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Foreword



Warm greetings to you all in the name of the Almighty God. Thus, never ceases to return back the glory and honour for his faithfulness and goodness upon each one of us.

On behalf of the Falekaupule, Kaupule, elders of the community, women, men, youth and children of Nanumaga, I would like to convey our sincere gratitude and thanksgiving to the man above for his never-ending guidance and support. For without him, we would have never been able to reach this far.

My huge appreciation is expressed to the elders of the islands, men and women for their oneness in putting up their collective insights to form this masterpiece.

I would also like to acknowledge all staff of the Tuvalu Fisheries Department, from the Director to all its officials, for their generous and helpful hands in preparing and collating this plan for the Nanumaga Community.

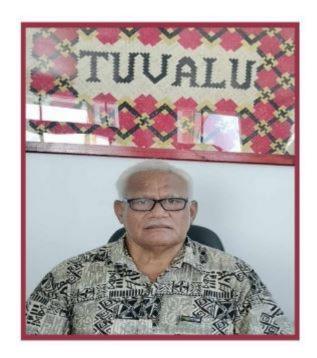
It is my humble pledge to all of us to be true caretakers in executing this essential masterpiece with heads up hoping that God Almighty will bless the *Nanumaga Coastal Fisheries Management Plan, Kogatai o Nanumaga* (2024-2027).

Fakafetai lahi

Sikiga Taimi Pule Kaupule

Kaupule Nanumaga

Statement from the Minister



The idea to develop fisheries management plans for the outer islands of Tuvalu came to light in 2021 as a result of the respective Island Strategic Plans that highlight fisheries as a key priority area.

In 2022, the Tuvalu Fisheries Department (the Department) commenced its work to collect fisheries information through a series of consultations with the outer islands' communities. A second series of consultations was held in the following year to validate the information collected previously. The Department also found that these communities find great value in having a management plan that provides guidance in their aspirations to sustainably manage and improve their coastal fisheries.

In light of the results from these consultations, the

Department started to draft and formulate the different fisheries management plans for all the outer islands and to align them with the key objectives of existing plans like *Te Kete* (Tuvalu National Strategy for Sustainable Development 2021-2030), Tuvalu Fisheries Corporate Plan 2023-2025, and the respective Island Strategic Plans.

The successful management of each island's coastal fisheries resources lies heavily in the hands of the Falekaupule, Kaupule, and the people on the island. The Department will stand ready to provide technical and also partly financial assistance to each island community as requested.

Throughout the years, most of the work and services provided by the Department's Coastal Fisheries Section has contributed to the development process of the fisheries management plans. But these efforts would have been impossible without the continued support and financial assistance provided by our donor partners, for which I share my profound gratitude and appreciation — thank you!

I would like to express my sincere thanks to all the island communities in the outer islands, from the Falekaupule, the Kaupule, to groups of women, youth, and fishermen, for their continued support and trusting us to invest in this program. I look forward to your future cooperation in implementing this plan.

Also, *fakafetai lasi* to the New Zealand Ministry of Foreign Affairs and Trade for the financial and technical support of this work through the Tuvalu Fisheries Support Programme. I would also like to acknowledge the external review by the Pacific Community (SPC) and New Zealand Ministry for Primary Industries.

Lastly, my big *fakafetai lasi* to all staff of the Tuvalu Fisheries Department for their tireless efforts in achieving this important task.

Hon. Sa'aga Talu Teafa

Minister for Natural Resources Development

This plan comes into effect on the day it is signed and approved.

Signed on this May of August 2024

Photograph credits

WanTech, Lotokufaki Kaitu

Definitions

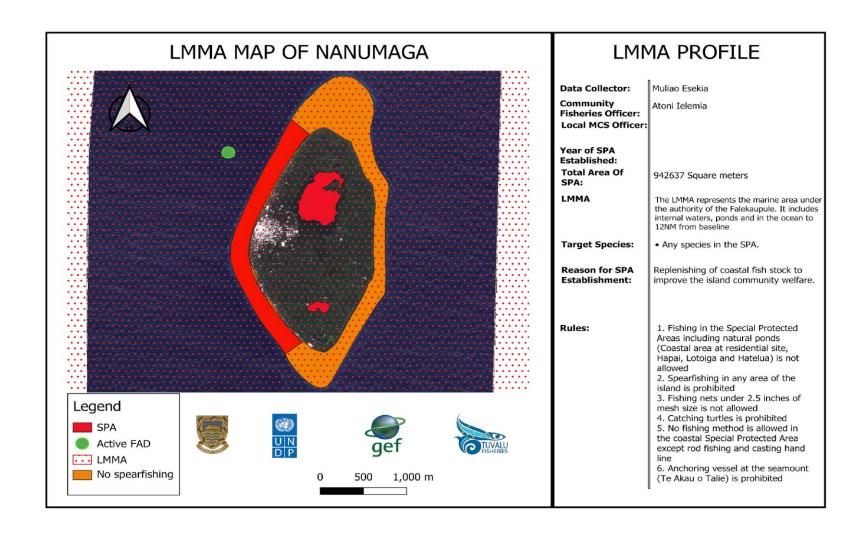
Unless otherwise expressed, words and expressions used in this plan have the same meaning as defined in the Marine Resources Act 2006 and Falekaupule Act 2008.

