

Food and Agriculture Organization of the United Nations



TOWARDS A CARIBBEAN BLUE REVOLUTION

June 2019

SDGs:	12 Extractor 14 Incomerce 14 Incomerce 14 Incomerce 15 Extractor 15
Countries:	Antigua and Barbuda, Bahamas, Barbados, Saint Kitts and Nevis
Project Codes:	TCP/SLC/3601
FAO Contribution:	USD 463 000
Duration:	16 August 2016 – 30 June 2019
Contact Info:	FAO Subregional Office for the Caribbean FAO-SLC@fao.org

Implementing Partners

Fisheries Divisions of the Ministries responsible for Agriculture, Fisheries and Marine Resources of Antigua and Barbuda, Bahamas, Barbados, and Saint Kitts and Nevis.

Beneficiaries

Fish farmers; entrepreneurs interested in aquaculture and aquaponics; government line agencies involved in the development, promotion and management of aquaculture; and consumers in the Caribbean.

Country Programming Framework

CPFs 2016-2019 - *Antigua and Barbuda*: Government Priority 2: Small farmers/family farmers.

Bahamas: Government Priority 1: Food and nutrition security and safety, and Government Priority 2: Climate change and sustainable resource management.

Barbados: Government Priority 2: Food production and productivity.

Saint Kitts and Nevis: Government Priority 2: Food and Nutrition Security.





BACKGROUND

Aquaculture production by Caribbean Community (CARICOM) countries has been around five percent of total fish production in recent years. In most Caribbean Small Island Developing States (SIDS) aquaculture production is nearly insignificant, and the import of fish and fisheries products has risen by 35 percent in just over a decade. The growing population in the region, as well as a more demanding tourism industry and the ongoing promotion of healthier lifestyles and diets, has increased the demand for healthy, safe and high quality food, including fish and fisheries and aquaculture products. Public and private sector investments are required if the aquaculture sector is to develop in a viable manner in the Caribbean. The Governments of Antigua and Barbuda, Barbados, Bahamas and Saint Kitts and Nevis assign high priority to the development of the aquaculture sector, and in view of this, requested that FAO provide technical assistance to develop their aquaculture sectors. The project aimed to contribute to more efficient and inclusive food and agricultural systems in the four target countries, through sustainable development and management of the aquaculture sector, and the development of selected value chains.

IMPACT

More and better quality fish is available as a result of the project. In addition, the long-term impact of establishing an enabling environment for further expansion, especially through networking and technology transfer, will contribute to the growth of the sector.

It is expected that the support provided by the project will to lead to increased farm production efficiencies, economic benefits, and alternative employment opportunities and incomes in the four target countries; and will contribute to improved food security and food import reduction; all key development objectives of the participating governments.

ACHIEVEMENT OF RESULTS

The production of fish in aquaponics was relatively new in the four participating countries. Through the project, the countries developed the capacity to upscale and implement further aquaponics; and the private sector was well engaged to become an engine of positive change.

Aquaculture and aquaponics demonstration and training facilities were established and operating at private farms in the four participating countries. The demonstration farms are functioning well and are actively producing vegetables and fish for sale; and will provide long-term training opportunities in each country.

A review of the aquaculture situation, available resources, value chains and opportunities for growth in Antigua and Barbuda, Barbados, and Saint Kitts and Nevis was carried out; and a report was produced for each country. These reports and overall assessments of the aquaculture value chain will be vital for the preparation of aquaculture strategic plans.

The aquaculture value chain was strengthened through activities that were implemented in the project countries, focusing on small and medium-sized enterprises (SMEs) to support the financial sustainability of aquaponic businesses. These included a regional workshop for participants from the four project countries, which improved their ability to operate aquaponic businesses, identify and exploit markets, and engage with other members of the value chain. In addition, major constraints to the supply chain were identified, which should provide guidance to future interventions of FAO, development agencies or government actors.

Aquaculture and fisheries value chain training materials for specific use in the Caribbean region were developed; as well as awareness-raising brochures and capacity-building books on aquaponics. A "master document" was prepared, which portrays the historical production, and social, financial and environmental aspects of aquaculture in the Caribbean; and is the first document of its kind. On the basis of this draft document, supporting documents are being prepared for regional partners and investment entities.





MPLEMENTATION OF WORK PLAN

Long delays were experienced during the project. Some of these were internal, and others were caused by administrative issues with country stakeholders. In addition, relatively high procurement, involving many different vendors, required extensive administrative and technical reviews, and communication was not always sufficient to ensure timely delivery. Two no-cost project extensions allowed for the successful completion of the project.

