



MINISTRY OF FISHERIES



ANNUAL REPORT

FINANCIAL YEAR

2021/22



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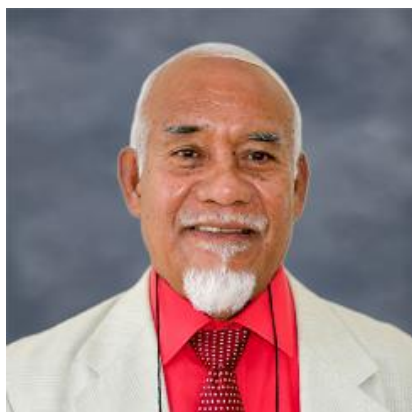
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Chapter 2 : List of Abbreviations and Acronyms

ACIAR	Australian Centre for International Agricultural Research
ACP	African, Caribbean and Pacific Group
ADB	Asian Development Bank
AMP	Annual Management Plan
ANCORS	Australian National Centre for Ocean Resources and Security
AR	Annual Report
CP	Corporate Plan
CEO	Chief Executive Officer
CFEC	Certificate in Fisheries Enforcement and Compliance
CITES	Convention on International Trade in Endangered Species
CSU	Central Service Unit
DPD	Detailed Project Description
EEZ	Exclusive Economic Zone
EFY	End of Financial Year
ESMF	Environment Social Management Framework
FAD	Fishing Aggregate Device
FAO	Food Agriculture Organization of the United Nations
FCD	Fisheries Compliance Division
FFA	Forum Fisheries Agencies
FFC	Forum Fisheries Committee
FFC MIN	Forum Fisheries Committee Ministerial
FLOW	Fisheries Licensing Officer Workshop
FY	Financial Year
GDP	Gross Domestic Product
GPA	Government's Priority Agenda
HMAF	His Majesty Army Force
HTHH	Hunga Tonga Hunga Ha'apai
ICT	Information Communication Technology
IIP	Internal Implementation Plan
IP	Internal Policy
IMO	International Maritime Organization
IUU	Illegal, Unregulated and Unreported (fishing)
KPI	Key Performance Indicator
LAN	Local Area Network
MC	Ministerial Conference
MCS	Monitoring Control Surveillance
MSC	Master Stewardship Certificate
MDA	Ministries, Departments and Agencies
MOF	Ministry of Finance
MOU	Memorandum of understanding
MoF	Ministry of Fisheries
NFOSC	National Fisheries Officer Surveillance Course
NPOA	National Plan of Action
NTSA	Niue Treaty Subsidiary Agreement
NIWA	National Institute of Water and Atmospheric
NICT	National Information and Communication Technology

NZ	New Zealand
OPM	Observer Program Management
PC	Pacific Community (formerly Secretariat of the Pacific Community (SPC))
PSC	Public Service Commission
PMS	Performance Management System
PNA	Parties to Niue Agreement
POI	Person of Interest
POM	Project Operations Manual
PMU	Project Management Unit
PROP	Pacific Regional Oceanscape Programme
PSMA	Port State Measures Agreement
PMSP	Pacific Maritime Security Program
QGIS	Quantum Geographic Information System
RIMSW	Regional Management System Workshop
ROCW	Regional Observer Coordinator Workshop
SAW	Stock Assessment Workshop
SDG	Sustainable Development Goal (United Nations)
SIDS	Small Island development State
SMA	Special Management Area
SOP	Standard OF Procedures
SPC	Secretariat of the Pacific Community
TC	Tropical Cyclone
TCC	Tonga Communication Corporation
TDW	Tuna Data Workshop
TFSP	Tonga Fisheries Sector Plan
TSDF II	Tonga Strategic Development Framework
TPFES	Tonga Passenger Food Export System
TOR	Term of Reference
UN	United Nations
UNCLOS	United Nations Convention on the Law of the Sea
UNDESA	United Nations Department of Economic and Social Affairs
WCPFC	Western and Central Pacific Fisheries Commission
WB	World Bank
WTO	world Trade Organisation
VMS	Vessel Monitoring System

Chapter 3 : Foreword from the Honourable Minister for Fisheries



It is my pleasure to present the Ministry of Fisheries Annual Report for the Financial Year 2021/2022 which provides an overview of the Ministry's achievements, outputs, and challenges encountered during the year.

The Financial Year 2021/22 was a challenging period for the fisheries sector due to the impacts of the HungaTonga HungaHaapai (HTHH) volcanic eruption and the tsunami on the 15th January, 2022 followed by the outbreak of the COVID-19 pandemic after few weeks from the tsunami.

Despite that, the Ministry has had to revamp its priorities and activities accordingly in order to adapt to a new and more realistic plan - one that was complex, challenging, and unlike any other, it has ever faced. Despite the situation, with the spirit of togetherness and resilience, we ensured that our priorities were met.

The ongoing management of special management areas for coastal communities, development of aquaculture and commercial fisheries, diversification of fishing practices for the development of new fisheries such as artisanal fisheries and squid fisheries were the main priorities during this FY. The continuation of the implementation of the world bank project "Pathway to Sustainable Oceans" (Halafononga ki he Ngatai Tu'ulua) made great contribution to the overall development and management of fisheries.

In addition to Covid 19 pandemic, as the most global challenge in FY 2021/2022, climate change was also another issue faced by the fisheries sector, especially in the small islands developing countries, such as Tonga. This affected the distribution of tuna resources in our ocean, affecting the catches of tuna fishing vessels.

The impacts of human activities such as unsustainable harvesting of marine resources and illegal fishing were also major challenges faced by the Ministry of Fisheries every day. Attempts were always made to ensure cooperation between the Ministry of Fisheries, Government Ministries and all stakeholders, enforcing fisheries Laws and Regulations to promote and ensure sustainable fisheries.

The ongoing support of development partners, regional and international fisheries organizations, and other agencies, in terms of funding and technical assistance to the Ministry of Fisheries are acknowledged with great appreciation. These made big difference in the overall development and management of fisheries.

I would like to acknowledge the effective leadership of the Chief Executive Officer of the Ministry of Fisheries, Dr. Tu'ikolongahau Halafihi, and the technical support provided by the Fisheries staff. Dr. Halafihi has the responsibility of implementing government policies and decisions, and managing the administrative, operational, and broader functions and activities of the Ministry. Through cooperation and collaboration, the fisheries sector will be developed to ensure its contribution to food security and economic growth of Tonga.

Malo 'aupito,



Hon. Semisi Taelangi Fakahau
Minister for Fisheries



Chapter 4 : Preface



The Financial Year 2021/22 was the most challenging time in the last 5 years while I served the Ministry in this position. This was due to various challenges including the HTHH volcanic eruption, tsunami, COVID 19 pandemic, climate change and technical and financial resource limitation.

Despite that, the Ministry still managed to deliver on its mandate with the available time and resources and achieved the goals of the 2021/22 Corporate Plan. Therefore, this Annual Report for Financial Year 2021/22 presents the actual outputs achieved by the Ministry of Fisheries based on the Ministry's Corporate Plan 2021/22– 2023/24 with indicators that can be used to measure and report on our progress.

The key focuses of this financial year included the ongoing implementation of the Tonga Fisheries Sector Plan (TFSP) and the “Halafononga ki ha Ngatai Tu’uloa” project and the recovery from the HTHH volcanic eruption. Under the TFSP, the Ministry focused on implementing the Special Management Areas (SMA) with 5 newly established SMAs in this financial year, total up to 59 established SMAs in Tonga. This included the expansion of the *mabe pearl* farming, from 28 in the FY 2020/2021 to 38 pearl farms in the FY 2021/2022 and sea cucumber farms from 1 in the FY 2020/2021 to 7 trial farms in the FY 2021/2022.

Straight after the HTHH volcanic eruption, the Ministry of Fisheries implemented its recovery activities based on the Implementation Guide approved by the Government. The recovery activities were funded from the Ministry's recurrent budget. A total of 66 small scale fishing boats with minor and severe damages were fixed. Financial supports were given to 30 fish fence owners, 158 fishermen for fishing gears and 26 Special Management Area communities. The fisheries sector also received other aids from various donors, including fishing boats and a grant of 1.3 million USD from the Government of Japan for goods, equipment and tools to support the recovery activities.

This FY is the sixth year of implementing the Performance Management System (PMS). At the End of the Financial Year 2021/22 assessment, there was 70 staff out of 84 overall of the Ministry's staff who were eligible to complete the PMS assessment. The last five years PMS awards tell great improvement in the staff PMS assessment form and this was obviously shown in their PSC moderated results and percentage of rewards at the end of FY. The quarterly performance of the Ministry shows the overall performance of the Ministry against its PMS Internal Implementation Plan for the FY, in quarter 1 (July – September 2021) 99%, quarter 2 (October – December 2021) 100%, quarter 3 (January – March 2022) 98%, quarter 4 (April – June 2022) 100%, with a Green in PMS traffic light for all quarters.

The Ministry's budget increased from \$4.7 million in 2020/21 to 4.89 million in FY2021/22 and the actual spending was \$4.38 million. The revenue target for 2021/2022 was \$3.17 million but the Ministry managed to collect \$2.8 million due to the impacts of the HTHH volcanic eruption and the outbreak of the COVID-19 pandemic.

Tonga still relies on wild fisheries stocks for food and income. The three-main export marine products from Tonga are tuna, deep-water snapper, and aquarium species.

The total marine product exported (not including aquarium products), during the period was 1,026 metric tons. This is a 35% decrease from the total marine products exported in the last financial year which was predominantly due to a substantial decrease in the export of snapper. All fish exports in this financial year were valued at TOP\$4.9 million which is a 42% decrease from the value of fish exported in the last financial year.

A total of 855 metric tons of tuna were exported in this financial year which is a 43% decrease from the last financial year. Tuna was the main contributor to the total amount of marine products exported, making up 83%. The total tuna exported within this period was valued at approximately TOP\$4.7 million, which is a 43% decrease from the previous period.

The total aquarium products exported in this FY2021/22 was 132,116 pieces and were valued at approximately TOP\$0.73 million. This was an 1.8% decrease in quantities and associated with 2.6% decrease in FOB value from aquarium exports in the previous financial year. The aquarium export was dominated by live fish in terms of quantity as can be seen in **Figure 3**. The main market for exported aquarium products is the United States.

The snapper fishery experienced a significant impact due to COVID-19 restrictions. Access to international markets was cut off due to international border restrictions and other export restrictions. As a result, there was no export during this FY. However, Snapper fishers were still able to supply our local markets with the assistance of the Government by subsidizing the price of fish and baits. A total of 78 metric tons of snapper species were sold in the local markets during this period which was valued at 0.78 million pa'anga.

The prohibition of harvesting, processing, and exporting of sea cucumber was lifted based on the Cabinet Decision no. 355, 7th May 2021, and harvesting of sea cucumber to be effective from the 31st of May to the 30th of September 2021. This decision was made to assist the people by financially empowering them due to the negative economic and social impacts caused by COVID-19. The Ministry of Fisheries issued a total of 14 licenses to those that met the requirements according to the policy and Fisheries Management Act 2002. The licenses were issued according to the location of each sea cucumber processing facility was located which included Tongatapu, Ha'apai, Vava'u and Niuatoputapu. A total of 4.2 million pieces which weighed up to 91 tons were exported during this financial period.

Due to the decline in wild fisheries stocks for various reasons, including climate change and overfishing, the Ministry has made new initiatives to ensure productions from the fisheries sector meet the demand of the country for food and income. The Ministry continued deploying fishing aggregating devices (FAD) around Tongan waters to increase production for artisanal fisheries. Aquaculture has been developed with the farming of mabe pearl, sea cucumber, giant clams, finfish, and others. Development of the squid fishery was ongoing and squid meat is very popular now at the local market.

The Ministry still emphasized the NCD project started in 2016, and aimed at combating non-communicable diseases in Tonga with affordable tuna at price range \$7 - \$9 per kilogram. The project operates under a memorandum of agreement (MOU) between the Ministry of Fisheries and the authorized agent for foreign vessels fishing in Tonga's EEZ "Ngatai Marine

Enterprises", whereby foreign fishing vessels are required to offload 3.5 tons of Tuna for the project in high peak seasons and 2.5 tons in low peak seasons. For this financial year, a total of 152 tons of tuna was sold locally in Tongatapu and Éua.

Another priority initiative was the implementation of the COVID-19 Emergency Response Plan for the Ministry since March 2020 aimed at ensuring food security during the pandemic, by providing subsidized snapper fish for the local people at the affordable price of \$7 per kilogram. The total volume of fish during this financial year was 78 metric tonnes. The total cost of fish bought from fishing vessels for this activity was TOP\$0.78 million.

It is my sincere hope that the implementation of the Tonga Fisheries Sector Plan and Corporate Plan for this financial year effectively contributed to the overall development of Tonga.

Last but not the least, I would like to acknowledge the effective support and cooperation provided by the Ministry's staff which greatly contributed to the achievements of the Ministry of Fisheries in FY 2021/22.

Mālo 'aupito,



Dr. Tu'ikolongahau Halafihi
Chief Executive Officer for Ministry of Fisheries



Executive Summary of the Ministry of Fisheries overall performance

Output	Major Reform Activities	Summary Highlights
Output 1: Better leadership for the Ministry of Fisheries, including at national, regional, and international levels.	<ul style="list-style-type: none"> ➤ Corporate Plan and Budget submission ➤ Annual report 2020-2021 submission ➤ NIWA Project for the Management of Deepwater Snapper (PMG meetings 23 November, 2021, 8 April & 17 May 2022 (virtual)) ➤ FFCMIN 18 Meeting (virtual) (4th -5th August 2021) ➤ Regional Fisheries Ministers' Meeting 2 (5 August, 2021). Virtual Meeting ➤ Pacific Technical Workshop on SDG 14 by the FAO (virtual) (21 July and 30 August – 1st Sept and 30th November, 2021) ➤ FFA members Workshop on 	<ul style="list-style-type: none"> ➤ Corporate Plan and Budget for FY2022/23 were submitted on 28 February 2022 ➤ Annual report for FY2020/21 was submitted to the Cabinet and Parliament before the due dates, and approved by the Parliament on the 10th August, 2021 ➤ Updates of deep-water snapper landings, capacity building (R Training), monitoring and marketing of squid fishery. Due to the HTHH volcanic eruption, the tsunami and COVID 19, the NIWA Project was further extended to June 2023, facilitating the promotion of squid fishery ➤ Recommended for the FFA to address impacts of Covid 19 on Tuna Fisheries sector and impacts of climate change on fisheries ➤ Ministers stressed the importance of robust fisheries management to ensure the sustainability of the coastal fisheries ecosystems ➤ To generally introduce the fisheries-specific SDG 14 targets and tracking indicators. To be incorporated in the Ministry's Corporate Plan ➤ Preparation of the FFA positions regarding WCPFC

	<p>Tropical Tuna Measures (virtual) (27 August, 2021)</p> <ul style="list-style-type: none"> ➤ WCPFC Workshop 2 on Tropical Tuna Measures (virtual) (6 – 10, September 2021) ➤ South Pacific Group (SPG) meeting (virtual) (12 and 21 October, 2021) ➤ FFA Workshop to finalise Tropical Tuna Measures (virtual) (29 September, 2021) ➤ US Treaty – Internal meetings of the Pacific Island Parties (PIPs) (virtual) (13 October, 2021) ➤ US Treaty 3rd renegotiation between PIPs and the US (virtual) (20 and 22 October, 2022) ➤ FFA 3rd South Pacific Albacore Workshop (virtual) (26th October, 2021) ➤ FFA Management Option Consultation & Special FFC 120 Meeting (virtual) (27th – 	<p>Tropical Tuna Measures for Bigeye, yellowfin Tuna and Skipjack</p> <ul style="list-style-type: none"> ➤ Stand together with the FFA member countries in fighting for the incorporation of measures that will ensure sustainable harvesting of tuna resources ➤ Review MOU for the Gorup and TOR for consultant Continue discussing the strategies to attract the US to consider the Exploratory Pool for the 5 members of the SDG – Tonga is one of 5 countries in the SPG ➤ Confirmation of FFA positions on measures for tropical tunas such as bigeye, yellowfin and skipjack ➤ Preparation of the PIPs positions for the next US Treaty renegotiation meeting ➤ PIPs pushed to increase US Government contribution to the Treaty ➤ Progress the work on the management of the South Pacific Albacore fishery ➤ To discuss the working Programme, Budget and Implementation of FFA's Strategic Plan. Preparation of the FFA members' priorities for the Tuna Commission's
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	<p>29th October, 2021)</p> <ul style="list-style-type: none"> ➤ FFA Bilateral meetings with distant water fishing nations (virtual) (5, 12 and 19 November, 2021) ➤ Meeting with the FAO (virtual) (10 November, 2021) ➤ FFC 121 & WCPFC 18 Meetings (virtual) (23rd November – 7th December, 2021) <ul style="list-style-type: none"> ➤ Meeting with directors of the Vast Ocean Aquaculture Company Ltd (virtual) (7th January, 2022) ➤ Meeting with the British High Commissioner, H. E Lucy Joyce (10 February, 2022) ➤ Meeting with the Japanese Ambassador to Tonga, H. E. 	<p>Annual Meeting, including the draft Tropical Tuna Measure</p> <ul style="list-style-type: none"> ➤ Bilateral meetings with Japan, US, Taiwan and Korea regarding FFA priorities to the Tuna Commission ➤ To evaluate the FAO's 2018 – 2022 Tonga's Country Programme Framework ➤ Adoption of the CMM 2021-01 on the Conservation and Management Measure for Bigeye, Yellowfin and Skipjack Tuna in the WCPO ➤ Approval for a Science Management-Dialogue to expedite the progress of the implementation of the Harvest Strategies for the management on tunas ➤ Consideration of the impacts of COVID-19 in the management and development of tuna fisheries ➤ Discuss the progress of the sea cucumber farm in Tonga ➤ Discuss cooperation between Tonga and UK on fisheries management and development, and security issues ➤ Discuss technical AID to Fisheries after the HTHH
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	<p>Munenaga Kensaku (17 February, 2022)</p> <ul style="list-style-type: none"> ➤ Meeting with the FFA on the 4th South Pacific Albacore workshop (virtual) (1st March, 2022) ➤ Meeting with the WAITT Foundation (virtual) (17th March, 2022) ➤ Meeting of the South Pacific Group (virtual) (22nd March, 2022) ➤ 3rd Steering Committee meeting for the PEUMP Programme (virtual) (31st March, 2022) ➤ Meeting with the Japanese Ambassador to Tonga, H. E. Munenaga Kensaku (21 April, 2022) ➤ FFA Officials and Ministerial Meetings on US Treaty (virtual) (4th and 6th May, 2022) ➤ FFA 5th South Pacific Albacore workshop (virtual) (12 – 13 May, 2022) 	<p>volcanic eruption and tsunami</p> <ul style="list-style-type: none"> ➤ Progress management of South Pacific Albacore, including Zone Based Management ➤ Planning of n ecological survey in Tonga to assessment the impacts of the HTHH volcanic eruption and the tsunami ➤ To revise the draft MOU and the TOR for the Technical Advisor for the SPG ➤ Assess the performance of the PEUMP project for the Pacific, including Tonga ➤ Acceptance by the Japanese Cabinet 1.3 million USD to purchase equipment and tools for the recovery of the fisheries sector from the HTHH volcanic eruption and the tsunami ➤ Continued renegotiation on US Treaty – pushed to increase US contribution ➤ Progress agreement on the provisional catch shares that will apply to catch of South Pacific Albacore in
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	<ul style="list-style-type: none"> ➤ FFA FFC122 Meeting (virtual) (17 – 27 May, 2022) ➤ SPG Meeting (virtual) (24 May, 2022) ➤ EU Meeting on PEUMP Project (virtual) (25 May, 2022) ➤ FFA Ministerial Meeting on US Treaty (1 – 3 June, 2022, Nadi Fiji) ➤ 14 SPC Head of Fisheries (14 – 17 June, 2022, Noumea, New Caledonia) ➤ 2022 UN Ocean Conference (27th June – 1st July, 2022, Lisbon, Portugal) 	<p>each Member's EEZ</p> <ul style="list-style-type: none"> ➤ Discussing FFA priorities, including budget, Strategic Plan, Annual report, priorities for WCPFC and the impacts of COVID 19 ➤ Progressing the development of the MOU and TOR for the SPG ➤ Progress on the PEUMP Projects ➤ Confirm PIPs position for US to increase its contribution to the Treaty from 21 million USD to 60 million USD for the next 10 years ➤ Approval of the SPC Division of Fisheries, Aquaculture and Marine Ecosystem (FAME) Business Plan 2022-2027 and FAME priorities for 2022 <p>Share Tonga's successful stories on the management of our ocean, including the development of our National Marine Spatial Plan, Marine Protected Areas, Special Management Area Programme and other initiatives</p>
Output 2: Better leadership and management of Ministry's divisions, with good working relations and communications, and a focus on output deadlines.	<ul style="list-style-type: none"> ➤ Head of Division meetings held quarterly with Minister. ➤ CEO approved the Ministry's final Corporate Plan, Budget and Annual Procurement Plan for FY2021/22 ➤ CEO endorse the Ministry's 	<ul style="list-style-type: none"> ➤ 4 X Head of Division meetings were conducted quarterly during the financial year ➤ Submission of the Ministry's final CP, Budget and APP to PMO/LA on the 6th April 2022. ➤ Submission of revised CP and APP against the

	<p>revised Corporate Plan, Annual Procurement Plan</p> <ul style="list-style-type: none"> ➤ CEO approved the submission of final Annual Management Plan (AMP), Annual Cash Flow forecast, Training Plan, Performance Management System (PMS), Job Description Review, Annual Report (AR) ➤ Six-monthly activity reports to PSC. 	<p>approved Budget on 31st July 2022</p> <ul style="list-style-type: none"> ➤ Submission of AMP, Annual Cash Flow to PMO/MOF on the 31st July 2022, PMS FY2021/2022 to PSC 18th July 2022 and MYR FY2021/22 on the 11th August 2022 Annual Report for FY2021/2022 to Cabinet 30th September 2022 ➤ Two Six-monthly reports (July 2021 and January 2022) submitted according to deadline 29th July 2022
Output 3: Improved legal services	<ul style="list-style-type: none"> ➤ Attendance to emerging legal issues on provisions of legal advice & briefings ➤ Legal training for Ministry staff and Coastal Communities 	<ul style="list-style-type: none"> ➤ Advice on licensing issues ➤ Advice on proposed resource rent for coastal fisheries resources ➤ Advice on NFC issues <p>In-house training with staff regarding new Aquaculture Management Regulations 2020 and Fisheries (Fishing Vessels) Licensing Regulations 2020</p>
Output 4: Improved liaison with national, regional & international agencies and donors.	<ul style="list-style-type: none"> ➤ Liaise with donors and agencies National, Regional and International 	<ul style="list-style-type: none"> ➤ Liaison with PMO for a signing ceremony between the Ministry of Fisheries and the Government of Japan. ➤ Liaise with Legal Officer in briefing Acting Minister regarding ACIAR MOU ➤ Liaise with the current New Zealand High Commissioner's visit to Fisheries Office

	<ul style="list-style-type: none"> ➤ Annual Report on implementation of TFSP 	<ul style="list-style-type: none"> ➤ Liaise with Vast Ocean in assisting renewing business visa. ➤ Liaise with 'Eleni Mone regarding SPC projects in relation to Human Rights. ➤ Liaise in regional & international correspondence with Jeff – Article SPC traditional Marine Resource Management and Knowledge Bulletin (1st March 2022) ➤ Liaise with the workshop for the South Pacific Albacore (12th – 13th May 2022) ➤ FFC122 and related meetings ((17th – 27th May 2022) ➤ Attend and assist in Harvest Strategy Workshop (30th June 2022) ➤ Annual Report for the Implementation of the TFSP completed
Output 5: Improved media and communications	<ul style="list-style-type: none"> ➤ Media Releases ➤ Quarterly consultation meetings with stakeholder groups 	<ul style="list-style-type: none"> ➤ Media releases are now updated on Facebook ➤ Engage more in Community outreach and Educational Program ➤ Number of consultations been reduced due to tsunami and covid-19 restriction
Output 6: Improved administrative and human resources support for all ministry staff.	<ul style="list-style-type: none"> ➤ Annual JD review ➤ Recruitment/promotions 	<ul style="list-style-type: none"> ➤ Staff JDs reviewed and completed for PMS assessment FY 2020/21 in October 2021. ➤ During the FY 2021/22 we had a total of 70 staff (23 females, 39 males). This includes 16 newly recruited staff by the ministry, sixteen (16) staff got promoted, one (1) staff transferred and promoted to another ministry while 1 staff was laterally transferred from MET. Two (2) staff resigned,

	<ul style="list-style-type: none"> ➤ Project Management Unit (PMU) 	<p>and one (1) staff who retired from the public service.</p> <ul style="list-style-type: none"> ➤ All vacant posts were filled. ➤ The project management unit recruited three (3) new staff for the core team.
Output 7: Increasingly effective training and capacity development for ministry staff.	<ul style="list-style-type: none"> ➤ Staff Trainings 	<ul style="list-style-type: none"> ➤ One (1) Internal induction trainings conducted for newly appointed staff. ➤ Completed conducted of internal trainings for fisheries staff in various areas. (HR matters, Internal Policy and PMS Training) ➤ Approximately 49 virtual meetings and trainings for all fisheries staff. ➤ Two (2) overseas travel meetings and one (1) training were conducted
Output 8: Constantly improving budget, planning and reporting activities for the ministry's activities.	<ul style="list-style-type: none"> ➤ Internal Policy (IP) ➤ CP, AMP, Budget ➤ Annual Report ➤ Performance Management 	<ul style="list-style-type: none"> ➤ 5 x Internal policies approved during this FY ➤ Submission of final CP and Budget in both language (English/Tongan) to Ministry of Finance, Prime Minister's Office (Planning Section) and Legislative Assembly in accordance with the deadline (revised FY2020/2021: 31st July 2020; Final FY2021/22: 06th April 2021) ➤ Completed the compiling of MoF Annual Report FY2019/2020 and submitted to CEO, Minister, Cabinet and Legislative Assembly after approved from Cabinet (Cabinet: 30th September 2020; LA: 20th October 2020) ➤ The Ministry submitted its Performance Management

	System (PMS)	System (PMS) assessment for the End of Financial Year 2019/2020 in 20 th August 2020 and Mid-Year Review for FY2020/2021 on 26 th January 2021.
Output 9: Better financial, procurement and asset management services compliant with government standards.	<ul style="list-style-type: none"> ➤ Budget – expenditure ➤ Revenue ➤ Asset ➤ Procurement 	<ul style="list-style-type: none"> ➤ Budget approved \$4.89 million, actual spending \$4.38 million. ➤ Targeted revenue \$3.17 million, actual revenue collected \$2.8 million ➤ Annual asset report submitted to Ministry of Finance in 31st July 2022. ➤ 100% ➤ compliance with procurement policy as reported from the Procurement Division of the MOF. ➤ 10 Procurement proposals were submitted to MFNP for 21-22. Only 7 of those 10 procurements were approved.
Output 10: Provide effective and quality ICT services, improve data system integrity, the accuracy of the system information, and professional digital information dissemination to support efficient management and development of fisheries services	<ul style="list-style-type: none"> ➤ Network ➤ E-government 	<ul style="list-style-type: none"> ➤ Extension of the Ministry's Network System to gather for the connection to 'Eua new Fisheries Office ➤ Installed of Gateway Redundancy at the main office in Sopo ➤ Roll out of Fibre connection in Vava'u ➤ Installed a Disaster recover site at the Ministry's new office in 'Eua ➤ Liaise with e-government on the supporting of the outer island internet connection through Starling Satellite.