Aquaculture	The cultivation, propagation or farming of fish, whether from eggs, spawn, spat or seed, including rearing fish lawfully taken from the wild or lawfully imported into the country, or by other similar process.
Baseline	The low-water line of the seaward side of the reef fringing the coast of any part of Tuvalu or bounding any lagoon waters adjacent to any part of the coast, or where a reef is not present, the low-waterline of the coast itself.
Bye-law	A local law made by a specific island Falekaupule or as defined in the Falekaupule Act 2008.
Closed season	A period of time during when certain fishing gear or activities are prohibited
Creel Survey	A method to collect coastal fisheries data by interviewing fishers about the catch they have landed and their effort (i.e., fishing method and how long they have spent fishing)
FAD	A Fish Aggregating Device, and includes any floating object, whether anchored or drifting, for the purpose of aggregating fish
Fish	Any marine or aquatic animal or plant, whether piscine or not, and includes shellfish, crustaceans, sponges, holothurians (beche-de-mer), sea urchins and turtles and their eggs
Gleaning	The hand gathering of fish from the intertidal zone
Locally Managed	An area of nearshore waters and coastal resources out to 12 nautical miles
Marine Area	that is largely or wholly managed at a local level by the coastal communities,
(LMMA)	land-owning groups, partner organisations, and/or collaborative government representatives who reside or are based in the immediate area
Special Protected Area (SPA)	A Special Protected Area within the LMMA under the Falekaupule area
Territorial Sea	The part of the sea adjacent to the coast of any island of Tuvalu that is within the 12 nautical miles measured from the baseline
Traditional fishing knowledge	Local knowledge that is passed down from generation to generation that form part of the traditions or heritage of communities
Traditional fishing methods	Practices related to small-scale commercial or subsistence fishing practices that have been passed down from previous generations

Abbreviations

FAD	Fish Aggregating Device
LMMA	Locally Managed Marine Area
SPA	Special Protected Area
TFD	Tuvalu Fisheries Department

Figure 1. Map of Nanumaga



Part 1: Introduction

1.1 Why do we need a coastal fisheries management plan?

The Nanumaga Island community has traditionally relied on their coastal reef fisheries for their livelihoods, food security, and socio-economic benefits.

However, in recent years, the community has observed a significant decline in the quantity and size of these resources compared to the past. This change is likely due to various factors such as population growth, climate change, the growing use of unsustainable fishing methods, pollution caused by littering along the coastline, and catching very small and potentially immature fish. Developments near coastal areas, the use of heavy machinery during cargo operations, and coral breakage or degradation are other factors that all have had an impact on these coastal fisheries.

The people of Nanumaga are deeply concerned about their future due to the alarming decline in their fisheries resources. As such, this *Coastal Fisheries Management Plan* (the Plan) aims to ensure healthy, sustainable, and well-managed coastal fisheries, through collaboration between the Falekaupule and Tuvalu Fisheries Department (the Department). In line with the objectives of *Te Kete* (Tuvalu National Strategy for Sustainable Development 2021-2030), Tuvalu Fisheries Department Corporate Plan 2023-2025, and the Nanumaga Island Strategic Plan, the Nanumaga community, with the support of the Department, held a series of workshops and consultations to develop this Plan to address these concerns.

1.2 Scope

This Plan applies to the area of authority of the Nanumaga Falekaupule under the Falekaupule Act 2008. This is the Locally Managed Marine Area (LMMA), which includes the lagoons, coastal, and all other waters extending out 12 nautical miles from the baseline. This Plan includes all coastal fisheries, and aquaculture and fisheries related activities within the LMMA, including traditional fishing.

This Plan does not include pelagic and oceanic fisheries.

1.3 Goal

An abundant, healthy, and improved coastal fisheries resources and ecosystems, where all community stakeholders are involved in their sustainable management.

