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SUSTAINABLE FISHERIES MANAGEMENT PROJECT (SFMP) Progress Report



APRIL 1 – JUNE 30, 2019

THE
UNIVERSITY
OF RHODE ISLAND
GRADUATE SCHOOL
OF OCEANOGRAPHY



Hen Mpoano



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Cover photo: Minister of Fisheries and Aquaculture Development, Hon. Elizabeth Naa Afoley Quaye, James Lykos, Acting Economic Growth Director for USAID/Ghana, and Michael Authur-Dadzi, Executive Director of the Ghana Fisheries Commission symbolically open the Densu estuary oyster harvesting season after a five-month community-declared closed season. They are observed by Francis Palm Nii Ampofo, Representative of Sakumor We Chief Priest

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SNV	http://www.snvworld.org/en/countries/ghana
Resonance Global	https://resonanceglobal.com/

ACRONYMS

CAC	Canoe Authorization Card
CEWEFIA	Central and Western Region Fishmongers Improvement Association
CLaT	Child Labor and Trafficking
CRC	Coastal Resources Center
CSLP	Coastal Sustainable Landscapes Project
DAA	Development Action Association
DFAS	Department of Fisheries and Aquatic Sciences
DOPA	Densu Oyster Pickers Association
EG	Economic Growth
F2F	Fisher to Fisher (Dialogues)
FC	Fisheries Commission
FEU	Fisheries Enforcement Unit
FoN	Friends of Nation
FSSD	Fisheries Scientific Survey Division
FtF	Feed the Future
FY	Fiscal Year
GIS	Geographic Information System
GITA	Ghana Industrial Trawlers Association
GNCFC	Ghana National Canoe Fishermen's Council
GOG	Government of Ghana
HM	Hen Mpoano
ICFG	Integrated Coastal and Fisheries Governance
IJM	International Justice Mission
IR	Intermediate Results
IUU	Illegal, Unreported, and Unregulated (Fishing)
LOP	Life of Project
LUSPA	Land Use and Spatial Planning Authority
M&E	Monitoring and Evaluation
MASLOC	Microfinance and Small Loans Centre
MOFAD	Ministry of Fisheries and Aquaculture Development
MSMEs	Micro, Small and Medium Scale Enterprises
MT	Metric Tones
NAFPTA	National Fish Processors and Traders Association
NGO	Non-Governmental Organization
NMFMP	National Marine Fisheries Management Plan
NRM	Natural Resource Management
SFMP	Sustainable Fisheries Management Project
SNV	Netherlands Development Organisation
SSG	SSG Advisors, now Resonance Global, an implementing partner of SFMP
STWG	Scientific and Technical Working Group
TA	Technical Assistance
UAV	Unmanned Aerial Vehicle
UCC	University of Cape Coast
URI	University of Rhode Island
USAID	United States Agency for International Development
USG	United State Government
VSLA	Village Savings and Loans Association

TABLE OF CONTENTS

ACRONYMS.....	iv
TABLE OF CONTENTS	v
LIST OF FIGURES	vi
LIST OF TABLES.....	vi
1. PROGRAM OVERVIEW AND SUMMARY	1
1.1 Program Description/ Introduction	1
1.2 Summary of Results	2
2. ACTIVITY IMPLEMENTATION PROGRESS	2
IR 1 Strengthened Enabling Environment for Marine Resources Governance	2
IR 2 Science and Research Applied to Policy and Management	2
IR 3 Creating Constituencies and Stakeholder Engagement	4
IR 4 Applied Management.....	6
IR 5 Gender.....	12
IR 6 Public Private Partnerships	12
IR 7 Capacity Development.....	13
PROJECT MANAGEMENT.....	14
3. INTEGRATION OF CROSSCUTTING ISSUES AND USAID PRIORITIES	15
3.1 Gender Equity and Female Empowerment	15
3.2 Sustainability Mechanisms	15
3.3 Environmental Compliance	15
3.4 Global Climate Change.....	16
3.5 Policy and Governance support	16
3.6 Local Capacity Development.....	16
3.7 Public Private Partnerships	16
3.8 Science, Technology, and Innovation	16
4. STAKEHOLDER PARTICIPATION AND INVOLVEMENT	16
5. MANAGEMENT AND ADMINISTRATIVE ISSUES	16
6. LESSONS LEARNED	17
7. PLANNED ACTIVITIES AND EVENTS FOR NEXT QUARTER	17
8. FINANCIAL INFORMATION	19
ANNEX A: PROGRESS SUMMARY	20
ANNEX B: TRAINET REPORT	29
ANNEX C: NEWLY RELEASED PUBLICATIONS	30

