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Fiji's fisheries data collection and information system

by

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Introduction

1. The Fiji Islands, lying approximately between Lat. 16°S and 21°S, and Long. 177°E and 178°W, comprise about 300 islands and numerous islets and reefs, covering an oceanic area of about 260,000 km². The group has a relatively large continental shelf of about 15,000 km² in total, mostly in the form, of shallow waters in the west and north of the main islands, Viti Levu and Vanua Levu.

2. Per capita apparent consumption of fisheries products, including domestic production and imports, is around 47 kg for the 770,000 people of the country (Fisheries Division preliminary estimate).

3. The fisheries sector is relatively diverse with industrial, commercial/artisanal and subsistence components. One of the major roles of the Fisheries Division of the Ministery of Primary Industries is to collect, analyse and disseminate production data from the fisheries sector for administrative, planning, policy formulation, development appraisal and user information purposes. To this end, a Market Survey group was established within the Resource Assessment and Development (RA&D) section of the Division in 1977.

4. As it name suggests, the RA&D section also has the responsibility for scientific stock assessment of exploited populations and provision of management advice as required.

5. This paper describes the present data collection system developed by the Fisheries Division, its output, and relations with other Government departments and user groups.

The present system

6. The Market Survey group, or inshore Resource Management branch as it has evolved into, has the services of six staff virtually full time, three in Central Division (Suva), two in Western Division (Lautoka) and one in the Northern Division (Labasa). Their efforts are primarily directed to surveys of commercial/artisanal sector market outlets - municipal markets, road-side sales, retail outlets and the National Marketing Authority. No catch data are currently collected directly from commercial fishing vessels (other than the industrial and export fleet), nor are any data on vessel operational economics or economic indicators collected.

7. As the Fisheries Division administers the licensing of fishermen and vessels, and exports of marine produce, data are obtained from these sources, as well.

8. The industrial tuna fleet (Ika Corporation) provides detailed catch and effort data on forms supplied by the Division. Landing data are supplied by the Pacific Fishing company (PAFCO), where most of the industrial catch is canned for export.

9. The subsistence fishery was surveyed in 1978/79, providing an estimated total catch of 13,800 mt. This is arbitrarily upgraded annually, but with little confidence, and the estimate requires considerable refinement.

10. Data is obtained from other Government departments (Bureau of Census and Statistics, Department of Customs and Excise). The ten-year Agricultural Census, which was to generate information on the fisheries sector for the first time, was due this year (1988) but has been postponed for obvious reasons, to ensure data gethered is truly representative.

11. Data relevant to stock assessment have been collected on an <u>ad hoc</u> basis, as required.

12. The following sections provide details of the present system, data processing arrangements and dissemination of information collected.

Market Statistics (Commercial/Artisanal Catch)

13. The Fisheries Division has made considerable efforts to develop its market intelligence system, and the greater part of the Division's data gathering effort is directed towards this activity. Fiji's fish marketing systems are complex, particularly when compared to the overall size of the sector and can be classified as follows:

- Municipal markets
- Roadside Sales
- Sales to Retail and Wholesale outlets
- National Marketing Authority

14. Most of the non-fish products are sold through the municipal markets, while finfish follow a variety of channels. Middlemen are buying a significant and increasing share of the catch for both local sale and shipment to other urban centres.

Municipal markets

15. There are eleven municipal markets, all of which except Labasa are on Viti Levu, ie. Central Division -4, Western Division -6 (Figure 1).



16. Most fish sold in the municipal markets continue to be sold by the fishermen. However, middlemen are taking an increasing proportion of the catch and are dominant in some markets, particularly in Western Division.

17. Suva is the major consumption centre of fish in Fiji, With a total population of almost 80,000 as at mid 1985 (including Nausori and Lami) out of a national total population of over700,000. The fish market in Suva formerly handled as much fish as the other major markets, but the high level of market charges (30 to 50 cents per kilogram) has caused fishermen to withhold their fish and most of the local marketed catch is now sold from punts in the neighbouring creek or by roadside vendors. Market fees in the other municipal markets are lower and range from 5 cents at Tavue to 14-15 cents in most of the larger Western Division, markets.

18. Suve and the Western and Northern Division fish markets open daily apart from Sunday, while the remaining Central Division markets only generally receive fish on Saturdays. Other products such as kai (fresh water mussel), marine molluscs, echinoderms and seeweed are sold through the general produce section of the markets.

19. The markets are surveyed by Fisheries Division staff, usually on at least six days each month for the six day markets, one of each day except Sundays. All fish is also recorded by the market master (weight only, not species) as it enters the market and this provides a ready check on total quantity. The Fisheries Officer responsible for recording the market throughput on particular sampling day arrives at the market at about the opening time of 0700 and remains until most fish have arrived, usually by 1400. He notes the weight of fish by species or species group brought in by each fisherman or middlemen and the price which he feels to be representative for that day's sales.

20. Once the six (or more) day's data have been recorded, any duplicated days are averaged and total quantity for the month estimated by multiplying the six day total by four and adding the outstanding days. For example, if a 30-day month commences on a Monday, it would be necessary to add the quantity reported for Monday and Tuesday, as there are five of both these days in the month.

21. A similar market recording system is employed at three of the regular selling locations outside the municipal markets. In Central Division, much of the fish sold in Suva is now sold from boats in Nabukalou creek adjacent to the market. This selling location and another of the major roadside stalls at Lagere, midway between Suva and Nausori is currently being surveyed on the same basis as the municipal markets. A reasonably regular survey is also undertaken at Namaka, on the outskirts of Nadi which has a throughput of about 10 tonnes per month.