1.4 Policy and legislation

This Plan is aligned to the:

- Te Kete National Strategy for Sustainable Development (2021-2030)
- Nanumaga Island Strategic Plan *Te Kaafaga* (2021–2024)
- Tuvalu Fisheries Department Corporate Plan (2023-2025)
- Falekaupule Act 2008
- Marine Resources Act 2008
- Maritime Zones Act 2012
- Wildlife Conservation Act 1975

The development and implementation of our Plan is guided by our values, as listed in the Te Kaafaga (2021-2024):

- 1. Kaipule: Wise resource management and usage
- 2. Atafai: Using resources for their main purpose without wastage
- 3. Alofa: Careful use of resources to benefit everyone
- 4. Agamaluu: Silently happy about the achievements of our efforts
- 5. Loto-fenua: Being patriotic the heart to love and defend our home island
- 6. Loto-maulalo: *Humility being modest in achievement*
- 7. Loto-kufaki: Intense patience long-term benefits for everyone demands forsaking instant gratification
- 8. A'ava: Respecting and honouring any final decision the island has collectively adopted as a community



Part 2: Authorities and Roles

Table 1 states the authorities and roles involved in the development and implementation of this Plan.

Specific responsibilities pertaining to the Plan's activities are outlined in the Implementation, Monitoring and Evaluation Plan (Appendix I).

Table 1. Authorities and Roles

Au	thority	Role
1.	Minister for Natural Resources Development	Approves the Coastal Fisheries Management Plan.
2.	Falekaupule	Development of bye-laws, decision-making, and governance under the Falekaupule Act 2008 in relation to this Plan.
3.	Kaupule	Co-ordinate implementation of the Plan, key liaison between the community and government departments, and has responsibilities to enforce and ensure compliance with management measures and rules under the Plan.
4.	Coastal Fisheries Management Committee	Oversee the implementation and progress of the Plan. Work with the community, Tuvalu Fisheries Department, and other agencies to ensure timely implementation of the Plan, including provision of annual progress reports.
5.	Fishermen's Association	Represent fishers' rights and interests, FAD maintenance, and provide fisheries information.
6.	Women's Association	Represent women's rights and interests in the fishery especially with gleaning and rod fishing, post-harvest activities, and raising awareness.
7.	Youth Association	Represent youth's rights and interests in the fishery, coordinate social participation in community events, and raising awareness.
8.	Tuvalu Fisheries Department	Provide technical and financial assistance where appropriate, support and co-ordinate aquaculture and fisheries-related activities, and implement national plans and strategies.
9.	Department of Environment	Assist with technical and financial assistance, and implement other relevant national plans and strategies.
10.	Non-Government Organisations (NGOs)	Assist with technical and financial assistance.

Part 3: Status of the Fishery

While the people of Nanumaga rely heavily on offshore fisheries resources, coastal fisheries remain very important as a source of food security and livelihood (approximately 30% of recorded catch).

Among the coastal catch records, *Acanthurus triostegus* (locally known as Manini or Koinava), *Sargocentron tiere* (Malau gutu loa or Malua mata loa), *Myripristis pralinia* (Malau puku) are the most frequently landed species (Table 2). Fishers typically use reef scoop nets, casting nets, and gillnets to catch coastal fish.

Table 2: Most frequently landed species in Nanumaga based on creel surveys conducted from 2016 to 2022

	Species	Local Name	Family	Total Weight (kg)	Number	Fishing Methods Used
1	Acanthurus triostegus	Manini, Koinava	Acanthuridae	56	603	Reef scoop net, Casting net, Gillnetting
2	Sargocentron tiere	Malau gutu loa, Malua mata loa	Holocentridae	52	359	Rod fishing, Slow trolling, Handline, Reef scoop net, Gillnetting
3	Myripristis pralinia	Malau puku	Holocentridae	21	202	Handline, Slow trolling
4	Kyphosus vaigiensis	Nanue	Kyphosidae	56	162	Casting net, Gillnetting
5	Cirrhitus pinnulatus	Patuki	Cirrhitidae	21	156	Rod fishing, Float Rod fishing, Float Line fishing
6	Aphareus furca	Palusega, Kotua, Taelepe, Takuoga	Lutjanidae	29	140	Slow trolling, Float Rod fishing, Float Line fishing
7	Acanthurus leucopareius	Maono	Acanthuridae	13	125	Gillnetting, Casting net
8	Epinephelus merra	Gatalaliki	Serranidae	14	108	Rod fishing, Float Rod fishing
9	Gnathanodon speciosus	Filu, Fua'ala'ala, Fuaika, Kautea, Pakeva	Carangidae	36	99	Rod fishing, Casting net, Gillnetting
10	Cephalopholis leopardus	Mataele	Serranidae	8	88	Stainless steel/Lead jigging, Bait Jigging, Float Line fishing
11	Epinephelus macrospilos	Gatala, fapuku	Serranidae	17	85	Float Rod fishing, Rod fishing, Bait Jigging, Float Line fishing
12	Uraspis helvola	Lupolupo	Carangidae	24	75	Rod fishing, Reeling, Gillnetting, Slow trolling, Stainless steel/Lead jigging
13	Lutjanus fulvus	Tagau,Takape	Lutjanidae	15	68	Rod fishing, Stainless steel/Lead jigging
14	Epinephelus hexagonatus	Eve	Serranidae	17	64	Rod fishing, Float Rod fishing, Bait jigging,

