



# FISHING LINE



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## Two-Day Tuna Consultative Meeting Held in Port Moresby

A two-day Tuna Consultation meeting was held in Port Moresby between the National Fisheries Authority, the Fishing Industry and Provincial Fisheries Authorities on the Tuna Management Plan. The meeting was funded by the International Waters Project of the Global Environment Facility and held at the Crowne Plaza Hotel from 22 - 23rd August.

The National Tuna Management Plan provides the framework for the management and development of Papua New Guinea's Tuna Fishery, one of the largest and most productive in the Pacific. The current plan was drawn up in 1997, and since then, there have been some important changes in the fishery in the last four years.

In his opening speech, the Acting Managing Director of NFA, Mr Michael Batty revealed that tuna fishing had been one of the fastest growing sectors of the PNG economy over the past five years, with a rapid expansion of exports. He also noted the importance of fisheries access agreements in foreign relations and as a source of revenue for the State.

A briefing on changes in regional tuna management arrangements was presented by Mr Len Rodwell and Mr Les Clark from the Forum Fisheries Agency, which highlighted the fact that access to the fishery is likely to become more restricted as Pacific Island countries limit the fishing effort in their zones.

Mr Keith Bigelow of the Secretariat for the

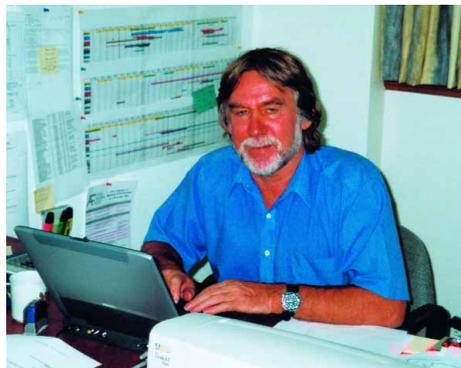
Pacific Community presented the latest estimates of Total Allowable Catches for the PNG zones. Although catches in recent years have not exceeded the recommended limits, there is evidence of a decline in the Yellowfin Tuna population. There is also concern over the status of the Bigeye tuna stock. These two species form the basis for PNG's domestic tuna longline fishery.

Presentations were also made by Mr Maurice Brownjohn, Chairman of the Papua New Guinea Fishing Industry Association and Mr Joachim Niaguma, Fisheries Adviser for East Sepik, on behalf of the Provincial Fisheries Administrations.

A number of key issues in the management of the fishery were discussed, which included:

- The management of the use of Fish Aggregation Devices in PNG waters;
- The localisation policy;
- Possible new input based management measures to limit fishing effort; and
- The development of criteria for licence fees that reflect the economic benefit received from the different fishing operations.

The meeting also approved the formation of a consultative committee for future representation of the views of the fishing industry and provincial administrations to NFA. There will also be consultations with other Government Departments and stakeholders before any revision of the Tuna Management Plan is submitted to the National Fisheries Board for approval.



• The front man behind the relocation of NFA offices. Mr Peter Cusack, Deputy Team Leader, ADB Projects hard at Work.



• NFA Officers shifting boxes to new office.

• NFA OFFICE RELOCATION, more STORIES AND PICTURES next Issue

## From the Managing Director's Desk

August proved to be another eventful month for NFA. After some delay, we finally moved to our new office in the Deloitte tower - a great improvement. New computer and telephone systems were up and running almost immediately, and there were only a couple of days during which communications were problematic. My apologies to anyone who was trying to contact us during that period.

The Tuna management consultation, while not raising many new issues, allowed the different sectors of the tuna fishing industry to exchange views. The report from SPC scientists on the status of the Tuna stocks was less encouraging than in the past, and emphasizes the need to enforce controls on fishing effort - particularly in surface tuna fisheries taking a significant percentage of Yellowfin and Bigeye. We look forward to further consultation with the committee that was established during the meeting.