22. Following a review of this system in 1986, the sampling strategy was revised, in view of the fact that half of the week's output in most markets is received on a single day (Saturday) and that the four largest markets account for 80% of market fish. Sampling efforts are now concentrated on Saturdays in the major markets, allowing more effort to be directed to surveys of roadside sales and retail outlets. This also reflects the declining percentage of total catch passing through municipal markets annually. Market masters, who have historically collected information on sales volume, have also been issued with simple record books in which the type of fish can also be recorded (Appendix 1).

Road-side Sales

23. These accounted for approximately 30% of commercial fish and non-fish sales in 1986 (Anon, 1987). In Centrel Division the practice of roadside selling in centred in Suva, though it is reasonably common to a distance of about 80 kilometres from the capital.

24. The outlets are surveyed once or twice per month, using market survey data sheets, with most surveys on Sundays. The surveyers usually make about three rounds of the stalls. Each of the seven or so selling areas is recorded separately, though in the final analysis only aggregate data is prepared.

25. In Western Division, the roadside outlets are generally concentrated around urban centres, including Lautoka, Namaka (Nadi), Tabarau, Matalevu, Namada, Lomawai and Cuvu. Namaka has become a major selling point in recent months and now has a throughput as high as Nadi itself. Outlets are surveyed as transport permits, but given the 200 km of road to be covered, this is a major constraint.

Sales through Retail outlets

26. The third component of market is the quarterly collection of data on sales by retail outlets. These are intended to be undertaken each April, July, October and January when data relating to the previous three months are collected.

27. The main classes of retail outlet are: hotels/restaurants, butchers, shops and shops/supermarkets. The surveys are undertaken through interviews with the managers of the outlets. Of the various classes, only a few of the butchers maintain records of their purchases and the interviewer notes that quantities purchased from these records. For the other classes, the data are based on the respondent's recall of his purchases and accuracy consequently suffers, probably being weighted towards his purchases during the immediately proceeding period. Since the butchers account for over 80 per cent of total outlet sales, this is not serious. However, out staff consider a monthly or bimonthly survey merits introduction to reduce recall problems, and receipt books were recently supplied to retail outlets on a trial basis (Appendix 1).

National Marketing Authority

28. NMA is a semi-government organisation which purchases fish from the fishermen in villages and urban centres in Viti Levu, Vanua Levu, Taveuni and other areas. A recent development has been the installation of ice boxes in some villages, where ice is delivered and fish purchased, normally every two days. Some fish are sold locally, but the majority are forwarded to Lami on refrigerated trucks via the roll-on, roll-off ferries. In Lami, fish is sold fresh, frozen, or may be processed for local sale or export.

29. Data are collected by Fisheries Division within their "Other outlets" survey on a quarterly basis from the NMA bases at Lami, Lautoka and Labasa. Only retail data are recorded as other sales would risk double counting the other surveys. Price data are not always reported, but represent a potentially useful check on the market price analysis.

Industrial Tuna Production

Tunes cetches

30. The six pole and line vessels maintain duplicate logbooks, which are intended to be forwarded to Research Unit every month. Some vessels require reminding to complete and/or return their sheets and one vessel (private) has consistently refused to supply data. The data recorded on the sheets are as follows (Appendix 2):

Vessel characteristics (name/light wattage/number of crew/tonnage) Date Bait area code (sometimes completed by market research staffs) Baiting position Catch per hauls Total catch Species composition (%) Fishing noon temp. Area fished School sighted/Fish Catch per species(number/average weight/ total weight)

31. The data are entered into a data base and are analysed through a basic data sorting programme. In the same way, bait catches by volume, species grouping and area are available.

32. The foreign longliners had all left Fijian waters by early 1986 while the two purse seiners departed in mid-1985. Until that time, the Division was receiving monthly SPC designed logsheets, recording similar information to that for the tuna pole boats (except for the baiting information). Particular problems were previously experienced with some of the Taiwanese vessels, reportedly due to the inability of some skippers to read and write in English.

33. The data are forwarded irregularly to SPC for computer processing. Summaries of catch and effort data are returned promptly, often within two weeks.

Tuna landinos

34. Since the tune are not weighed until they are landed, the weights as recorded in the logbooks are not always accurate. Moreover the fishing months do not always correspond to calendar months. On landing at PAFCO, each vessel's fish are weighed and the data recorded. Monthly summaries are prepared and forwarded to the Division. Catch data are transcribed onto analysis sheets and are totalled by spreadsheets at the end of the year. These data are used to check the accuracy of the catch data and are published in aggregated form in the Annual Report.

Other data

Imports/Exports

35. Data on exports are collected at two levels. All exports of marine produce are required in theory to be registered with the Fisheries Division. In practice, only about 70 % of exports by volume are registered, and the Customs Department is therefore the main long term source of export data, and the only source of import data. These custom entries are now made on line, considerably speeding up the analysis. 36. The Division however, obtains detailed export data (numbers, species and collection area) on two resource categories - aquarium fish and ornamental corals - by virtue of a Cabinet decision relating to the harvest of sedentary resources. The growing exports of deep-water snapper have also been sampled in greater detail.

37. Through the cooperation of the Bureau of Statistics, the previous import classification, which grouped 90% of the volume in only 2 of the 16 categories used, has been revised to provide greater details on imports.