LIST OF FIGURES

Figure 1: President David Dooley of URI and Vice Chancellor Joseph Gharthey Ampiah of UCC signing the agreement of the PhD dual degree program	4
Figure 2: The banner on registration and submission of abstracts posted on University of Cape Coast website, March 2019.	5
Figure 3: Kofi Kinaata performing at a ceremony to “close the sea” at Winneba in the Central Region on May 14, 2019.	6
Figure 4: Left: FC officer showing enumerators how to measure the weight of fish.	7
Figure 5: A fisherman gutting fish to identify the gonads, in Axim.	8
Figure 6: Map showing locations of socio-economic impact surveys as of end of June , 2019	8
Figure 7: Left: Front view of draft design of CAC Right: Back view of draft design of CAC.	9
Figure 8: Members of DOPA, Traditional leaders and members of the Ga South District Assembly during the short ceremony to declare a 2nd closed season for the Densu Delta in November 2018.	10
Figure 9: DOPA members on a walk through some principal streets in the Bortianor/Tsokomey	10
Figure 10: Ms. Elizabeth Naa Afoley Quaye (front row - 1st from right) and Mr. James Lykos (front row – 2nd from right) symbolically opening the oyster picking season.	11
Figure 11: The Hon Minister of MoFAD delivering her keynote address	11
Figure 12: Table of values for Baseline and Final OCA Scores for Organizations	14
Figure 13: Comparative Scores - Compliance to Action Plan	14

LIST OF TABLES

Table 1: Sustainable Fisheries Management Project Summary	1
Table 2: Summary of Results: Year 5 Quarter 3 (April 1 – June 30, 2019)	2
Table 3: Financial Information	19
Table 4: PMP Indicator progress - USAID Standard Indicators and Project Custom Indicators	20
Table 5: Trainings Reported for the Period April 1 – June 30, 2019.....	29

1. PROGRAM OVERVIEW AND SUMMARY

Table 1: Sustainable Fisheries Management Project Summary

Program Name	Sustainable Fisheries Management Project (SFMP)
Activity Start and End Date	October 22, 2014 to September 30, 2020
Name of Prime Implementing Partner	Coastal Resources Center University of Rhode Island
Agreement Number	AID-641-A-15-00001
Name of Sub-awardees	Hen Mpoano (HM) Friends of the Nation (FoN) Netherlands Development Organization (SNV) Resonance Global Central and Western Fishmongers Association (CEWEFIA) Development Action Association (DAA)
Major Counterpart Organizations	Ministry of Fisheries and Aquaculture Development (MOFAD) Fisheries Commission (FC)
Geographic Coverage (cities and or countries)	Ghana: Central Region, Western Region, Greater Accra Region, Volta Region
Reporting Period	April 1 – June 30, 2019

1.1 Program Description/ Introduction

The objective of the USAID/Ghana Sustainable Fisheries Management Project (SFMP), a five-year project (originally October 2014 - October 2019 and now granted a no cost extension through September 30, 2020), is to rebuild marine fisheries stocks and catches through adoption of responsible fishing practices. The project contributes to the Government of Ghana's fisheries development objectives and the US Government's ***Feed the Future Initiative***. Working closely with the Ministry of Fisheries and Aquaculture Development (MOFAD) and the Fisheries Commission (FC), USAID/Ghana SFMP aims to end overfishing of key stocks important for local food security through achievement of the following intermediate results:

- Improved legal enabling conditions for co-management use rights and effort-reduction strategies.
- Strengthened information systems and science-informed decision-making.
- Increased constituencies that provide the political and public support needed to rebuild fish stocks.
- Implementation of applied management initiatives for several targeted fisheries ecosystems.