Throughout the month we were receiving comments on the draft Beche-de-mer management plan. There is quite widespread support for allowing greater competition in the buying and export of this commodity, as proposed in the plan. It should be emphasized that management plans are not set in stone: for example the TACs for each Province will be kept under constant review, and will be

revised in line with the results of resource surveys. A major survey is planned for Milne Bay Province later this year.

As you will see from the newsletter, NFA enforcement staff received training in the use of the VMS for monitoring fishing activities early in the month. This training was put to almost immediate use, in detecting and prosecuting a prawn trawler for fishing inside the 3 mile limit: the first prosecution brought on VMS evidence in Papua New Guinea. While infringements by the domestic fleet are not our highest priority, the 3 mile limit is important in conserving prawn nursery areas. Failure to observe the limit has been a frequent cause of conflict with coastal villagers, which is not in the best interests of any trawler operator. We will therefore be pursuing further prosecutions until such time as compliance improves.

During September we will be holding preliminary discussions on fisheries access with the Peoples' Republic of China, a new entrant into the Tuna purse-seine industry. We also expect the draft final report of the ADB coastal fisheries project design team.

**Michael Batty**  
Acting Managing Director

## Fishing Licenses Granted to National Company

A trial fishing licence has been granted to a nationally owned company to fish prawns in the waters of Western Province.

The vessels FV Aki, FV Kittu and FV Sea Dragin are fishing vessels owned by Yuwan Fisheries. The vessels, FV Aki and FV Kittu have been granted prawn-fishing licenses, while FV Dragin has been granted a mothership license respectively on 30 August 2001, and all licences are valid only for a year.

The National Fisheries Authority Board approved these licenses to fish prawns only in the Papua New Guinea side of the Torres Strait Protected Zone and Western Province.

The granting of the license is aimed at seeing whether the fishery is economical-

ly viable and NFA believes one year is sufficient to observe viability of the trial.

The Dragin will be used as the mothership to bring in supplies and to load and ship catch to port, and FV Kittu and FV Aki will be at the fishing grounds.

There are strict conditions attached to the granting of the licenses, and one worth mentioning is the 100% Observer Coverage, which among other things, involves collecting biological and economic data to determine the viability of the fishery for continued fishing within the areas.

For more information, please contact, **Mr Barre Kare** on Tel: 321 2643, Fax: 320 2061

## PNG to Host Infosh Governing Council Meeting

The National Fisheries Authority will be hosting the Sixteenth INFOFISH Governing Council Meeting in Port Moresby.

It will be held from 6 to 9 November 2001. The following member countries will be attending the meeting; Bangladesh, Fiji, India, Iran, Malaysia, Solomon Islands, Sri Lanka, Thailand, Maldives,

Food Agriculture Organization (FAO) and Papua New Guinea.

The purpose of the meeting is to report on the progress of activities undertaken by the Organization, review market situation and the principal fishery commodities relevant to Member Countries, and to program the work plan for the year 2002.



## Staff Profile

**Name:** Mr Ronald Kuk  
**Age:** 41 years old  
**Marital Status:** Married with three children

**Qualification:** Post Graduate Economics Diploma - Simon Fraser University, Burnaby B.C. Canada, & Bachelor of Economics (Honors) - UPNG

**Current Position:** Manager - Project Management Unit

Mr Kuk is the Manager in charge of planning and implementing designated projects, programs and other activities, such as the public investment programmes, for the development of PNG fisheries sector. He comes from Vunilir Village, East New Britain Province.

He graduated from the University of Papua New Guinea with a Bachelor of Economics Degree in 1982. He was offered a job the very next day after his final examinations with the Fisheries Division of the Department of Primary Industry.

He joined the Fisheries Division shortly after the opening of its office premises at Kanudi. He worked under Dr David Doullman at that time as a graduate Fisheries Economist Grade 1. His main role was identifying major projects, planning, formulation, implementation, appraisal and monitoring of fisheries sectors, namely Tuna and Prawn industries.