Licence data

38. Recognising the annual licence application process is the one time of the year when all commercial fishermen are in contact with the Division, efforts were made in 1987 to collect, by interview, a wider range of information from fishermen as a sector inventory (vessels, gear and fishermen). Analyses of these data are proceeding.

Catch effort (logbook) data

39. Apart from the pole and line fleet, no commercial vessels have supplied catch and effort data. An unsuccessful attempt was made in 1982 to issue duplicate logbooks, in English, and Fijian, to commercial fishermen. Follow-up was poor, objectives were mixed, no incentives were provided and the scheme failed.

40. More recently, in response to the need for data from the developing deep-water snapper fishery, logbooks were issued to the larger vessels which supply the bulk of the catch (see relevant paper).

Economic data and apparent comsumption

41. As noted earlier, no data on vessel operating economics, other than that generated by ika Corporation and private vessel owners, are collected, nor are economic indicators. Apparent consumption is similarly not calculated. In the absence of an economic capability within the Division, these will continue to be low priority.

Subsistence sector surveys

42. While the subsistence catch looms so large in total fisheries production, its accurate survey is an important but difficult and unproductive (in the direct development sense) task. It has been recommended (Anon, 1986b) that a two-component survey be undertaken, comprising a 10% village interview survey of coastal villages (20% of households) followed later by a weighing survey of 25% of the previous sample (once in summer, once in winter).

Census deta

43. The national census provides few data of relevance to the fisheries sector. However, the 10-year Agricultural Census, scheduled for 1988 but postponed temporarily, has agreed to include a fisheries section for the first time. This should provide a range of useful data on population involvement, gear and vessel catalogue, participation in the sector, levels of effort by area and data on tenure patterns.

Stock assessment data

44. Few data have been collected for long-term stock assessment purposes, apart from pole-and-line and bait fish catches by the industrial fishery (see, for eg., Lewis et al., 1983 and BP 14, this workshop). In conjunction with market survey data, length-frequency data on lethrinid species were collected at municipal markets over a 12 months period as part of a preliminary assessment of levels of exploitation of this the most valuable fish family in the catch (Dalzell et al, MS).

45. More recently, landings of deep-water snappers have been intensively sampled, as representative of virgin stock, for derivation of yield parameters (M/K, L^{∞} etc). Natural populations of giant clams have been sampled in situ as part of an assessment of Fiji's stocks.

Date analysis

46. The Division operates a relatively well developed system of microcomputer data analysis. The head officer in Lami processes most data (much market data is now supplied monthly on disk by outstations) using an HP9837 (pole and line catch, graphics, clam survey data), an IBM AT (Market data, outlet survey data, graphics, others) and a Commodore 20 (market data, licensing database). In addition, subsidiary offices (Lautoka, Labasa, Accounts, Information) operate IBM XT's. It is eventually planned to link all systems through the Government's EDP Vax system, via a dedicated phone link.

Information dissemination

47. The main external vehicle for the dissemination of statistical data is the Division's Annual Report. This is now issued in timely fashion ie. by March-April of the following year, and in summary format which makes most important data readily accessible. Appendix 3, for example, shows the six year summary of local fisheries production from the 1986 Annual Report.

48. Internally, a quarterly statistical bulletin is produced for circulation. This not only assists the preparation of Annual and briefing reports, but complies with the requirement of the Central Planning Office to collate and provide a quarterly sector production summary.

49. In the past, monthly bulletins on tune catch were provided for industry (ike Board of Directors) but their usefulness was hampered by the delay in returning catch forms by some vessels.

50. Data are supplied on request to other agencies both within Fiji (eg. Fiji Development Bank, private sector enquiries) and without (FAO Yearbook of Fisheries Statistics, Regional Data Base, Regional Register of Vessels).

51. It has been suggested that more should be done to disseminate production data particularly market data (volumes, prices) on a timely basis (Anon, 1986b), preferably by radio broadcasts.

Conclusions

52. The system developed by the Division is moderately sophisticated by regional standards and in general is working well in support of development planning. The recent review of the system has allowed the system to be refined to some degree, through the identification of weaknesses.

53. The major deficiency continues to be the absence of time series catch/effort data in most fisheries. This challenge is gradually being addressed.

54. The system is demanding of manpower, but generates measurable results out of proportion to this commitment (6 full time staff). Lack of transport and staff training are still major constraints, but the existing system, which is continuing to evolve, has served the Fisheries Division and Fiji well in its first 10 years.

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Appendix 1

Sheet from record book issued to market masters

FISHERIES DIVISION , P.O.BOX 358, SUVA. Nº 001651													
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Sheet from receipt book issued to retail outlets.

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Pole and line vessel catch form.

Appendix 2

Appendix 3

Summary of local fish production, Fiji, 1981-1986.