Significant changes were made to the budget during the project; but overall, the activities were delivered within the project budget.

FOLLOW-UP FOR GOVERNMENT ATTENTION

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SUSTAINABILITY

1. Capacity development

The plan is for the governments to use the private farms as demonstration facilities. The collaboration established during the project strengthened these relationships. The demonstration sites provide long-term training sites for the governments to use, without creating additional financial burden, with long-term consequences for their budgets in terms of the maintenance of the sites. The purpose of using public-private partnerships (PPPs) in the project design was to embed the financial engine within a private company, to ensure that the demonstration facilities would continue after the project. It is expected that all demonstration sites will be maintained for the long term, with the owners reinvesting profits into the systems.

The project had a solid exit strategy, and the beneficiaries are fully capable and technically competent, and financially committed to continuing the demonstration facilities. In two countries, a separate project has picked up exactly where this project left off, and has an entire work plan for follow-up actions. For the other two countries, an ad hoc support strategy is in place for the beneficiaries, based on personal networking within and among project stakeholders.

2. Gender equality

One of the four demonstration farms is owned/operated by a woman. Several women attended the workshops and are active in the sector; however, gender was not a specific objective of the project.

3. Environmental sustainability

Aquaponics is an excellent form of technology for environmentally sustainable food production. Equally importantly, it serves as a vehicle for environmental messaging.

4. Human Rights-based Approach (HRBA) – in particular Right to Food and Decent Work

The project was designed to support capacity development (technically, business planning, networking) for SMEs in the aquaponic sector, especially targeting youth or young adults.



5. Technological sustainability

Aquaponic technology is highly appropriate and very flexible, and was well appreciated by stakeholders as a relevant practice.

Aquaponic practices need to be adjusted to the Caribbean environment (intense sunlight, risk of hurricane); and the training workshops and resulting publications gave participants the opportunity to share good practices and experiences.

All of the beneficiaries, specifically the PPP demonstration sites, are already carrying out project activities without further technical assistance.

6. Economic sustainability

The project was targeted at small and medium-scale entrepreneurs, who have the business acumen and financial means to implement this modern technology. In that sense, the products are affordable and the interventions proposed are economically feasible. For wide-scale adoption, however, resource mobilization or access to financing should be included in any follow-up projects or activities.



DOCUMENTS AND OUTREACH PRODUCTS

- Report of the FAO Technical Workshop on Advancing Aquaponics: an efficient use of limited resources. Saint John's, Antigua and Barbuda, 14–18 August 2017. FAO Fisheries and Aquaculture Report. No. 1214, Bridgetown, Barbados. FAO. 2017.
- Report of the FAO Technical Workshop on Advancing Aquaponics through Strengthened Value Chains.
 Christ Church, Barbados, 11–14 December 2018. FAO Fisheries and Aquaculture Report. No. 1256.
 Bridgetown, Licence: CC BY-NC-SA 3.0 IGO. FAO. 2019.
- <u>http://www.fao.org/blogs/blue-growth-blog/advancing-aquaponics-in-the-caribbean/en/.</u>
- Advancing Aquaponics in the Caribbean. FAO Fisheries and Aquaculture Newsletter No. 60. August 2019 (in press).