In 1984, he was promoted to Fisheries Economist Grade 2 entrusted with the task of revitalising the major fisheries sectors of PNG, which are Tuna, Prawn, Lobster, Barramundi and coastal artisanal fisheries. Whilst performing that role, he also enrolled for a Honors Program at UPNG and graduate in 1985 with a Bachelor of Economics with Honors. He wrote a number of papers in the prawn and tuna industries as a requirement under the Honors program, which were published in Australia. His papers were based on his researches, which he spent three weeks on a Prawn vessel and on a motherboat in Kavieng and Manus.

In 1985, Mr Kuk was further promoted to Chief Fisheries Economist and headed a Branch, which was responsible for the planning, coordination, implementation, and supervision of the Economics and Marketing Branch. This Branch covered all areas of Fisheries Management and Provincial and Industry Liaison. In this capacity, he represented the PNG Government on travel and access negotiations of the fisheries with Japan, Taiwan, South Korea and the Multilateral Treaty with the United States Government.

In 1987, he undertook a Post-graduate Economics Diploma studies at the Simon Fraser University in Canada and graduated in early 1989.

Upon returning to PNG in 1989, he became the Assistant Secretary of the Economics and Marketing Branch with the Department of Fisheries and Marine Fisheries, and was actively involved with the planning, coordination and implementation of government negotiations on Fisheries access arrangements, agreements and treaties. He was also instrumental in initiating discussions with the ADB for the negotiation of the fisheries development loan and also establishing an integrated surveillance program.

In 1992, he was seconded to the Project Cycle Unit of the Department of Finance and Planning, as the Senior Project Cycle Assistant responsible for preparing project cycle operational guidelines, training programs and documentation of project cycle operational manual Volume 2. The following year, he became the head of the Project Cycle Unit, a position he held for three years.

From 1996 to 2000, he worked as First Assistant Secretary, Policy Development and Analysis Division with Department of National Planning and Monitoring. During that time, he was instrumental in the negotiations for loans from the International Financial Institutions for funding of Public Investment Programs, including Agricultural and Fisheries projects.

In February 2000, he returned to NFA as the Provincial Liaison Advisor and the following year, he was appointed Manager- Project Management Unit. Mr Kuk is also on the Board of the Gazelle Restoration Authority (GRA), a body established after the twin volcanic eruptions in East New Britain Province, as the liaison officer and technical advisor appointed by the National Executive Council. He is responsible for liaising and negotiating funding for the overall restoration programme on the Gazelle Peninsula.

# An In-Depth Look at Project Management Unit

## National Fisheries Authority Project Management Unit (PMU)

### Old NFA

Under the old NFA, the Project Management Unit was established under the auspices of the ADB Loan No. 1656-PNG: Fisheries Development Project. It was basically established to undertake the management and administration of the ADB Fisheries Development Project. The PMU was headed by a Project Coordinator, with three other local project staff and consultants.

### New NFA

With the ongoing projects and the upcoming new donor supported projects, there is a need for the continued existence of PMU to undertake fulltime project implementation, management and overall coordination and administration of project implementation.

Currently, the PMU is made up of the consultants - GPA Team Leader, Project Management Specialist, the Projects Coordinator (who is also part of the Directorate Division or Management Group), counterpart staff from PNG Harbours Board and a project secretary.

The Projects Coordinator's counterpart is the Team Leader of the consultants who must consult on regular basis. The Projects Coordinator is accountable to the Projects Manager and the Managing Director, in terms of reporting on the progress of project implementation. Consultants are engaged in very specific areas of responsibilities, therefore each consultant does completely different tasks to accomplish different project milestones.

### NFA Projects Group

Projects Group is current made up of Projects Manager and Projects Coordinator.

### Function

Manage the planning and execution of designated projects, programs or other activities, including public investment programmes, for the development of PNG fisheries sector.