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Salted Fish 9.45 41.74 26.70 80.10 33.80 141.73 9.70 38.63 5.10 20.50 4.45 21.47 Sub total 2649.57 5586.96 2913.80 5903.76 3561.42 660.52 3960.30 7338.69 4083.70 8105.83 4338.19 8649.07 NUM-FISM PRODUCTS Numariagin Market 1073.51 719.04 144.10 2879.10 1450.30 880.96 1547.16 766.39 1175.70 643.85 1279.96 950.12 Sub total 1132.81 863.97 1500.20 2973.01 1933.20 1663.16 1760.76 1597.06 1003.23 1824.51 1766.23 Sub total 1326.14 655.94 413.74 903.0.0 5458.42 854.71 5862.42 954.40 1597.06 1637.20 6372.70 380.13 Subsistence 14400.00 14400.00 14400.00 14400.00 14600.00 15000.00 15200.00 2520.00 2525.94 711.00 374.45 <t< td=""><td>Smoked Fish</td><td>9.85</td><td>36.85</td><td>21.50</td><td>64.50</td><td>35.82</td><td>123.13</td><td>21.30</td><td>43.99</td><td>27.30</td><td>61.00</td><td>16.33</td><td>35.93</td></t<>	Smoked Fish	9.85	36.85	21.50	64.50	35.82	123.13	21.30	43.99	27.30	61.00	16.33	35.93
Sub total 2649.57 5586.96 2913.80 5903.76 3561.42 6490.52 3960.30 7338.69 4083.70 6103.83 4338.19 8649.07 MMH-FISM PRODUCTS Municipal Market 1073.51 719.04 1445.10 2879.10 1450.30 680.96 1547.16 766.39 1175.70 643.83 1279.96 950.12 MMA & Duher Dutlets 39.30 144.95 57.10 113.91 502.90 782.20 233.40 910.37 423.83 359.40 544.55 856.11 Sub total 1132.81 963.97 1500.20 2993.01 193.32 144.63.16 1780.56 1674.76 1599.08 1003.23 1824.51 1786.23 Sub total 1328.14 565.54 4515.40 9030.09 5658.42 6545.71 5662.42 9184.45 565.48 9364.00 6372.70 380.13 Total 3861.42 6545.17 5662.42 9184.45 5651.48 652.18 524.40 6372.70 730.00 1320.00	Salted Fish	9.65	41.74	26.70	80.10	33.80	141.73	9.70	38.63	5.10	20.50	4.45	21.49
NRH-FISH PRODUCTS Municipal Market 1093.51 719.04 144.31.0 2879.10 1450.30 680.96 1547.16 766.39 1175.70 643.63 1279.96 730.12 MRA & Other Dutlets 39.30 144.95 57.10 113.91 502.90 782.20 233.40 910.37 423.38 359.40 544.55 856.11 Sub total 1132.81 863.99 1500.20 2973.01 1953.20 1663.16 1780.56 1676.76 1599.08 1003.23 1624.51 1786.23 RURAL FISHING SCHERE 79.04 104.97 99.40 133.32 143.80 192.03 121.76 169.00 180.70 256.94 210.00 330.13 Subsistence 14200.00 14400.00 14400.00 14600.00 15000.00 15200.00 62241.00 6324.70 771.00 394.45 INBUSTRIAL FISHERIES 1006.00 51321.00 592464.00 4565.15.00 602218 652.18 653.40 673.50 227.10 711.00 394.45 </td <td>Sub total</td> <td>2649.57</td> <td>\$586.96</td> <td>2913.80</td> <td>5903.76</td> <td>3561.42</td> <td>6690.52</td> <td>3960.30</td> <td>7338.69</td> <td>4083.70</td> <td>8103.83</td> <td>4338.19</td> <td>8649.07</td>	Sub total	2649.57	\$586.96	2913.80	5903.76	3561.42	6690.52	3960.30	7338.69	4083.70	8103.83	4338.19	8649.07
Municipal Market 1073.51 719.04 1443.10 2879.10 1450.30 880.76 1547.16 766.39 1175.70 643.83 1279.76 930.12 Sub total 1132.81 663.99 1500.20 2973.01 1953.20 1665.16 1760.56 1676.76 1599.08 1005.23 1644.51 1766.23 RURAL FISHING SCHERE 79.04 104.99 99.40 133.32 143.80 192.03 121.76 1699.00 1805.72 266.94 210.00 4380.13 Total 3861.42 6555.94 451.340 9030.09 5659.42 6545.71 5862.42 9184.45 5863.48 7364.00 6372.70 380.13 Subsistence 14200.00 14400.00 14400.00 14400.00 14800.00 15000.00 15200.00 62281.00 6324.70 771.00 394.45 INDUSTRIAL FISHING 792.32 527.10 319.34 2220.00 771.00 394.45 591.22 220.00 2325.10 3119.34 2220.00 731.50 <td>NON-FISH PRODUCTS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2222222723</td> <td>.92232222</td> <td></td>	NON-FISH PRODUCTS										2222222723	.92232222	
NHA & Dther Dutlets 39.30 144.95 57.10 113.91 502.90 782.20 233.40 910.37 423.38 359.40 544.55 856.11 Sub total 1132.81 865.97 1500.20 2993.01 1953.20 1665.16 1780.56 1676.76 1599.08 1003.23 1824.51 1786.23 RURAL FISHING SCHEME 77.04 104.97 97.40 133.32 143.80 192.03 121.76 169.00 180.70 256.94 210.00 4360.13 Subsistence 14200.00 14400.00 14600.00 14600.00 1600.00 15000.00 15200.00 6372.70 380.13 Camed Fish (ctn) 709522.00 635461.00 551321.00 592484.00 43515.00 652.18 324.70 771.00 394.45 INUUSTRIAL FISHERIES 290.20 6478.60 4645.30 3830.00 5468.90 3426.20 4572.80 390.00 3252.00 2351.50 1237.20 173.00 Purse Seine 722.55 644.64	Municipal Market	1093.51	719.04	1443.10	2879.10	1450.30	880.96	1547.16	766.39	1175.70	643.83	1279.96	930.12