		➤ Ongoing monitoring Ministry's linkage to outer island
Output 11: By June 2022, Five Higher standard fisheries management and development planning and policies developed, approved, implemented and monitored to support sustainable fishery resources, and profitable industries.	➤ Management Plan ➤ Fisheries Policies	➤ New Plan – Developing of Tonga Coastal Fisheries Management Plan 2022 – 2025 (currently finalized) ➤ New Plan – Developing of Tonga FAD Fisheries Management and Development Plan 2022 – 2025 (Currently developed) ➤ Mid-review of Aquaculture Management and Development Plan 2018- 2020 (Currently Implemented) ➤ Revised Tuna Management and Development Plan 2018 – 2022 (Currently implemented and it is on the review phase) ➤ Review of Marine Aquarium Management and Development Plan ➤ New Policy – Developing of new FAD Policy
Output 12: Improving market quality and accuracy of economics reports and market knowledge to support marketing, and export of fisheries products.	➤ National Market Survey	➤ This activity was delayed due to national lockdowns from covid-19 following the HTHH volcanic eruption and other minor issues on overtime. ➤ Domestic market price of fish report included in the quarterly report every quarter ➤ 100% MoF continue on implementing the project to address NCD in Tonga and response to covid-19 plan.
Output 13: Improving quality and accuracy of economics reports and fisheries statistics to support decision making.	➤ Export	➤ The total value of marine product exported including aquarium products during this financial year was estimated at TOP\$5.6 million. The total quantity of marine exported (not included aquarium products) was 1,026 metric tons while a total of 132,116 pieces of

	<ul style="list-style-type: none"> ➤ Economic analysis ➤ Statistical data 	<p>aquarium product was exported during this financial year.</p> <ul style="list-style-type: none"> ➤ The total of 855 metric tons of tuna was exported in this FY with FOB value of TOP\$4.7 million. ➤ There was no export on Snapper Industry since the beginning of Covid-19 pandemic in 2020. However, a total of 78 metric tons were sold locally. The Government purchased snapper catches at \$10/Kg and sold out to the public at \$7/Kg which add up to \$0.7 million pa'anga that spent by the Government in this project during this financial year. ➤ Analysis on the tuna fishery completed and reported submitted to HOD. ➤ Data analysis is provided to line ministries as well as other stakeholders with the approval of CEO ➤ Statistical data are updated and reports are provided upon requests and in a timely manner ➤ All Quarterly bulletin report in this financial year are completed and have been Published into the Ministry's website
Output 14: Improved and Implemented and monitored of COVID-19 Fisheries Response Plan and non-communicable disease (NCD) and disaster management.	<ul style="list-style-type: none"> ➤ Covid- 19 ➤ Natural disaster (TC Harold and HTHH) ➤ Non-Communicable Disease 	<ul style="list-style-type: none"> ➤ Ministry was able to sell 78 metric tons of snapper to the public at cheaper price. This a part of the Ministry's response activities to the impact of covid-19 on commercial fishers during this financial year. ➤ Reports on Natural disaster (TC Harold) ➤ The Ministry also sold 86 metric tons of Tuna fish in very low price as part of our official agreement with

	(NCD project)	foreign vessels in regards to our contribution to combat NCDs.
Output 15: Increasingly targeted and focused aquaculture research and development that meets the needs of emerging industries.	➤ Aquaculture research and development	<p>Pearl Oyster:</p> <ul style="list-style-type: none"> ➤ Total of 38 active pearl farm during 2021/22 FY, which consists of 23 in Vava'u, 8 in Ha'apai, 6 Tongatapu and 1 Niuatoputapu). There were 11 new farms established in 2021-2022. There were 30 pearl farms were operated and owned by private farmers; and 8 farms currently operate by the Ministry of Fisheries for culturing of spats to support private farmers. ➤ There were 1 inactive farm in Tongatapu (Fafa) were recorded during 2021-2022, and this is due to line damage and relocate of farming site. ➤ Continue on supplying of spats to pearl farmers in Vava'u, Ha'apai and Tongatapu <p>Stock Taking:</p> <ul style="list-style-type: none"> ➤ Total of over 10,000 of pearl oyster are currently hanging on pearl longlines of all island group (150 NTT, 1700 Ha'apai, 3500 Vava'u, and 3500 Year 1 plus 1700 Year 2 & 3 total of 4200 oysters in Tongatapu) <p>Spat Distribution</p> <ul style="list-style-type: none"> ➤ Total of 980 oyster were distributed to Vava'u pearl farmer. Ha'apai spat distribution held during 2022 – 23 FY <p>Nuclei seeding & implanting</p>

		<ul style="list-style-type: none"> ➤ Seeding training conducted in Vava'u and able to seeded 345 oysters with at least 3 nuclei per oyster which will provided a total of 1035 Half “Mabe” pearl to be harvest in 1 year period <p>Hatchery production:</p> <ul style="list-style-type: none"> ➤ Only 1 successful spawning induction during this FY ➤ Total of 45 million fertilized eggs has been stock into larval tanks on day one of spawning ➤ Only 3 million larvae survive for settlement on Day 35 when start setting into spat collector. ➤ Total of 22 trays of spat collector has been transfer to the pearl line for ocean nursery grow out <p>Giant Clam:</p> <p>Hatchery production</p> <ul style="list-style-type: none"> ➤ Giant clam induced but not successful due to sea water pump breakdown then postpone until the pearl larvae transfer to ocean nursery. Due to Tsunami and Covid19 lockdown, all spawning activities were cancelled until the next summer season. ➤ Juveniles were cultured on raceways then transferred to ocean nursery <p>Giant clam distribution</p> <ul style="list-style-type: none"> ➤ Distribution program of juvenile’s clams to SMAs has been terminated due to most of the clams died. A new program initiates to collect adult clams and distribute to SMA communities. 115 broodstock has been collect and ready to distribute to 6 SMA communities in
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		<p>Tongatapu. Same program will be held in Vava'u and Ha'apai</p> <p>Sea cucumber</p> <ul style="list-style-type: none"> ➤ 1 successful spawning run for sea cucumber (sandfish spp) in collaboration with Vast Ocean (Tonga) Aquaculture Co. Ltd ➤ Total of 393, 965 has been release to the ocean nursery from this year's spawning season ➤ Pen cages culture system were extended to the SMA communities ➤ 9500 juveniles have been distributed to 6 SMAs (4 in Tongatapu, 2 in Vava'u) ➤ White teatfish juveniles that were cultured at Fangatapu SMA were destroyed by strong wave during hurricane season <p>Trials of new aquaculture species:</p> <ul style="list-style-type: none"> ➤ 4 x new aquaculture species have been trial during this FY, which is mud crab, sea cucumber, shrimp and mullet fish ➤ Mud crab farms established in Vava'u, sea cucumber, Shrimp and Mullet fish in Tongatapu.
Output 16: Expanding Special Management Area (SMA) program implementation for coastal communities.	<ul style="list-style-type: none"> ➤ Special Management Area (SMA) 	<ul style="list-style-type: none"> ➤ 5 x new SMA gazetted ➤ 5 x SMA Plan development completed ➤ Cabinet and Ground Law submission of 5 new SMAs ➤ 4 x deployed boundary markers of the newly gazetted SMAs

		<ul style="list-style-type: none"> ➤ 10 x re-deployment for existing SMAs ➤ 121 x quarterly monitoring meetings with 54 existing SMAs ➤ 20 x signboards installed for new SMAs ➤ 21 x signboards installed for existing SMAs
<p>Output 17: Higher standards of training, capacity development, outer island extension and support services, for SMA communities, aquaculture operators, and commercial fishers.</p>	<ul style="list-style-type: none"> ➤ Stakeholder's capacity building 	<ul style="list-style-type: none"> ➤ 326 x Annual Trainings and capacity development for SMA communities, aquaculture operators and commercial fishers (98 x Tongatapu, 193 x Ha'apai, 8 x 'Eua and 25 x Vava'u, 2 x Niuatoputapu). <ul style="list-style-type: none"> • 253 x Training capacity development and extension service events implemented, including support for cyclone and disaster resilience and adaptive rehabilitation capacity building (Extension Services & Support) (76 x Tongatapu, 100 x Vava'u, 23 x Ha'apai, 52 x 'Eua, 1 x Niuatoputapu, 1 x Niuafo'ou) <p>Offshore</p> <ul style="list-style-type: none"> ➤ Managed to assist SPC in conducting the Creel and Market Survey through Ikasavea applications training during COVID-19 restrictions. ➤ Conducted Electronic Training of all ER applications. ➤ 32 data collection, data analysis and database trainings conducted including an Inter islands TAILS data collection (Niuatoputapu, Eua, Vava'u, Ha'apai, Nomuka and Tongatapu). <ul style="list-style-type: none"> • 262 Offshore services including fishing vessels fuel exemption scheme, logsheets provision, data provision to boat owners, and fish selling

		program.
Output 18: Increasingly focused offshore and inshore fishery resource research, monitoring, and assessment to support decision making.	<ul style="list-style-type: none"> ➤ Offshore and Inshore fishery resource research, monitoring and assessment ➤ Scientific Report 	<ul style="list-style-type: none"> ➤ 4 SMA Biological baseline survey - 3 x Tongatapu (Fangatapu, Nukuleka, Makaunga), 1 x Vava'u ('Otea) ➤ 1 Socio-economic survey (Socio-economic assessment to SMA and Land-locked sites) ➤ 5 x Inshore Scientific reports completed and submitted ➤ 4 Baseline survey report for Fangatapu and 'Otea SMA's and RAPCA report to Kanokupolu and 'Ahau ➤ 1 x Data and graphics for SMA Catch Data <p>Offshore</p> <ul style="list-style-type: none"> ➤ 5 x Offshore assessment for tuna, snapper, tuna artisanal, biological assessment and squid ➤ 100% data collection coverage despite COVID-19 restrictions. ➤ 4 x Quarterly reports of stock status Tuna, Snapper, Tuna Artisanal assessment and squid fishery submitted. ➤ 5 x Annual assessment report for Tuna, Snapper, tuna Artisanal and squid fishery submitted. ➤ 2 x Annual report submitted to regional and international bodies in accordance with deadlines (Part 1 report and Catch estimates to WCPFC and SPC) ➤ Approval of the JTF and SRF project proposal to support Offshore Data collection.
Output 19: Improving the integrity and accuracy of fisheries data	<ul style="list-style-type: none"> ➤ Database Management and 	<ul style="list-style-type: none"> ➤ 10 Local Systems are currently utilized and accessibility to these systems were made available through the

collection and management systems, for sound policy-development, better decision-making and responsible fisheries management.	<p>Data Developments</p> <ul style="list-style-type: none"> ➤ Coordinate, monitor, motivate and support Electronic Reporting (ER) activities 	<p>server 24/7 from outer island centres.</p> <ul style="list-style-type: none"> ➤ Fish fence local system migrated to Online System ➤ 14 Regional databases system monitored, improved and upgraded. ➤ 4 Electronic Reporting (ER) applications implemented, Onboard, Onshore, Tails and Ikasavea ➤ 2 electronic Reporting (ER) applications on trial, Ollo and BOJAK2 ➤ 100% coverage Data quality checks. ➤ 4 Quarterly Data Working Group conducted ➤ 2 Quarterly Feedback consultations with stakeholders. ➤ Ministry of Fisheries Tonga through the offshore team were awarded a certificate of excellence for the first Pacific Island Country to implement the four suites of Electronic Reporting developed by SPC. i.e Onboard, Onshore, Tails and Ollo.
Output 20: Efficient and effective compliance and enforcement services with regulatory programs that deter Illegal, Unreported and Unregulated (IUU) fishing.	<ul style="list-style-type: none"> ➤ Compliance 	<ul style="list-style-type: none"> ➤ 8 x MCS policies and SOPs revised and approved. ➤ 287 x Patrols, boarding, inspections and enforcement conducted in accordance with SOPs. ➤ Ongoing implementation of Port State Measures Agreement and other treaties and conventions (e.g. NTSA, CITES).
Output 21: Provide a cost-effective way for licensing services as a legal mechanism to control Illegal,	<ul style="list-style-type: none"> ➤ Licensing services 	<ul style="list-style-type: none"> ➤ 99 x fishing licences (commercial fishing, aquaculture, game fishing, exports and fish fence) issued.

Unreported and Unregulated (IUU) fishing.		<ul style="list-style-type: none"> ➤ 100% of processing the certificates and permits for exports, exemption duties and Tong Passenger Food Export System at the airport.
Output 22: Increasingly targeted Monitoring, Control & Surveillance (MCS) program for international and domestic fishing activities to deter Illegal, Unreported and Unregulated (IUU) fishing	<ul style="list-style-type: none"> ➤ Surveillance programs to deter illegal fishing. 	<ul style="list-style-type: none"> ➤ More than 100% observer's coverage on Foreign Fishing Vessels achieved ➤ 20% of observer coverage on Local Fishing Vessels. ➤ More certified Observers debriefers trained ➤ No observers deployed onboard to US Treaty and Cook Islands vessels due to covid 19 restriction. ➤ On-going VMS snap shots on each licensed fishing vessels.
Output 23: Implementation of the Tonga Fisheries Sector Plan (TFSP), including effective governance of the World Bank-funded Tongafish Pathway project.	<ul style="list-style-type: none"> ➤ Tonga Fisheries Sector Plan (TFSP) projects oversight and management ➤ Annual report 	<ul style="list-style-type: none"> ➤ Ongoing the implementation of the project “Halafononga ki ha Ngatai Tu’uloa” in Tongan, and known in English, as “Pathway to Sustainable Oceans (TongaFish Pathway)” in 2019 with a total cost of USD \$10 million for 6 years. ➤ Ongoing PROP operation manual, procurement plan and Budget completed. ➤ Revised templates to be used by all IDA 18 Projects and to be due in October 2021.

1. Overview of the Ministry of Fisheries

1.1 Introduction

This financial year 2021/2022 marked another year of the ongoing re-instate of the Ministry of Fisheries as a stand-alone government agency. In this January 2022 the new government allocate Honourable Semisi Taelangi Fakahau as a Minister for Fisheries for the next 4 consecutive years. Hence, is the second year of four years of re-appointed of for Dr. Tu'ikolongahau Halafihi as the Chief Executive Officer for the Ministry.

The planned national impact of the TSDF is a *“progressive Tonga supporting a higher quality of life for all”* which is supported by the whole of government.

The TSDF describes both national and organisational outcomes for the whole public sector. Those that are applicable to the Ministry of Fisheries are:

1.1.1 TSDF National Outcomes

- A: A more inclusive, sustainable and dynamic, knowledge-based economy.
- D: More inclusive, sustainable and responsive good governance with strengthened rule of law.
- F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.

1.1.2 TSDF Organisational Outcomes

Pillar 1. Economic Institutions:

- **Organisational Outcome 1.2:** Closer, more effective public/private partnerships with business, consumers and other community groups across the Kingdom to help better identify and address constraints to more inclusive, sustainable and resilient economic growth

Pillar 3. Political Institutions

- **Organisational Outcome 3.1:** More efficient, effective, affordable, honest and transparent public service with a clear focus on priority needs

Pillar 5. National Resources and Environment Inputs:

- **Organisational Outcome 5.2:** More equitable, inclusive, sustainable and appropriate management of the use of renewable and non-renewable natural resources to maintain a steady long-term flow of benefits rather than booms followed by bust and long-term recovery periods.

1.2 Legislation, Mandate, Stakeholders

The Ministry of Fisheries operated under the following legislative mandates;

1.2.1 Legislation

General	Specific to Ministry of Fisheries
<ul style="list-style-type: none">• The Constitution of Tonga• Government Priority Agenda• Tonga Strategic Development Framework II• Government Act• Public Finance Management Act• Public Audit Act• Public Service Act• Code of Ethics and Conduct• Social Media Guidelines for Tonga's Public Service• Public Services (Grievance and dispute procedures) Regulations• Public Service (Disciplinary procedures) Regulations• Remuneration Act• Procurement Regulations• Public Revenue Regulations• Internal Audit Charter	<ul style="list-style-type: none">• Tonga Fisheries Sector Plan 2016• Aquaculture Management Act 2003• Aquaculture Management (Amendment) Act 2005• Aquaculture Management (Amendment) Act 2009• Fisheries Management Act 2002• Fisheries Management (Amendment) Act 2009• Maritime Zone Act 2009• Tonga Defence Services (Amendment) Act 2013• Fisheries Management (Processing and Export) Regulations 2008• Fisheries Management (Conservation) Regulations 2008• Fisheries Management (Conservation) (Amendment) Regulations 2013• Fisheries Management (Processing and Export) (Amendment) Regulations 2010• Fisheries (Local Fishing) Regulations 2009• Aquaculture Management Regulations 2008• Fisheries Management Act 2002 Special Management Area Order (GS 20 of 2004)• Fisheries Regulations 1992• Fisheries (Vessel Monitoring System) Regulations 2009• Fisheries (Coastal Communities) Regulations 2009• Fisheries (LimuTanga'u) Regulations 2009• Special Management Area Order No.25/2013• Stowage of Gear Regulations

1.2.2 Mandate

The mandate of the Ministry of Fisheries involves conserving, managing, developing, and sustainably utilising the Kingdom's aquatic resources to ensure food security, and to improve the social and economic well-being of the people of Tonga.

The Ministry of Fisheries operations are guided by the following:

1. Our National Constitution, whole-of-government Acts and Regulations, other general government policies and directives, the Tonga Strategic Development Framework 2015-2025, the Tonga Fisheries Sector Plan, the Tonga National Fisheries Policy, and Ministry specific legislation including the Fisheries Management Act 2002, the Aquaculture Management Act 2003, and the Maritime Zone Act 2009, and associated regulations.
2. A range of international treaties and conventions of direct relevance to sustainable fisheries including and derived from the United Nations Convention on the Law of the Sea (UNCLOS) that defines the territorial sea and oceanic boundaries of coastal states, including the areas in which they may exploit marine resources. Of particular relevance

to fisheries resource management, Tonga is a member of the Forum Fisheries Agency (FFA), the Pacific Community (SPC), and is a signatory to the Western and Central Pacific Fisheries Convention (WCPFC).

3. The United Nations Department of Economic and Social Affairs (UNDESA) Sustainable Development Goal (SDG) 14 to “conserve and sustainably use the oceans, seas and marine resources for sustainable development” advocates significantly reducing all kinds of marine pollution and minimizing ocean acidification by 2025, as well as sustainably managing and protecting marine and coastal ecosystems by as early as 2020. It also aims, by 2020, to regulate harvesting in an effective manner and to halt overfishing by ending illegal and unregulated fishing and destructive fishing practices. In addition, SDG 14 aims to prohibit specific types of subsidies to fisheries.
4. The Budget for the FY2021/22 theme is “God is my refugees”. Fisheries sector is one of the economic sectors including Agriculture and Tourism identified from the Government’s Priority Agenda (GPA) 2021/22.
5. In particular, and of direct relevance to the Ministry of Fisheries, the TSDF II provides strong supporting language, stating:

“Appropriate management of our natural resources and our environment can help protect them and ensure that they provide benefits to current and future generations and ensure that we pass on our inheritance well preserved and improved”.

Ministry Vision and Mission

Our vision directs us in how we think about and plan for the future, with imagination and wisdom. Our mission gives us direction towards achieving that vision.

Our Vision: *“To achieve economically, socially and environmentally sustainable fisheries that contributes to better living standards for all Tongans.”*

Our Mission: *“Providing quality and timely services characterised by integrity, teamwork and professionalism.”*

1.2.3 Stakeholders

Stakeholder	Customer of MoF	Supplier to MoF	Partner with MoF	Oversight of MoF
Cabinet	Advice, Recommendations, Information	Decisions	Operating Effectiveness of Government	Direction
Parliament (Legislative Assembly)	Advice, Recommendations, Information	Decisions, Legislation		Direction

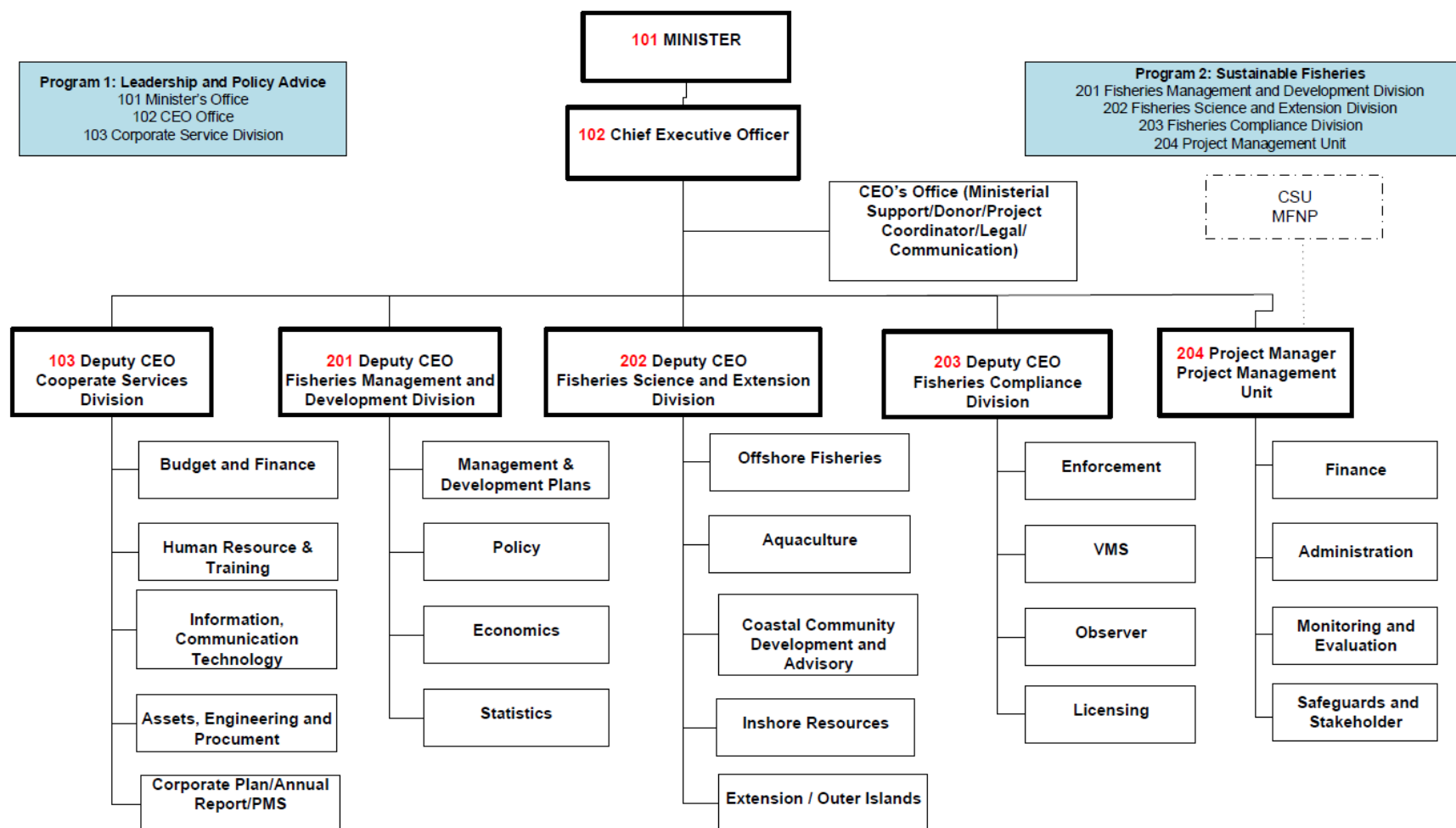
Central Ministries, Departments and Agencies (MDAs especially MOF, PSC, AGO, MAFF, MEIDECC, MOFA, MET, MORC, MOI, Tonga Police, MOH – Marine/Ports and HMAF)	Advice, Guidance, Instructions, Information	Information	Operating Effectiveness of Government,	Oversight by PMO, PSC - Policy, Operations
Public Enterprises	Advice, Guidance, Instructions, Information	Information	Operating Effectiveness of Government,	
NGO	Advice, Guidance, Instructions, Services, Information	Goods, Services, Fees, Charges	Community Work, Education, Health	Monitor, Petition
General Public	Advice, Guidance, Instructions, Services, Information	Goods, Services, Fees, Charges		Vote, Petition
Investors, fish farmers, processors and export	Provide service information		Provide Services	
Regional and international agencies	Provide information and services	Information	Provide funding Providing information and services	
Development Partners	Advice, Guidance, Instructions, Services, Information	Development Assistance and Advice	Delivery of Aid Funded Programs	Oversight of the Use of Development Funds, General Performance Management

The Ministry of Fisheries (MoF) relies on the Cabinet and Parliament for high level strategic direction, and for support for the policy and legislation, and budget resources. MoF has close ties with a range of Ministries, Departments and Agencies. For example, seeking support and guidance on budget and planning from the Ministry of Finance and Prime Minister's Office, working collaboratively with HMAF, Tonga Navy on fisheries patrols, and with MORC on border controls for imports and exports of fish products, counter drugs trafficking, countering transnational crime, support health protection like covid-19.