### Goals

- Facilitate and coordinate the development of an overall fisheries development strategy to provide the framework for assessing project priorities and communicate development priorities to funding agencies
- Manage the ADB Fisheries Development project to meet NFA / Government's contractual commitments on time
- Ensure NFA/government requirements and obligations are met for the National Fisheries College Strengthening Project
- Assist with the implementation of and manage the EU Rural Fisheries Development project to meet NFA / Government's contractual commitments on time
- Coordinate the NFA approach and policy on the National Surveillance project to ensure tightened financial and operating control
- Assist with the implementation of and manage the ADB Coastal Fisheries Development project to meet NFA/Government's contractual commitments on time
- Facilitate the Infish pilot value-added programme to obtain the commitment and involvement of private sector operators in this project

- Perform other duties as directed by the Managing Director

### Projects Manager

Responsible for the overall management of the contractual obligations under which NFA projects are implemented. He is accountable to the Managing Director. The Projects Manager is assisted by the Projects Coordinator.

Under the supervision of the Projects Manager, the Project Coordinator is responsible for general project administrative tasks.

### Responsibilities

The Projects Group is responsible for day-to-day management of NFA's projects in the Project Management Unit.

- Establish and maintain close liaison and effective communication with technical and administrative staff of donor agencies currently involved in the fisheries projects, consulting advisors, other relevant government agencies, the fishing industry, and members of the Project Steering Committees;
- Develop a detailed understanding of project goals, structures and administrative requirements;
- Support the project team leaders in project implementation;
- Maintain an appropriate and effective project administration system, including a prescribed system for the accountable management of funds;
- Establish and implement the prescribed monitoring and reporting systems and ensure the timeliness and accuracy of all scheduled reporting;
- Ensure all advisors and counterparts are fully briefed and updated on project goals, procedures and guidelines;
- Support achievement of project milestones; and
- Provide ongoing advice to NFA management on the progress and effectiveness of project implementation.

### Activities involved are:

- (i) Developing and approving project plans;
- (ii) Reviewing progress reports, monitoring progress, and ensuring milestones are achieved within the required time frames;
- (iii) Investigating and resolving issues and problems;
- (iv) Coordinating tasks and facilitating communication;
- (v) Monitoring costs;
- (vi) Preparing and disseminating reports to the Project Steering Committees and the donor agencies;
- (vii) Scoping what is to be contracted;
- (viii) Developing an evaluation methodology;
- (ix) Preparing and releasing to the market a request for proposal;
- (x) Selecting a preferred supplier(s);
- (xi) Negotiating contracts; and
- (xii) Establishing reporting requirements.

For more information, please contact the Manager-Project Management Unit, Mr Ronald Kuk on Tel: 321 2643 Fax: 320 2061

## Nominations Open to Public for Beche-de-mer Fishery Committee Member

Nominations are now open to the public to be a Committee Member of the National Management Advisory Committee on the Beche-de-mer Fishery.

The National Fisheries Authority will be establishing a National Management Advisory Committee under the National Beche-de-mer Fishery Management Plan (NMAC) and is therefore soliciting nominations from the public.

A National Management Advisory Committee will be formed and will include stakeholders nation wide. This Committee will be appointed by the Managing Director and will provide advice to the Managing Director on management measures as the Managing Director may specify, including, total allowable catches, closed seasons, reporting, restrictions, trade and any other relevant issues that the Managing Director may direct from time to time.

One of the NMAC's tasks will be to decide when the Management Plan needs revision and be closely involved in any consultation with the broader beche-de-mer fishing community. The NMAC may also take on the responsibility for advising on other species often collected and traded in the same way as beche-de-mer, such as the green snail or trochus, if directed by the Managing Director/Minister.

NFA strongly believes that a NMAC will provide an unbiased overview of beche-de-mer management for the whole country. The representatives will bring truer perspectives from different provinces so that a wide range of issues is considered as management recommendations are agreed upon.

The National Management Advisory Committee will consist of the following person,

appointed by the Managing Director.

