.45 | 0.30 | 0.20 | | | | | | | | | 2.69 | 4.64 |
| LOBSTER | | | | | | | | | | | | | |
| Uraudina | 0.13 | 0.04 | | | 0.06 | 0.36 | 0.24 | 0.15 | 0.09 | 0.01 | | 0.23 | 1.31 |
| Mana | 19.77 | 6.16 | | 0.02 | | | | | | | | | 25.95 |
| SEANEED | | | | | | | | | | | | | |
| Nawa | 1.91 | 0.57 | 0.02 | | | | | 2.40 | 0.81 | | | 0.03 | 5.74 |
| Lumi | 1.29 | 0.45 | 0.01 | | | | | 0.52 | 0.08 | | | 0.37 | 2.72 |
| MISC | | | | | | | | | | | | | |
| Veate | 0.86 | 0.07 | | | | | | | | | | | 0.93 |
| Tadruku | 0.42 | 0.01 | | | | | | 0.74 | | | | 0.05 | 1.22 |
| Kuita | 0.73 | 0.08 | | 0.02 | | 1.98 | | 1.29 | 0.11 | | | 0.74 | 4.95 |

D5

VOLUME OF FISH SALES AT NON MUNICIPAL MARKET OUTLETS-1985

| Species | Central Division | | | | | Western Division | | | | | Northern Division | | | | | Total (Mt) |
|--------------|------------------|---------|---------|---------|-------|------------------|---------|---------|---------|-------|-------------------|---------|---------|---------|--------|------------|
| | Hotels | Shops | | | Road | Hotels | Shops | | | Road | Hotels | Shops | | | Road | |
| | Rest& | Butcher | Supakts | Sides | | Rest& | Butcher | Supakts | Sides | | Rest& | Butcher | Supakts | Sides | | |
| Mt | N.M.A | Cafes | Butcher | Supakts | Sides | N.M.A | Cafes | Butcher | Supakts | Sides | N.M.A | Cafes | Butcher | Supakts | Sides | |
| Yawa | | 10.15 | 0.74 | 1.08 | | 0.56 | 0.84 | 0.46 | | | | | | | | 13.83 |
| Voivoi | | | | 1.5 | | | | | | | | | | | | 1.5 |
| ikasa | | | | 0.5 | | | | | | | | | | | | 0.5 |
| Busa | 0.03 | 0.98 | 7.65 | 4.53 | | 0.75 | 1.12 | 0.62 | | | | | | | | 15.68 |
| Saku | | | 10.06 | 3.09 | | 0.18 | 0.28 | 0.15 | 0.03 | 0.07 | | | | | | 13.86 |
| Corocoro | | | | 0.8 | | | | | 0.08 | | | | | | | 0.88 |
| Uculuka | | | 10.17 | 1.17 | | 0.23 | 0.34 | 0.19 | 0.5 | | | | 0.6 | | | 13.2 |
| Kela | | | | 0.12 | | | | | 1.3 | | | | | | | 1.42 |
| Ogo | 35.14 | 66.62 | 53.13 | 3.54 | 27.03 | 5.95 | 8.93 | 4.96 | 10.96 | 0.19 | | 1.11 | 3.53 | 1.3 | 3.05 | 225.44 |
| Kanace | 2.12 | 95.58 | 46.19 | 282.09 | 0.4 | 0.04 | 1.08 | 0.01 | 0.86 | 2.39 | | 0.05 | 10.49 | 2.6 | 9.05 | 452.95 |
| Kava | 0.06 | 0.15 | 0.5 | 0.05 | | 1.02 | 1.53 | 0.85 | 0.05 | | | | | | | 4.21 |
| Puntius | | | 1.03 | | | | | | | | | | | | | 1.03 |
| Mataba | | | | | | | | | | | | | | | | 0 |
| Reve | 0.01 | | 0.06 | 0.03 | | | | | | | | | | | | 0.1 |
| Kawago | 0.82 | 64.70 | 16.42 | 9.51 | 2.49 | 4.73 | 5.09 | 3.94 | 7.8 | 1.06 | 1.25 | 1.07 | 3.96 | 2.7 | 3.42 | 128.96 |
| Kacika | 0.48 | 40.50 | 14.23 | 10.84 | 2.2 | 0.96 | 1.45 | 0.8 | 2.09 | 1.49 | 1.15 | 0.11 | | 1.4 | 5.99 | 83.69 |
| Sabutu | 3.8 | 69.67 | 56.35 | 6.57 | 5.84 | 0.88 | 5.31 | 0.73 | 13.6 | 3.22 | 1.65 | 1.15 | 4.05 | 3.5 | 1.67 | 177.99 |