						Stainless steel/Lead jigging; Float Line fishing
15	Anyperodon leucogrammicus	Gatala lautalo, Gatala lautala	Serranidae	1	60	Rod fishing, Float Rod fishing, Bait jigging, Stainless steel/Lead jigging, Float Line fishing

^{*}Other fish species recorded by creel surveys are listed in Appendix II.

Recent Creel Survey Reports indicate overall status of Nanumaga's coastal fisheries resources has been poor, with an average of 53% of the fishes caught being undersized (Figure 2). This is well above the national average of 36%. Ideally, no undersize fish should be landed; hence management actions will be necessary to reduce catch of undersize fish and this would lead to improvements in the resources.

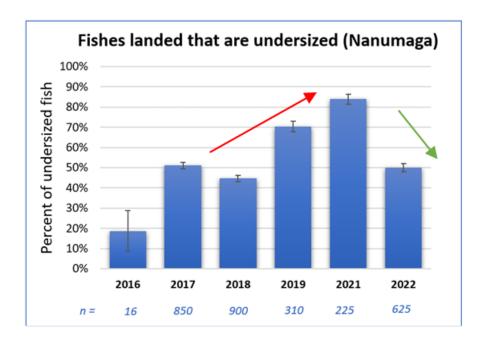


Figure 2: Percentage of fish being landed undersized by year +/-SE. The sample size (n) is reported in blue. Green arrow = good trend red arrow = bad trend.

Part 4: Objectives and Strategies: What we want to achieve

We will achieve our Goal by focusing on three main objectives: ensuring fisheries sustainability to maintain and improve food security and livelihoods, improving compliance with our laws and regulations, and restoring and protecting our coastal marine resources.

Table 3. Management objectives and strategies

OBJECTIVES	STRATEGIES
1. To ensure sustainability of coastal marine resources to maintain food security and improve livelihoods.	 1.1 Improve understanding of the health of coastal marine resources. 1.2 Promote sustainability of fisheries resources by implementing appropriate management measures. 1.3 Strengthen and promote aquaculture and restocking programs initiatives. 1.4 Enhance livelihoods through re-planting programs.
To strengthen and enforce existing coastal marine laws, regulations, and plans.	 2.1 Develop community bye-laws to strengthen the management measures and customary laws. 2.2 Develop community programmes to ensure all communities understand existing coastal marine laws, regulations and plans.
3. To restore and protect coastal marine resources.	3.1 Expand the coastal Special Protected Area.3.2 Promote educational programs to support responsible fishing practices.



Part 5: Management Measures

The following management measures will be implemented to sustainably manage our coastal fisheries resources.

These measures will be given legal effect through the national coastal fisheries regulations and bye-laws in accordance with the Marine Resources Act 2008 and Falekaupule Act 2008.

Mana	agement Measures
1	All fishing methods are strictly prohibited in the Special Protected Areas (coastal and natural ponds, i.e. Hapai, Lotoiga and Hatelua). This prohibition does not apply when using handlines and fishing rods within the coastal Special Protected Area.
2	All spearfishing is strictly prohibited in all waters.
3	The use of fishing nets with a mesh size two (2) inches or less is strictly prohibited.
4	Harvesting turtles at sea and after they lay eggs on land is allowed, but harvesting turtle eggs is strictly prohibited.
5	Anchoring of all vessels on the seamount (Te Akau o Talie) is strictly prohibited unless prior approval from the Pulefenua (Island Chief) is obtained.

Part 6: Review and Amendment

The Plan will be effective for three years (2024-2027) following date of approval by the Minister for Natural Resources Development.

A mid-term review will be conducted before the end of 2026, during which minor adjustments may be made to ensure the successful implementation of the Plan. An end-of-term review will take place by the end of 2027. The review will evaluate the current Plan and provide up-to-date scientific information for the drafting of the next plan.