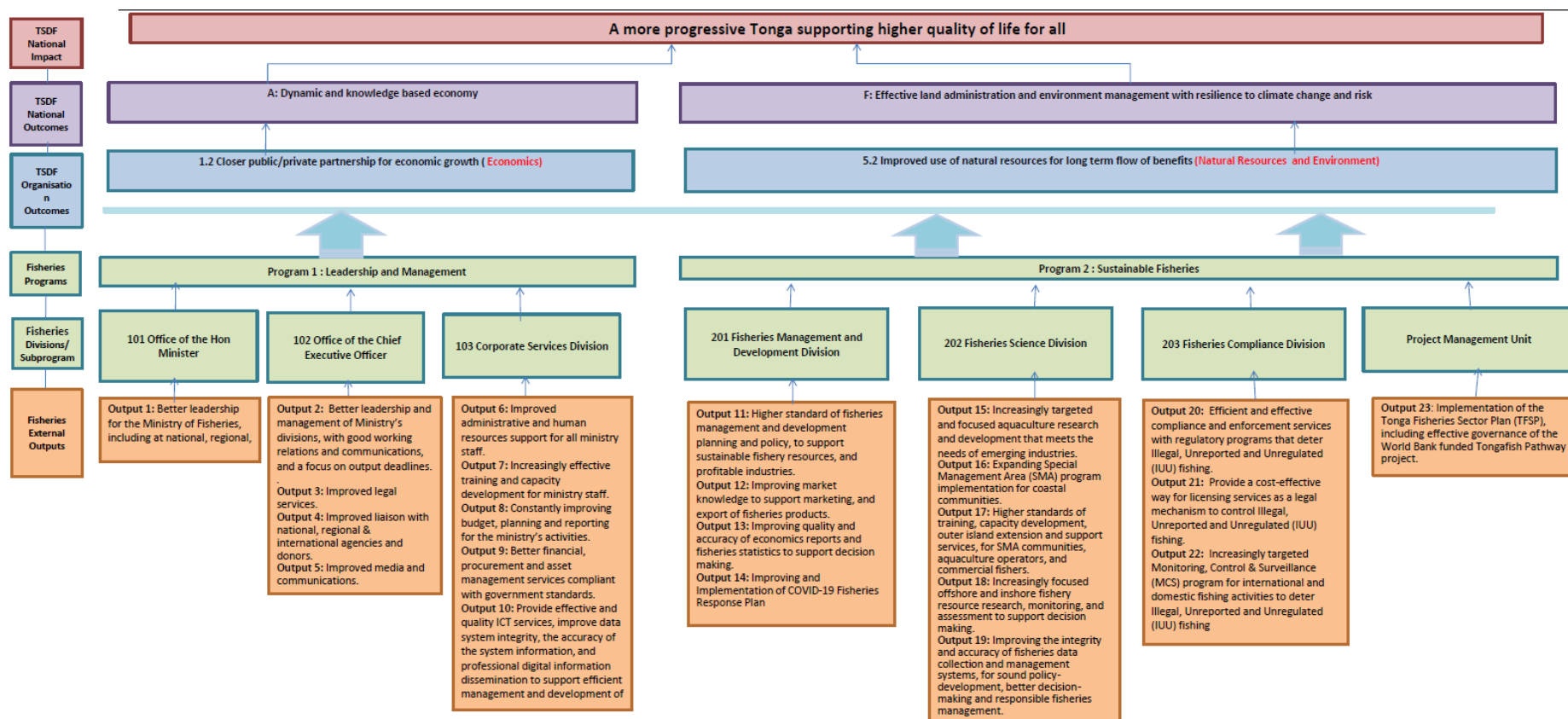
MoF works closely with key industry stakeholders towards sustainable fishery management, and with coastal communities on the establishment and administration of the Special Management Area Program. A range of species are being investigate for their potential for aquaculture, both as alternate livelihoods for coastal communities and for their potential for larger scale and export level production.

MoF has particularly close ties with two regional agencies, the Forum Fisheries Agency (FFA) and the Pacific Community (SPC), and regularly attends workshops, training events and meetings. Bi-lateral MOUs are in place for the provision of services to Tonga, such as support for management planning, compliance, resource assessment, and aquaculture development. MoF works very closely with many development partners, in particular the World Bank, the NZ Ministry for Foreign Affairs and Trade, the NZ Ministry for Primary Industries, the Asian Development Bank, the Australian Centre for International Agricultural Research, and the Japan Trust Fund, and is extremely grateful for the generous support provided.

1.3 Operational Structure



1.4 Performance Management Framework – Results Map (Logframe)



2. Ministry of Fisheries Performance

2.1 Human Resource Management

During the FY 2021/22 we had a total of 70 staff (23 females, 39 males). The Ministry later had sixteen (16) newly recruited staff, sixteen (16) staff promoted, one (1) staff transferred and promoted to another ministry while 1 staff was laterally transferred from MET. Two (2) staff resigned, and one (1) staff who retired from the public service. The project management unit recruited three (3) new staff for the core team.

Established staff (including vacant positions)	84
New appointees	16
Promotions	16
Re-appointed	1
Lateral Transfer	1 staff lateral transfer from MET
Transfer and Promotion	1 staff transferred and promote to MOI
Unestablished staff	23
Resigned	2
Retire	1

Project Management Unit (PMU)

New appointees	3
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New Appointments

No.	Name	Post	Division	Date of Assumption of duty
1-	Mr. Sione Ue'i Kalaniuvalu	Fisheries Trainee	Fisheries Science and Extension Division	8 th Sept 2021

2-	Miss Sela Tu'itavuki Mafi	Fisheries Assistant	Fisheries Science and Extension Division	29 th Oct 2021
3-	Mr. Semisi Ma'u Tapueluelu 'Anisi	Senior Fisheries Assistant	Fisheries Science and Extension Division	9 th Nov 2021
4-	Miss Viviena Taimani	Fisheries Trainee	Corporate Service Division	31 Jan 2022
5-	Miss Skylawn Palelei	Fisheries Officer	Fisheries Management and Development Division	21 Jan 2022
6-	Mrs. Holeva Paasi	Computer Assistant	Fisheries Science and Extension Division	14 February 2022
7-	Mr. Falakiseni Pe'ei	Fisheries Assistant (Niuafou'ou)	Fisheries Science and Extension Division	14 th March 2022
8-	Miss 'Elenoa Maile	Fisheries Officer	Fisheries Management and Development Division	27 th April 2022
9-	Miss Minoneti Henri	Fisheries Officer	Fisheries Compliance Division	2 May 2022
10-	Mr. Sigi Palelei	Fisheries Assistant	Fisheries Science and Extension Division	16 th May 2022
11-	Miss Hala'unga Taholo	Fisheries Trainee	Corporate Service Division	16 th May 2022
12-	Miss 'Akata Tonga'onevai	Fisheries Trainee	Fisheries Science and Extension Division	16 th May 2022
13-	Mr. Viliami 'Esi Naitoko	Fisheries Officer	Fisheries Science and Extension Division	23 rd May 2022
14-	Mr. Tu'a Lango'ia	Fisheries	Fisheries	7 th June 2022

		Trainee	Science and Extension Division	
15-	Mr Paula Vea'ila	Fisheries Trainee	Fisheries Compliance Division	27 th of June 2022
16-	Mr Latu Tangataevaha	Driver	Corporate Service Division	27 th June 2022

Re- appointment

No.	Name	Post	Division	Date of Assumption of duty
1.	Mrs. Salote Fa'otusia	Legal Officer	CEO Office	22 nd April 2022

PMU appointment

No	Name	Post	Division	Date of Assumption of duty
1.	Mr. Richard Hanisi	SMA Lead (Ha'apai)	Ha'apai	12 th Jan 2022
2.	Mr. Sioeli Pilimiso Afu	SMA Lead (Tongatapu)	Tongatapu	7 th March 2022
3.	Mr. Jonathan Kwok	Procurement Officer	Tongatapu	16 th May 2022

Promotions

No.	Name/Previous post	Post promoted to	Division	Date of assumption of duty
1.	Mr. Siaosi Vi/ Senior Fisheries Assistant	Fisheries Officer	Fisheries Science and Extension Division	07 th July 2021
2.	Mr. Tonga Tu'iano/Technical Officer Gr2	Fisheries Officer	Fisheries Science and Extension Division	07th July 2021
3.	Mrs. Elaine Havealeta/ Principal Fisheries Officer	Deputy Secretary	Corporate Services Division	27 th July 2021
4.	Mr. 'Ofa Napa'a/ Fisheries Trainee	Senior Fisheries Assistant	Fisheries Science and Extension Division	19 th October 2021
5.	Mrs. Sisi Mata'itohi Mafile'o Hafoka/ Fisheries Officer	Principal Fisheries Officer	Corporate Services Division	13 th December 2021

6.	Mr. 'Alimoni Tu'ivailala Taumoepeau Jr/ Technical Officer Grade 2	Fisheries Officer	Corporate Services Division	13 th December 2021
7.	Mr. Malakai Faletau/ Senior Fisheries Assistant	Technical Officer Grade 2	Fisheries Compliance Division	13 th December 2021
8.	Mr. Pala'a Mausia/ Senior Fisheries Assistant	Technical Officer Grade 2	Corporate Services Division	02 nd March 2022
9.	Mr. Siaosi Raynold Fonua/ Fisheries Assistant	Fisheries Officer	Fisheries Science and Extension Division	16 th March 2022
10.	Mr. Penisimani Pouvalu a.k.a Penisimani Faleako/ Fisheries Trainee	Fisheries Assistant	Fisheries Science and Extension Division	16 th March 2022
11.	Mr. Samuela Pohiva/ Fisheries Officer	Principal Fisheries Officer	Fisheries Management and Development Division	30 th March 2022
12.	Mrs. Pelenaise Tuiano/ Technical Officer Grade 2	Fisheries Officer	Corporate Services Division	19 th April 2022
13.	Mr. Tolu Fa'au/ Fisheries Trainee	Senior Fisheries Assistant	Fisheries Compliance Division	19 th April 2022
14.	Mr. Fonuakite Fanua/ Fisheries Assistant	Senior Fisheries Assistant	Corporate Services Division	16 th May 2022
15.	Mrs. Siosi'ani Matangi/ Fisheries Trainee	Technical Officer Grade 2	Corporate Services Division	19 th May 2022
16.	Mrs. Angelica Mafile'o Vaisima/ Fisheries Officer	Senior Fisheries Officer	CEO Office	20 th May 2022

Staff transferred

No.	Name/Previous post/Ministry	Post promoted to/lateral transferred	Ministry transfer to	Date of assumption of duty
1.	Mr. Nimilote Halatoafa, Senior Lecturer, Ministry of Education and Training	Senior Fisheries Officer	Ministry Fisheries	04 th March 2022
2.	Miss Hulita Fa'anunu, Senior Fisheries Officer, Ministry of Fisheries	Principal Marine Officer	Ministry of Infrastructure	20 th June 2022

Resigned

No	Name	Post	Division	Date of resignation
1	Miss. Pelalina	Senior Fisheries	CEO Office	03 rd of February 2022

	Faletau	Officer		
2	Mr. Metali Koula-I- Vuloto Henoa	Driver	Corporate Service Division	19 th April 2022

Retirement

No	Name	Post	Division	Effective date
1	Mr. Po Uanoa 'Ahoafi	Fisheries Officer	Fisheries Compliance Division	22 nd of September 2020

Daily Paid Contracts

NO.	Full Name	POST TITLE	Division
1.	Mr. Sione Fakava-Moe-'Atu Finau	Minister's Personal Assistant	CEO Office
2.	Mr. Samiu Tupoumalohi	VIP Driver	CEO office
3.	Mr. Unaloto Palaki	Assistant Accounting Officer	CSD
4.	Mr. Samisoni Tu'akalau	Fisheries Trainee	FMDD
5.	Miss. Thelia Malia Pakalani	Fisheries Trainee	FMDD
6.	Mr. Sione Puleiku	Fisheries Trainee	FMDD
7.	Mr. Filimone Paea	Assistant Marketing/Data Collection Officer	FSED
8.	Mr. Huni Halahingano	Enforcement & Compliance Officer	FCD
9.	Mr. Siosifa Tulikihakau	Fisheries Aquaculture Trainee	FSED
10.	Miss. Seini Koniseti	Assistant Marketing/Data Collection Officer	FSED
11.	Mr. Siasia Tapa'atoutai	Boatman - Compliance Trainee	FSED
12.	Miss. Loni Latu Tuiono	Fisheries Science Assistant	FSED
13.	Miss. Alauna Folau	Compliance Trainee	FSED
14.	Mr. Samiuela Kavafau Maile	Compliance Trainee	FSED
15.	Mr. Matangiliva Losalu	Aquaculture Assistant	FSED
16.	Miss. Motulalo Tufunga	Administrative Assistant	CEO Office
17.	Mr. Siuola-'i-humberside 'Alofi	Fisheries Data Collector Officer	FSED
18.	Mr. Viliami Tuanitoni Taufu	Tuna Data Collection Officer	FSED
19.	Mr. Sosaia Falase Muli	Tuna Data Collection Officer	FSED

20.	Mr. Sione Folau Koloamatangi	Tuna Data Collection Officer	FSED
21.	Mr. Senituli Finau	Tuna Data Collection Officer	FSED
22.	Mr. Metui Matema'atonga Pohiva	Assistant Information Computer Technology	CSD
23.	Miss. Losana Fonua	Tuna Observer & enforcement Data entry	FCD

This table shows the numbers of staff in each Band Level (including vacant positions);

Band Level	Numbers
E	1
G	3
H	1
I	1
J	8
K	6
L	20
M	11
N	6
Q	4
R	16
S	8
Total	85

The table below shows the number of qualifications of the staff. Therefore, a total of 49 staff has attained qualifications such as PhDs, Masters, Postgraduate, Bachelor Degrees and Diplomas. The remaining 36 staff holds either Fisheries certificates and secondary school (Form 5, 6, 7).

Qualifications	Number
PhD	2
Master's Degree	7
Postgraduate	2
Bachelor Degrees	20
Diplomas	18

Staff development and training

During this FY2021/22 only one (1) staff attended 1 overseas short-term training at Baeza, Spain. The general objective of the program is to provide high quality; specialized training on the scientific bases, techniques, and instruments that enable CITES implementation

and development, in order to strengthen the fight against illegal trade, particularly in those countries of origin where animals and plants are subject to international trade.

Ministry of Fisheries Staff Performance for FY2020/2021

The Ministry of Fisheries submitted its Performance Management System assessment for the Mid-Year Review Assessment for FY2021/22 in February 2022 and End of Financial Year Assessment for FY2021/2022 in August 2022. This FY is the sixth year of the implemented of PMS amongst the Public Service. In Comparison of the PMS outcome end results in the past five years there was great improvements year by year in the staff performance rewards. But due to confidentiality of the data, that can not be released in this report.

There was no PSC-PMS end of the year assessment award for all ministries, due to covid-19 restriction. However, the Ministry of Fisheries still maintain its compliance to the PSC PMS traffic light criteria and PMS IIP, as in our quarterly traffic light still in green with a percentage vary between 98 – 100%. Table below shows the quarterly PMS performance of the Ministry;

Quarter	Percentage	Traffic light
Qtr 1	99%	Green
Qtr 2	100%	Green
Qtr 3	98%	Green
Qtr 4	100%	Green

There was no Public Service Day month event this year due to covid-19 restriction also.

2.2 Results Management (Reporting outputs and outcome)

2.2.1 Office of the Honourable Minister

TSDf II Outcomes A: A more inclusive, sustainable and dynamic, knowledge-based economy. D: More inclusive, sustainable and responsive good governance with strengthened rule of law. F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.					
Key Performance Indicators (KPIs)	Targets	Achievements (based on the targets and KPIs.)	Beneficiaries	Cross cutting implications	Future plans
Output 1: Better leadership for the Ministry of Fisheries, including at national, regional and international levels.					
Number of meetings.	5	31	Ministry of Fisheries, PSC, Ministry of Finance, Cabinet, Legislative Assembly	The Government is well informed about fisheries activities	Inform key stakeholders and relevant ministries of policy and regulations
Annual submission of CP and Budget to MOF (Finance)	1	1	Ministry of Fisheries, Ministry of Finance, Cabinet, Legislative Assembly, Prime Minister's Office	The Government is well informed of fisheries activities	Maintain submission on time of the report
Annual submission of AR FY2020/21 to LA	1	1	Ministry of Fisheries, Cabinet, Legislative Assembly	Improve Fisheries management	Attend all meetings

2.2.2 Office of the Chief Executive Officer

TSDF II Outcomes A: A more inclusive, sustainable and dynamic, knowledge-based economy. D: More inclusive, sustainable and responsive good governance with strengthened rule of law. F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.					
Key Performance Indicators (KPIs)	Targets	Achievements (based on the targets and KPIs.)	Beneficiaries	Cross cutting implications	Future plans
Output 2: Better leadership and management of Ministry's divisions, with good working relations and communications, and a focus on output deadlines					
Number of meetings.	4	4	Ministry of Fisheries, Ministry of Finance, PSC, Cabinet	Contribute to final Approval of Budget, CP, Annual Management Plan of the Ministry of Fisheries	Suggest a one-week training for preparation of the CP, budget and Management Plan
Number of activities approved each year (CP, AMP, Budget, Cash flow forecast, procurement plan, training plan, PMS, JD review and Annual Report)	9	11	Ministry of Fisheries, Ministry of Finance, PMO, LA, PSC, Cabinet	The budget is well monitored	Follow up with monthly cash flow First, identify fisheries activities to be included in the annual procurement plan
Number of bi-annual report submitted each year.	2	2	Ministry of Fisheries, PSC	PSC is well informed of fisheries activities	Maintain the submission of the report in accordance with the deadlines
Output 3: Improved legal services.					
Monthly briefing summary.	12	3	Ministry of Fisheries, Attorney General Office, Cabinet	Ministry and Government of Tonga are well informed of legal requirements L/O recruited on April 2022	Increase legal activities to improve public awareness
Number of amendments of act and regulations and fishery notices activities conducted each year	2	2	Ministry of Fisheries, FFA, WCPFC	Improve fisheries management. L/O recruited on April 2022	A good plan and the consistency of Regulations, the Ministry's Public Awareness

Quarterly legal training conducted	4	1	Ministry of Fisheries	No legal training was conducted due to the resignation of the Ministry's Legal Officer. L/O was recruited on April 2022.	Increase staff and public awareness for Fisheries Law & Regulations.
Output 4: Improve liaison with national, regional & international agencies and donors.					
Number of Liaison and correspondences with nation, regional & international agencies and donor conducted each year	12	9	Ministry of Fisheries, Ministry of Finance, Ministry of MEIDECC, Ministry of Internal Affairs, PSC, FFA, SPC, WCPFC, World Bank, FAO, ACIAR, JICA	Increased understanding of fisheries issues among shareholders Liaison Officer was recruited in Mid May 2022	Increase engagement with national, regional and international agencies.
Number of TFSP reports	1	1	Ministry of Fisheries, World Bank and Ministry of Finance	MOF is well aware of activities implemented by the TFSP	Maintain the received of the TFSP report from PMU
Output 5: Improved media and communications.					
Monthly media releases (TV, radio and official website, fb)	18	295	Ministry of Fisheries, Ministry of Finance, PSC, FFA, SPC, WCPFC, World Bank, FAO, ACIAR, MFAT, DFAT, JICA, NFC, Pearl farmer	Increased understanding of fisheries issues among stakeholders. Number of consultation and awareness programs were crossed out due to the tsunami and covid-19 restrictions	Increase engagement with stakeholders, regional and national agencies
Quarterly public awareness program	8	10	Ministry of Fisheries	The public is well informed of fisheries activities	Increase the number of media outputs

2.2.3 Corporate Services Division

TSDF II Outcomes A: A more inclusive, sustainable and dynamic, knowledge-based economy. D: More inclusive, sustainable and responsive good governance with strengthened rule of law. F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.					
Key Performance Indicators (KPIs)	Targets	Achievements (based on the targets and KPIs.)	Beneficiaries	Cross cutting implications	Future plans
Output 6: Improved administrative and human resources support for all ministry staff.					
Annual submission of JD review to CEO	1	1	Ministry of Fisheries, Public Service Commission (PSC)	All JD was revised according the new JD format from PSC.	Consistency in agreement of JD review between staff/supervisor
% of vacant post complete within Financial Year	80%	80%	Ministry of Fisheries, Public Service Commission, Ministry of Finance	All of the recruitments complied with PSC Recruitment Policy. All vacancies were filled according to timeline provided by PSC.	Fill in the remaining vacant positions
Annual review of the Ministry's filing system	1	1	Ministry of Fisheries		Continuing weekly and monthly updating Ministry's file
Output 7: Increasingly effective training and capacity development for ministry staff.					
Annual submission of the Ministry's training plan and need.	1	1	Ministry of Fisheries, Public Service Commission	Donor availability, relevant training offered.	Ongoing implementing the PSC work force training plan for FY2021/22
Output 8: Constantly improving budget, planning, performance and reporting for the ministry's activities.					
Annual submission (CP, Budget, AMP, IAMP)			Ministry of Fisheries, Prime Minister's Office, Ministry of		

	4	4	Finance, Legislative Assembly		
Biannual review (PMS) Mid-Year Review (MYR) End of Financial Year (EFY)	2	3	Ministry of Fisheries, Public Service Commission	i) Partial complete of remarks in the PMS form ii) Improper 1-2-1 process iii) Delaying in comply with PMS internal schedule	i) Conduct a refresher training before MYR and EFY go over whole PMS form ii) Prompt compliance of internal schedule
Quarterly submission (CP & JNAP M&E)	4	2 (Bi-annually) Note: PMO change from quarterly to bi-annually	Ministry of Fisheries, Prime Minister's Office		i) Close consultation with PMO regarding the quarterly feedback ii) Close consultation with PMO/Statistics regarding the SDG iii) JNAP2
Annual submission of Annual Report (AR)	1	1	Ministry of Fisheries, Cabinet, Legislative Assembly, Public (after approval from the LA)	Delays in meeting internal schedule deadlines towards compilation of Division contribution to Annual Report against the CP targets of the FY	Prompt compliance with the internal schedule
Number of internal policies (develop, review and update) approved	5 (3a/2d)	5 (5a)	Ministry of Fisheries, PSC	Variance in understanding on internal policy	Regular refresh of these policies and the flexibility to adjust with justifications accordingly
Output 9: Better financial, procurement and asset management services compliant with government standards.					
Annual submission of expenditure cash flow forecasts	1	1	Ministry of Fisheries, PSC, Ministry of Finance 2 July 2021	Delays in submitting divisional cash flow in accordance to deadlines	Auto reminder to all HOSs/HODs

Annual submission of revenue forecast reports	1	1	Ministry of Fisheries, PSC, Ministry of Finance 2 July 2021	Better monitoring and update of forecast reports	Auto reminder to all HOSs/HODs
Annual submission of annual PAYE	1	1	Ministry of Fisheries, Ministry of Finance, MORC submitted to Revenue -14 August 2021	Better monitoring and accuracy of staff PAYE	Internal auto reminder for PAYE.
Annual submission of asset reports	1	1	Ministry of Fisheries, Ministry of Finance	Undertake asset count to meet deadline	i) Friendly reminder on assets transferred without advice. ii) Updating of Asset and Inventories from the outer Islands
Annual submission of procurement plan%	1	1	Ministry of Fisheries, Ministry of Finance, PMO	Divisional work plans should take into accounts any activities that would pass the procurement margin (\$20,000.00) in cost to advise the Procurement unit, to include this in the APP	I. Friendly reminder for better planning, to demise revising of APP Ensuring that technical specifications, BOQ or any other related documents or inputs to their procurement projects are well layed out and in line with what they need so the procurement proceeding will be done according to the divisions and their precise plans.
Output 10: Provide effective and quality ICT services, improve data system integrity, the accuracy of the system information, and professional digital information dissemination to support efficient management and development of fisheries services.					
Number of Plans (ICT management operation)	41	Target Achieved: 41	Ministry of Fisheries, FFA	Delaying in completions of plans due to the problem with the internet from volcanic eruption	Ongoing discussion with e-government for the internet backup
Support availability and consistencies (technical assistance to MoF client computers and user's	>=90	95%	Ministry of Fisheries	due to the problem with the internet from volcanic eruption	Ongoing discussion with e-government for the internet backup

requirements)					
Down time – FY hourly basis (ICT infrastructure)	<=1%	0.8%	Ministry of Fisheries	due to the problem with the internet from volcanic eruption	Ongoing discussion with e-government for the internet backup

2.2.4 Fisheries Management and Development Division

TSDF II Outcomes A: A more inclusive, sustainable and dynamic, knowledge-based economy. D: More inclusive, sustainable and responsive good governance with strengthened rule of law. F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.					
Key Performance Indicators (KPIs)	Targets	Achievements (based on the targets and KPIs.)	Beneficiaries	Cross cutting implications	Future plans
Output 11: By June 2022, Five Higher standard fisheries management and development planning and policies developed, approved, implemented and monitored to support sustainable fishery resources, and profitable industries.					
Number of Fisheries Management Plan (FMP) developed, reviewed and approved. <i>[Develop – Coastal Fisheries, FAD]</i> <i>[Review – Aquaculture, Tuna, Marine Aquarium]</i>	5 New-coastal, FAD Review-aqua, tuna, MA	1 - Fisheries Management and Development Plan (FMP) developed reviewed, approved. - Tonga Coastal Fisheries Management and Development Plan	Ministry of Fisheries and relevant stakeholders for each management plans.	- Some delay of activities due to covid-19 - Awaiting the approval from Hon. Minister for two (2) management plans. - The Hunga Tonga Hunga Haapai Volcanic Eruption	- Continue on with the planned activities.