More than 100,000 men and women involved in the local fishing industry are expected to benefit from this project and tens of thousands of metric tons of additional high quality low cost food supply from fisheries can be regained via improved and sustainable management of the marine fish stocks in Ghana's waters.

The Coastal Resources Center (CRC) at the University of Rhode Island's Graduate School of Oceanography is the lead implementer of the SFMP and has been working with a consortium

of other international and local partners throughout the implementation of the project. These include SNV Netherlands Development Organization, Resonance Global (formerly SSG-Advisors), Hen Mpoano (HM), Friends of the Nation (FoN), the Central and Western Fishmongers Improvement Association in Ghana (CEWEFIA) and the Development Action Association (DAA). SFMP also works with organizations that were not originally part of the consortium but through implementation were identified as critically important players in the sustainable fisheries management space. These include the National Fish Processors and Traders Association (NAFPTA), the Ghana National Canoe Fishers Council (GNCFC), and the National Association of Fisher Association of Ghana (NAFAG). In Years 1-4, SFMP complemented and worked closely with USAID's Coastal Sustainable Landscapes Project (CSLP-recently completed) particularly on mangrove forest rehabilitation and application of GIS for aerial mapping of mangroves and changes in coastal landscapes. The SFMP project continues to work closely with the University of Cape Coast/Department of Fisheries and Aquatic Science (UCC/DFAS) under USAID's University Institutional Strengthening Project.

The SFMP builds on the best practices and lessons learned from the USAID/Ghana Integrated Coastal and Fisheries Governance (ICFG) Program implemented from 2009 - 2014. Based on lessons learned in the previous project, SFMP focuses efforts on small pelagic fisheries along the entire coastline and fisheries and essential mangrove fish habitat in three coastal estuaries - Densu, Pra and Ankobra. SFMP supports improvements in the value chain of small-scale smoked fish that engages tens of thousands of women fish processors along the coast and in target estuaries. The SFMP project contributes to safe and hygienic smoked fish production for Ghana that sustain and improve the livelihoods of women fish processors. The project also implements actions to reduce Child Labor and Trafficking (CLaT) in the Central region of Ghana, a key source of CLaT activities in the country.

The SFMP works with a wide range of government institutions including; the Ministry of Fisheries and Aquaculture Development, the Fisheries Commission, Regional Coordinating Councils, the Land Use and Spatial Planning Authority (LUSPA), Local Government Authorities in the Central and Western Regions, and the Ghana Marine Police. Additional support is also provided to a number of local NGOs and women's associations that are active in fisheries management.

This progress report details activities, results, and lessons learned during the third quarter of Project Year 5 (FY19). It highlights the current status of the project, how partners contributed to the achievement of targets and how these achievements will be sustained to meet the overarching goal of SFMP.

1.2 Summary of Results

Highlights of activities and achievements for the third quarter of Year 5 include the following: Strengthening Enabling Environment for Marine Fisheries Management: Comprehensive Cabinet Memos seeking Cabinet approval for revision of the national fisheries law, culminating in the development of new fisheries legislation, and adoption of a new national co-management policy were submitted in Quarter 2 of this year to MOFAD/FC. Despite stated intentions and targets of the project in advancing progress on this front, the efforts seem to have stalled largely by internal processes and procedures at MOFAD/FC for the transmittal of the Memos to Cabinet. Exigencies of preparatory activities towards the implementation of the first fisheries closed season (May 15-June 15, 2019) might have preoccupied the staff at MOFAD/FC and consequently contributed to little to no progress in this area during Y5/Q2.

With the closed season declared, in Y5/Q3 the COP and Senior Fisheries Advisor initiated a series of high-level meetings to restart movement on the cabinet memos and work with the Legal Expert engaged by the project to finalize the Drafting Instructions, clarifying all issues that require policy approval from MOFAD/FC. The high-level engagements and meetings warrant some level of continued support under the no-cost extension period.