The Fisheries Management Committee will produce an annual report on the status of the Plan, working together with the Kaupule Secretary.

Part 7: Funding Strategy for the Plan

The activities outlined in this Plan will be supported by a combination of funding sources to ensure sustainability and self-reliance.

Communities will not solely depend on government funds. Instead, they will also utilise their island budgets and the Vessel Day Scheme community funds allocated to each Kaupule. Additionally, external financial assistance may be sought through funding proposals and collaboration with ongoing projects supported by external partners. This diversified funding approach will enhance the effectiveness and resilience of the activities stated in this Plan.

Appendix I: Implementation, Monitoring and Evaluation

Strategies	Actions	Responsibilities	Resources	Timeline	Indicators	Target	Progress	Reporting	Risks			
Objective 1: To ensure s	Objective 1: To ensure sustainability of coastal marine resources to maintain food security and improve livelihoods											
Strategy 1.1: Improve understanding of the health of the coastal	Conduct reef assessment on resource abundance and biodiversity	Coastal Fisheries Section, TFD	Coastal Fisheries Section, TFD	2024-25	Resource assessment undertaken	Status of reef resources is assessed	Planned	Nanumaga Kaupule, community, TFD	Lack of funding Lack of staff and equipment resources			
marine resources	Develop a report on the current status with key findings and recommendations		Nanumaga community including youth and fishers	2025	Report developed	Survey Report published and shared with Nanumaga community						
	Publish Report		Nanumaga Kaupule Survey materials	2025-26	Report published							
Strategy 1.2: Promote sustainability of fisheries resources by implementing	 Investigate the feasibility of gear- related management measures 	Coastal Fisheries Section, TFD	Coastal Fisheries Section, TFD	2024-25	Investigations on fishing restrictions undertaken	Investigation report published and shared with	Planned	Nanumaga Kaupule, community, TFD	Lack of funding Lack of staff and equipment resources			
appropriate management measures	 Investigate the use of minimum size limits and spawning seasonality restrictions for key coastal species Publish and consult on investigation 		Nanumaga community including youth and fishers Nanumaga Kaupule	2026	Investigation report	Nanumaga community New gear, size limit and season fishing related restrictions implemented						
	report				published							

Strategy 1.3:	Identify species for	Coastal	Nanumaga	2024	Restocked	Restocking list	Planned	Nanumaga	Lack of funding
Strengthen and	restocking in the	Fisheries	Kaupule		species	of species		Kaupule,	
promote aquaculture	Vaiotoa pond during	Section, TFD in	·		identified and	selected		community,	Lack of staff and
and restocking	Falekaupule	collaboration	Youth		recorded in			TFD	equipment resources
programs initiatives	assembly	with	Association		Falekaupule				
		Falekaupule			assembly				
			Restocking		minutes				
	 Restock tilapia and 		materials	2025	Restocking	Selected species			
	selected fish species				activity	restocked in the			
	in the Vaiotoa pond				undertaken	Vaiotoa pond			
Strategy 1.4:	 Identify suitable 	Coastal	Nanumaga	2024	Suitable areas	Replanting	Planned	Nanumaga	Lack of human and
Enhance livelihoods	areas for re-planting	Fisheries	Kaupule		for re-panting	areas identified		Kaupule,	equipment resources
through re-planting	activities	Section, TFD in			activities			community,	
programs		collaboration	Talafai		identified			TFD	Lack of funding
	 Plant and monitor 	with	Youth	2025-27	Planting and	Hagale and			
	the growth "hagale"	Falekaupule and	Association		monitoring	Gigie planted			
	and "gigie"	community			progress	and monitored			
			Women		report				
			association		published and				
					shared				
	 Replenish 		Re-planting	2024	Monitoring	Paikea			
	Paikea/crabs in all		materials		reports on	population			
	natural ponds and				restoration	replenished			
	mangrove areas				and				
					conservation				
					of				
					Paikea/crabs				
					shared and				
					published	<u> </u>			

Objective 2: To strengthen and enforce existing coastal marine laws, regulations and plans on the island