- One fishery scientist.
- Two customary fisher representatives.
- Two fishing industry representatives nominated by the fishing industry.
- A representative from a non-government organisation whose objectives include conservation of the marine environment and resources.

No more than two members may represent groups or government from the same province. Elected political office holders are not eligible for membership on the NMAC.

NFA is looking for individuals who possess the following qualities;

- Knowledge of the fishery.
- Previous broad knowledge of Beche-de-mer and all aspects of the fishery.
- A team player, whom other members, can rely on.
- Enthusiasm to work for collective objective.
- Recognised person in a community/with business background.

Interested persons should send your application, addressed to the Managing Director, National Fisheries Authority, P.O. Box 2016, Port Moresby.

\* Applications close on 30th September 2001.

For more information, please contact the Fisheries Manager-Sedentary, Mr Philip Polon on Ph: 321 2643 / 320 2061

## VMS, Mapinfo In-Country Workshop Held in Port Moresby

A Vessel Monitoring System (VMS) Workshop was conducted for the FFA Member Countries from 6 to 9 August in Port Moresby.

The Workshop was conducted by Mr Albert Carlot, a Vessel Monitoring System Support Officer from the Forum Fisheries Agency (FFA) in Honiara, Solomon Islands. Mr Carlot has been involved with the VMS at FFA for nearly 10 years. His field is Information Technology and he has been involved in developing the VMS. The Forum Fisheries Agency VMS is the biggest system in the world and is an integration of about 14 different systems.

The Acting Managing Director, Mr Michael Batty in his opening address for the workshop, welcomed Mr Carlot and said that the role of Enforcement is very important, making the use of VMS equally important for the Monitoring and Enforcement officers in their area of duty.

He said it is something that our fishing industry and also overseas industries use which we must try to know and use the system well to help in our work so that in future, we can be able to better monitor overseas vessels.

The workshop is part of continuous training for officers in the area of Monitoring, Control and Surveillance (MCS). So far there have been three workshops of this sort this year. Knowledge gained from the Workshop, will greatly enhance the officers' job in monitoring the vessels out at sea.

The Manager-Monitoring and Enforcement, Mr Lamiller Pawut thanked the FFA for their continuous support to NFA in MCS. This is an important course for officers in the

Monitoring and Enforcement Division.

The Workshop covered all aspects of VMS, which included an overview of the FFA VMS, Who uses the VMS, Uses for the VMS, How VMS Works, Collecting Vessel Information, Transferring Vessel Information, Processing and Analysing, Communicating Information, Communication Methods, Presenting VMS Information, Responding to Position Reports, How to Purchase, Install and Register a VMS System.

Workshop participants comprised NFA Monitoring and Enforcement Staff, Audit and Certification Staff and PNGDF officers.

This year the program cost US\$20 000 and is being funded by the European Union. The first course was held last year in the Federated State of Micronesia. Mr Carlot said he normally does individual training but this is the first group training to be done in PNG. He said the all FFA Member countries are new to the Vessel Monitoring System, except Australia and New Zealand. The VMS started operation in 1997.



• NFA Officers at the Workshop

## Suspension Lifted on Live Reef Food Fish

The suspension on the trialing of Live Reef Fish Food Fishery in New Ireland Province has been uplifted. The trial will proceed for only six months or when the operator reaches the required quantity for export. The operator will be allowed to make at least 10 tonnes, to make a shipment out of Papua New Guinea to Hong Kong.

Observers will go to the fishing grounds and collect information for data presentation. Observers gather information such as the weight of fish, length of fish, different fish species and location.

NFA has identified three major spawning sites in each of the following areas; Tigak, Soson and Tingwon Islands. These areas are in the New Ireland Province. Fishing and related activities will be prohibited within these known spawning areas. Anybody found fishing in these spawning areas will be prosecuted. Observers on duty are to watch out for any illegal activities during the trial period.

From the information and data collected during the trial period, policies and guidelines for future management of Live Reef Fish Food will be developed.

People are hereby advised that at this stage, the LRFT is only a trial and

not a fishery as yet.