Note: PMU contribution		<ul style="list-style-type: none"> - Tonga FAD Management and Development Plan - Revised Marine Aquarium Management and Development Plan - Revised Tuna Fisheries Management and Development Plan - Mid-Review Aquaculture Management and Development Plan 			
Number of consultations meeting conducted for public to be aware of the new plan developed and reviewed.	48	<p>30</p> <p>26 Coastal + 4 Aqua</p> <ul style="list-style-type: none"> - 26 Consultation conducted for the Coastal Fisheries Management plan- Internally, Vavaú, Tongatapu, Haapai, Eua - 4 x Consultation for mid-review of Aquaculture management plan including Internal, Tongatapu, Vavaú and Haapai 	Ministry of Fisheries and its stakeholders for coastal fisheries and aquaculture license holders	<ul style="list-style-type: none"> - implications of covid-19 on the Fishers - proposed changes from CEO for consultations. 	<ul style="list-style-type: none"> - Continue with the planned activities for the consultations.
Percentage of activities completed in each approved	Tuna Plan (100%)	Tuna (70%)	Ministry of Fisheries and relevant	Currently on going as	i.) Ongoing with monitoring these

Fisheries Management (FMP) (Tuna, Aquaculture, Sea Cucumber, Deepwater, Aquarium)	Aquaculture Plan (100%) Sea cucumber (100%) Deepwater (100%) Aquarium (100%)	Aquaculture (37%) Sea cucumber (?) Deepwater (70%) - Aquarium (75%)	stakeholders	planned.	management plans.
Number of reports (monthly or quarterly, and annually) on performance of each Fisheries Management and Development Plans completed or presented	4	12 4 x deep-water 4 x aquaculture 4 x marine aquarium -	Ministry of Fisheries	Constant changes of planned activities due to Ministry prioritizing activities related to Covid-19	i)Ongoing with monitoring and reporting the FMPs.
Number of Fisheries policies developed or reviewed and approved. [Develop – FAD Policy]	1	1 FAD Policies	Ministry of Fisheries and relevant stakeholders (SMA communities in Tongatapu Is, Eua Is, Vavau Is and Ha’apai Is and also fishers doing FAD fishing.	Ministry having other prioritized activities, however, FMDD still managed to work on the policy.	i.) Continue with monitoring the policy for FMPs
Percentage of activities completed in each approved Fisheries Policy	50%	50%	Ministry of Fisheries and collaboration with the Project Management unit, District and Town officers	FAD management plan is currently developing	Continue monitoring of existing activities within FAD policy, A FAD management plan is currently developed.

Number of reports (monthly or quarterly, and annually) on performance of each Fisheries Policy completed or presented	4	4 Reports completed in a quarterly basis	Ministry of Fisheries and relevant stakeholders	Currently ongoing as planned	Ongoing activities.
Output 12: Improved quality and accuracy of economics reports and market knowledge to support decision making, marketing, and export of fisheries products					
Number of surveys conducted to collect economic data to inform economic analysis (Tuna & Snapper Fisheries)	2	2 Snapper Market Research Plan Reviewed in July 2020. However, implementation of snapper market research to Hawaii is postponed due Covid19 pandemic lockdown Pearl market research plan had been developed.	Fishing industries and Ministry of Fisheries	Delay in implementation of international market plan is due to covid-19 restrictions	Implementation of snapper research plan postponed until further notices
Number of economic analysis reports approved and published annually (Tuna & Snapper Fisheries)	2	1 Economic analysis on sea cucumber performance from 2020 was reported and presented to HODs and CEO.	Ministry of Fisheries	Data for this analysis was provided from Science and Compliance Division within the Ministry.	Economic section will continue to conduct economic analysis required by the Ministry and provide data to relevant line ministries.
Number of capacity building activity conduct annually. (Empower and strengthen capacity for Fisheries Councils and Associations. (Tongatapu,	4	1 Snapper market research review had been presented to HODs	Snapper licence holders, Ministry of Fisheries and National Fisheries Council	Delay in conducting of planned international market research are due to covid-19 restrictions	The Ministry will continue to conduct market research for all the existing and potential marine products

Vavaú, Haápai & Éua))					
Number of project proposals develop and approved. (Economic Development Projects (Squid & Mud crab farming))	2	4	All the relevant stakeholders and the people of Tonga		Ongoing this activity through quarterly domestic market report
Number of Fisheries Market research plan developed, reviewed, approved, and implemented. (Market research plan for marine products (Pearl & Snapper))	2	5 - E-Marketing workshop for pearl stakeholders conducted in November 2020. - Internal workshop on fish handling, finance processes and data collection and reporting conducted in February 2021. - Pearl Marketing workshop for Vavau stakeholders conducted in April 2021. - Pearl marketing workshop for Haapai stakeholders conducted in May 2021. - Pearl marketing workshop conducted for Tongatapu stakeholders in May	MOF staff and pearl stakeholders	5 trainings completed for the financial year	The Ministry will continue providing needed marketing training capacity building for fisheries sector.

		2021.			
Output 13: Improved quality and accuracy of economics reports and fisheries statistics to support decision making.					
Domestic market survey conducted, and report submitted (quarterly, bi-annual, annual)	156	23 23 Market survey conducted on Saturday of every week until market survey activity was handed to FSD in December 2021.	Ministry of Fisheries and Statistics department	Data collected in market surveys are reported in the Ministry's quarterly bulletin.	The Ministry will continue to conduct market survey in a weekly basis. This activity was handed over to Science division and it wasn't completed due to national lockdown from covid-19 and other issues on overtime.
Number of fisheries statistic report publishes every quarter (Quarterly Bulletin)	4	4 Statistical reports are published on a quarterly basis in our quarterly bulletin.	Ministry of Fisheries, Statistical department and National Reserve Bank	Statistical data are collected from various division within the Ministry and economic division is responsible for analysing and reporting of those data.	The Ministry will continue to publish statistical data on a quarterly basis and also provide data to stakeholders upon request and approval from CEO.
Number of reports on marine species market price submitted. (Seafood market sold both in local and international markets.)	4	This activity was not conducted due to lockdown and impact of HTHH volcanic eruption	N/A	This activity is important in terms of GDP contribution.	The Ministry will continue to conduct this activity in the current financial year.
Number of data set submitted to line Ministries. (Fisheries data (export, catch, and domestic market survey data) on Quarterly basis.)	4	4	NRBT, Statistic Department, Ministry of Finance.	This activity is important in terms of Economic forecast and GDP contribution.	The Ministry will continue to draw a closer relationship with related line Ministries and stakeholders
Number of exemption report	4	4	Tuna and Snapper Industries, Ministry of	This Activity act as crucial mechanism to	The Ministry will continue to analyse this scheme and monitor its contribution to

submitted. (Duty free and CT exemption)			Fisheries (High level management)	measure the development of Large-scale commercial Fishing Industries.	the development of Fishing Industries.
Output 14: Improved and Implemented and monitored of COVID – 19, NCD and Natural Disaster Fisheries Response Plan.					
Percentage of activities completed in the implementation of the “MOF Emergency Response Plan for COVID-19 pandemic”	100%	100% of fish stock provided were sold and reported. All payments to the fish suppliers completed.	Deep water fishermen, Public (People of Tonga	100% of fish stock provided were sold and reported. All payments to the fish suppliers	This project ends and no further fund given.
Number of reports provided on natural disasters. (Assess and report on impacts of natural disasters in the fisheries sector.)	1	2 Survey reports on the impact of the HTHH Volcanic Eruption completed and report submitted Report on the completion of the Harold completed	Ministry of Fisheries and Fisheries Sector	Survey on the impact of the HTHH on the Fisheries Sector has been completed	HTHH Damaged assessment reports completed Harold response and recovery activities completed.
Number of reports completed and submitted. (Disaster response plan.)	4	2 Report on the implementation of HTHH response and recovery plan completion of the Response Activities is in progress	Fishers that have impacted by HTHH and TC Harold	Implemented	Economic section will continue to report on response and recovery activities of HTHH impact
Percentage of activities completed in the implementation of MOF NCD project per unloading.	100%	100% of fish stock provided were sold and reported. All payments to the fish	All the relevant stakeholders and the people of Tonga	100% of fish stock provided were sold and reported. All payments to the fish suppliers	This project is ongoing and need to review the agreement of the volume of fish given and the selling prices of the provided fish under the access agreement for Foreign fishing vessels.

		suppliers completed.			
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Export Performance

Marine Export

The total marine product exported (not including aquarium products), during the period was 1,026 metric tons. This is a 35% decrease from the total marine products exported in the last financial year which was predominantly due to a substantial decrease in the export of snapper. All fish exports in this financial year were valued at TOP\$4.9 million which is a 42% decrease from the value of fish exported in the last financial year. The export of marine products had been affected tremendously by the continuous lockdown of international borders and markets due to COVID-19.

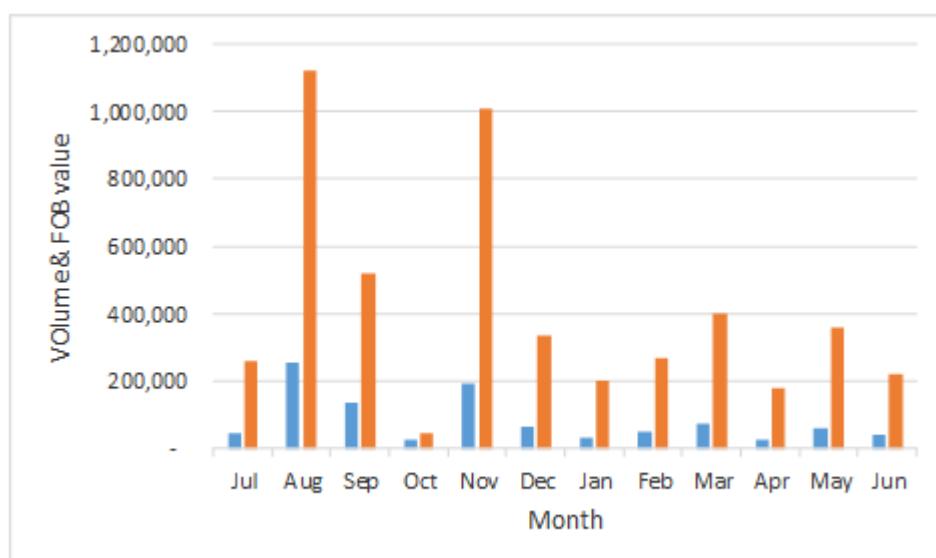
Table 1: Total weight and value of Marine Export from July 2021 – June 2022

Species	Volume (MT)	FOB value (M)
Seaweed(Mozuku)	144	0.07
Shark Meat	28	0.14
Tuna	855	4.7
Total	1,026	4.9

Tuna Fishery

The export quantity of tuna and associated by-catch for this financial year was 855 metric tons which is a 43% decrease from the last financial year. Tuna remains to be the main contributor to the total amount of marine products exported, making up 83%. The total FOB value of tuna exported within this period was valued at approximately TOP\$4.7 million, which is a 43% decrease from the previous period.

Figure 1: Total Tuna Export by weight (kgs) and FOB value (TOP\$) from July 2021 – June 2022.



Deepwater Fishery (Snapper)

The snapper fishery experienced a significant impact due to COVID-19 restrictions. Access to international markets were cut off due to international border restrictions and other export restrictions. As a result, there was no export during this financial year. However, Snapper fishers were still able to supply our local market with the assistance of the Government through subsidizing the price of fish and baits. A total of 78 metric tons snapper was sold in the local market during this period which was valued at 0.78 million pa'anga.

Sea Cucumber

The prohibition of harvesting, processing, and exporting of sea cucumber was lifted on the 07th May 2021 according to a decision made by the cabinet to be effective from 31st May to 30 September 2021.

This decision was made to assist the people by financially empowering them due to the negative economic and social impacts caused by COVID-19.

However, the Ministry of Fisheries issued a total of 14 licenses to those that met the requirements according to the policy and Fisheries Management Act 2002. The licenses were issued according to the location of each sea cucumber processing facility was located which included Tongatapu, Ha'apai, Vava'u, and Niuatoputapu.

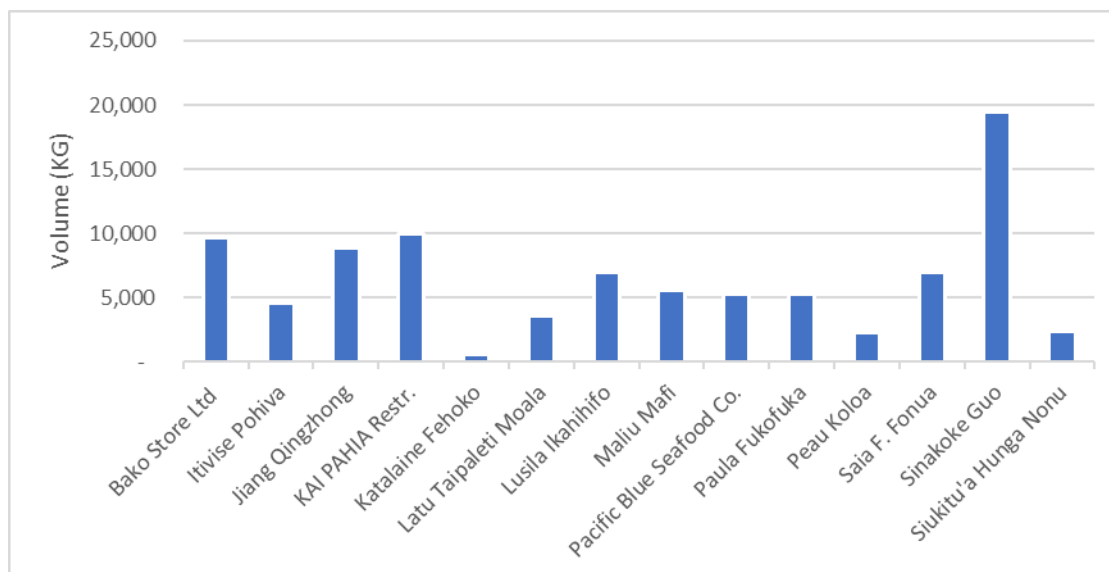
Exported bech-de-mer

A total of 4.2 million pieces which weighed up to 91 tons were exported during this financial period.

Table 2: Bech-de-mer export by species 2021.

Island	Harvest piece	Export piece	Export Volume (MT)
Tongatapu	573,465	920,296	25
Ha'apai	971,571	1,344,393	35
Vava'u	751,234	2,009,872	31
Total	2,296,270	4,274,561	91

Figure 2: Bech-de-mer export by weight 2021.



Aquarium Fishery

The total aquarium products exported in this period was 132,116 pieces, and was valued at approximately TOP\$0.73 million. This was a 1.8% decrease in quantities and associated with 2.6% decrease in FOB value from aquarium exports in the previous financial year. The aquarium export was dominated by live fish and live hard coral in terms of quantity as can be seen in figure 3 below. The main market for exported aquarium products is the United States.

Figure 3: Aquarium export by pieces from July 2021 – June 2022

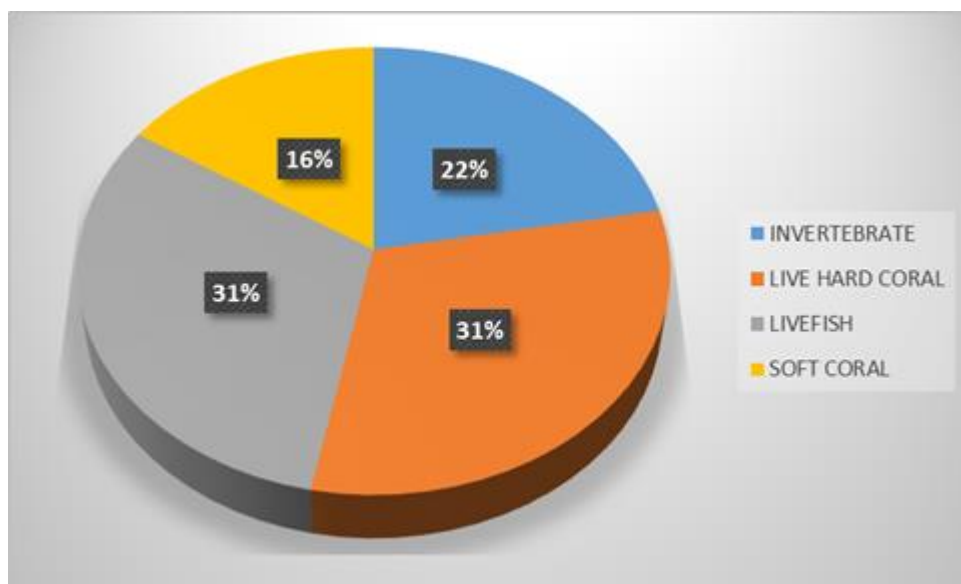
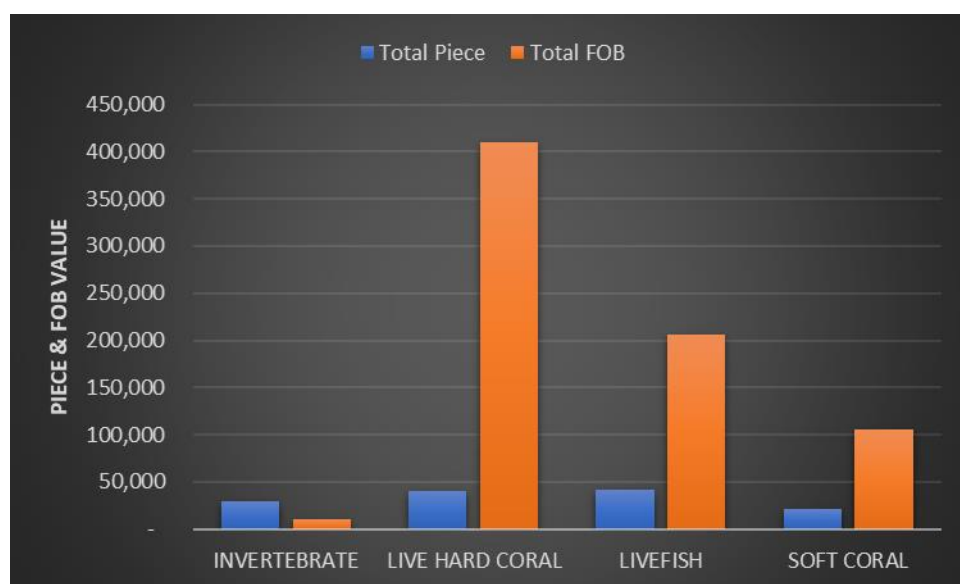


Figure 4: Aquarium export by pieces by FOB value as of Jul 2021 – June 2022



Domestic Market Survey

A market survey is conducted once every week in a local fish market with the purpose to gather information based on marine resources market price and estimated volume sold in local markets. This survey includes Vava'u, Ha'apai and all fish market stalls in Tongatapu. A total of 41 metric tons of marine resources was recorded in this financial year which is approximately valued at \$TOP 0.4 million.

The average market price of fin fish was at range of \$7 to \$10 per kilogram and sold at price of \$20, \$30, \$50 and up to \$60 and \$70 per bag. The market price of other species varied according to production cost and a change in fish market price was determined by the quantity of marine products available in the market at a particular time. However, middlemen also influence the price of marine products depending on the quantity available in the market, especially the main fish market at Fua and Vava'u. The detailed average price is detailed on the graph below, with a general indication of stable or increasing prices.

Figure 5: Total volume and value of the fish market as of the financial year 2021/22.

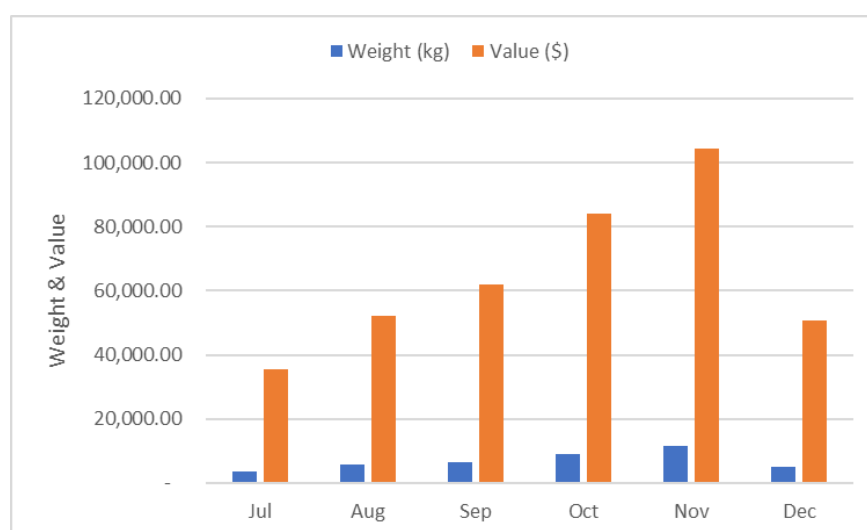
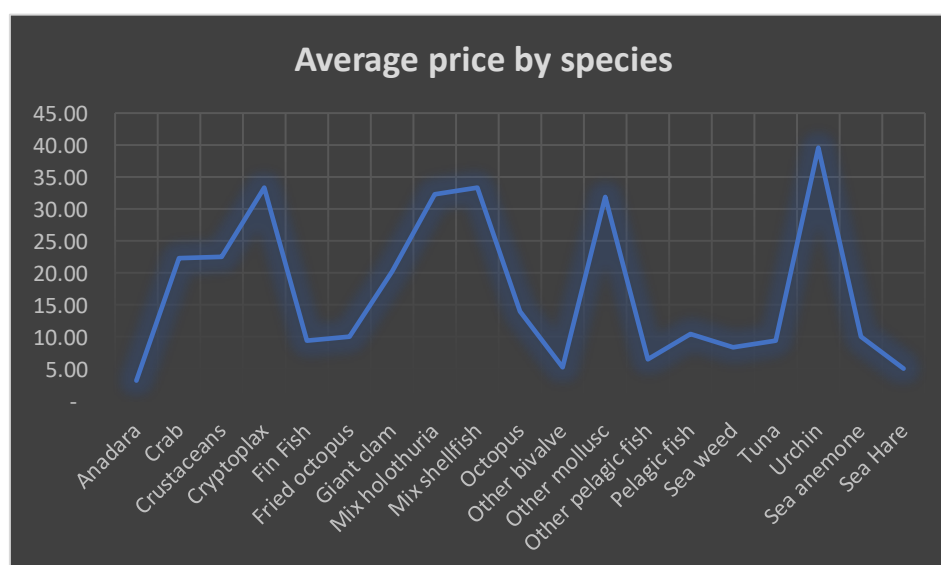


Figure 6: Average price (\$) by **Commodities** as of July – December 2021



Note: The first six months of the FY (July – December 2021) market survey was still managed to conducted by the FMDD, and the last six months (January – June 2022) this activity moved to Fisheries Science Division (FSDD) due to the scientific details of the data collected by species.

NCD Project

The NCD Project, started in 2016, and aimed at combating non-communicable diseases in Tonga with affordable tuna at price range \$7 - \$9 per kilogram. The project operates under a memorandum of agreement (MOU) between the Ministry of Fisheries and the authorized agent for foreign vessels fishing in Tonga's EEZ "Ngatai Marine Enterprises", whereby foreign fishing vessels are required to offload 3.5 tons of Tuna for the project in high peak seasons and 2.5 tons in low peak seasons. For this financial year, a total of 152 tons of tuna was sold locally in Tongatapu and Eua.

Table 3: NCD data by species by month, July 2021 – June 2022

Species	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Atu	3,319	3,428	922	843	1,850	323	196	246	499	1,338		3,868	16,832
Hakula La	5,444	5,354	7,020	1,332	6,352	375	1,720	303	469	399	508	3,934	33,209
Hakula Puaka	666	607	427	258	889	258	275	196	437	220		119	4,353
Mahimahi	381	9	21	265	191		31				137	412	1,446
Offcut	1,131	801	777	266	952	175	232	108	181	226	189	528	5,567
Ono												40	40
Sifisifi			426			161							586
Uluiika	322	13			147							261	742
Valu	1,524	458	14		985	67	234	180	427	341	602	1,266	6,097
Wahoo	6,786	2,060	1,551	356	2,156	763	718	358	427	517		2,210	17,901
Total	19,573	12,730	11,158	3,319	13,520	2,122	3,406	1,391	2,441	3,041	1,436	12,638	86,774

Covid 19 Response Activity

The Ministry's Covid - 19 Response Activity, started in March 2020, was aimed at ensuring food security during the pandemic, by providing subsidized snapper fish for the local people at the affordable price of \$7 per kilogram. The total volume of fish sold under the Ministry's Covid-19 Response Activity for

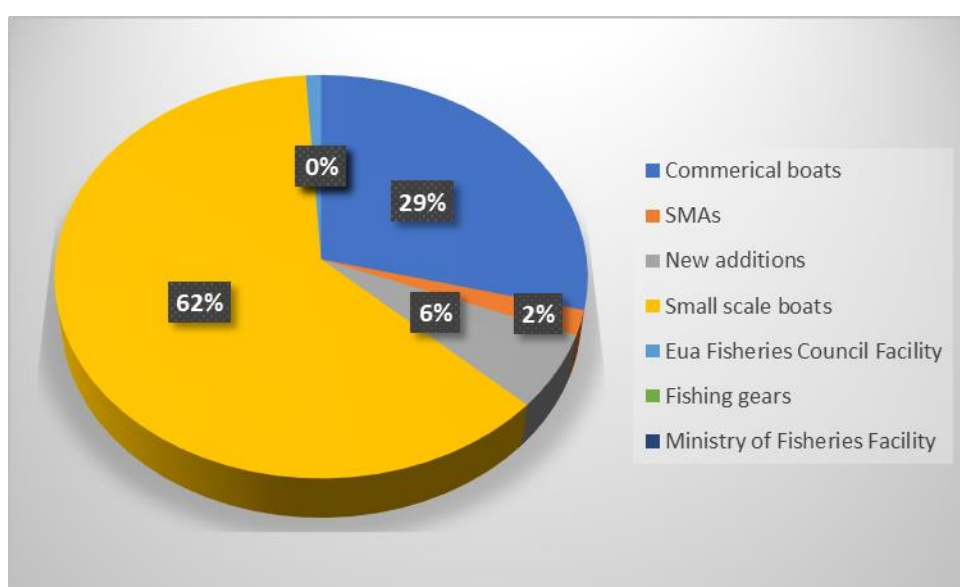
this financial year was 78 metric tonnes. The total cost of fish bought from fishing vessels for this activity was TOP\$0.78 million.

Tropical Cyclone Harold Recovery Package for Fisheries Sector

A total of TOP\$2 million pa'anga was approved by cabinet on CB no.900 dated August 2020 to support the restoration of Fisheries Sector. Two conditions are as follow;

1. Evidence of damages and cost must be confirmed by Ministry of Fisheries (invoices, receipts, pictures & survey report etc)
2. Ministry of Fisheries to monitor and report to Ministry of Finance.

Figure 7: How the fund was spent in %



- The pie graph above only indicates spending (%) per classifications

Table 4: Summary table for actual spending in both Financial Year 2020/21 and 2021/22.