Strategy 2.1:	Consult with the	Fisheries Legal	Coastal	2024 (during	Nanumaga	Fisheries bye-	Planned	Kaupule,	Lack of funding
Develop community	Nanumaga	Officer (FLO),	Section and	Metronome	community	laws developed		community,	J
bye-laws to	community to	TFD in	FLO, TFD	trip)	consulted and	and enforced		TFD	Lack of staff and
strengthen the	develop fisheries	collaboration	,	.,	awareness				equipment resources
management	bye-laws	with	Nanumaga		improved on				
measures and	,	Falekaupule and	Falekaupule		fisheries bye-				
customary laws	 Improve awareness 	Community		2025	laws				
-	within the	,	Nanumaga	(develop					
	Nanumaga		Kaupule	information					
	community of		·	tools)					
	fisheries bye-laws		Nanumaga						
	Recruit an		Community	2025	A new	Enforcement			
	enforcement and		-		enforcement	and compliance			
	compliance officer				and	officer position			
					compliance	advertised and			
					officer	recruited			
					recruited				
	 Investigate a 			2025-27	A demerit	Demerit system			
	demerit system to				system to	investigated			
	encourage				encourage				
	compliance and				compliance				
	promote responsible				and promote				
	behaviour				responsible				
					behaviour				
					investigated				
Strategy 2.2:	Compile all marine	LMMA Officer	Nanumaga	2024 (during	Marine	All	Planned	Kaupule,	Lack of funding
Develop community	laws, regulations	with the	Kaupule	Metronome	legislations	marine/fisheries		community,	
programmes to ensure	and plans that relate	assistance from		trip)	and bye-laws	laws,		TFD	Lack of staff and
all communities	to Nanumaga's	Coastal Section	Nanumaga		compiled	regulations and			equipment resources
understand existing	coastal fisheries	and FLO, TFD	Falekaupule			plans compiled			
coastal marine laws,									
regulations and plans.	Develop easily		Tuvalu	2025	Information	Community			
	understandable and		Fisheries		tools	information			
	accessible		Department		developed	tools developed			
	information tools		(LMMA		and	and distributed			
	(e.g. posters,		Officer, FLO		distributed				

	pamphlets and		and Coastal						
	billboards) regarding		Section)						
	the compiled laws,								
	regulations and		Community						
	plans		Fisheries						
	 Distribute the 		Officer	2025					
	information tools to			(distribute					
	all communities			information)					
	within Nanumaga								
	Monitor changes in			2025-27	Changes in	Changes in			
	behaviour to assess				behaviour	community			
	the effectiveness of				monitored	behaviours			
	these information tools					towards information			
	LOOIS					tools monitored			
						and reported to			
						Kaupule and			
						TFD			
-	and protect coastal marine								
Strategy 3.1:	Seek endorsement	Coastal	Nanumaga	2024 (obtain	Approval from	Issue on	Planned	Kaupule,	Lack of funding
Expand the coastal	from the	Fisheries	Kaupule,	endorsem't)	Falekaupule	enlarging the		community,	
Special Protected Area	Falekaupule	Section, TFD in	Falekaupule,		confirmed	CSPA raised and		TFD	Lack of staff and
		collaboration	community, TFD			endorsed in the Falekaupule			equipment resources
		with Kaupule, Falekaupule and	IFU			assembly			
	Establish new	community		2024		New boundary			
	boundary	Community		2024		demarcated			
	coordinates					demarcated			
	Inform the			2024	New boundary				
	community about				demarcated				
	the new boundary				and informed				
	1				to the				
					to the				1

Strategy 3.2: Promote educational programs to support responsible fishing practices.	Conduct workshop with Nanumaga community on responsible fishing practices	Coastal Fisheries Section, TFD	Tuvalu Fisheries Department Nanumaga Kaupule	2024	Community workshop on responsible fishing practiced conducted	Community workshop conducted	Planned	Kaupule, community, TFD	Lack of funding Lack of staff and equipment resources
	Develop and distribute easily understandable and accessible information tools (e.g. posters, pamphlets, billboards)		Nanumaga Community Nanumaga CFO	2025	Accessible information tools developed and distributed	Accessible information tools developed and distributed			

Appendix II: Nanumaga landings reported from creel surveys (2016-2022)