The limited support under the No Cost Extension for enhancing the enabling legal environment could be curtailed if there is no demonstration of willingness on the part of the government to move the process forward. However, in May and June 2019, MOFAD and FC verbally restated their intent to move the cabinet memos forward, and to have a combined senior staff and experts meeting early in Y5/Q4 to address gaps in the current version of the draft Drafting Instructions and provide clarity on a number of policy issues. The meeting is tentatively scheduled for the first half of July 2019. However, with national presidential and parliamentary elections scheduled for 2020, the time window for drafting a new legislative instrument (New Fisheries Act) may be coming to an end as the Attorney General's office will be reluctant to support new legislative initiatives after the June – July period this year. If the Cabinet Memo is not approved within this time period, SFMP support for the legal and policy reforms will be truncated with the Drafting Instruction being the final deliverable.

Science and Research Applied to Policy and Management: SFMP completed the population discrimination genetic study of *Sardinella aurita* and *Sardinella maderensis* in West Africa (a sponsored Master's thesis at URI by Evelyn Takyi, from UCC). The genetic research demonstrated that these two important species constitute one-unit stock, shared by several countries. The findings of this research reinforce the fundamental principle of regional fisheries management, reemphasizing the need for states to cooperate and ensure conservation and utilization of transboundary fisheries resources. The FCWC provides the institutional framework for fostering interstate collaboration towards the sustainable management of the shared *Sardinella species*. Evelyn Takyi has since completed her graduate study at URI and returned to Ghana in June 2019.

Creating Constituencies and Stakeholder Engagement: The USAID SFMP and the UCC agreed to jointly support a National Conference on Fisheries and Coastal Environments August 19-21, 2019. The conference will highlight progress and contributions under the two five-year USAID/Ghana projects implemented by the University of Rhode Island Coastal Resources Center (SFMP) and the University Institutional Strengthening Project implemented by the University of Cape Coast. Staff, Scientists, CSOs, Fishers' Associations, Community Members and Government Representatives from both projects are expected to present a summary of findings and lessons learned, success stories as well as challenges of the two USAID funded projects, during five years of their implementation in Ghana.

Supporting Implementation of Applied Management Initiatives: To address the current rate of decline of the small pelagic stocks, rebuild and sustainably manage it, MOFAD/FC for the first time implemented a closed season for the artisanal and inshore fisheries. The 2019 closed fishing seasons were May 15 – June 15, 2019, for artisanal and inshore fleets and August 1 – September 30, 2019, for the commercial trawler fleet. An important and significant outcome for SFMP, the first ever declaration of closed seasons for all fleets in a single year is a significant milestone, but insufficient by itself to rebuild the fish stocks.

To provide information for appropriate timing of closed seasons and set baselines against which to measure future progress, SFMP is providing financial and technical support to MOFAD/FC to undertake biological and socio-economic surveys to assess the impacts of the inshore fisheries closures on fish stocks, fisher folk and consumers. In addition to the biological and socio-economic surveys, the project also supported MOFAD/FC in the closed

season initiative through; printing of t-shirts, posters, production of jingles, airtime on major radio stations across the four coastal regions and community and regional durbars to increase support for the closed season. SFMP supported MOFAD/FC to engage the services of Ghanaian musician, Martin King Arthur, popularly known as Kofi Kinaata, to compose an anthem to promote the enforcement and observance of the fisheries closed season for the artisanal and inshore fleet. The video/anthem can be accessed at <https://www.youtube.com/watch?v=rwM9JDLss0U>.

SFMP worked with the Development Action Association (DAA) to engage local resource users in the Densu Delta in a learning process spanning several years through which the capacity of Densu Delta resource owners began to understand the linkages between their over harvesting of oysters, the over harvesting of mangroves, and the effects of climate (tides, salinity, pH, etc.) on their oyster harvests. Through this process, local resource users formed a new organization called the Densu Oyster Pickers Association (DOPA). Through capacity building and their own community-based science and monitoring approach, among other actions, they recognized the importance of establishing a closed season for oyster harvests to allow for spawning and extended growth of oysters. The November 2018 to April 2019 closed season was the second time resource users/owners agreed to close their oyster harvest in two consecutive years. To mark the reopening of the delta, a community durbar was held at the Tsokomey landing site on April 15, 2019. The opening of the season was attended by DOPA members, Local Traditional Authorities, MoFAD, FC, USAID, Fish Processors and officials from Municipal Assembly and the public.