Sub total 1132.81 863.99 1500.20 2993.01 1953.20 1665.16 1780.56 1676.76 1599.08 1003.23 1824.51 1786.23 RURAL FISHING SCHEME 79.04 104.99 99.40 133.32 143.80 192.03 121.76 169.00 180.70 256.94 210.00 4360.13 Total 3861.42 6555.94 4513.40 9030.07 5638.42 8545.71 5862.62 9184.45 5865.46 9364.00 6372.70 380.13 Subsistence 14200.00 14400.00 14600.00 14800.00 15000.00 15200.00 CANMEGFY PRODUCTION 635461.00 551321.00 592484.00 436315.00 602281.00 Fish Meal 640.15 279.33 717.50 329.47 741.40 312.80 682.18 6352.10 3119.34 2220.00 Purse Seine 722.25 644.64 3830.00 5468.90 3426.20 4572.80 3900.00 3252.00 2325.10 3119.34 2220.00	NMA & Other Outlets	39.30	144.95	57.10	113.91	502.90	782.20	233.40	910.37	423.38	359.40	544.55	856.11
RURAL FISHING SCHEME 79.04 104.99 99.40 133.32 143.80 192.03 121.76 169.00 180.70 256.94 210.00 4380.13 Total 3861.42 6555.94 4513.40 9030.09 5658.42 8545.71 5862.62 9184.45 5863.48 934.00 6372.70 380.13 Subsistence 14200.00 14400.00 14600.00 14600.00 15000.00 15200.00 CANNEEY PRODUCTION Canned Fish (ctn) 709622.00 635461.00 551321.00 592484.00 43515.00 602281.00 Canned Fish (ctn) 709622.00 635461.00 531321.00 592484.00 43515.00 602281.00 Poise 11me 5828.20 4496.60 4664.30 3830.00 5468.90 3426.20 577.26 435.80 682.18 632.18 3224.70 771.00 394.45 Ing Line 3219.29 5073.00 2139.50 3371.00 1344.22 5581.80 1832.90 2200.00 2105.60 3751.50 1237.20 <td>Sub total</td> <td>1132.81</td> <td>863.99</td> <td>1500.20</td> <td>2993.01</td> <td>1953.20</td> <td>1663.16</td> <td>1780.56</td> <td>1676.76</td> <td>1599.08</td> <td>1003.23</td> <td>1824.51</td> <td>1786.23</td>	Sub total	1132.81	863.99	1500.20	2993.01	1953.20	1663.16	1780.56	1676.76	1599.08	1003.23	1824.51	1786.23
Total 3861.42 6555.94 4513.40 9030.09 5458.42 8545.71 5862.62 9184.45 5863.48 9364.00 6372.70 380.13 Subsistence 14200.00 14400.00 14600.00 14800.00 15000.00 15200.00 CAMRET FRODUCTION 640.15 279.33 717.50 329.67 741.40 312.80 682.18 652.18 324.70 771.00 394.45 INUUSTRIAL FISHERIES Pole 4 Line 5828.20 4694.60 6464.30 3830.00 5468.90 3426.20 4572.80 3900.00 3252.00 2325.10 3119.34 2220.00 Purse Seine 722.25 644.68 1006.70 812.60 1006.00 894.20 577.26 456.80 693.00 497.10 103.00 Long Line 3219.27 10414.28 7810.50 8013.60 9227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 Sub Total 9769.74 10414.28 7810.50 8013.60<	RURAL FISHING SCHEME	79.04	104.99	99.40	133.32	143.80	192.03	121.76	169.00	.180.70	256.94	210.00	\$380.1 3
Subsistence 14200.00 14400.00 14600.00 14600.00 1500.00 15200.00 CAMREY PRODUCTION Canned Fish (ctn) 709622.00 635461.00 551321.00 592484.00 436315.00 602281.00 Fish Meal 640.15 279.33 717.50 329.67 741.40 312.80 682.18 452.18 324.70 771.00 394.45 IMDUSTRAL FISHERIES Pole 4 Line 5828.20 4574.64 460.10 812.60 1006.00 874.20 577.26 436.80 673.00 471.0 1237.00 1237.20 173.00 Long Line 321.92 5073.00 2139.50 3371.00 1384.22 5581.80 1832.70 2200.00 2105.60 3751.50 1237.20 173.00 Sub Total 9769.74 10414.28 7810.50 801.60 8227.12 10284.03 8970.26 8131.10 8142.480 8194.20 10280.54 3950.00 Sub Total 9769.74 109.44 19.10 328.65 334.10 576.90	Totai	3861.42	6555.94	4513.40	9030.09	5658.42	8545.71	5862.62	9184.45	5863.48	9364.00	6372.70	380.13
Subsistence 14200.00 14400.00 14600.00 14600.00 15000.00 15200.00 CANMERY PRODUCTION CANNERY PRODUCTION CANNERY PRODUCTION Fish Meal 640.15 279.33 717.50 329.67 741.40 312.80 682.18 652.18 324.70 771.00 394.45 INDUSTRIAL FISHERIES Pole 4 Line 5828.20 4696.60 4664.30 3830.00 5468.90 3426.20 4572.80 3900.00 3252.00 2325.10 3119.34 2220.00 Purse Seine 722.25 644.68 1006.70 812.60 1006.00 894.20 977.26 438.80 6473.00 477.10 1073.00 Uther (Import) 3219.29 5073.00 2139.50 3371.00 1384.22 508.10 1597.30 2374.20 1620.50 5924.00 Sub Total 9769.74 10414.28 7810.50 8013.60 827.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 Sub Total 9769.74 10414.28 7810.50 108.80		82222222222	********						9922 22222	22222222222			
Canned Fish (ctn) 709622.00 635461.00 551321.00 592484.00 436315.00 602281.00 Fish Meal 640.15 279.33 717.50 329.67 741.40 312.80 682.18 6321.8 324.70 771.00 394.45 INDUSTRIAL FISHERIES Pole 4 Line 5828.20 4696.60 4664.30 3830.00 5468.90 3426.20 4572.80 3900.00 3252.00 2325.10 3119.34 2220.00 Purse Seine 722.25 644.68 1006.70 812.60 1084.22 5581.80 1823.90 200.00 2155.60 3751.50 1237.20 1730.00 Other (Import) 3219.27 5073.00 2139.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 Sub Total 7769.74 10414.28 7810.50 8013.60 7.70 61.62 8.00 64.00 10.82 108.20 53.34.00 53.34.00 54.61.19 274.00 534.30 233.64 <td< td=""><td>Subsistence CANNERY PRODUCTION</td><td>14200.00</td><td></td><td>14400.00</td><td></td><td>14600.00</td><td></td><td>14800.00</td><td></td><td>15000.00</td><td></td><td>15200.00</td><td></td></td<>	Subsistence CANNERY PRODUCTION	14200.00		14400.00		14600.00		14800.00		15000.00		15200.00	