Summary	Amount (\$)	
Approved Budget	2,000,000	
Transfer Funds (Vava'u)	62,285.28	
Gross Amount		1,937,714.72
Actual Spending		1,810,047.42
Commitments		86,610.98

- Transfer funds on the above table refers to fund that was transferred to Vava'u to assist with Tornado recovery.

Hunga Tonga – Hunga Ha’apai (HT – HH) Recovery Activity

The Hunga Tonga – Hunga Ha’apai volcanic eruption, which also caused coastal Tsunami tidal waves on the 15th of January, 2022, affected both the formal and informal sectors of the Fisheries sector. This volcanic activity was followed by the arrival of Covid-19 which also further impacted the Fisheries sector. As a result, commercial exports, business operations and the domestic informal sector were greatly disrupted. The primary objectives of the activity are to support the recovery effort in the informal sector, to ensure quick recovery of the fisheries business sub-sectors and also, to ensure security and consistency of seafood supply. This activity was divided into five different categories for implementation:

1. Fixing boats with minor and severe damage
2. Fixing engines with minor and severe damage
3. Fish fence repair
4. Fishing gears supply
5. Fuel supply

The following implemented activities took place from April to June of the current year, 2022 as responses to the response and recovery plan:

Damaged Boats:

The beneficiaries under this category totaled up to 99 recipients, however, only 66 recipients participated. 18 recipients were categorized under minor damaged boats (7 reimbursements) and 48 recipients were under the severe damaged boat scheme of which 3 claimed reimbursement. The total expense for this activity was \$165,744.13 Pa’anga.

Damaged Engines:

A total of 12 beneficiaries were informed of the recovery scheme, however, to date, only 3 recipients, under the severely damaged engines category participated. All 3 engines have been fixed. The total current expense for this activity was \$7,362.66 Pa’anga.

Fishing Fence:

A total of 30 beneficiaries were contacted and informed, however, only 20 recipients took part in this recovery scheme. Each recipient has entitled to \$900.00 Pa’anga which is the amount for 1 Hex Wire. The total expense for this activity was \$17,960.00 Pa’anga.

Fishing Gear:

A total of 158 recipients benefitted from this recovery scheme, of which 26 were Special Management Area (SMA), communities (14 in Ha’apai & 12 in ‘Eua). The total expense for this activity was \$130,056.92 Pa’anga whereby \$68,843.00 Pa’anga was the total expense of all fishing gears purchased for the Special Management Areas (SMAs).

Fuel Distribution:

In this activity, a total of 1600 Litres of fuel was distributed to 5 different islands in Ha’apai (Fonoi, Nomuka, Ha’afeva, Matuku and ‘O’ua) and ‘Eua. The total expenses for the distribution of fuel to outer islands were, \$6,188.00 Pa’anga.

This recovery activity was based on the eruption response survey that was conducted by the Ministry of Fisheries. Other than the already named activities (5) above, Seaweed material supplies, worth

\$1,998.00 Pa'anga, was supplied to 1 recipient and 46 supporting letters from the Ministry was issued to recipients (46) who wished to apply for the government 1% interest loan scheme.

The coverage of this scheme was mainly focused on Tongatapu. This can be proven by the number of recipients in this recovery scheme. About 30 recipients were from Ha'apai, 14 of which were not individuals but communities as a whole, the rest of the recipients, about 230, were from Tongatapu.

Table 5: A summary of Implemented activities and Expenses Details as of April – June 2022. (FY 21/22)

Activities	Actual Expenses (\$)	No. Recipient
Minor damage (boats)	25,316.15	18 (35)
Severe damage (boats)	140,427.98	48 (61)
Minor damage (Engine)	-	-
Severe damage (Engine)	7,362.66	3 (6)
SMAs & Eua Association (FS)	76,873.00	26 (SMAs)
Fishing Gears supplies (Tt)	53,183.92	132
Seaweed material supplies	1,998.00	1
Fish fence	17,960.00	20 (28)
Fuel Distribution	39,016.44	6 Islands
Total	\$ 362,138.15	

2.2.5 Fisheries Science Division

TSDF II Outcomes A: A more inclusive, sustainable and dynamic, knowledge-based economy. D: More inclusive, sustainable and responsive good governance with strengthened rule of law. F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.					
Key Performance Indicators (KPIs)	Targets	Achievements (based on the targets and KPIs.)	Beneficiaries	Cross cutting implications	Future plans
Output 15: Increasingly targeted and focused aquaculture research and development that meets the needs of emerging industries.					
Number of successful spawning events	6	2 Spawning results with 1 x Pearl oyster and 1 x Sea cucumber species (<i>sandfish</i>). Spawning of Giant clam was induced but not successful due to seawater pump breakdown. No spawning in Q3 and Q4 due to Covid-19 restrictions and hard lockdown across Tonga. All spawning activities were canceled until the next summer season	Pearl farmers Special Management Areas (SMAs) communities Sea cucumber farmers Mud crab farmers Coastal communities	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Preparedness for the next cyclone season. To expand the hatchery facilities and improve the laboratory equipment To recruit aquaculture staff to increase the number of spawning activities and increase hatchery production To conduct ongoing monitoring and assessment of individual farming activities To continue on trials of different culture techniques for each species
Number of new farms established	10	26 -11 x new pearl lines deployed (Fangatapu, Pangaimotu, Fafa, 2 x	Ministry of Fisheries Special Management Areas (SMAs)	Sustainable economic development Sustainable environment	To supply SMA communities with adult giant to minimized mortality of juveniles upon transfer

		<p>Ha'apai, 6 x Vava'u)</p> <p>- 12 sea cucumber farm established (6 trial; 6 commercial farm)</p> <p>Install of trial sea cucumber farming at SMA communities – 6 trials farming (1 x Fangatapu, 1 x Nukuleka, 1 x Talafo'ou, 1x Kanokupolu, 1 x Pangai Ha'apai and 1 x Hihifo Ha'apai)</p> <p>- set up of sea cucumber farm for SMA – 6 farms installed (1 x Nukuleka, 1 x Talafo'ou, 1 x Manuka, 1 x Pangaimotu (Tt) 1 x Makave (Vava'u and 1 x Koloa (Vava'u)</p> <p>- Established 1 x Shrimp farm and 2 x Mullet fish farm owned by the Ministry.</p>	<p>communities</p> <p>Sea cucumber farmers</p> <p>Mud crab farmers</p> <p>Coastal communities</p>	<p>management and resilience to climate change</p> <p>Sustainable and good governance</p>	<p>Continue spawning trials and development of farming technique for sea cucumber on hatchery and ocean nursery</p> <p>Extend farming of sea cucumber to SMA communities</p> <p>To develop farming and culture technique of mud crab and extend to other coastal communities of Tongatapu with suitable environmental condition.</p>
Number of aquaculture operators support with aquaculture activities	35	<p>71</p> <p>-Provide materials and deployed pearl lines for all new pearl famers</p> <p>-Distribution of oyster spats (From Tongatapu & Vava'u spat collector) to all pearl farmers and provide technical assistance such as pearl seeding training, pearl grading, fix and clean</p>	<p>Aquaculture farmers</p> <p>SMA's and Coastal Communities</p>	<p>Sustainable economic development</p> <p>Sustainable environment management and resilience to climate change</p> <p>Sustainable and good governance</p>	<p>Increase hatchery production of pearl oyster spats, giant clam and sea cucumber to accommodate farming application</p>

		<p>of pearl longline.</p> <p>-Train communities in trial farming of sea cucumbers and provide sea cucumber juveniles to all established farms</p> <p>-Conduct consultation meeting with Aquaculture farmers (Pearl and Giant clams) for Vava'u and Ha'apai.</p> <p>-The main activities conducted in Q3 was the re-installation of fin fish pen cage, fish pond and the assessment on pearl and giant clams farm that was affected by the tsunami in January 2022. The highlighted supporting activities was the assistance given to the pearl farmers with their new aquaculture development license (20 for Vava'u & 7 for Ha'apai).</p>			
Number of new potential species identified for trials.	3	<p>6</p> <p>-Mud crab, Sea cucumber, Shrimp, and Mullet fish were identified as new potential species for the trial farm by the Ministry. Tilapia and milk fish also identified as potential</p>	<p>Aquaculture farmers</p> <p>SMA's and Coastal Communities</p>	<p>Sustainable economic development</p> <p>Sustainable environment management and resilience to climate change</p> <p>Sustainable and good</p>	<p>Continue of farming trials of current species of sea cucumber, shrimp, mud crab, and mullet fish.</p> <p>To include Tilapia and revise milk fish farming with other sea cucumber species</p>

		species as they successfully growing together with mullet inside the pen cage -Sea cucumber farming was introduced to SMA communities commencing in Q3 & Q4		governance	
Number of SOP and regulations develop for the implementation	1	1 -SOP drafted, manage to work closely with PMU direct staff in identifying all activities that have been completed in the implementation plan then continue with the rest of the plan ii) Regulation and Policies will be completed by 2022 iii) establish a new section at the FY2022/23	Ministry of Fisheries, Aquaculture farmers, Aquarium companies, SMAs, and Coastal Communities	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	New Fisheries Science section Aquatic Bio-security will responsible to Finalize SOP, Regulation, and implementation
Output 16: Expanding Special Management Area (SMA) program implementation for coastal communities.					
Number of new SMAs established	5	5 - 5 x new gazette SMA February 2020 -10 x SMA Plan complete -	SMA Communities Ministry of Fisheries SMA donors – VEPA, Pathway to sustainable Ocean Project (World Bank)	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable, good governance and Food Security	1)Recruit more staff.to the SMA section and outer island Improve working together with the communities
Number of new SMAs implemented	7	7			

		<p>4 x Deployed boundary markers of the newly gazetted SMAs in Tonga; 2x Hp: Holopeka & Koulo; 2x TT: Talafo'ou & Makaunga</p> <p>20x signboards Installed; 2x HP: Koulo & Holopeka; 5x Vava'u: Matamaka, 'Otea & Tu'anuku; 5x TBU: Makaunga, Talafoou, Navutoka</p>	<p>SMA Communities</p> <p>Ministry of Fisheries</p> <p>SMA donors – VEPA, Pathway to sustainable Ocean Project (World Bank)</p>	<p>Sustainable economic development</p> <p>Sustainable environment management and resilience to climate change</p> <p>Sustainable, good governance and Food Security</p>	<p>Recruit more staff to the SMA section and outer island</p> <p>Improve working together with the communities</p>
Number of monitoring and evaluation conducted	236	<p>121</p> <ul style="list-style-type: none"> - 28x SMA meetings in TBU - 26x SMA meetings in HP - 28x SMA meetings in VV - 6x SMA meetings in EUA - 88x Quarterly meetings <p>10 x Re-deployment of boundary markers for the SMA Communities; 7x SMAs in TBU: Eueiki, Pangaimotu, Fafa, Fangatapu, Holonga, Makaunga, Ha'atafu; 2x SMAs HP: Faleloa & Pukotala; 2x SMAs in VV: Koloa & Hunga</p> <p>21x SMA signboards installed; 10x VV: Eueiki,</p>	<p>SMA Communities</p> <p>Ministry of Fisheries</p> <p>SMA donors – VEPA, Pathway to sustainable Ocean Project (World Bank)</p>	<p>Sustainable economic development</p> <p>Sustainable environment management and resilience to climate change</p> <p>Sustainable, good governance and Food Security</p>	<p>Recruit more staff to the SMA section and outer island</p> <p>Improve working together with the communities</p>

		<p>Falevai, Hunga, Koloa, Ovaka, Talihau, Ofu, Taunga, Utulei, Utungake; 2x EUA: Futu; 9x TBU: Holonga, Kolonga, Lapaha, Manuka, Nukunuku, Fangatapu</p> <p>2 x Monitoring of FADs (Monitoring of 4 FADs near 'Eueiki and 1 FADs near 'Atata)</p>			
Output 17: Higher standards of training, capacity development, outer island extension and support services, for SMA communities, aquaculture operators, and commercial fishers.					
Number of Training on capacity development conducted	124	<p>317</p> <ul style="list-style-type: none"> - 89 x Tongatapu - 25 x Vava'u - 193 x Ha'apai - 8 x 'Eua - 2 x Niuatoputapu 	<p>Ministry of Fisheries</p> <p>SMA communities</p> <p>Fishermen</p> <p>Pearl/giant clams</p> <p>Farmers</p>	<p>Sustainable economic development</p> <p>Sustainable environment management and resilience to climate change</p> <p>Sustainable and good governance</p>	<p>Recruit more staff to the SMA section and outer island</p> <p>Improve working together with the communities.</p>
Number of Extension services events provided	964	<p>257</p> <ul style="list-style-type: none"> - 81 x Tongatapu - 100 x Vava'u - 23 x Ha'apai - 52 x 'Eua - 1 x Niuatoputapu 	<p>Ministry of Fisheries</p> <p>SMA communities</p> <p>Fishermen</p>	<p>Food security</p> <p>Sustainable economic development at the community level</p>	<p>To improve technical skills and capacity of the Fisheries staff in particular with proper pearl harvesting, grading and carving through further trainings with the ACIAR project consultant in order to assist the pearl farmers to do the work on their own successfully.</p> <p>To improve equipment and facilities in order to assist pearl activities.</p>

					Need to improve financial supports from government in order to assist smoke fish activities throughout the islands in Tonga.
Output 17: Higher standards of training, capacity development, outer island extension and support services, for SMA communities, aquaculture operators, and commercial fishers. (Tongatapu)					
Number of Trainings on capacity development conducted	1	89 (TBU) <u>Inshore (11)</u> - 8 SMA catch data training to newly establish SMA's (2x HP: Koulo & Holopeka; 3x Vava'u: Matamaka, 'Otea & Tu'anuku; 3x TBU: Makaunga, Talafoou, Navutoka) - 2 SMA Data collectors Refreshment training – Tongatapu x2 (Holonga, Kanokupolu, - 1 Creel survey training to MoF staff <u>Community (15)</u> - 7 X Training for deployment of boundary markers for new SMA communities; 2 x VV, 2 x	Ministry of Fisheries SMA communities Small scale fishermen SPC with other regional organization Stakeholders Government Line Ministries General Public	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance Sustainable economic development Sustainable environment management and resilience to climate change	Recruit more staff to the SMA section and outer islands Improve working together with the communities. To improve data collection through staff capacity building. And to encourage and implement electronic reporting for data entry and data submission. To extend Tuna Artisanal data collection to outer islands. To be able to develop Scientific Analysis Reports using R script.

		<p>HP, 3 x TBU.</p> <p>-1 x GPS Training in VV with 8 existing SMAs</p> <p>- 1 x Telecommunication radio training (VV)</p> <p>-4 x small fishing operation (SFO) training in TBU, EUA, HP & VV</p> <p><u>Offshore (32)</u></p> <p>2 x Onboard training with sea captains, FFV agent and new recruits.</p> <p>2 x TAILS training hosted in Tongatapu and 'Eua</p> <p>1 x TUFMAN 2 training with new recruits</p> <p>4 x Mokohunu data collection training. 1 x Ha'apai, 2 x Tongatapu, 1 x Vava'u</p> <p>12 x Fisheries Data Collection Training</p> <p>2 x Stock assessment trainings</p> <p>2 x MCS database refresher trainings</p> <p>2 x OLLO trainings</p> <p>1 x QGIS training</p> <p>NIWA</p>			
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		<p>4 x R- Script Trainings</p> <p><u>Aquaculture (31)</u> 9 Pearl training – 1 x spawning, 2 x hatchery management, 2 x farm management, 2 x seeding, 2 x harvest and 2 data collection.</p> <p>18 Sea cucumber Training: 1 x spawning, 1 hatchery management, 1 x juvenile transfer, 12 farm management, 1 x farm construction, and 3 x data collection on growth & survival sampling technique</p> <p>4 x New Potential species training; 1 x mullet fry collection, 1x shrimp collection, 2 x farm construction (shrimp pond, mullet pen cage)</p>			
Number of Extension services events provided	70	<p>81 (TBU)</p> <p><u>Inshore (20)</u> 20 x Services provided to fishermen (post tsunami emergency response)</p> <p><u>Community (51)</u> 5 x Confirmation Meeting</p>	<p>All villages in Tonga</p> <p>Ministry of Fisheries</p> <p>SMA communities and Interested Communities</p> <p>Related stakeholders</p>	<p>Food security</p> <p>Sustainable economic development in community level</p>	<p>To improve technical skills and capacity of the Fisheries staff in particular with proper pearl harvesting, grading and carving through further trainings with the ACIAR project consultant in order to assist the pearl farmers to do the work on their own successfully.</p> <p>To improve equipment and facilities</p>

		<p>(Fotuha'a, Lotofoa, Fangale'ounga, Fotua, Okoa)</p> <p>4x Meeting with related stakeholders (Meeting with palace office staff (2), and Ports Authority (2))</p> <p>18 x Consultation with Neighbouring communities & relevant stakeholders.</p> <p>20 x Services provided to fishermen (post tsunami emergency response)</p> <p>5x Awareness articles (Kele'a newspaper)</p> <p>5 x Public Notice on radio</p> <p><u>Offshore (262)</u> 262 supporting services provided (fuel scheme logsheets provision, logsheets provision to boat owners, data provision in support of fishers and fish selling programme to public).</p> <p><u>Aquaculture (57)</u> 45 x on pearl oyster, 6 x on giant clam farming technique. 6 x sea cucumber farming</p>	<p>Fishermen</p> <p>Interested Secondary and Primary School</p> <p>Donor partners</p> <p>Skipper of tuna vessels</p> <p>Deepwater snapper fishermen</p> <p>National Fisheries Council</p> <p>NFC women association</p> <p>Pearl and giant clam Farmers</p>		<p>in order the assist pearl activities.</p> <p>Need to improve financial support from the government in order to assist smoke fish activities throughout the islands in Tonga.</p> <p>To improve data quality and timely submission of data for timely decision-making.</p>
Output 17: Higher standards of training, capacity development, outer island extension and support services, for SMA communities, aquaculture operators, and commercial fishers. (Vava'u).					

Number of Trainings on capacity development conducted	1	<ul style="list-style-type: none"> - 1 Small fishing operation training to 6 participants from Hunga SMA, Falevai SMA and Ovaka SMA Community. - 1 GPS Training to 23 participants from Ovaka SMA, Nuapapu SMA, Kapa SMA, Taunga SMA, Olo'ua SMA, Holeva SMA, Makave SMA and Tefisi SMA. - 1 x Telecommunication radio training 23 participants from Ovaka SMA, Nuapapu SMA, Kapa SMA, Taunga SMA, Olo'ua SMA, Holeva SMA, Makave SMA and Tefisi SMA. - 2 Catch data and Compliance Training to Tefisi and 'Oloua. - 1 virtual license database training. - 1 in house compliance training - 1 stock-take giant clam 7 site selection training - 1 seedling training refresher training with pearl farmer including the new farmers as well 	Ministry of Fisheries Farmers SMA communities	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff.to the SMA section and outer island Improve working together with the communities.
Number of Extension services events	20	- 28 SMA Monitoring	Ministry of Fisheries	Sustainable economic	Recruit more staff.to the SMA section and outer island

provided		<p>meetings.</p> <ul style="list-style-type: none"> - 1 CCMP Development meeting (Okoa) - 1 Presentation and Finalization of CCMP (Okoa) - 1 Neighboring consultation with Utui - 2 deployment of boundary markers. - 32 catch data collection from SMA communities. And providing of catch data sheets. - 890 issued home consumption permits - 7 Bottom fishing vessel data collection - 6 fuel scheme certificate exemption - 4 selling subsidized fish to the public. - 1 meeting with pearl council - 473 x enforcement - purchased 2signboards for Matamaka SMA 	<p>Farmers</p> <p>12 existing SMA communities</p>	<p>development</p> <p>Sustainable environment management and resilience to climate change</p> <p>Sustainable and good governance</p>	<p>Improve working together with the communities.</p>
Output 17: Higher standards of training, capacity development, outer island extension, and support services, for SMA communities, aquaculture operators, and commercial fishers. (Ha'apai)					

Number of Trainings on capacity development conducted	1	90 (Ha'apai) 74 x Pearl Farmers checking twice a month (Felemea Community, Selita Lolohea, 'Akata Tonga'onevai, Sione Talanoa Molisi, Sanitini Ofakineiafu, Mele Tongileo. 15 x SMAs Quarterly Monitoring (Felemea,Uiha, Ha'afeva, Kotu, Matuku, `O`ua, Fonoj, Mango, Nomuka, MUITOA, Haano, Pukotala, Fakakakai, Lofanga, Moungaone,) 1 x PMS and Internal Training (staff)	Ministry of Fisheries Farmers 17 existing SMA communities	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff Time management
Number of Extension services events provided	29	47 (Ha'apai) 4 x maintenance of fishing vessel (Fiber painting, maintenance) 2 x net amend 4 x fishing gear techniques 18 x testimonial letters/fish fence license 13 x Enforcement 6 x Monitoring Clams	Fishermen SMA communities	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff. Time management.

Output 17: Higher standards of training, capacity development, outer island extension, and support services, for SMA communities, aquaculture operators, and commercial fishers. ('Eua)					
Number oTraining on capacity development conducted	1	3 ('Eua) 1 x PMS Training and JD Review 1 x MoF Retreat / Planning Week 1 x Artisanal data collection training	Ministry of Fisheries 'Eua Fishermen 'Eua Fishing Council Chairman 3 x SMA Communityy	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff. Time management.
Number of Extension services events provided	0	52 ('Eua) 1 x Socio-Economic Survey 3 x Existing SMA Communities Monthly Monitored & Ongoing in 'Eua = 20 1 x Focus Group Discussion 1 x Compliance Training to SMA Communities 5 x Selling Fish to the Public 2 x Meeting with 'Eua Fishing Council 1 x Artisanal data collection 1 x SMA Catch data	Ministry of Fisheries SMA Communities (Houma and Tufuvai, Futu) 'Eua Fishermen People of 'Eua 2 x SMAs Communities 1 x 'Eua Fishing Council	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff. Time management.

		collection 1x post-eruption fisheries survey			
Output 17: Higher standards of training, capacity development, outer island extension and support services, for SMA communities, aquaculture operators, and commercial fishers. (Niuatoputapu)					
Number of Training on capacity development conducted	1	2 (NTT) <u>Aquaculture (Pearl)</u> 1 x Trial of Pearl 1 x Assessment of new aquaculture Areas.	Ministry of Fisheries SMA communities Fisheries stakeholders Niuatoputapu Fishermen	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff. Time management.
Number of Extension services events provided	0	1 (NTT) Mapping aqua cultural areas.	Ministry of Fisheries SMA communities Fisheries stakeholders Niuatoputapu Fishermen	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff. Time management.
Output 17: Higher standards of training, capacity development, outer island extension, and support services, for SMA communities, aquaculture operators, and commercial fishers. (Niuafu'ou)					
Number of Training on capacity development conducted	0	0 (NFO)	Ministry of Fisheries staff SMA communities Fisheries stakeholders Niuafu'ou Fishermen	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff. Time management.

Number of Extension services events provided	0	0	Ministry of Fisheries staff SMA communities Fisheries stakeholders Niufo'ou Fishermen	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Newly recruited officer during the hard lock-down Need a proper training on Fisheries related matters
Output 18: Increasingly focused offshore and inshore fishery resource research, monitoring, and assessment to support decision-making.					
Inshore					
Number of assessments of key inshore and offshore fisheries resources.)	5	5 1 x Creel survey 1 x Market survey 1 x SMA catch data	Ministry of Fisheries SMAs communities <u>SMA's Donors</u> VEPA (NGO's) R2R Projects Government of Tonga	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance	Recruit more staff. Time management.
Number of Scientific and data reports and information submitted to national, regional and international bodies	12	6 1 x Data and graphics for Creel survey 1 x Data and graphics for Market survey 1 x Data and graphics for SMA Catch Data	Sea cucumber farmer Ministry of Fisheries staff Government of Tonga SMA's data collector	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good	Recruit more staff

			and SMA communities	governance, Food Security	
Output 18: Increasingly focused offshore and inshore fishery resource research, monitoring, and assessment to support decision-making.					
Offshore					
Number of assessments of key inshore and offshore fisheries resources.)	5	5 <u>Offshore assessment</u> <ul style="list-style-type: none"> - Tuna assessment - Snapper assessment - Squid assessment - Artisanal assessment - Biological assessment 	Ministry of Fisheries SPC/ FFA & WCPFC Fisheries stakeholders (fishing companies & fishermen) Offshore fisheries (Tuna, Deep Water Snapper, Bluenose, and deep-water squid) Government of Tonga	Sustainable economic development Sustainable environment management and resilience to climate change Sustainable and good governance, Food Security	SPC training on ONSHORE & ONBOARD system, and TAILS application for data collection (tuna port sampling & artisanal respectively) 100% coverage E reporting of Logsheets, unloading and port-sampling data from all commercial vessels. Implement TAILS data collection in Tongatapu and Ha'apai. Development of Squid Fishery. Bait fishing trials under the NIWA project
Number of Scientific and data reports and information submitted to national, regional and international bodies	6	6 Annual and Quarterly reports of stock status for snapper, tuna, deep water squid and artisanal fishery (4)	Ministry of Fisheries SPC/ FFA & WCPFC Fisheries stakeholder (fishing companies & fishermen)	Sustainable economic development. Sustainable environment management and resilience to climate change.	Training needs: <ul style="list-style-type: none"> i. R training for data analysis reports ii. Quantum GIS mapping iii. Biological data analysis Generate of quarterly report for tuna

		<ul style="list-style-type: none"> - Tuna fisheries reports - Snapper fisheries reports - Artisanal assessment report - Squid fisheries reports - Annual report submitted to regional and international bodies in accordance with deadlines (2) <p>Annual Report Part 1</p> <p>Annual Catch Estimates to WCPFC and SPC.</p>	<p>Offshore fisheries (Tuna, Deep Water Snapper, Bluenose and deep-water squid)</p> <p>Government of Tonga</p>	<p>Sustainable and good governance.</p> <p>Food Security</p>	and snapper stock status using R.
Output 19: Improving the integrity and accuracy of fisheries data collection and management systems, for sound policy development, better decision-making, and responsible fisheries management.					
Number of Existing Databases managed, monitored, reviewed and new databases developed.	<p>22</p> <p>4</p>	<p>24</p> <p>9 Local databases</p> <p>14 Regional systems</p> <p>1 new database developed</p> <p>4</p> <p>Conducted 4 Data working group meetings</p> <p>2</p> <p>Stakeholder feedback consultations</p>	<p>Ministry of Fisheries</p> <p>Regional agency's</p> <p>Government Line Ministry's</p> <p>Stakeholders</p> <p>Researchers</p>	<p>Sustainable economic development.</p> <p>Sustainable environment management and resilience to climate change.</p> <p>Sustainable and good governance.</p>	<p>Continue developing more systems to accommodate new fishing activities.</p> <p>Maintained all data systems.</p> <p>Migration of local to online systems</p> <p>Implementing more ER tools</p> <p>More data feedback consultations with stakeholders.</p>

Catch Performance by Fishery

Tuna Fishery

Table 6: The total catch (mt) estimates for the National Fleets (Tonga flagged longline vessels), for the period July 2021 to June 2022

Flag	YY	MM	ALB	BET	BLM	BUM	DOL	GBA	SFA	MAK	PBF	BAC	SSP	SMA	SKJ	MLS	SWO	WAH	YFT	Grand Total (MT)
TO	2021	Jul	0.6	1.2	0.0	2.3	0.8	0.0	0.3	0.2			0.1	0.1	0.0	0.2	1.0	0.2	3.9	10.9
		Aug	1.2	1.3		5.0	3.6	0.0	1.1	0.2			0.7	0.4	0.0	0.8	0.9	0.7	11.6	27.4
		Sep	0.7	1.8		6.3	3.5	0.0	0.5				0.4	0.2	0.1	1.1	1.2	0.3	8.7	24.9
		Oct	0.9	1.1		3.8	1.4	0.0	0.6	0.1			0.1	0.1	0.0	5.0	0.8	0.4	13.6	27.9
		Nov	0.5	0.3		1.0	0.8	0.0	0.3	0.1			0.0	0.1	0.0	1.2	0.1	0.4	9.4	14.3
		Dec	0.2	0.3		2.0	1.0	0.0	0.2	0.2			0.0	0.0		0.9	0.8	0.8	31.8	38.2
	2022	Jan	0.2	0.4	2.7		1.3	0.0	0.2	0.1			0.0	0.0		0.2	0.1	0.6	28.4	34.1
		Feb	0.1	0.6	0.8		0.8	0.0	0.1							0.1	0.1	0.2	11.9	14.5
		Mar	0.6	1.5	2.8		0.8	0.0	0.3				0.0			0.2	0.4	0.1	7.7	14.2
		Apr	1.0	5.9	1.5		0.7	0.0	0.2		0.1		0.0	0.0			1.2	0.1	8.7	19.4
		May	2.4	2.1	1.2		2.6	0.0	0.7	0.1		0.0	1.4	0.2	1.2	2.6	0.2	0.3	11.3	26.4
		Jun	3.4	2.1	0.8		3.2		0.2	0.3			0.8	0.0	0.0	0.4	0.8	0.3	8.6	20.9
TOTAL SPECIES			11.8	18.7	9.6	20.4	20.6	0.2	4.7	1.2	0.1	0.0	3.5	1.1	1.4	12.6	7.5	4.3	155.4	273.1

Table 7: The total catch (mt) estimates for the Foreign Fishing Vessels, for the period July 2021 to June 2022.