ACHIEVEMENT OF RESULTS - LOGICAL FRAMEWORK

Expected Impact	To contribute to more efficient and inclusive food and agricultural systems in the Caribbean countries, through sustainable development and management of the aquaculture sector, increased farm production efficiencies, economic benefits, alternative employment opportunities and incomes in the Eastern Caribbean SIDS, strengthening food security, value chain and adding to food import reduction objectives of the participating governments			
	Small and medium-scale aquaculture and aquaponics farms that are producing more fish for the Caribbean people in an economically viable, ecologically sustainable and socially acceptable manner			
	Indicator			
	Baseline			
Outcome	End Target	The volume of fish produced in aquaculture in the four project countries will have increased. The production of fish in aquaponics is relatively new in the four countries and needs more time to fully develop. The demonstration farms developed with project support are (proven) economically feasible and operating effectively.		
	Comments and follow-up action to be taken	The capacity development provided by the project resulted in better farm management and the introduction of new technologies. The demonstration farms are functioning well and producing (vegetables and fish). It is too early to measure the exact impact in terms of production gains; after two or three production cycles it will be possible to determine the impact realized (probably around mid-2020).		
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		ment of the aquaculture situation, value chains used a growth of the sector	nd challenges and opport	tunities
	Indicators		Target	Achieved
Output 1	 Some 90 workshops countries. 	e assessment reports drafted. stakeholders have participated in the national to validate and finalize the assessments in the three	<mark>???</mark>	Yes
	national lev	essment reports published and disseminated at el.		
Baseline	<mark>???</mark>			
Comments	The output was fully delivered. Reports and overall assessments of the aquaculture value chain were not previously available before the project activities. The reports will be vital in preparing aquaculture strategic plans. Follow-up activity for the development of aquaculture strategy is ongoing in Antigua and Barbuda under a different project. The major impediment is the low level of aquaculture in the three countries, as well as the lack of available information.			
	Review of the a	quaculture situation, resources available, value chains	and opportunities for gro	owth
	in Antigua and Barbuda, Barbados, and Saint Kitts and Nevis			
Activity 1.1	Achieved	Yes		
	Comments	In each of the three countries, an aquaculture sector review was carried out and a report was produced.		
	Organize natio	nal workshops to discuss the assessment		
Activity 1.2	Achieved	Yes		
Activity 1.2	Comments	In each of the three countries, the reports were developed through collaboration with country stakeholders from the Government, the private sector and academia.		
	Prepare, publis	h and disseminate the three assessment reports		
	Achieved	Yes		
Activity 1.3	Comments	The reports were prepared and cleared by the Lead Technical Officer (LTO), but it was decided that publication as an EAO report was not necessary or appropriate. These reports		

	The tilapia aquaculture value chain is improved and the capacity of small to medium-scale aquaculturis and aquaponics small and medium-sized enterprises (SMEs) is enhanced to produce safe and high qual fish and aquaponics products for the domestic market				
Output 2	Indicators Target				
Output 2	and circum	aterials developed that meet the local situation istances. s participate actively in the training.	???	Yes	
		chain analyses carried out.			
Baseline	???	<u>???</u>			
Comments	This output was fully delivered, and the aquaculture value chain was strengthened through the three activities that were implemented in the project countries. The work focused on SMEs to support the financial sustainability of aquaponic businesses. Major constraints to the supply chain were identified, which should provide guidance to future interventions of FAO, development agencies or government actors.				
	Develop aquad	culture and fisheries value chains training materials for	specific use in the Car	ibbean region	
Activity 2.1	Achieved Yes Comments Materials for training were developed and used during the regional training. Elements of value chains, health and safety, and food losses were included.				
		ional (for the four countries) training on aquaculture va s and value chain development Yes	alue chain, analysis, ar	oproaches,	
Activity 2.2	2 A regional workshop was held with participants from the four project countries, with participation of three additional countries from a complementary project. The public of the workshop report can be found at:				