Fish Meal 640.15 279.33 717.50 329.67 741.40 312.80 682.18 52.18 324.70 771.00 394.45 IMBUSTRIAL FISHERIES Pole 4 Line 5828.20 4696.60 4664.30 3830.00 5468.90 3426.20 4572.80 3900.00 3252.00 2325.10 3119.34 2220.00 Purse Seine 722.25 644.68 1006.70 812.60 1006.00 894.20 577.26 435.80 693.00 497.10 1237.20 1730.00 Qther (Isport) 368.00 381.83 1987.30 1594.30 2374.20 1620.50 5924.00 10280.54 3950.00 Sub Total 9769.74 10414.28 7810.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 Sub Total 9769.74 109.64 219.10 328.65 334.10 576.90 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 647.90 <t< td=""><td>Canned Fish (ctn)</td><td>709622.00</td><td></td><td>635461.00</td><td></td><td>551321.00</td><td></td><td>592484.00</td><td></td><td>436315.00</td><td></td><td>602281.00</td><td></td></t<>	Canned Fish (ctn)	709622.00		635461.00		551321.00		592484.00		436315.00		602281.00	
INDUSTRIAL FISHERIES Pole & Line 5828.20 4696.60 4664.30 3830.00 5468.90 3426.20 4572.80 3900.00 3252.00 2325.10 3119.34 2220.00 Purse Seine 722.25 644.88 1006.70 812.60 1006.00 894.20 577.26 436.80 697.00 2105.60 3751.50 1237.20 1730.00 Long Line 3219.29 5073.00 2139.50 3371.00 1384.22 5581.80 1892.90 2200.00 2105.60 3751.50 1237.20 1730.00 Gther (laport) 769.74 10414.28 7810.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 BAIT 110.59 144.57 114.56 95.18 57.20 59.70 ELPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 83.33.30 233.66 738.99 MOP	Fish Meal	640.15	279.33	717.50	329.67	741.40	312.80	682.18		652.18	324.70	771.00	394,45
Pole & Line 5628.20 4696.60 4664.30 3830.00 5468.90 3426.20 4572.80 3900.00 3252.00 2325.10 3119.34 2220.00 Purse Seine 722.25 644.68 1006.70 812.60 1006.00 894.20 577.26 436.80 673.00 477.10 Long Line 3219.29 5073.00 2139.50 3371.00 1384.22 5581.80 1832.70 220.00 2105.60 3751.50 1237.20 1730.00 Other (laport) 769.74 10414.28 7810.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 BAIT 110.59 144.57 114.56 95.18 57.20 59.70 59.70 ELPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 63.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10	INDUSTRIAL FISHERIES	5											
Purse Seine 722.25 644.68 1006.70 812.60 1006.00 894.20 577.26 436.80 693.00 497.10 Long Line 3219.29 5073.00 2139.50 3371.00 1384.22 5581.80 1832.90 2200.00 2105.60 3751.50 1237.20 1730.00 Sub Total 9769.74 10414.28 7810.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 MAIT 110.59 144.57 114.56 95.18 57.20 59.70 EXPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 8.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10 57.690 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 2.64.2 17.10 51.10 22.30 80.28 23.60	Pole & Line	5828.20	4696.60	4664.30	3830.00	5468.90	3426.20	4572.80	3900.00	3252.00	2325.10	3119.34	2220.00
Long Line 3219.29 5073.00 2139.50 3371.00 1384.22 5581.80 1832.90 2200.00 2105.60 3751.50 1237.20 1730.00 Guther (Import) 368.00 381.83 1987.30 1594.30 2374.20 1620.50 5924.00 Sub Total 9769.74 10414.28 7810.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 BAIT 110.59 144.57 114.56 95.18 57.20 59.70 EXPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 8.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10 576.90 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 84.67 16.10 56.20	Purse Seine	722.25	644.68	1006.70	812.60	1006.00	894.20	577.26	436.80	693.00	497.10		
Other (laport) 368.00 381.83 1987.30 1594.30 2374.20 1620.50 5924.00 Sub Total 9769.74 10414.28 7810.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 BAIT 110.59 144.57 114.56 95.18 57.20 59.70 EXPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 8.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10 57.69 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 84.76 16.10 56.00 12.34 45.12 Beche-de-Mer 15.84 109.08 34.60 346.03 32.90 394.80 53.70 451.35 66.20 660.00 229.38 886.67 Frozen fish-Private 5.40 24.41	Long Line	3219.29	5073.00	2139.50	3371.00	1384.22	5581.80	1832.90	2200.00	2105.60	3751.50	1237.20	1730.00