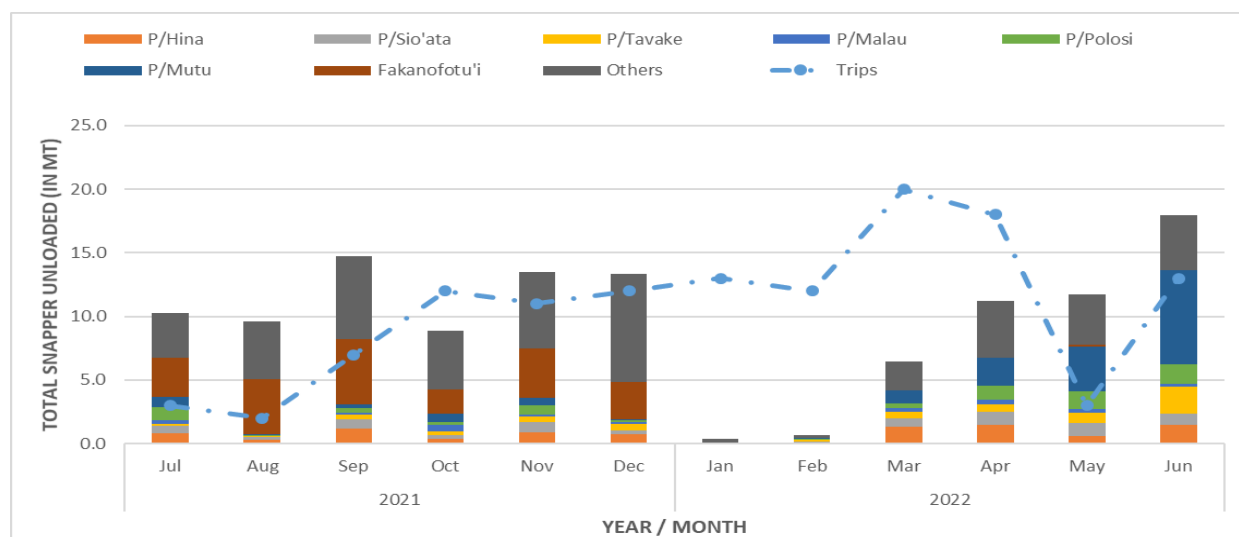
FLAG	YY	MM	ALB	BET	BLM	BUM	BSH	DOL	SPN	SFA	MAKO SHARKS	OCS	LAG	OTH	SSP	SMA	SKJ	MLS	SWO	WAH	YFT	Grand Total (MT)
FFV	2021	Jul	64.3	9.3	0.8	4.6	3.7	0.5		0.8	1.1	3.2		0.1	2.0	0.1	3.5	1.8	1.0	5.1	30.9	132.6
		Aug	89.0	8.0	1.1	4.7	2.8	0.4	0.2	0.6	0.5	1.6	0.1	0.2	1.2	0.5	6.7	1.7	0.5	4.3	25.8	149.8
		Sep	66.3	12.2	1.4	2.9	1.3	0.7		0.5	0.0	2.3		0.0	1.3	0.3	3.4	4.2	1.4	3.0	25.9	127.2
		Oct	65.5	9.7	1.3	3.8	2.7	0.6		0.2	0.2	3.2			0.6		1.5	4.9	0.3	2.9	30.4	127.7
		Nov	30.7	4.0	0.4	2.8	3.5	0.2		0.1	0.3	2.6			0.6	0.2	1.6	4.0	1.6	1.8	11.1	65.5
		Dec	41.5	6.6		3.5	2.8	0.3		0.2	0.8	1.8			0.1	0.2	0.5	1.2	1.1	1.4	15.3	77.3
	2022	Jan	16.3	2.8		4.8	2.8	0.0		0.1	0.1	0.6			0.2		0.3	0.2	0.1	1.3	12.7	42.4
		Feb	18.9	1.7	0.1	3.0	2.1	0.0		0.0	0.1	0.3			0.1		0.1	0.1	0.4	0.7	8.8	36.4
		Mar	32.2	2.6		3.6	2.4	0.1		0.2	0.1	0.7			0.3		0.6	0.1	0.2	1.2	24.9	69.2
		Apr	28.2	2.5		2.9	1.4	0.2		0.1	0.1	0.4			0.2		0.3	0.3	0.2	0.9	30.4	68.1
		May	37.3	3.7		1.6	1.8	0.4		0.1	0.1	0.7			0.5		4.7	0.6	0.2	1.3	26.5	79.4
		Jun	24.6	3.2		0.5	2.5	0.6		0.2	0.1	0.9			0.5		0.8	0.5	0.2	0.5	18.8	53.9
TOTAL SPECIES			514.7	66.4	5.0	38.8	29.6	4.1	0.2	2.9	3.4	18.3	0.1	0.3	7.5	1.2	24.1	19.6	7.2	24.4	261.5	1029.4

Deepwater Snapper Fishery

Table 8: Total monthly catches of main Deepwater snapper species and bycatch, for the period of July 2021 – June 2022.

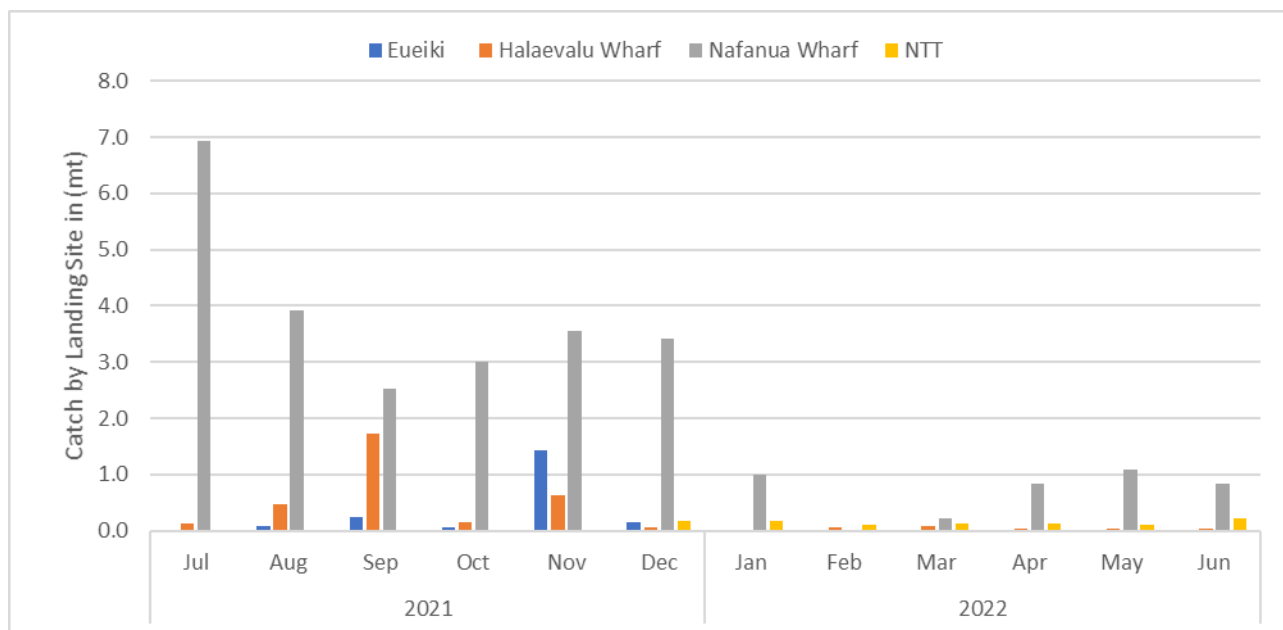
YY	MM	Trips	P/Hina	P/Sio'ata	P/Tavake	P/Malau	P/Polosi	P/Mutu	Fakanofotu'i	Others	Monthly Total
2021	Jul	3	0.8	0.6	0.2	0.3	1.0	0.9	3.0	3.5	10.3
	Aug	2	0.3	0.2	0.1	0.0	0.0	0.1	4.3	4.6	9.6
	Sep	7	1.2	0.8	0.3	0.2	0.4	0.3	5.1	6.5	14.7
	Oct	12	0.4	0.3	0.3	0.5	0.3	0.6	1.9	4.6	8.9
	Nov	11	0.9	0.8	0.5	0.1	0.7	0.6	3.9	6.0	13.5
	Dec	12	0.8	0.3	0.5	0.2	0.1	0.1	2.9	8.6	13.4
2022	Jan	13	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.4
	Feb	12	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.3	0.7
	Mar	20	1.3	0.6	0.6	0.3	0.3	1.0	0.0	2.3	6.5
	Apr	18	1.5	1.0	0.6	0.3	1.1	2.2	0.0	4.5	11.2
	May	3	0.6	1.0	0.8	0.3	1.4	3.6	0.1	4.0	11.8
	Jun	13	1.5	0.9	2.1	0.2	1.6	7.4	0.0	4.3	18.0
Total Species		126	9.4	6.5	6.0	2.5	6.9	16.9	21.1	49.5	118.8

Figure 9: Monthly total catches (in metric tons) for main deep-water snapper species and number of trips per month for the periods from July 2021 to June 2022.



Artisanal Fisheries

Figure 9: Monthly catch for artisanal fisheries by landing site (Halaevalu wharf, Vava'u and Nafanua wharf, 'Eua and Niutatoputapu) for the period of Jul 2021 – Jun 2022.



Squid Fisheries

Table 9: Total catch (in kg) and for Diamond Back (DBS_W) and Neon Flying (NFS_W) squid for 2021/22 FY.

YY	MM	DBNo	DBW	NFNo	NFW	Total (KGS)
2021	JUL	1	106	4	11.6	122.6
2022	APR	3	33.5	5	19.5	53
	MAY	8	127.6	15	71.3	198.9
	JUN	20	339.2	46	213.5	552.7
	TOTAL	32	606.3	70	315.9	927.2

Aquaculture section

Figure 10: Install and transfer sea cucumber juveniles and stock to cages at SMA communities. Sandfish juveniles thrive in their new natural environmental condition.



Table 10: Sea Cucumber Juveniles at SMA farms

SMA Communities	Number of juveniles	Size (Length)
Fangatapu – (Trial)	100	5.4
Pangai (Haapai) – (Trial)	100	4.8
Hihifo (Ha’apai) – (Trial)	100	5.1
Talafoou	1500	2.02 cm
Manuka	1500	2.02 cm
Nukuleka	1500	2.02 cm
Pangaimotu (Tongatapu)	2000	2.5 cm
Koloa (Vava’u)	1500	2.48cm
Makave (Vava’u)	1500	2.41 cm

Trial Farming of Prawns and Mullet fish

Figure 11: Construction of fish pond for measurement and stocking of prawns



Figure 12: Install and construction of fixed and floating cages for mullet farm



Table 11: Mullet fish and Shrimp juveniles' stock into cages

Species	Stock Density (Juveniles)	Size (Body length)
Mullet fish	564	12.5 cm
Shrimp	631	6.33 cm

Pearl Farm

Table 12: Number of Pearl farmers

Number of Pearl Farm established in Tonga						
Owner	Active/ Not Active	Tongatapu	Vava'u	Ha'apai	Niua Toputapu	Total by Owner
Private	Active	1	20	7	-	28

Farmer	Not Active	1	-	-	-	1
Ministry of Fisheries	Active	5	3	1	1	10
	Not Active	-	-	-	-	0
Total by Region		6	23	8	1	38

Community Section

Figure 13: Small Fishing Operation (SFO) refresher training to SMA communities in Ha'apai & Vava'u.



Inshore section

Creel survey

Table 13: Common fish families fished in Tongatapu landing sites.

Family	Nb samples	Avg size (cm)
Scaridae	1312	26.3
Acanthuridae	1162	22.7
Siganidae	635	19.6
Mullidae	233	24.8
Lethrinidae	221	25.4
Carangidae	138	26.0
Palinuridae	128	11.3
Holocentridae	112	20.5

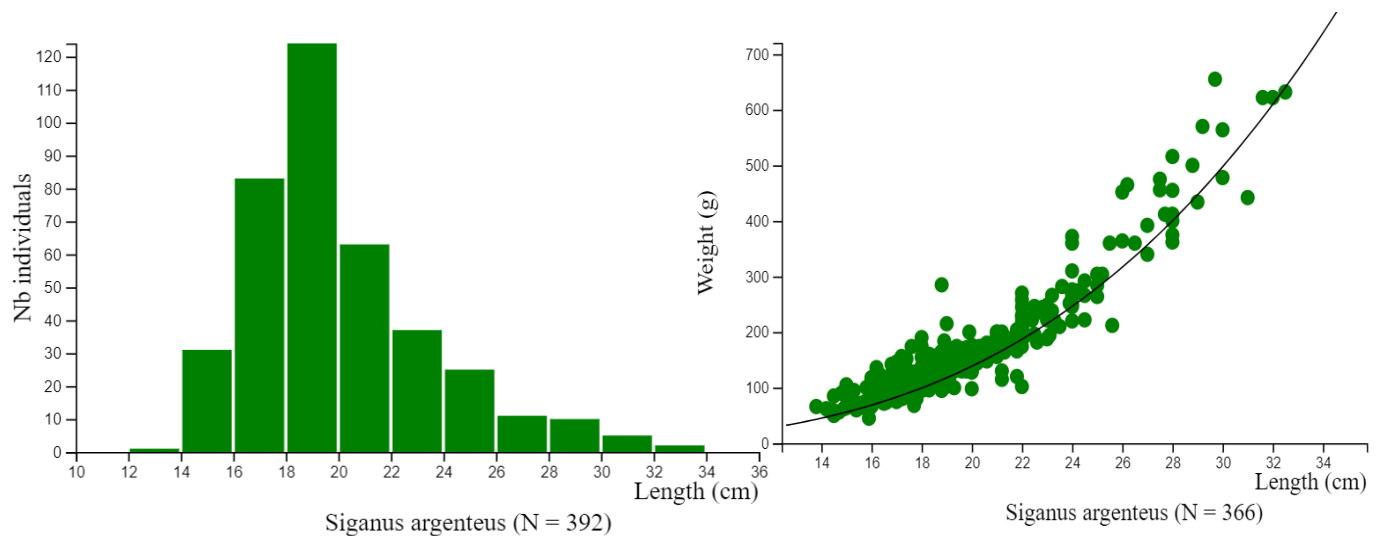
Family	Nb samples	Avg size (cm)
Kyphosidae	36	27.2
Serranidae	36	29.5
Labridae	35	27.8
Loliginidae	24	11.6
Lutjanidae	15	25.3
Haemulidae	11	31.1
Diodontidae	9	52.8
Octopodidae	8	22.6
Scyllaridae	8	18.0
Tetraodontidae	8	27.1
Priacanthidae	7	25.8
Muraenidae	7	91.4

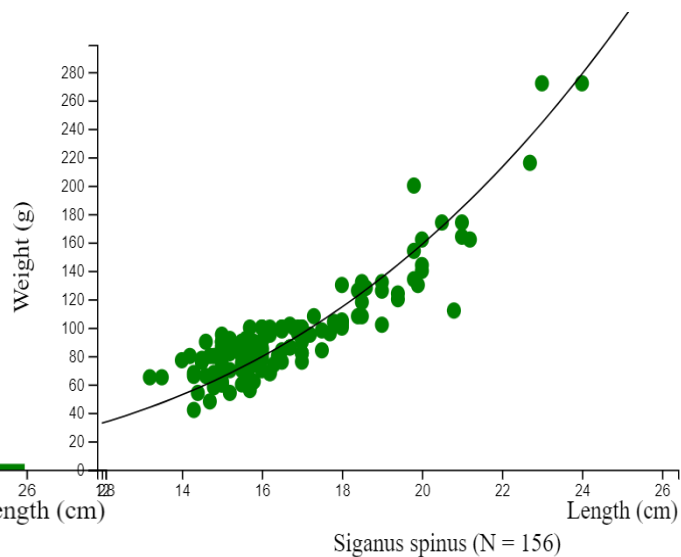
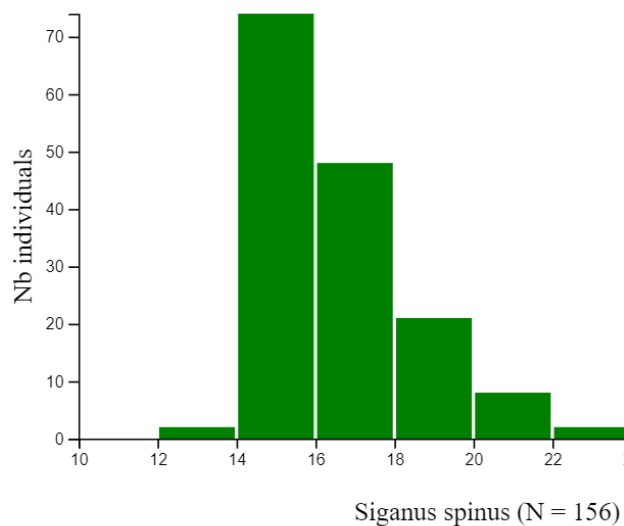
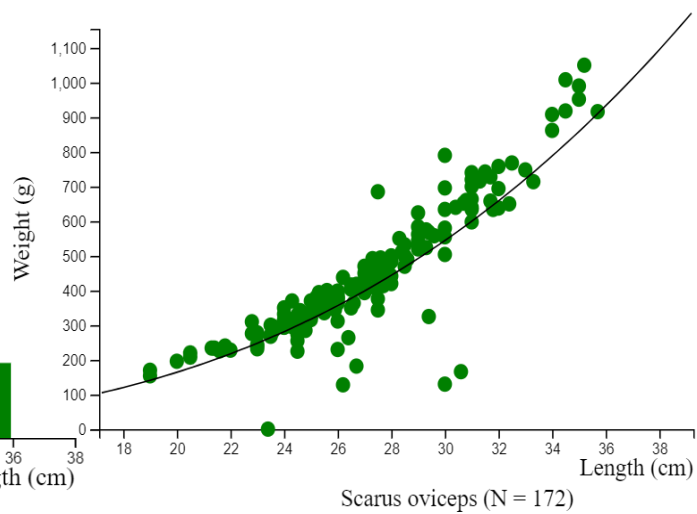
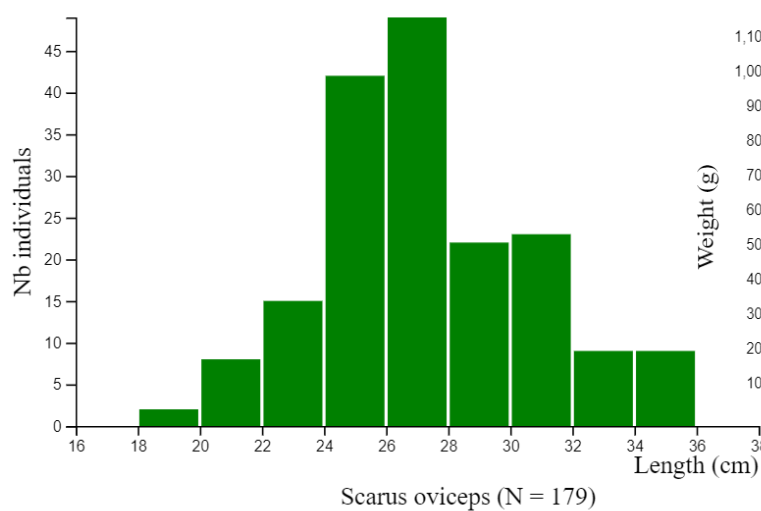
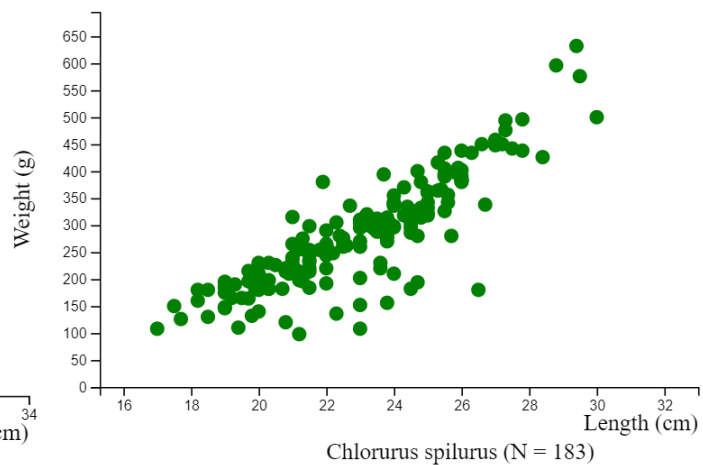
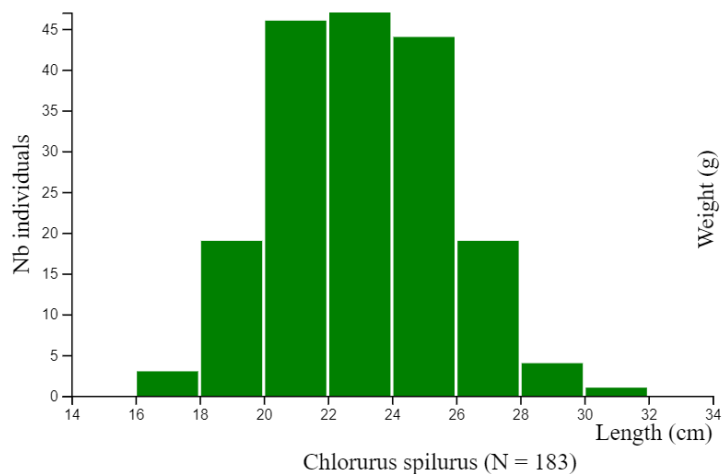
Table 14: Common species fished in Tongatapu landing sites.

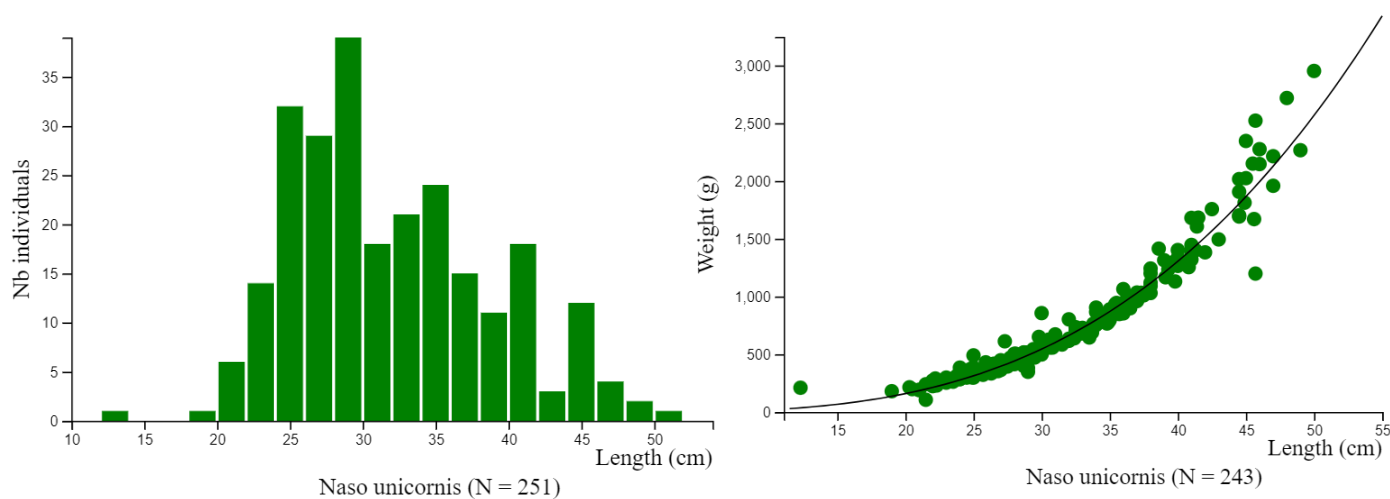
Species	Nb samples	Avg size (cm)
<i>Siganus argenteus</i>	392	19.8
<i>Ctenochaetus striatus</i>	385	17.8
<i>Acanthurus lineatus</i>	328	20.1
<i>Naso unicornis</i>	251	32.1
<i>Chlorurus spilurus</i>	183	22.9
<i>Scarus oviceps</i>	179	27.1
<i>Siganus spinus</i>	156	16.5
<i>Selar crumenophthalmus</i>	134	25.8
<i>Scarus globiceps</i>	124	22.8
<i>Scarus schlegeli</i>	113	25.1
<i>Parupeneus barberinus</i>	91	25.9

Species	Nb samples	Avg size (cm)
<i>Siganus punctatus</i>	85	24.2
<i>Scarus frenatus</i>	83	27.5
<i>Sargocentron spiniferum</i>	80	21.2
<i>Lethrinus harak</i>	80	24.2
<i>Scarus altipinnis</i>	79	32.3
<i>Chlorurus japanensis</i>	77	23.0
<i>Calotomus carolinus</i>	73	31.0
<i>Scarus rivulatus</i>	69	27.6
<i>Naso lituratus</i>	68	23.0

Figure 14: Size distribution and size to weight relationship graph for top 5 most fished species.