| Kabatia | | 80.00 | 10.91 | 121.9 | 3.37 | | 4.09 | 1.05 | 10.43 | 1.35 | | 1.05 | | 1.9 | 2.91 | 238.96 |
| Mama | | 15.00 | 0.59 | 0.18 | | 0.37 | 0.56 | 0.31 | 0.09 | | | | 0.78 | 5.1 | 1.2 | 24.19 |
| Dokonzvudi | 0.27 | 20.36 | 0.46 | 10.85 | 1.16 | 0.83 | 1.24 | 0.69 | 4.45 | 0.15 | 3.52 | 1.4 | 2.74 | 2.1 | 2.36 | 52.58 |
| Sabutudanu | | 15.00 | | 0.42 | | 1.31 | 1.97 | 1.09 | 0.91 | | | 0.09 | | 0.6 | 0.17 | 21.56 |
| Sabutukula | | | | | | | | | | | | | | | | 0 |
| Ki | 0.05 | 26.03 | 1.45 | 0.72 | | | 0.65 | 0.36 | 0.54 | 0.09 | | 0.05 | | 0.05 | | 29.99 |
| Mataroko | 0.17 | 10.54 | 0.45 | 0.84 | | | | | 0.23 | 1.39 | | 0.6 | | 0.01 | | 14.23 |
| Ose | | | 0.18 | | | | | | | | | | | | | 0.18 |
| Salala | 1.02 | 303.67 | 40.17 | 5.46 | 6.75 | 1.13 | 1.97 | 1.09 | 12.69 | 0.11 | | 5.02 | 14.81 | 3.5 | 12.78 | 410.17 |
| Vo-tonimoli | 0.08 | 1.00 | | | | | | | | | | | | | | 1.08 |
| Walu | 10.82 | 103.64 | 16.53 | 6.6 | 21.37 | 15.89 | 11.84 | 1.58 | 12.58 | 5.82 | | 4.95 | 5.3 | 49.52 | 266.44 | |
| Wahoo | 4.04 | 47.85 | 0.76 | | 3.38 | | | | | | | | | | | 56.03 |
| Salalanitoga | | | | 0.02 | | | | | | | | | | 0.8 | | 0.82 |
| Yatu | | 13.46 | 0.73 | 0.21 | 3.11 | | | 0.06 | 0.21 | 1.39 | | 0.99 | | 0.85 | | 21.01 |
| Yellow Fin | | | | | | | | | | | | | | | | 0 |
| Tovisi | | | | 0.08 | | | | | | | | | | 0.01 | | 0.09 |
| Bitawa | | | | 1.68 | | | | | 0.08 | | | | | | | 1.76 |
| Kaikai | 0.06 | 16.35 | 1.39 | 16.99 | | 1.21 | 1.82 | 1.01 | 10.36 | 0.37 | | 0.06 | | 1.2 | | 50.82 |
| Matu | 0.05 | 0.30 | 70.79 | 0.6 | | 0.15 | 0.22 | 0.12 | 0.76 | | | | | 0.4 | | 73.39 |
| Sovaseva | | 8.76 | 0.12 | 1.02 | 4.71 | | 0.39 | 0.59 | 1.33 | 0.33 | | 0.96 | | 1.2 | 1.26 | 20.67 |
| Saga | 0.94 | 85.14 | 32.01 | 32.67 | 36.04 | 1.18 | 7.77 | 4.32 | 8.69 | 3.36 | 2.46 | 1.7 | 3.08 | 6.8 | 2.66 | 228.82 |
| Vetaku | | | 5.66 | 1.05 | | | | | | | | | 0.06 | 0.09 | 0.05 | 6.91 |
| Kawakawa | 4.19 | 45.49 | 20.73 | 36.51 | 23.75 | 3.75 | 5.63 | 3.13 | 11.64 | 1.66 | 0.5 | 1 | 4.52 | 3.6 | 3.89 | 169.99 |
| Kasala | | 2.33 | 1.76 | 0.98 | | 1.59 | 2.39 | 1.33 | | | | | | | | 10.38 |
| Kavu | | | | 0.06 | | 0.83 | 1.25 | 0.69 | | | | | | | | 2.83 |
| Donu | | 25.85 | 1.3 | 10.72 | 10.37 | 2.19 | 3.29 | 1.83 | 8.97 | 1.61 | 3.1 | 1.06 | 5.13 | 0.9 | 4.43 | 80.75 |
| Danu | 0.01 | 15.05 | 5.99 | 1.08 | | 1.09 | 1.64 | 0.91 | 5.54 | 0.09 | | | | 0.98 | 1.29 | 33.67 |
| Bati | | 3.45 | 0.09 | 1.02 | | | | | 3.32 | | | 1.04 | 4.04 | 0.32 | 3.49 | 16.77 |
| Kake | 0.15 | 49.45 | 2.34 | 15.82 | 0.8 | | 0.14 | 0.01 | 1.37 | 0.99 | | 0.75 | 8.88 | 1.2 | 7.66 | 89.56 |
| Laidanu | 0.17 | 30.00 | 1.52 | 21.71 | 1.1 | 2.2 | 3.3 | 1.84 | 3.25 | 0.62 | | 1.06 | | 1.1 | 1.91 | 69.78 |
| Misc | 12.39 | 194.02 | 57.6 | 3.99 | 35.03 | 4.08 | 9.76 | 5.43 | 4.25 | 5.25 | 1.87 | 4.73 | 24.98 | 4.74 | 30.18 | 362.18 |