Supported by SFMP, a clean-up of the artisanal boat (canoe) registry by the FC reduced the number of canoes from 14,700 to 13,807. Currently, the recommended sustainable number of artisanal canoes is 9,095. The Canoe Registry cleanup exercise is a key step towards the implementation of the Canoe Authorization Card (CAC) program, which seeks to regulate and eventually cap the marine canoe fleet to reduce overcapacity and related fishing effort to sustainable numbers. Registration of the canoe fleet is a precursor to establishing a moratorium on new entrants, which would move Ghana's artisanal canoe fleet from open access to a managed access fishery, which is recognized as a global best practices and a pre-condition for sustainable fisheries management and will mark another significant milestone towards recovery of the small pelagic stocks in Ghana.

Volunteer Savings and Loan Associations (VSLAs) continue to improve the resiliency of project beneficiaries. Focused on women's empowerment but also including men, VSLA associations continue to grow. One association has grown its membership from 14 to 44 over a period of thirteen months, has accumulated savings of over GH¢23,450, and loaned out GH¢22,300 to its members. The group shared out savings at the end of April for advance purchases of fish to smoke and sell during the closed season. Activities that link between women's access to finance and their willingness to support sustainable fisheries management will be started during the remainder of Year 5 and the Year 6 no-cost extension through the new Global Women's Learning initiative.

A total of 32 persons (22 men and 10 women) received short-term agricultural sector productivity and food security training. Also, 73 MSMEs all females in the Central and Volta Regions have received \$ 13,531 from the Microfinance and Small Loans Centre (MASLOC) as credit for working capital or construction of an *ahotor* oven.

Supporting Gender Equity and Empowerment: Following the development of a results chain in November 2018, 375 women in 11 communities have been selected to participate in this initiative on the links between women's empowerment, access to finance and sustainable fisheries management.

Supporting Improved Capacity Development: Seven program staff of SFMP, DAA, CEWEFIA, FoN, Hen Mpoano and NAFPTA were trained to respond to international requests for grant applications by a certified fund raising executive supported by the International Justice Mission (IJM). This opportunity arose through SFMP and IJM's cooperation on anti-CLaT activities.

Table 2 below summarizes the standard USAID indicators for SFMP showing results completed in the first quarter of FY 19 vis-a-vis targets. Significant deviations between results and targets are explained in Annex A which also shows custom project indicators.

Table 2: Summary of Results: Year 5 Quarter 3 (April 1 – June 30, 2019)

Standard Indicators	Baseline FY 2015	Annual Target	Year 5 (FY19) Results	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
Number of hectares in areas of biological significance and/or natural resource showing improved biophysical conditions as a result of USG assistance (EG 4.8.1-1)	0	610,900 (small pelagics fishing area)	0	0	0	N/A	N/A		N/A (Tracked annually)
Number of agricultural and nutritional enabling environment policies completing the following processes/steps of development as a result of USG assistance in each case: (FTF 4.5.1(24)) 1. Analysis 2. Stakeholder consultation/public debate 3. Drafting or revision 4. Approval (legislative or regulatory) 5. Full and effective implementation	0	Target	Q1 Results						
		Policy, plan or Strategy	Step 1. Analysis	Step 2. Stakeholder consultation	Step 3. Drafting or revision	Step 4. Approval	Step 5. Full and effective implementation		
		Fish Act –Step 3	Completed	Completed	In process				Y
		CLaT strategy– Step 4	Completed	Completed	Completed	Approved			Y
		Co-Management. policy –Step 4	Completed	Completed	Completed	In process			Y
		NMFMP-Step 4	Completed	Completed	Completed	Approved	In process but not yet full implementation		Y
		Pra (CBMP) - Step 4	Completed	Completed	Completed	In process			Y
		Ankobra (CBMP) -Step 4	Completed	Completed	Completed	In process			Y