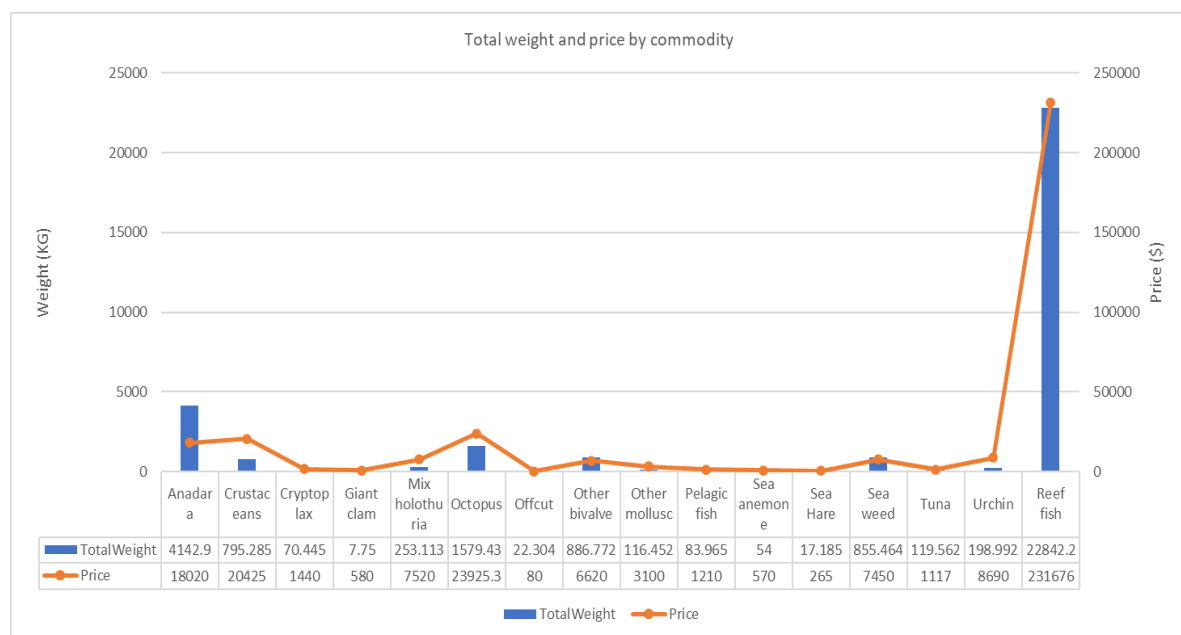






Market survey

Figure 15: Total weight and price by commodity sold by vendors



SMA catch data

Table 16: SMA catch data submitted to the main office

		2021							2022					
Region	SMA community	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Feb	Mar	Apr	May	Jun	Jul
Ha'apai	Felemea	x				x	x		x	x	x	x	x	
	Fonoifua		x	x	x									
	Ha’ano			x	x									
	Ha'afeva				x									
	Kelelesia		x											
	Kotu	x	x	x	x	x								

	Mango		x	x	x									
	Matuku	x												
	Mo'unga'one						x							
	Muitoa	x	x				x							
	Nomuka	x	x	x	x	x	x							
	'O'ua	x	x			x	x						x	x
	Pukotala						x							
Tongatapu	Tonumea	x	x	x	x									
	'Eueiki	x	x	x	x	x	x							
	Ha'atafu	x	x											
	Holonga						x			x	x	x	x	
	Kolonga	x	x	x	x	x								
	Manuka			x	x									
	Nukuleka									x	x			
Vava'u	Falevai	x		x	x	x	x	x				x	x	
	Hunga					x	x							
	Kapa	x		x	x	x	x				x	x	x	
	Koloa		x											
	Lape					x	x							
	Makave	x		x	x	x							x	x
	Ofu				x									
	Ovaka		x	x	x	x	x			x	x	x	x	

Figure 15: Fish family composition fished by SMA communities

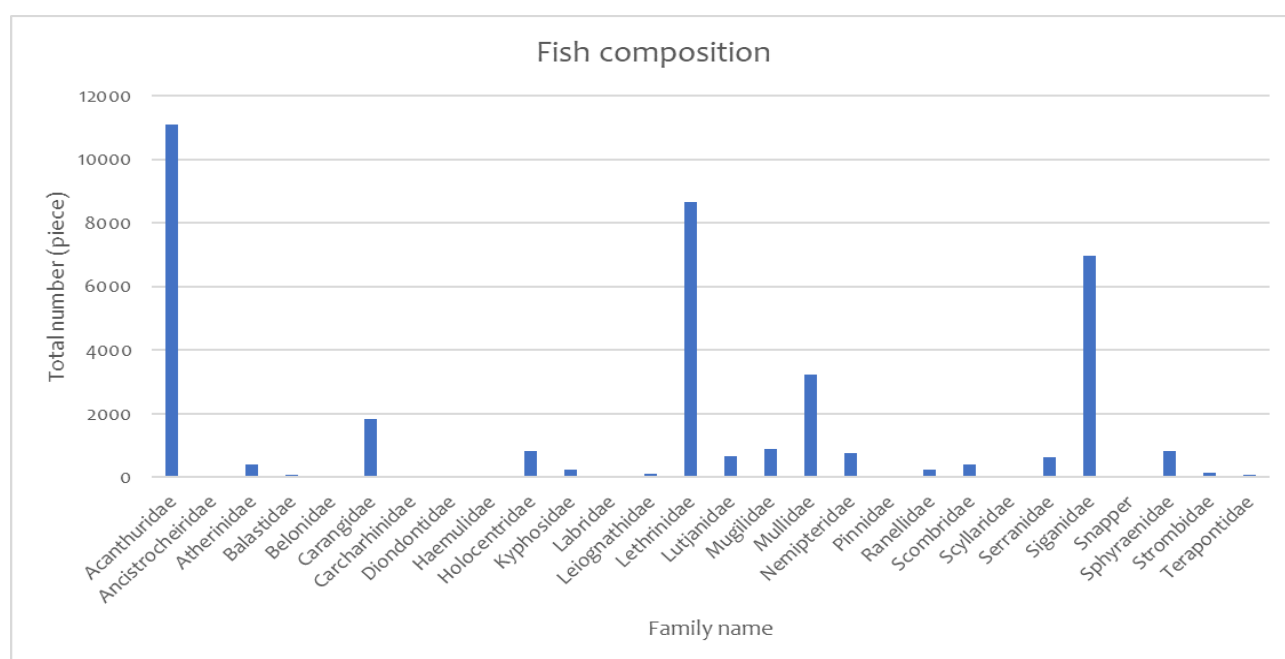


Figure 16: Invertebrate composition fished by SMA communities

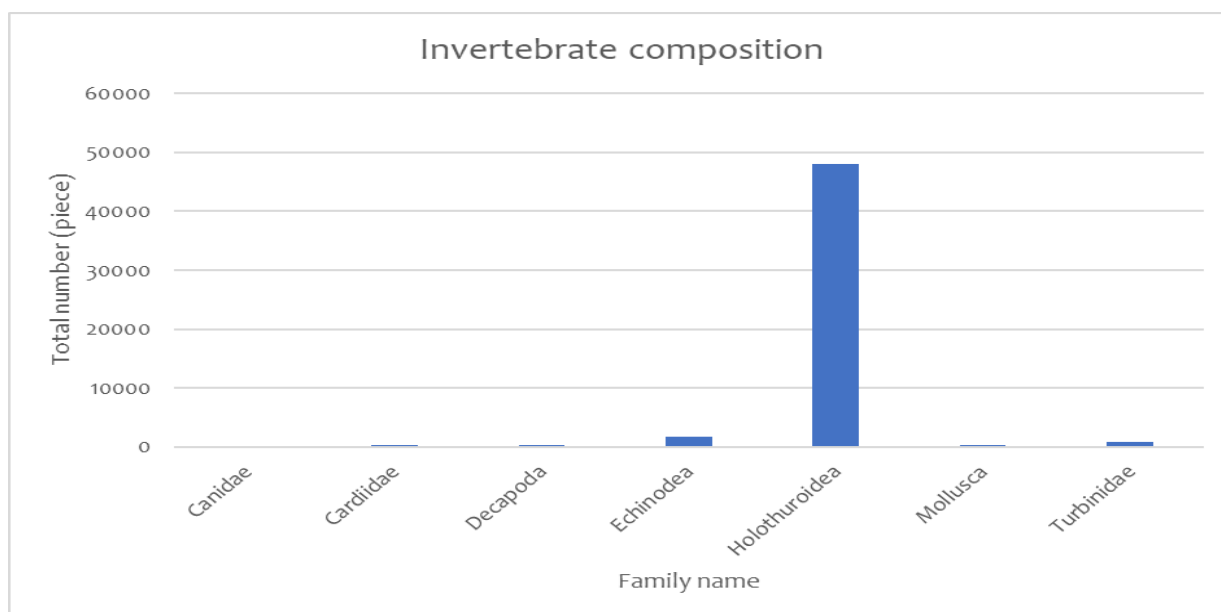
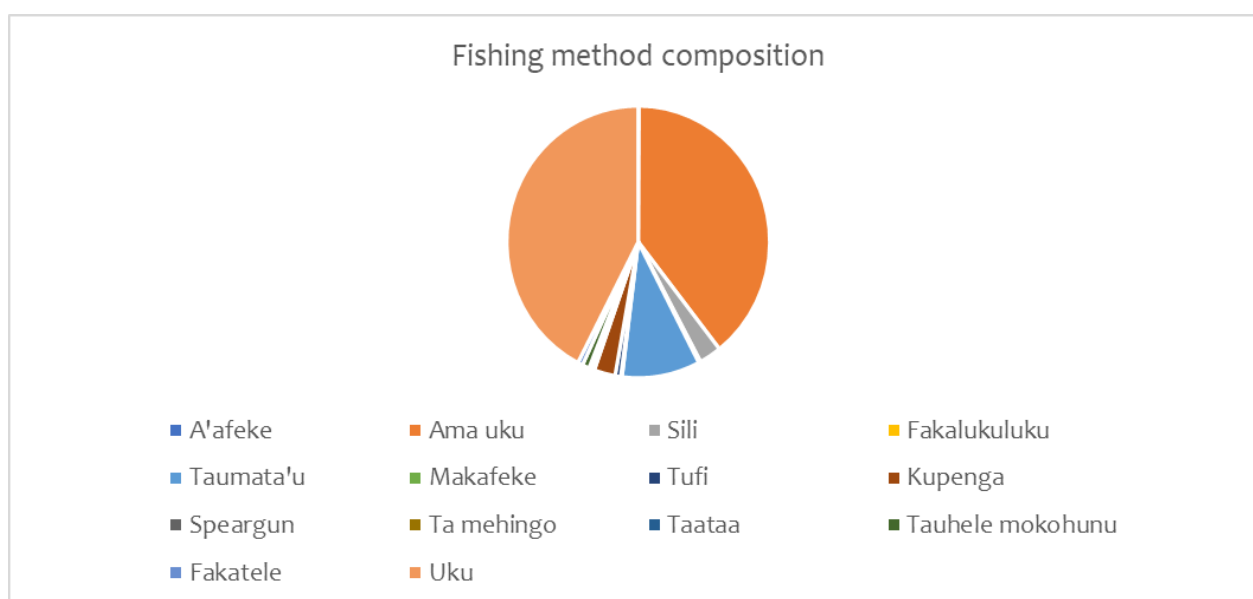


Figure 17: Fishing method composition



Royal Agriculture and Fisheries, Tourism and Trade (RAFTT) 2021/22

The Royal Agriculture and Fisheries show for this financial year was cancelled due to the covid-19 pandemic.

2.2.6 Fisheries Compliance Division

TSDF II Outcomes <i>A: A more inclusive, sustainable and dynamic, knowledge-based economy.</i> <i>D: More inclusive, sustainable and responsive good governance with strengthened rule of law.</i> <i>F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.</i>					
Key Performance Indicators (KPIs)	Targets	Achievements (based on the targets and KPIs.)	Beneficiaries	Cross cutting implications	Future plans
20: Efficient and effective compliance and enforcement services with regulatory programs that deter Illegal, Unreported and Unregulated (IUU) fishing.					
Number of policies and strategies develop and review Annually.	7	10 <ul style="list-style-type: none"> ➤ Develop and approve SOP for sea cucumber harvest and processing. ➤ Scoping Catch Documentation Schemes SOP with FFA. ➤ Draft National SOP for Port State Measure with MPI. ➤ Develop SMA Compliance manual with FAO assistance. ➤ Develop SOP for 	Ministry of Fisheries, Police, HMAF (Navy), Customs Department, Port Authority, Marine Department.	<p>Failure of staff to follow the standard of procedure when investigating illegal fishing, boarding a vessel, and play their role as authorized officer.</p> <p>Lack of providing accurate and timely information hence keeping good records on activities being done and what is left to be done and improved.</p> <p>Lack of ability and confidence to face challenges in field and operation work.</p> <p>COVID 19 affects a few policies that have been planned to develop and review.</p> <p>Lack of coordination within the line Ministries on implemented</p>	<p>Involved all the FCD staff including the outer island in developing of the MCS Policies so that they understand the policy.</p> <p>Increasing training on MCS policies and SOP's</p> <p>Encourage staff participation in developing policies</p> <p>Hire more technical expertise on MCS areas to assist FCD.</p>

		<p>Fish fence and its related forms for inspection.</p> <ul style="list-style-type: none"> ➤ Drafting the National MCS Strategy with FFA ➤ Reviewing the Guidelines for Handling Fisheries Infringements in Tonga within EEZ, high seas and other EEZ ➤ Develop the Covid-19 Operating Protocol in Port in Tonga ➤ Review SOP for Niue Treaty Subsidiary Agreement for approval ➤ Develop pre inspection form for fishing vessel and small fishing boat 		<p>MCS policies</p> <p>Lack of capacity to develop and implement the new MCS system that is required by regional CDS.</p>	
Number of activities conducted (boarding and inspection licensed fishing vessels, sea cucumber harvest, process and export, size limit for all protected species, fish fence, aquarium, export	452	<p>447</p> <p>176 Boarding and inspections of fishing vessels</p> <p>80 fish fence inspection</p>	Ministry of Fisheries, Ministry of Police, Fishing vessels owner/masters, Tonga Navy (HMAF), Aquarium companies, FFA, SPC, Ngatai Fishing Company,	<p>Inconsistency of boarding and inspection due to lack of communication between the boat owner and the FCD Team especially snapper fisheries.</p> <p>Insufficient fund in the budget to conduct the enforcement (land</p>	Every case brought into the attention of the division should be considered and prioritize whether it is a low/medium risk or high-risk offense, so that decision and enforcement act apply to the case is reasonable and managed accordingly in terms of prosecution

and fish processing) and also enforcement fisheries law and regulation according to SOPs.		<p>51 aquarium inspections</p> <p>123 enforcements conducted.</p> <p>7 Joint operation with Police Maritime</p> <p>Participated in 10 National MCC operations for IUU fishing.</p> <p>Tonga participated in 2 regional surveillance operations (Ikamoana, and Tu'imoana).</p> <p>FCD has been dealing with many illegal cases where some cases were taken up to court and some were settled by our internal process according to FMA 2002.</p> <ul style="list-style-type: none"> ➤ 4 illegal fishing of sea cucumbers. ➤ 2 illegal harvests of turtle meat ➤ 2 illegal selling clam meat without certified by an 	Fishing Industries.	<p>and sea)</p> <p>Shortage of staff to cover the compliance inspection.</p> <p>Need additional staff to do the investigation on debriefer report on all Gen 3 report</p> <p>Tonga needs to work closely with FFA to address our national requirement on the RIMF data system</p>	<p>or official warning.</p> <p>Closely collaborate with related Ministries and related agencies especially the donors from overseas who funded patrols and aerial surveillance.</p> <p>Increase the budget allocation to financial support the Joint operation planned for combatting the IUU Fishing in Tonga.</p>
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		<p>authorized officer</p> <p>Outcome: -</p> <p>➤ 3 cases are still awaiting the delivery of the magistrate's/Judge's judgements.</p> <p>➤ 3 cases have been found guilty and the suspect was sentenced to pay a fine with the amount of T\$15000 for turtle meat, and T\$1900.00 for harvest sea cucumbers and another T\$5000.00 for the illegal harvest of sea cucumbers.</p> <p>Participated in Compliance training with Attorney General Office training on Fisheries Law and enforcement</p> <p>Conducted compliance operation on illegal harvesting of sea cucumber in Tongatapu and Nomuka, Ha'apai</p> <p>Conducted</p>			
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		<p>compliance training for fisheries staff and briefed the sea cucumber license holders on sea cucumber terms and conditions and SOP for sea cucumber</p> <p>FCD conducted a few trainings within Tonga Island as follows:</p> <ul style="list-style-type: none"> ➤ PMU Compliance Lead Training ➤ Compliance training with 9 SMA Communities in Tongatapu, 3 SMA's in 'Eua, 12 SMA's in Ha'apai, and 13 SMA's in Vava'u. ➤ Participated in Electronic Monitoring training with NORMA, Federal State of Micronesia. 			
Number of trainings and workshop conducted. (MCS training and strengthen voluntary compliance tool and initiatives relating to community awareness,	70	<p>18 MSC trainings</p> <p>Training on compliance SOP for sea cucumber harvesting and processing for fisheries staff</p>	FFA, WCPFC, NOAA, Flag States, Ministry of Fisheries, License vessel operators, fish processing and export license, Tonga Navy (HMAF), Customs	<p>No Bilateral Agreement with flag States (China/Fiji) on enforcing the PSMA causes the foreign vessels to fall back in compliance with license Term and Conditions.</p> <p>Lack of coordination within line ministries on implementation of</p>	<p>Consistent reminder to fisheries licensee regarding their license expiration date to be renewed before their fisheries activities.</p> <p>Increasing public awareness on agreement and treaties that</p>

trainings, enforcement detection and penalty.		<p>including outer island</p> <p>SMA training to Talafo'ou and Pangaimotu communities</p> <p>Training on Covid 19 – MCS tools with FFA</p> <p>ER/EM Workshop with FFA</p> <p>Participated on TCC Meeting with WCPFC</p> <p>HACCP - Competence authority training with FFA</p> <p>Conservation Management Measure Training funded with World Bank</p> <p>PSMA Training with Vava'u Task Force Team. and established PSMA Task force Team with the line ministries</p> <p>Dockside Boarding and Inspection Training with FFA and MPI</p> <p>Attending the FFC Meeting with FFA</p>	<p>Department, Port Authority, Police Department, Ministry of Marine</p>	<p>the treaties</p> <p>Few FCD planned training approved to conduct was cancel due to Covid 19 and Volcanic eruption.</p> <p>Poor internet connectivity during the lockdown and volcanic eruption posed a significant challenge. As a result, participants were unable to fully participate in the training via Zoom.</p>	<p>approved to implement.</p> <p>Increasing training on MCS policies and SOP's</p> <p>Develop an integrated national system for all PSMA parties for sharing information</p>
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		<p>Niue Treaty Subsidiary Agreement (NTSA/Agreement) Workshop.</p> <p>Port Monitoring and CDS workshop with FFA</p> <p>7th Regional Information Management System (RIMS7) workshop.</p> <p>25th MCS WORKING GROUP Virtual Meeting</p> <p>The Third Electronic Monitoring Workshop</p> <p>Bojack training with FFA</p> <p>FAO technical consultation on voluntary guideline for transshipment Virtual meeting with FAO</p> <p>Attend the Special Session of the Commission to discuss the Covid-19 decision relating to PS observers and sea transshipment</p>			
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Number of meetings conducted. (Ministries and national coordination of fisheries operations (MCC))	6	11 8 x Monthly meeting with MCC on updating the status of implementation the national covid plan Reported the FFV Hsinlong No. 6 for VMS disturbance Meeting with MCC regarding the case of observer death MCC meeting on Reported vessels (Pacific Sunrise, Pacific Dawn) departed without inspection	Ministry of Fisheries, Custom Department, Marine Department, Navy, Police Department, Fishery License Holders, Fisheries Stakeholders, Local fishermen	Fisheries licensee(s) not complying with such items on the license's terms and conditions, thereby delaying processing the license's renewal. COVID-19 restrictions discourage the foreign fishing vessel renewal their license Too much paper work during the covid 19 Conflict of authority between the line ministries during lockdown prolong the license process and allowing in and out of fishing vessels	Draft SOP for each fishery license to allow consistent monitoring of inactive licensee(s) and efficient enforcement of such items on terms and conditions consistently to allow fair decision upon breaching any of them
Number of measures being implemented. (Regional and international agreements, treaties in which Tonga is party to: Port State Measures Agreement (FAO), develop a national standard to meet WCPFC conservation measure, FFA regional MCS strategies and other treaties (e.g. NTSA), Implement the Tonga National)	5	6 3 x Meeting with Maritime Security Committee on boarder control – Covid -19 Assisting MPI on drafting the National SOP for PSMA Due Tonga Part 2 Report to the Commission Implementation of	Ministry of Fisheries, Custom Department, Marine Department, Navy, Police Department, Port Authority, Fishery License Holders, Fisheries Stakeholders Local fishermen	Requests are sent in to complete within 24 hours instead of the standard three (3) working days protocol. Mainly late submission of export packing lists COVID-19 restrictions	Draft SOP for each fishery license to allow consistent monitoring of inactive licensee(s) and efficient enforcement of such items on terms and conditions consistently to allow fair decision upon breaching any of them Introduce e-permitting

		the PSMA, NTSA and NPOA IUU is ongoing.			
Output 21: Provide a cost-effective way for licensing services as a legal mechanism to control Illegal, Unreported, and Unregulated (IUU) fishing					
Number of databases/SOPs developed	5	1	Ministry of Fisheries, License holders	Inconsistency of fishery license holders to follow the process before the approval of their license. Home consumption database to be updated	Develop SOP to guide all the relevant activities of the Licensing Section An ongoing update of the database
Number of licenses issued	80	72	Ministry of Fisheries, Government of Tonga from revenue from licensing fees, Vessel owners, and operators	Target slightly not achieved due to the effect of Covid-19 restrictions.	Encourage foreign fishing vessels to license as local fishing vessels to make sure their catch is counted in the GDP of Tonga.
Number of certificates/permits issued	150	294	Ministry of Fisheries, Government of Tonga from revenue from licensing fees, Vessel owners, and operators	Target was exceeded even though COVID 19 affect the kingdom	Promote different fisheries not only the snapper, tuna, and squid but encourage aquaculture to help in the uplifting social and economic standards of everyone
Number of permits issued	1000	4411	Ministry of Fisheries, Government of Tonga from revenue from licensing fees, Vessel owners, and operators	Target was exceeded even though COVID 19 affect the kingdom	Limitation of exporting through the freezing container.
Percentage of activities being implemented. (Convention of International Trade and Endangered Species	30	28%	Ministry of Fisheries, Government of Tonga from revenue from CITES permit. The government of Tonga will benefit	Target slightly not achieved due to the effect of Covid-19 restrictions.	All activities to implement CITES was transferred to the Fisheries Science Division (FSD) in the last six(6) months of the financial year.

(CITES), Aquatic Biosecurity & HACCP Plan)			from the conservation of the CITES species.		
Output 22: Increasingly targeted Monitoring, Control & Surveillance (MCS) program for international and domestic fishing activities to deter Illegal, Unreported, and Unregulated (IUU) fishing.					
Number of observer deployment	62	47	Ministry of Fisheries (Government of Tonga) Fisheries Observers, Fishing Companies/Agents Debriefers	Target achieved for Observer deployment on Local Fishing Vessels. Target not achieved for Observer Deployment on Foreign Fishing vessels due to Covid-19 restrictions and Lockdown	Recruit more observers to gather for foreign fishing vessels observer coverage which is 100% coverage and 20% for local fishing vessels. Observers are offloaded when needed to participate in virtual training and workshops Develop new initiative(s) in the Tonga Observer Program (TOP) to ensure the retention of trained observers
Number of VMS snapshots/transit vessel entry requests	36	62	Ministry of Fisheries (Government of Tonga), Vessel Owners, Vessel Masters, and Agents	Target achieved despite the effect of Covid-19 restrictions.	Stand-alone Internet connection for VMS
Number of VMS data provided upon request	45	58	Target achieved despite the effect of Covid-19 restrictions.	Target achieved despite the effect of Covid-19 restrictions.	Monitor the units installed in the local fishing vessels

2.2.7 PROP Project Management Unit (PMU)

TSDF II Outcomes

A: A more inclusive, sustainable and dynamic, knowledge-based economy.

D: More inclusive, sustainable and responsive good governance with strengthened rule of law.

F: A more inclusive, sustainable and effective land administration, environment management, and resilience to climate and risk.