The trial of Live Reef Fish Food on the three Islands of Tigak, Soson and Tingwon was temporarily suspended on 24 April 2001. However, after completion of surveys to determine spawning sites within these areas in May, the National Fisheries Authority has now set coordinates of the boundaries for the management areas.

Management guidelines for trial have been drafted, which will set controls on the fishery, and the operator must follow them. The Total Allowable Catch (TAC) will not be set by the NFA until it has collected sufficient data on which to base a TAC.

In Milne Bay Province, plans are underway to carry out a survey on October 10 to assess stock to see whether it is viable to trial a similar project. We will advise proponents whether there is sufficient stock to trial another Live Reef Fish Food Fishery.

For more information, please contact **Mr Leban Gisawa**, Fishery Manager - Inshore on Ph: 321 2643 Fax: 320 2061

## NFA Offers Two Weeks Training for Law Student

A Student Trainee from the Legal Training Institute (LTI), Jacqueline Lilih has spent two weeks work experience with the Legal Division of the National Fisheries Authority. Ms Lilih is of mixed parentage, Madang and Manus, is aged 25.

The work attachment is part of their legal training towards end of each school year, where the students take up work attachments with different government and private sector companies to gain first hand experience of what goes on in the legal world.

During her two weeks with NFA, she

was impressed with the kind of work done here and she would like to take this opportunity to thank the Acting Managing Director for approving her attachment. She was also very thankful to Mr Anlus Iwais, NFA's Legal Officer for his assistance. Her dream is to become a maritime lawyer.

"I am very fortunate to have come to NFA because the Legal Section within the Corporate Services Division is only eight months old and Mr Iwais was kind enough to take on an extra burden when he has heaps to do in this new Section." She said.

## New Industry Liaison Officer for NFA

The Provincial and Industry Liaison Division has a new Industry Liaison Officer. He is Mr Jonathan Manieva, aged 30, married with two children. He comes from Kainantu in the Eastern Highlands Province.

Mr Manieva holds a Degree in Economics with Business Science Major from the University of Papua New Guinea. He was a former Commercial Lending Assistant with the Bank of South Pacific.

His prime tasks with the National Fisheries Authority is to be a party to all negotiations on access agreements, represent NFA on National, Regional and International Fishery Meetings, Conventions and Forums.

He will have close association with all divisions, especially on licensing and monitoring and other tasks, as and

when required by the Provincial and Industry Liaison Advisor and the Managing Director.

"I will do my best to grasp the whole aspect of the Industry and NFA and to get the work done." He said.

Mr Manieva has taken on some responsibilities left behind by Mr Norman Barnabas, who has left for study leave overseas, and is gradually relieving Mr Bob Densley on some workload.

He will be providing assistance to Mr Densley and the Provincial and Industry Liaison Division in dealing with complex issues relating to access agreement.

Mr Densley said that Mr Manieva brings with him a lot of experience from the bank and IPA to NFA, where he will be assisting the fishing industry in their queries and issues.

## NFA Donates Used Items to Schools



The Principal of Ted Diro Community School, Mr Laho Haro being given some filing boxes and arch lever files by NFA staff, Oui Hatagen, Nerrie Leba and NFA driver Natatuma Alabati

The National Fisheries Authority has maintained its public relations by donating furniture and other items to the neighbouring local communities and schools in the National Capital District.

So far, under the relocation theme, the National Fisheries

Authority has donated items to the following schools; Ted Diro Community School, Boroko Primary School, Tokarara Primary School, National Fisheries College - Kavieng, Hagara Primary School, Baruni Primary School, Waigani Primary School, Gerehu Primary School, Tatana Primary School, St John Ambulance Tokarara, Badihagwa High School, Waigani Catholic Noblette, Holy Rosary Primary School, Port Moresby Grammar School, PNGDF Patrol Base Lombrum and the Hohola Cheshire Home. The purpose of the donation is to maintain our public relations with the schools and also to support the particular schools that the children of the staff of the NFA attend.