	Species	Local Name	Family	Weight (kg)	Number landed
1	Ablennes hians / hians	Sumu moana, Humu moana	Belonidae	6.8	9
2	Abudefduf saxatilis	Mutumutu	Pomacentridae	5.2	45
3	Abudefduf sexfasciatus?	Matagi, Katoatoa	Pomacentridae	0.2	1
4	Acanthocybium solandri	Paala	Scombridae	1558.1	237
5	Acanthurus blochii	Kapalagi, Maa	Acanthuridae	2.4	1
6	Acanthurus guttatus	Api, Maono	Acanthuridae	1.1	7
7	Acanthurus leucopareius	Maono	Acanthuridae	13.3	125
8	Acanthurus lineatus	Ponelolo, Alogo, Pone hamoa	Acanthuridae	0.1	1
9	Acanthurus triostegus	Manini, Koinava	Acanthuridae	55.6	603
10	Acanthurus xanthopterus	Kapalagi, Maa	Acanthuridae	1.9	1
11	Aluterus	Sumu kaleva, Humu kaleva, Sue kaleva	Monacanthidae	0.9	7
12	Anampses caeruleopunctatus	Gole, Uloulo, Kiole	Labridae	0.8	3
13	Anyperodon leucogrammicus	Gatala lautalo, Gatala lautala	Serranidae	0.9	60
14	Aphareus furca	Palusega, Kotua, Taelepe, Takuoga	Lutjanidae	28.6	140
15	Aphareus rutilans	Palupalu sega, Palu sega	Lutjanidae	5.9	2
16	Aprion virescens	Utu	Lutjanidae	11.1	4
17	Balistidae spp	Sumu magasega, Suma, Sumu lautalo, Sumu niu	Balistidae	7.6	52
18	Carangoides ferdau	Pula, Lupolupo, Fuaika, Filu, Lupo, Pakeva, Kata	Carangidae	11.7	23
19	Carangoides fulvogttatus	Lupolupo	Carangidae	3.1	13
20	Caranx ignobilis	Tino ulua (lge), Lupo (small), Aseu (med); Mea tal	Carangidae	1.6	9
21	Caranx lugubris	Tafauli, Tino tafauli (large), Aheu tafauli, Uluat	Carangidae	149.7	240
22	Caranx melampygus	Aseu, Ulua, Fuaika	Carangidae	182.4	74

23	Caranx sexfasciatus	Teu	Carangidae	30.2	19
24	Carcharhinus leucus	MagÅ	Carcharhinidae	18.9	1
25	Carcharinus amblyrhynchos	Mago	Carcharhinidae	29.2	1
26	Cephalopholis argus	Loi	Serranidae	2.6	4
27	Cephalopholis leopardus	Mataele (Ff, Nm)	Serranidae	8.4	88
28	Cephalopholis miniata	Pula (Ff, Nm), pula kula (Ff)	Serranidae	12.2	30
29	Cephalopholis sonnerati	Pula (Ff, Nm)	Serranidae	1.7	14
30	Cephalopholis urodeta	Mataele	Serranidae	0.3	4
31	Cheilinus trilobatus	Gole	Labridae	0.3	1
32	Cirrhitus pinnulatus	Patuki	Cirrhitidae	21.4	156
33	Conger macrocephalus	Tuna (Ff)	Congridae	10.3	6
34	Coryphaena hippurus	Masimasi	Coryphaenidae	51.8	3
35	Crenimugil crenilabis	Kanase	Mugilidae	6.0	15
36	Decapterus macarellus	Atule	Carangidae	1.5	37
37	Elagatis bipinnulata	Kamai, Kamaa, Kami	Carangidae	492.0	223
38	Epinephelus hexagonatus	Eve	Serranidae	218.1	64
39	Epinephelus macrospilos	Gatala (Ff), fÄpuku (Nm)	Serranidae	16.7	85
40	Epinephelus malabaricus	Gatala (Ff, Nm)	Serranidae	15.6	57
41	Epinephelus merra	Gatalaliki	Serranidae	14.3	108
42	Epinephelus ongus	Gatala (Ff, Nm)	Serranidae	7.2	20
43	Epinephelus polyphekadion	Gatala (one dot)	Serranidae	0.4	4
44	Euthynnus affinis	Atu alo, Autualo	Scombridae	3.6	3
45	Exocoetus volitans	Isave, Sasave	Exocoetidae	529.1	2110
46	Gempylus serpens	Palu palagi	Gempylidae	4.6	1
47	Gerres oyena	Matu (Ff, Nm, Nf, NI, Vt), matu papa (Ff), te nini	Gerridae	1.6	5
48	Gnathanodon speciosus	Filu, Fua'ala'ala, Fuaika, Kautea, Pakeva	Carangidae	35.7	99
49	Gnathodentex aureolineatus	Mu	Lethrinidae	3.7	5
50	Grammatorcynus bilineatus	Tavatava	Scombridae	404.2	132
51	Grammistes sexlineatus	Grammistes sexlineatus Patuki, Lafalafa		0.1	1