Key Performance Indicators (KPIs)	Targets	Achievements (based on the targets and KPIs.)	Beneficiaries	Cross cutting implications	Future plans
Output 20: Implementation of the Tonga Fisheries Sector Plan (TFSP), including effective governance of the World Bank-funded Tongafish Pathway project.					
Monthly report to CEO	12	Y	Ministry of Fisheries, Line Ministries	Formal reporting ongoing	Monthly reports to the CEO/HODs are due the second week of the following month. Quarterly Finance, Procurement, and M&E Report submission 45 days from the end of the quarter
Annual report for Tonga pathway project (World bank project management requirements)	1	Due in October 2021	PMU, Ministry of Fisheries and World Bank	Revised templates to be used by all IDA 18 Projects.	To complete and submit the Annual report for the Tonga pathway project.

*Y/N (yes/no)

2.3 Financial Management

2.3.1 Budget

The total Budget for Expenditure increased from \$4,707,600 in 2020/21 to \$4,894,600 in 2021/22. Revenue target sources increase by \$870,000 from \$2,300,000 in 2020/21 to \$3,170,000 in 2021/22.

The salary allocation accounted for FY 2021/22 is the largest share of the budget accounting for 51.10% of the approved budget; the operating budget accounted for the remaining portion i.e., 49.90%. The details of the budget allocation are provided in the Table below.

Fund Comparison by major component for FY 2020/21 – FY 2021/22

Expenditure by Major Component	2020/21 (T\$)	2021/22	Variance
Established staff (10)	2,358,800	2,357,100	-1,700
Un-established staff (11)	61,000	144,200	83,200
Travel and Communication (12)	423,800	430,600	6,800
Maintenance and Operations (13)	376,600	342,200	-34,400
Purchase of Goods and Services (14)	862,900	1,040,500	177,600
Grants and Transfers (15)	164,600	131,600	-33,000
Assets (20)	459,900	448,400	-11,500
Total	4,707,600	4,894,600	187,000

2.3.2 Revenue Performance

Total revenue reported was \$2,825,084.79 of which \$2,217,744 (78.5%) was received as proceeds from the Multilateral Treaty on Fisheries with the USA (USD\$988,125.47); \$196,207.81 (7%) was received from Fishing Licenses, \$363,809.63 (11.5%) received from Rental and the remaining 1.68% (\$47,323.35) from the sale of produces and products.

Revenue Performance for Target sources

Sources	Budget 2020/21	Collecting as of 30 June 2022	Plus/minus balance	Percentage (%)
FFA treaty	1,500,000.00	2,217,744	717,744.00	148
Sales of produces & products	146,000.00	47,323.35	-98,676.65	32
Rental	646,700.00	363,809.63	-282,890.37	56
License	877,300.00	196,207.81	-681,092.19	22
Grand Total	3,170,000.00	2,825,084.79	-344,915.21	89

Revenue Performance from non-target sources and development projects

Sources	Revote / Collecting from 2021/2022	New Fund 2021/2022	Budget Revised	Actual	Collecting 2021/22	Remain balanced as of 30 th June 2022	Percentage (%)
CT	220,136.99				68,014.58	-	
Fish bond	800.00				430.00	-	
Development project	2431798.08	2036031.9	4457829.98	2194457.36	626,844.74	\$2262462.22	
Grand Total	2,652,735.07	2036031.9	4457829.98	2194457.36	\$447,927.76	\$2262462.22	50.75%

Comparison of Budget and Actual Amount collected FY2020/21 and FY2021/22

Revenue Sources	FY2020/21	FY2021/22	Variances
Target Sources	2,300,000	3,170,000	870,000
Sales of produce and product	103,845	47,353	-56,492
FFA (US Treaty)	2,427,829	2,427,829	0
Rentals	630,979	363,810	-267,169
Licences	947,765	196,208	-751,557
S/Total	4,110,418	3,035,200	-1,075,218
Consumption Tax	220,137	68,015	-152,122
Fish Bond	800	430	-370
Development projects	226,991	626,845	399,854
S/Total	447,928	695,289	247,361
G/Total	4,558,346	3,730,489	-827,857

2.4 Procurement

Financial Year	No. of Received Proposals	No. of Endorsed Proposals	No. of Compliance	No. of Non-compliance	% Of Compliance	% Of Non-Compliance
2020/2021	9	4	4	0	100%	0%
2021/2022	10	7	7	0	100%	0%

Method of Procurement	FY 2020/2021	FY 2021/2022
Request for Quotation (RFQ)	9	1
National Competitive Bidding	9	7
International Bidding	1	0
Limited Bidding	1	1
Direct Source (Limited Bidding)	0	1
Restricted Bidding	0	0

2.5 Assets Management

Ministry of Fisheries Asset Registry as of 30 June 2022

Fixed Asset Registry Items	FY 2020/2021 Cost	FY 2021/2022 Cost	Notes
Building	\$23,444,012.33	\$23,444,012.33	Remains the Same
Infrastructure	-	-	Ministry currently has no major Infrastructures
Vehicles	\$998,487.19	\$756,117.19	Disposal of four Old Vehicles from the Ministry's vehicles
Computer Software	-	\$17,980.00	System Server was purchased for ICT
Computer Hardware	\$233,882.23	\$324,032.22	Cost increased due to filling in vacant positions and upgrading of ICT infrastructure.
Office Equipment	\$90,258.00	\$93,098.00	Cost increased due to the increase of staff recruitment.
Furniture & Fittings (i.e. Desk, Shelves)	\$74,536.00	\$82,491.00	Cost increased due to the staff recruitment and replacement of old office furniture.
Other Plant and Equipment (i.e. Printers, Scanners, Office equipment)	\$402,642.91	\$417,395.91	Cost increased due to filling in vacant positions and expansion of the Ministry's Science Division
Total Cost	\$25,243,818.66	\$25,135,126.65	Decrease by 1.5%

3. Significant issues/challenges

3.1 Issues/Challenges

Division	Challenges	Way forward
Cross cutting issue	Implementation of the current Performance Management System	Bi-annual refresher training on PMS rating and remarks
	Shortage of staff	Every new post must submit via staff proposal Delaying in the process for staff proposal.
	Budget limitation	Increase the Ministry's Budget allocation with strong justification and include in the CP
	Lack of quality technical equipment (boat and vehicle)	Seeking additional funds to donors
	Lack of Project Development and Management skills/experience	Provide training on project development and management
	Lack of capacity building training (short-term and long-term)	Provide Annual Training needs for MoF, seek donor fund
	Lack of infrastructure such as office buildings	Seeking additional funds to donors and increase the Ministry's Budget allocation with strong justification
CEO office	Technical equipment for media	Seeking additional funds to donors and increase the Ministry's Budget allocation with strong justification
	Training techniques relevancy for communities	Develop appropriate training techniques
Fisheries Science Division (FSD)	Effective legislation for SMAs and commercial fisheries	Revised the SMA Regulation included commercial fisheries.
	Upgrade current hatchery facilities to accommodate two species per hatchery run at a time and expand to Vava'u and Ha'apai	Need funding and land space
	Improving live algae production for better larval survival and growth rate.	Upgrade current Laboratory to accommodate algal culture and equip

	<p>with proper equipment.</p> <p>Building capacity of staff and training for algal culture production.</p>
Increasing giant clam and pearl oyster production to accommodate demand from aquarium markets and pearl farmers respectively.	<p>Need more staff for the aquaculture section and also the upgrade current hatchery facilities.</p> <p>Conduct more spawning activities during the spawning season.</p> <p>Deploy spat collectors for Vava'u areas to support pearl farmers.</p>
Aquaculture farming of new potential species for food security and livelihood (eg. Finfish, sea cucumber, shrimp)	<p>Staff capacity building (training) on farming practices and management</p> <p>Staff recruitment</p>
Hatchery production and artificial propagation of new potential species	Need training and work attachment for aquaculture staff
Monitoring the progress of SMA communities with regular meetings.	Need more staff for SMA section and funding to support monitoring program.
Continue commitment to the establishment of new SMAs.	Need more staff for SMA section to provide technical support through extension services program.
Ensuring quality of fisheries data collected.	Improve skills and conduct training to Science Division for fisheries data collection.
Expanding the FAD network.	Improve human capacity of the Ministry and funding to deploy and replacement of lost FADs.
Improved support for pearl oyster production, development and marketing.	<p>Need to conduct more training on pearl crafting and design.</p> <p>Conduct training on economic model included marketing</p>
Conduct farming trail for fish cage culture system for tilapia and other finfishes' commodities.	Liaise with SPC for technical assistance and funding to provide culture materials.
Identify potential for training and capacity building for stakeholders in co-management, fish handling, fisheries management, and business management.	Need a training analysis for the fisheries sector and Ministry of Fisheries

	Low percentage of data coverage for scientific data collection both for tuna and snapper fisheries.	Recruit more port samplers
	Low levels of data on artisanal and other coastal fisheries	Recruit port samplers
	Lack of biological samples (gonads and otoliths) from snapper species to enhance stock assessments	Improve the collaboration between MoF with the snapper vessel owner. Need more funds to buy the fish samples
	Develop knowledge and experience on Giant squid (Diamondback & Neon Flying squid) ecology, biology and stock assessment	Liase with SPC and NIWA on staff capacity building and trainings
Fisheries Compliance Division (FCD)	Infrastructure is a key challenge in terms of monitoring coastal areas (i.e. vessels for enforcement) especially target illegal fishing (i.e. dynamite fishing, using SCUBA and hookah diving air apparatus, etc.).	More emphasis towards conducting the enforcement duties, that is carry out accordingly despite challenges faced when dealing with illegal fishing and breaching of the regulations guided by the FCD to the public.
	Need to certify inspection and boarding officers for High Seas.	Providing training to Compliance officer
	Need more effective enforcement procedures for coastal areas.	Request for more Technical Assistance trainings to help in the review and development of the SOP
	Seeking public support for reporting of illegal fishing activities.	Increasing the number of consultations with communities and encourage the public awareness on illegal fishing activities, maybe incorporate in the school syllabus for effective learning of students hence keeping in mind that every information given by an individual involved on voluntary compliance is strictly confidential.
	Strengthen the knowledge of the task force team including outer island for implementing the Port State Measures Agreement.	Regular refresher training with the PSMA Task Force team to advance their capacity on all MCS activities required by the PSMA. From the line Ministries who directly associated with PSMA, they encounter new recruitment onboard with no ideas on PSMA. To better accomplishment of PSMA target goals, regular refresher

		training should reach out to outer island line ministries to improve their performance and understanding
	Enforcement of licensing terms and conditions for fishing vessels, fish fences, exporters of tuna and snapper, and aquarium.	Establish more simple and creative methods to broadcast the license activities and awareness through brochures, pamphlets, television program, and posters to advertise our service to the public and tourists.
	Information regarding marine products allowed to export or import to Tonga is vague and not clear to the public	Establish strong networking with other biosecurity border control overseas as a way to improve our service to our customers especially the licensees in considering their needs, complaint, and challenges, and continue to serve them in a great professional manner.
	Need to build up collaboration with other Ministries with a mandate to conduct enforcement as a way forward for more effective compliance activities.	There is also a need for more technical assistance skills to capture by the team in enhancing more effective cooperation when working with the Line Ministries such as Tonga Navy for patrolling in Tonga Water and air surveillance provided by NZ and Australia Defence, Police Maritime Rescue Division in term of conducting operation activities to enforce Fisheries Acts & Regulations.
	Develop a national integrated electronic system for PSMA in terms of sharing information for Boarding & Inspection and entry and exist of fishing vessels.	Regular meeting with the Task Force to advance their capacity on MCS. Need to train task force team in terms of boarding & Inspection for both Foreign & Domestic Licensed vessels.
Licensing & Certification	Consistent enforcement of terms and conditions for all fishery licenses	Draft SOP for licensing process to monitor the licensing system. Establish more creative and straightforward methods to broadcast the license activities and awareness through brochures, pamphlets, television programs and posters to advertise our service to the public. Review the existing licensing fee structure to accommodate new licensing fees needed for new

		licensing activities for eg. Commercial sample/market research (both fees and RR), etc.
	Information regarding marine products allowed to export or import to Tonga is vague and not apparent to the public.	Establish vital networking with other international biosecurity border control overseas as a way to improve our service to our customers, especially the licensees, in considering their needs, complaint, and challenges and continue to serve them in an excellent professional manner.
Tonga Observer Program	Need to employ observers as port samplers or other related duties to keep them on the job, to avoid high turnover.	Continue to seek funding support from WCPFC (Japan Trust Fund) to support on-going and new activities under the TOP
VMS	Need VMS unit for Local fishing vessels	Seek fund to purchase low – cost VMS unit for local fishing vessels Develop a cost - recovery mechanism to fund purchasing and maintenance of VMS units
	Unstable internet connection	Stand-alone internet connection for VMS

3.2 Risks and risk management

Ministry of Fisheries Strategic Output	Risk	Risk Management
All divisions	<ul style="list-style-type: none"> Natural disaster such as cyclones tsunamis, flooding 	<ul style="list-style-type: none"> Ensure staff are aware of risks and disaster management plans in place and practiced.
All divisions	<ul style="list-style-type: none"> Duty travel accident, injury, stranding 	<ul style="list-style-type: none"> Ensure staff are aware of risks and what to do in an emergency, carry insurance, and know not to take risks
All divisions	<ul style="list-style-type: none"> Local travel such as vehicle travel 	<ul style="list-style-type: none"> Ensure vehicles well maintained and operated at the speed limit
All divisions	<ul style="list-style-type: none"> Illness - tropical disease, infection, and illness 	<ul style="list-style-type: none"> Encourage vaccinations, seriously ill staff to not attend work, good practice hygiene at work

All divisions	<ul style="list-style-type: none"> • Sunburn and exposure 	<ul style="list-style-type: none"> • Wear sunscreen and protective clothing, carry fresh water
Fisheries operations (science, compliance and extension)	<ul style="list-style-type: none"> • Vessel use, diving, maintenance and repair 	<ul style="list-style-type: none"> • Ensure staff are properly trained and safety equipment carried • Good practice of diving procedures
Fisheries science	<ul style="list-style-type: none"> • Use of chemicals 	<ul style="list-style-type: none"> • Ensure staff are properly trained and safety equipment used
Fisheries Science (Port sampler)	<ul style="list-style-type: none"> • Trips, slips and falls 	<ul style="list-style-type: none"> • Ensure proper foot ware and risks assessed of slippery or loose surfaces such as fish markets, rocks, and steps
Fisheries compliance	<ul style="list-style-type: none"> • Attack or injury 	<ul style="list-style-type: none"> • Training, patrol planning, never working alone
<p>Tonga Observer Program</p> <p>Deployment of the observer on both foreign fishing vessels and local fishing vessels</p>	<ul style="list-style-type: none"> • Attack by crew whilst at sea • Injure while on duty 	<ul style="list-style-type: none"> • Ensure observers take safety and first aid courses

4. Disclosures and legal compliance

4.1 Audit statements

The last audit report covered the period of;

- June 2014 to June 2016 for Tongatapu
- March 2019 – March 2021 for Vava'u, Ha'apai and 'Eua
- 01st July 2019 – 30th June 2020 for Tonga Pathway to Sustainable Oceans Project

4.2 Ministerial and Cabinet directives

Decision date	Cabinet Decision number	Purpose
16 th July, 2021	624	Government Wage Bill Issues
	626	High Government Wage Bill and proposed Containment Measures.
22 nd July, 2021	670	Ministry of Fisheries Annual Report for Financial Year 2020/2021
13 th August, 2021	758	Declaration of designated Coastal Communities (SMAs) in Tonga as Aquaculture areas and Declaration of new additional Aquaculture areas in Tongan waters.
19 th August, 2021	799	Submission of the National Infrastructure Investment Plan (NIIP) 3.
	812	Chief Executive Officers performance rewards (PMS)
3 rd September, 2021	865	Government Civil Servant Eligibility to apply to Short – term and long – term Consultants Funded by Development Partners.
4 th October, 2021	934	Proposed amended Regulations, Public Service Regulations.
	938	Proposed Remuneration Policy Framework for Government Consultancy.
	906	Revised Overtime Policy Instructions By circulation on 24 th September, 2021
4 th March, 2022	92	Update from Joint NEMC/NTF COVID -19 Response Meeting No.160 held on 1 st March 2022.
	94	Hunga-Tonga and Hunga Ha'apai Volcanic Eruption and Tonga Tsunami Disaster Recovery Resilience Building Plan 2022 – 2025.
	97	Bonus OR Increase to basic salary (salary increase) for Chief Executive Officers; Performance Management System (PMS) rewards.

11 th May, 2022	279	Submission on re-consideration of PMS results and performance rewards for the 2020/2021 financial year.
20 th May,2022	328	Proposed amendments to the Fisheries (Coastal Communities) Regulations 2009 and its amendments and Acting Appointment for Hon. Minister for Fisheries.
25 th May,2022	344	Tonga's delegation to the 2022 UN Ocean Conference to be held in Lisbon, Portugal from the 27 th June – 1 st July, 2022. The Head of the delegation is the Prime Minister of Tonga, Hon. Hu'akavameiliku and the other delegation are the Chief Secretary and Secretary to Cabinet, Mr. Edgar Cocker and the Chief Executive Officer for Fisheries, Dr. Tu'ikolongahau Halafihi.
1stJun, 2022	354	Recovery Assistance on Hunga-Tonga and Hunga-Ha'apai Volcanic Eruption and COVID 19.
	373	Establishment of the National/United Nations Joint Steering Committee and its membership.
10 th June,2022	393	Memorandum of Subsidiary arrangement between the Government of Australia and the Government of Tonga.
14 th June,2022	422	Commissioner for Tonga Fire & Emergency Services/Chief Executive Officer (CEO) Performance Management System (PMS), Financial Year 2019/2020 and Financial Year 2020/2021.
	420	Approval of Tonga's support for the Vanuatu's Intention to obtain and International Court of Justice Advisory Opinion on Climate Change.
	421	Funeral Arrangements for Hon. Viliami Manuopangai Hingano, Minister for Agriculture, Food and Forests.
	426	Transport Project Development Facility (ADB Grant No. 6018), Nuku'alofa Port Upgrade Project (ADB Grant No.0774), and Fanga'uta Lagoon Bridge Project (ADB Proposed Grant No.53045-002).
	427	Renewal of National COVID 19 Lockdown Restrictions Directions.
	428	Tonga's delegation to the 2022 UN Ocean Conference to be held in Lisbon, Portugal from the 27 th June – 1 st July, 2022.
	445	Completion of Tropical Cyclone Gita and Harold Reconstruction Project.
20 th June,2022	447	Government Subsidy on Fuel and Electricity Tariff.
8 th July,2022	490	Addition to the Tonga Delegation attending the 51 st Pacific Islands Forum Leaders Meeting in Suva, Fiji from 11 th – 14 th July 2022. Approved by circulation on 6 th July 2022.

22th July,2022	524	Ministry of Fisheries nominated Dr. Siola'a Malimali and Ms. Jane Elaine Havealeta, both Deputy Secretaries for Fisheries, to attend the Pacific Islands Forum Fisheries Agency (FFA) South Pacific Group 8 th Meeting, scheduled to be held in Auckland, New Zealand from 27 th – 29 th July, 2022. Approved by circulation on 19 th July, 2022.
29 th July,2022	592	Meeting with potential suppliers for the Boats procured by the Pathway to Sustainable Oceans project, Ministry of Fisheries.

Ministerial Decision

Three (3) overseas travel reports were approved during this FY2021/2022

Only one (1) Fisheries Policy was approved

23 number of daily paid contracts approved

4.3 Governance disclosures

International Agreement and Treaties

Tonga is a party to and has obligations under, a range of international agreements and treaties that support the sustainable harvest of our fisheries resources.

FFA Tonga is a member of the Honiara, Solomon Islands-based Pacific Islands Forum Fisheries Agency (FFA), as a signatory to the 1979 Convention. The FFA supports its 17-member countries in managing, conserving, and using the tuna resource through enhancing national capacity and strengthening regional solidarity.

SPC Tonga is a member of the Noumea, New Caledonia-based Pacific Community (PC) (formerly the Secretariat to the Pacific Community (SPC)) which aims to develop the technical, professional, scientific, research, planning, and management capability of Pacific Island people and directly provide information and advice, to enable them to make informed decisions about their future development and well-being.

WCPFC The Western and Central Pacific Fisheries Convention aims to ensure, through effective management, the long-term conservation and sustainable use of highly migratory fish stocks in the western and central Pacific.

UNCLOS The United Nations Convention on the Law of the Sea 1982 (UNCLOS), is an international agreement that defines the rights and responsibilities of nations with

respect to their use of the world's oceans, establishing guidelines for businesses, the environment, and the management of marine natural resources.

UNFSA The United Nations Fish Stocks Agreement (UNFSA) (relating to the Conservation and Management of Straddling Fish Stocks and Highly Migratory Fish Stocks) sets out principles for the conservation and management of those fish stocks and establishes that such management must be based on the precautionary approach and the best available scientific information. Signatory States should cooperate to ensure conservation and promote the objective of the optimum utilization of fisheries resources both within and beyond the exclusive economic zone.

CODE OF CONDUCT the Code of Conduct for Sustainable Fisheries is a non-binding though internationally agreed instrument that states fisheries management rules should be based on the precautionary approach which it prescribes is typically implemented in concrete management rules through such provisions as minimum spawning biomass, and maximum fishing mortality rates.

CITES the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), is a multilateral treaty to protect endangered plants and animals. Its aim is to ensure that international trade in specimens of wild animals and plants does not threaten the survival of the species in the wild. It provides varying degrees of protection to more than 35,000 species of animals and plants.

US Treaty the Multilateral Treaty on Fisheries between Certain Governments of the Pacific Island States and the Government of the United States of America (US Treaty) provides for multilateral access by USA-flagged tuna purse-seine fishing vessels to Pacific Island Parties Waters the US Treaty was agreed in 1987 and has moved through several phases.

Niue Treaty The “Niue Treaty Subsidiary Agreement ratified in 2015 as a regional effort to strengthen our current surveillance and enforcement mechanisms to fight against Illegal, unregulated and unreported fishing (IUU fishing) as an ongoing global challenge.

OIE the World Organisation for Animal Health (OIE). The OIE is the intergovernmental organization responsible for improving animal health worldwide. The need to fight animal diseases at the global level led to the creation of the Office International des Epizooties through the international Agreement signed in January, 25th 1924. In May 2003 the Office became the World Organisation for Animal Health but kept its historical acronym OIE. Tonga is not a signatory but as a member of SPC follows the policies and practices of OIE with respect to aquatic species.

Port State Measures Agreement Port States Measures to Prevent, Deter and Eliminate IUU Fishing, ratified by the Government of Tonga in December 2019.

4.4 Government policy requirements

The Ministry fully support and promote the public service code of conduct under the Public Service Act 2002.

The Ministry has an obligation under the Western and Central Fisheries Pacific Convention (promulgated under the United Nations Convention on the Law of the Sea) to submit reports to the tuna Commission. The Ministry can report that both its reports were in full compliance for the reporting period.

The Ministry has been progressively reviewing its policies and procedures since becoming a stand-alone Ministry after its separation from the Ministry of Agriculture, Forestry, Food and Fisheries.

A significant effort has been made to comply with the government's new policies for corporate planning and for staff performance management.

A range of training events have been held (mentioned above) with the aim of improving effectiveness and efficiency.

The Ministry of Fisheries is supporting the Forum Fisheries Agencies (FFA) Gender Equity Framework 2016 was adopted and approved by the FFC Ministers to promote equality in the work place and to help removed barriers to women's involvement in all aspects of Fisheries sector.

4.5 Board and Committee Remuneration

Fisheries Management Act 2002 section 8, The Minister shall establish a Fisheries Management Advisory Committee which shall advise him on such matters relating to the conservation, management, sustainable utilization and development of fisheries in the Kingdom.

The committee shall comprise the following members listed below. The members other than ex officio members shall be appointed for a period of 3 years.

Fisheries Management Advisory Committee (FMAC)

Position	Name
Chair	CEO for Fisheries
Member	Secretary for Lands or his nominee
Member	Secretary for Labour, Commerce and Industry or his nominee
Member	One member representing commercial fisheries interest nominated by Tongan Fish Exports Association
Member	One member representing women's interests nominated by the Minister

<i>Member</i>	<i>Two members representing local fishermen nominated by the Minister</i>
<i>Member</i>	<i>One member representing Coastal communities nominated by the Prime Minister</i>
<i>Member</i>	<i>Such other persons not exceeding two whom the Secretary may think fit to appoint</i>

Ministry of Fisheries Internal Committee

- Technical Management Committee
- Data Working Group
- Tuna Management Committee
- Deep Water Snapper Management Committee
- TFSP Committee
- Project Management Group (New Zealand-funded project for Deepwater snapper fisheries)
- Aquarium Management Committee

Chapter 5 : Conclusion

This financial year 2021/22 marked another milestone of the reinstatement of the Ministry of Fisheries as a stand-alone government agency, this year was also a historical year, in November 2021 Parliament election was conducted and the new Government started in January 2022, and Hon. Semisi Taelangi Fakahau becomes the new Minister for the Ministry of Fisheries.

Our fisheries resources are under constant pressure from the risks of overfishing, climate change, ocean acidification, sea level rise, and global warming. There are still challenges that affect our fisheries resources and ecology and the work of the Ministry with our key stakeholders remains of paramount importance to ensure we strive for our vision to achieve economically, socially, and environmentally sustainable fisheries that contribute to better living standards for all Tongans.

One of the highlights of the year was the prohibition of harvesting, processing, and exporting of sea cucumber to be lifted, the cabinet decision on the 07th May 2021 to be effective from the 31st May to the 30th of September 2021. This decision was made to assist the people by financially empowering them due to the negative economic and social impacts caused by COVID-19. The licenses were issued according to the location of each sea cucumber processing facility was located which included Tongatapu, Ha'apai, Vava'u, and Niuatoputapu.

The ongoing implementation and recruitment of the World Bank project titled, “Halafononga ki ha Ngatai Tu'uloa” in Tongan, and known in English, as “Pathway to Sustainable Oceans (TongaFish Pathway)” since 2019 with a total cost of USD \$10 million for 6 years was a great milestone to the Ministry.

The Ministry's ongoing implementation activities at the FAO Port States Measures Agreement to Prevent, Deter and Eliminate IUU Fishing, ratified by the Government of Tonga.

We thank our Minister for his support and relentless commitment to improving fisheries, and all our stakeholders for their support, hard work, and commitment.