Sub Total 9769.74 10414.28 7810.50 8013.60 8227.12 10284.03 8970.26 8131.10 8424.80 8194.20 10280.54 3950.00 BAIT 110.59 144.57 114.56 95.18 57.20 59.70 EXPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 8.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10 576.90 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 84.76 16.40 56.00 12.34 45.12 Beche-de-Mer 15.84 109.08 34.60 346.03 32.90 394.80 53.70 451.35 66.20 660.00 229.38 886.67 Frozen fish-Private 5.40 24.41 7.50 37.50 3.10 15.50	Other (Import)					368.00	301.83	1987.30	1594.30	2374.20	1620.50	5924. 00	
BAIT 110.59 144.57 114.56 95.18 57.20 59.70 EXPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 8.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10 576.90 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 84.76 16.10 56.00 12.34 45.12 Beche-de-Mer 15.84 109.08 34.60 346.03 32.90 334.80 53.70 451.35 66.20 660.00 229.38 886.67 Frozen Grab 4.10 20.41 4.26 34.08 1.50 12.00 - - 0.04 0.18 Frozen fish-Private 5.40 24.41 7.50 37.50 5.10 15.50 4.60 46.00 286.60	Sub Total	9769.74	10414.28	7810.50	8013.60	8227.12	10284.03	8970.26	8131.10	8424.80	8194.20	10280.54	3950.00
EXPORT Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 8.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10 576.90 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 84.76 16.10 56.00 12.34 45.12 Beche-de-Mer 15.84 109.08 34.60 346.03 32.90 394.80 53.70 45.135 66.20 660.00 22.93 886.67 Frozen Crab 4.10 20.41 4.26 34.08 1.50 12.00 - - 0.04 0.18 Frozen fish-Private 5.40 24.41 7.50 37.50 3.10 15.50 4.60 46.00 26.60 133.00 89.77 309.66 Dried Seaweed Sanced Fish 0.04 0.11 <td< td=""><td>BAIT</td><td>110.59</td><td></td><td>144.57</td><td>********</td><td>114.56</td><td></td><td>95.18</td><td>********</td><td>57.20</td><td>3233272921</td><td>59.70</td><td>********</td></td<>	BAIT	110.59		1 44.5 7	********	114.56		95.18	********	57.20	3233272921	59.70	********
Shark fin 41.60 207.72 40.50 108.80 7.70 61.62 8.00 64.00 10.82 108.20 8.32 84.36 Trochus 182.70 109.64 219.10 328.65 334.10 576.90 340.10 646.19 274.00 534.30 233.66 738.99 MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 84.76 16.10 56.00 12.34 45.12 Beche-de-Mer 15.84 109.08 34.60 346.03 32.90 394.80 53.70 451.35 66.20 660.00 229.38 886.67 Frozen Crab 4.10 20.41 4.26 34.08 1.50 12.00 - - 0.04 0.18 Frozen fish-Private 5.40 24.41 7.50 37.50 3.10 15.50 4.60 46.00 26.60 133.00 88.77 309.66 Dried Seaweed Saoked Fish 1673.30 2810.11 543.70 773.90 492.50 526.70 633.80 1967.40 2216.77 4791.68		11111222222 2 2	*******		222323222			33232222233					**********
International contraint International contraint <td>Shark fin</td> <td>41.60</td> <td>207.72</td> <td>40.50</td> <td>108.80</td> <td>7.70</td> <td>61.62</td> <td>8.00</td> <td>64.00</td> <td>10.82</td> <td>108.20</td> <td>8.32</td> <td>84.36</td>	Shark fin	41.60	207.72	40.50	108.80	7.70	61.62	8.00	64.00	10.82	108.20	8.32	84.36
MOP 70.05 26.42 17.10 51.10 22.30 80.28 23.60 84.76 16.10 56.00 12.34 45.12 Beche-de-Mer 15.84 109.08 34.60 346.03 32.90 394.80 53.70 451.35 66.20 660.00 229.38 886.67 Frozen Crab 4.10 20.41 4.26 34.08 1.50 12.00 - - 0.04 0.18 Frozen fish-Private 5.40 24.41 7.50 37.50 3.10 15.50 4.60 46.00 26.60 133.00 88.77 309.66 -PAFC0 1673.30 2810.11 543.70 773.90 492.50 526.70 633.80 674.90 1823.00 3300.00 186.00 180.68 Dried Seaweed 307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27 2761.47 Sub total 1992.99 3307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27	Trochus	182.70	109.64	219.10	328.65	334.10	576.90	340.10	646.19	274.00	534 30	233.66	738.99
Beche-de-Mer 15.84 109.08 34.60 346.03 32.90 394.80 53.70 451.35 66.20 660.00 229.38 886.67 Frozen Crab 4.10 20.41 4.26 34.08 1.50 12.00 - - 0.04 0.18 Frozen Crab 4.10 20.41 4.26 34.08 1.50 12.00 - - 0.04 0.18 Frozen fish-Private 5.40 24.41 7.50 37.50 3.10 15.50 4.60 46.00 26.60 133.00 88.77 309.66 -PAFC0 1673.30 2810.11 543.70 773.90 492.50 526.70 633.80 674.90 1823.00 3300.00 186.00 180.68 Dried Seaweed saked Fish 0.04 0.11 145.35 380.59 0.04 0.11 Sub total 1992.99 3307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27<	HOP	70.05	26.42	17.10	51.10	22.30	R0.28	23.60	84.96	16.10	54.00	12.34	45.12