52	Gymnosarda unicolor	Valu	Scombridae	6.8	5
53	Halichoeres melanurus	Ulo'ulo (Ff, Nm)	Labridae	1.2	5
54	Hemiramphus far		Hemiramphidae	9.8	9
55	Hemiramphus sp	Ise	Hemiramphidae	0.2	1
56	Katsuwonus pelamis	Atu	Scombridae	4099.8	1281
57	Kyphosus cinerascens	Nanue	Kyphosidae	15.4	42
58	Kyphosus vaigiensis	Nanue (Ff, Nm)	Kyphosidae	56.3	162
59	LABRIDAE spp	Uloulo, Kimoa, Kiole	Labridae	4.7	10
60	Lampris guttatus	Palu malau puku (Ff)	Lampridae	8.4	1
61	Lethrinus elongatus	Filoa	Lethrinidae	0.3	1
62	Lethrinus erythracanthus	Saputu	Lethrinidae	6.3	15
63	Lethrinus microdon	Filoa, Kapatiko	Lethrinidae	2.2	7
64	Lethrinus obsoletus	Tanutanu	Lethrinidae	0.7	3
65	Liza vaigiensis	Kafakafa	Mugilidae	6.0	18
66	Lutjanus argentimaculatus	Tagau	Lutjanidae	0.8	3
67	Lutjanus bohar	Fakamea, Fagamea	Lutjanidae	15.2	17
68	Lutjanus fulvus	Tagau,Takape	Lutjanidae	137.1	68
69	Lutjanus kasmira	Savane	Lutjanidae	0.2	1
70	Lutjanus monostigma	Taiva	Lutjanidae	11.6	33
71	Melichthys niger	Sumu lega	Balistidae	0.6	3
72	Melichthys vidua	Sumu kula felo, moana, sumu uli	Balistidae	5.0	24
73	Monotaxis grandoculis	Muu, Mufala	Lethrinidae	3.3	8
74	MULLIDAE spp	Vete, Teve, Kaivete, Kalo, Sikumanuau	Mullidae	0.7	5
75	Mulloidichthys flavolineatus	Kaivete selesega	Mullidae	1.0	8
76	Myripristis amaena	Malau	Holocentridae	2.7	33
77	Myripristis berndti	Malau	Holocentridae	0.4	7
78	Myripristis pralinia?	Malau puku	Holocentridae	21.2	202
79	Naso lituratus	Maninilakau	Acanthuridae	0.7	3
80	Naso vlamingii	Pokapoka lanulanu	Acanthuridae	0.9	2
81	Neoniphon argenteus	Talakisi	Holocentridae	0.1	1

82	Octopus cyaneus	Feke	Octopodidae	4.8	6
83	Ostracion cubicus	sumu	Ostraciidae	1.3	6
84	Parupeneus barberinus	Malili, Kaivete	Mullidae	2.8	5
85	Parupeneus cyclostomus	Kaivete piniki	Mullidae	1.1	6
86	Parupeneus multifasciatus	Afulu	Mullidae	0.3	3
87	Pempheris analis	Maanifi, Bronze sweeper	Pempheridae	2.2	21
88	Plectropomus areolatus	Tonu gatala	Serranidae	0.7	1
89	POMACENTRIDAE spp	Mutumutu, Moimoi	Pomacentridae	0.3	2
90	Promethichthys prometheus	Palu	Gempylidae	196.4	23
91	Rhinecanthus aculeatus	Sumu	Balistidae	0.1	3
92	Ruvettus pretiosus	Palu taesi	Gempylidae	99.3	10
93	Sargocentron spiniferum	Tamalau	Holocentridae	6.2	12
94	Sargocentron tiere	Malau gutu loa, Malua mata loa	Holocentridae	51.9	359
95	Scomberoides lysan	Ata, Lai	Carangidae	0.9	2
96	Selar crumenophthalmus	Salala, Atule	Carangidae	1.1	10
97	SERRANIDAE spp	Gatala	Serranidae	2.6	12
98	Sphyraena barracuda	Ono, Pauea	Sphyraenidae	524.6	132
99	Sphyraena jello?	Ono, Oso, Nn	Sphyraenidae	385.2	113
100	Thalassoma purpureum	Gole lanulauniu	Labridae	1.2	6
101	Thunnus albacares	Kasi, Takuo, Takua, Tavatava	Scombridae	7232.2	1799
102	Thunnus obesus	Kasi matalasi	Scombridae	2580.2	645
103	Trachinotus baillonii	Lai	Carangidae	4.8	12
104	Turbo marmoratus	Alili	Turbinidae	0.1	1
105	Tylosurus crocodilus	Maliolio	Belonidae	3.0	7
106	Uraspis helvola	Lupolupo	Carangidae	23.7	75
107	Xanthichthys caeruleolineatus	Sumu moana	Balistidae	3.55	3
	(blank)			30.4	
	Grand Total			19571.0	10205