Donation was made to the Cheshire home based on humanitarian grounds. Donations to Tatana and Baruni Community Schools were made to maintain NFA's relationship with the landlords of the area close to the Kanudi NFA property.

For more information, please contact **Mr Rainol Gibson**, Property Manager on Tel: 321 2643 Fax: 320 2061

## vb-Exports Summary By Year

Exports of Marine Products from PNG for 2000 Updated 31/08/01 <i>Note: Figures are Incomplete</i>				Exports of Marine Products from PNG from 1/1/01 to 30/6/01 Updated 31/08/01 <i>Note: Figures are Incomplete</i>			
Product	Quantity (kg)	Value (USD)	Value (Kina)	Product	Quantity (kg)	Value (USD)	Value (Kina)
Beche-de-mer (dried)	568,928.72	5,737,683.00	15,458,118.96	Beche-de-mer (dried)	297,853.40	3,214,414.28	10,237,791.48
Crab (frozen)	1,830.00	9,668.66	27,598.83	Crab (frozen)	760.00	3,806.93	12,165.71
Crab (live)	560.17	2,425.68	6,315.34	Fish (canned)	89,712.20	152,620.44	488,264.06
Fish (canned)	53,875.20	101,762.61	293,777.29	Fish (maw dried)	8.00	64.00	207.66
Fish (frozen)	68,825.00	184,502.88	506,846.07	Fish (fresh chilled)	63.50	192.25	634.89
Fish (oil)	37,620.00	18,654.58	49,828.54	Fish (frozen)	67,285.00	60,341.81	195,024.92
Lobster (frozen)	81,340.99	1,863,721.27	5,197,865.89	Lobster (frozen)	32,451.14	792,504.43	2,531,385.45
Shark (cartilage)	5.00	250.00	756.43	Shark (frozen)	361,247.00	154,259.26	505,372.03
Shark (frozen)	1,392,636.50	702,570.33	1,994,213.25	Sharkfin (dried)	3,065.00	188,580.95	608,312.47
Sharkfin (dried)	8,972.58	519,798.60	1,464,415.07	Sharkfin (frozen)	28,440.00	217,427.95	707,148.10
Sharkfin (frozen)	88,604.15	794,875.06	2,226,192.92	Shell (button)	100.00	1,000.00	3,137.75
Shell (button)	56,795.00	1,153,482.56	3,029,371.23	Shell (meat frozen)	50.00	10.00	31.38
Shell (pearl)	3,033.00	13,176.69	39,744.00	Shell (pearl)	3.50	28,696.96	94,772.00
Shell (meat frozen)	455.00	21,580.51	60,624.28	Shell (unprocessed)	193,200.00	554,825.00	1,779,294.78
Shell (unprocessed)	188,353.00	658,708.04	1,834,975.29	Shrimp (frozen)	295,326.00	2,448,190.07	7,731,797.51
Shrimp (frozen)	794,227.20	7,057,999.14	19,168,139.90	Tuna (canned)	3,479,668.38	5,909,041.13	18,998,193.45
Tuna (canned)	8,616,605.90	15,340,568.60	41,595,874.59	Tuna (meal dried)	460,000.00	239,394.64	772,738.93
Tuna (meal dried)	1,542,000.00	399,250.13	1,100,152.79	Tuna (fresh chilled)	652,107.60	2,688,868.98	8,578,579.18
Tuna (fresh chilled)	1,188,529.60	5,137,409.04	14,130,596.59	Tuna (frozen)	12,016,010.20	7,048,190.53	22,513,247.06
Tuna (frozen)	26,986,134.73	13,618,888.12	37,337,245.89	<b>Total</b>	<b>17,977,350.92</b>	<b>23,702,429.62</b>	<b>75,758,098.79</b>
<b>Total</b>	<b>41,679,331.74</b>	<b>53,336,975.49</b>	<b>145,522,653.14</b>				