Frozen Crab 4.10 20.41 4.26 34.08 1.50 12.00 - - 0.04 0.18 Frozen fish-Private 5.40 24.41 7.50 37.50 3.10 15.50 4.60 46.00 26.60 133.00 88.77 309.66 -PAFC0 1673.30 2810.11 543.70 773.90 492.50 526.70 633.80 674.90 1823.00 3300.00 186.00 180.68 Dried Seaweed socked Fish 0.04 0.11 145.70 773.90 492.50 526.70 633.80 674.90 1823.00 3300.00 186.00 180.68 Inters 0.04 0.11 145.70 773.90 492.50 526.70 633.80 1674.90 1823.00 3300.00 186.00 180.68 Inters 0.04 0.11 145.78 1667.80 1063.80 1967.40 2216.77 4791.68 948.27 2761.47 Aguarium Fish (no) 12866.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 1	Berbe-de-Her	15.84	109.08	34.60	346.03	32.90	394.80	53.70	451.35	66.20	660.00	229.38	886.67
Frozen fish-Private 5.40 24.41 7.50 37.50 3.10 15.50 4.60 46.00 26.60 133.00 88.77 309.66 PAFC0 1673.30 2810.11 543.70 773.90 492.50 526.70 633.80 674.90 1823.00 3300.00 186.00 180.68 Dried Seaweed soked Fish 0.04 0.11 15.50 4.60 1663.80 1967.40 2216.77 4791.68 948.27 2761.47 Sub total 1992.99 3307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27 2761.47 Aquarium Fish (no) 12866.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Domestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	Frozen Crab	4.10	20.41	4.26	34.08	1.50	12.00	-	-	0.04	0.18		
-PAFC0 1673.30 2810.11 543.70 773.90 492.50 526.70 633.80 674.90 1823.00 3300.00 186.00 180.68 Dried Seaweed socked Fish 0.04 0.11 145.29 0.04 0.11 Bthers 3307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27 2761.47 Aquarium Fish (no) 12866.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Bomestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 740.00 108.86 8192.00 162.98	Frozen fish-Privat	e 5.40	24.41	7.50	37.50	3.10	15.50	4.60	46.00	26.60	133.00	88.77	309.66
Dried Seaweed 173.41 135.29 Smoked Fish 0.04 0.11 Bthers 16.35 380.59 Sub total 1992.99 3307.79 866.76 1680.06 894.10 1667.80 1967.40 2216.77 4791.68 948.27 2761.47 Aquarium Fish (no) 12866.00 2400.00 59404.00 96.48 71840.00 103.33 Canned Fish (ctn) 662206.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Domestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	-PAFCO	1673.30	2810.11	543.70	773.90	492.50	526.70	633.80	674.90	1823.00	3300.00	186.00	180.69
Smoked Fish Bthers 0.04 0.11 Bthers 16.35 380.59 Sub total 1992.99 3307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27 2761.47 Aquarium Fish (no) 12866.00 2400.00 59404.00 96.48 71840.00 103.33 Canned Fish (ctn) 662206.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Bomestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	Dried Seaweed		••••••	•••••				•••••				173.41	135.29
Bthers 16.35 380.59 Sub total 1992.99 3307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27 2761.47 Aquarium Fish (no) 12866.00 2400.00 59404.00 96.48 71840.00 103.33 Canned Fish (ctn) 662206.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Domestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	Smoked Fish											0.04	0.11
Sub total 1992.99 3307.79 866.76 1680.06 894.10 1667.80 1063.80 1967.40 2216.77 4791.68 948.27 2761.47 Aquarium Fish (no) 12866.00 2400.00 59404.00 96.48 71840.00 103.33 Canned Fish (ctn) 662206.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Domestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	Others											16.35	380.59
Aquarium Fish (no) 12866.00 2400.00 59404.00 96.48 71840.00 103.33 Canned Fish (ctn) 662206.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Domestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	Sub totai	1992.99	3307.79	866.76	1680.06	894.10	1667.80	1063.80	1967.40	2216.77	4791.68	948.27	2761.47
Canned Fish (ctn) 662206.00 15468.10 574129.00 11310.00 771470.00 16416.00 589543.00 16088.50 450198.00 12497.10 615994.00 19500.00 Domestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	Anuarium Fish (no)			IZIZUU02220		JACHENÍNES		12866.00	2400.00	59404.00	96.4R	71840.00	103.33
Domestic canned(ctn) 6662.00 88.25 7691.00 108.96 7034.00 76.38 8678.00 116.82 7400.00 108.86 8192.00 162.98	Canned Fish (ctn)	662206.00	15468.10	574129.00	11310.00	771470.00	16416.00	589543.00	16088.50	450198.00	12497.10	615994.00	19500.00
	Domestic canned(ctr	6662.00	88.25	7691.00	108.96	7034.00	76.38	8678.00	116.82	7400.00	108.96	8192.00	162.98