Activity 3.1 Activity 3.2 Activity 3.2 Activity 3.3 Activity 3.3 Ac	ieved ieved inments ieved ieveed	t four existing farms to function as demonstration and Yes The scope of this activity was narrowed to three cour removed), and was fully delivered. A new aquaponics Barbados (Adams Aquafarm) and Saint Kitts (Greenle the Bahamas, an existing training facility was strengt was procured by FAO, with national partners carrying cure capacity-building materials of proven successful v aponics, greenwater tank/pond culture, cage culture Yes The primary aquaponics farmers (one for each count materials for aquaponics. ic-private partnerships for at least two demonstration geterm capacity building and extension in aquaculture Partially Private farmers in Barbados and Saint Kitts received of the construction and installation of the training facili has not yet signed an agreement with the farmer, to For follow-up, it is recommended that the formalizat In the Bahamas, no suitable private sector farmers co to take on the demonstration-farm-related training r institution, BAMSI, was widely considered the best p and long-term operation of an aquaponics demonstr arrangement was needed for this country. SMEs in the aquaculture value chain has increased to p profitable in the domestic market	Intries (with Antigua and E is training facility was built eaf Farms) through PPPs. I thened at BAMSI. The equid g out the construction wo viable aquaculture product e), as necessary try) received capacity-buil in and training facilities far re and aquaponics equipment from FAO, and ity. In Barbados, the Gove o ensure a long-term progr tion of the relationship be ould be identified who we responsibilities. However, possible partner for the es ration facility. Therefore, r	t in In hipment orks. ction ding ms – d completed rnment ramme. e advocated. ere willing a public tablishment no PPP
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		MEs in the aquaculture value chain has increased to p	produce more efficiently a	and be more
			,	
COIII				
	cators		Target	Achieved
	 20 key stakeholders (private entrepreneurs and extensionists) trained in latest technologies and practices in aquaculture and aquaponics. At least 50 persons in the four countries have been trained in basic aquaculture and aquaponics and assisted with advice in starting up or improving their businesses. 		<mark>???</mark>	Partially
Baseline ???				
Duri	During the regional training workshops in Antigua and Barbuda and Barbados the farmers were,			
	among others, trained in feasibility assessment/business planning and value chains.			
	Organize a regional aquaculture and aquaponics training of trainers for demonstration and training fac staff			ning facility
Activity 4.1	ieved	Yes		
	nments	A regional aquaponics training of trainers' (ToT) workshop was held with participants from the four project countries. The publication on the workshop can be found here: http://www.fao.org/3/a-i7953e.pdf.		
Orga	anize <u>nationa</u>	al-level basic training in aquaculture and aquaponics a	at the demonstration and	training
	lities			
Achi	ieved	Partially		
Activity 4.2	 The Bahamas held national-level training sessions for students and general public at BAMSI, with an FAO consultant providing backstopping support. In Barbados, the private farmer ran training courses for interested persons, as well as providing ongoing technical support to farmers who purchased systems from the company. In Antigua, there is a limit to how many people require training. In addition, projects from other agencies are supporting training in aquaponics at the demonstration sites that were supported by the TCP. In Saint Kitts, the first training session will be organized only after the farmer has received the required tilapia, but all the arrangements for delivering a technically sound training were put in place with FAO TCP support. 			

	Aquaponics benefits for small-scale fish and vegetables production disseminated among youth and the general public					
	Indicators		Target	Achieved		
Output 5	 Four transportable aquaponics systems for demonstration constructed. Demonstrations held at more than 20 schools and eight agricultural fairs. Awareness-raising and promotional materials developed and 		<mark>???</mark>	Partially		
Baseline	distributed in the four countries at fairs and among schools.					
Comments	This output was deemphasized during the project. Aquaponics systems were present at all agricultural fairs without FAO expenditure, although FAO offered technical support to project beneficiaries.					
Activity 5.1						
		nd distribution of promotional, awareness-raising and	capacity-building ma	aterials on		
	Low-cost, low-	risk, small-scale aquaponics systems for schoolchildren				
Activity 5.2	Achieved Comments	Partially Awareness-raising brochures and capacity-building b				
	at two annual agriculture fairs (AGROFEST) in Barbados in 2016 and 2017.					
	An economically attractive and environmentally feasible investment proposal/business case for a Caribbean Blue Revolution for development bank – private sector funding					
	Indicators		Target	Achieved		
Output 6	technically for public a – An attractiv	ent proposal developed that is economically and sound, in line with Blue Growth goals and attractive nd private parties. ve investment/business proposal presented to relevant encies and potential investors.	<mark>???</mark>	Partially		
Baseline	<mark>???</mark>					
Comment	The "master document" was prepared, which portrays the historical production, social, financial and environmental aspects of aquaculture in the Caribbean; and is the first document of its kind. The scope of the document was beyond the scale of the TCP; which only covered four countries, while the proposal looks at the wider Caribbean. The draft is currently undergoing internal review and clearances, which will be followed by a strategic plan on who/how best to circulate. The individual case studies, working documents and business plans are offshoots of the master document, and will be prepared as necessary.					
	Develop a draft economically and environmentally feasible investment proposal/business case for a					
	Caribbean Blue Revolution, in partnership with key regional and national organizations, including development banks					
	Achieved	Yes				
Activity 6.1	Comments A draft proposal/business case was prepared, which was developed through a Letter of Agreement with an active partner. The service provider accomplished all of the planned outputs, but given the nature of the document, internal procedures and strategic planning are required before further circulation is carried out. From this draft, supporting documents are being prepared for regional partners and investment entities.					
	Organize a regional (for the four countries) training on aquaculture value chain, analysis, approaches,					
	-	and value chain development				
Activity 6.2	Achieved Comments	No The proposal/business case for the "Caribbean Aqua circulated following internal clearances and the deve				

Outreach, Marketing and Reporting Unit (PSRR) Business Development and Resource Mobilization Division (PSR)

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