Standard Indicators	Baseline FY 2015	Annual Target	Year 5 (FY19) Results	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
		Densu (Oyster Plan) Step 4	Completed	Completed	Completed	In process			Y
		Gender Strategy -Step 4	Completed	Completed	Completed	Approved	In-process		Y
Number of institutions with improved capacity to develop, implement, manage and access fisheries management plans	0	19 (16 Ongoing, 3 New added)	4 CSO 9 GoG (68%)	4 CSO, 9 GoG (68%)	Same 13 (4 CSO & 9 GoG) (68%)	Same 13 (4 CSO & 9 GoG) (68%)	N/A	13 (4 CSO & 9 GoG) (68%)	N All 9 GoG institutions w/ improved capacity. All local IPs with improved capacity. 4 fisheries associations show some improvement but not sufficient progress.
Number of days of USG funded technical assistance in NRM and/or biodiversity provided to counterparts or stakeholders (EG 4.8.1-28)	0	262	415 (158%)	154 (59%)	180 (69%)	81	N/A	415 (158%)	Y Target over achieved
Number of hectares of biological significance and/or natural resources under improved natural resource management as a result of USG assistance (EG 4.8.1-26)	0	Target met already	N/A	N/A	N/A	N/A	N/A	N/A	Y Target met already
Number of District Assemblies supported with USG Assistance (Ghana CDCS, IR 2.3 indicator)	0	6 ongoing	6 on-going (100%)	6 on-going (100%)	6 on-going (100%)	6 on-going (100%)	N/A	6 on-going (100%)	Y

Standard Indicators	Baseline FY 2015	Annual Target	Year 5 (FY19) Results	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Annual Performanc e Achieved to the End of Reporting Period (%)	On Target Y/N
Number of climate vulnerability assessments conducted as a result of USG Assistance (EG 4.5.1)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of farmers and others who have applied new technologies or management practices as a result of USG assistance (FtF 4.5.2)	0	111,000 (assumes national measure for small pelagics adopted)	107751 M-107613 (99.9%) F-138 (0.1%)	0	0	107751 M-107613 (99.9%) F-138 (0.1%)	N/A	107751 (97%)	Y (National closed – 107,518 fishermen based on 2016 canoe frame survey report and 233 Oyster packers from Densu Oyster 2 nd closed season)
Number of Micro, Small and Medium Enterprises (MSMEs), including farmers, receiving business development services from USG assisted sources (FtF 4.5.2)	0	700	459 (67%) M-54 (12%) F-415 (88%)	166 (24%) M-2 (1%) F-164 (99%)	303 M-52(17%) F-251(83%)	0	N/A	459 (67%)	N (Indicator target not achieved due to slow down of activities.)
Value of agricultural and rural loans as a result of USG assistance (RAA) (WOG) EG.3.2-6	0	\$18,809	\$ 6,346 M-0 (0%) F-\$ 6,346 (34%)	0 (0%)	0 (0%)	\$ 6,346 M-0 (0%) F-\$ 6,346 (34%)	N/A	\$ 6,346 (34%)	N (MASLOC has disbursement loans for 33 processors awaiting 31 for disbursement)
Number of Micro, Small, and Medium Enterprises (MSMEs), including farmers, receiving agricultural-related credit as a result of USG assistance (RAA) EG.3.2-3	0	100	33 (33%)	0 (0%)	0 (0%)	33 (33%)	N/A	33 (33%)	N (MASLOC has disbursement loans for 33 processors awaiting 161 more to be disbursed)

Standard Indicators	Baseline FY 2015	Annual Target	Year 5 (FY19) Results	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
Value of new private sector investments in select value chains (FtF 4.5.2-38)	0	Tracked, No target	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Number of food security private enterprises (for profit), producer organizations, water users associations, women groups, trade and business associations, and Community-Based Organizations (CBOs) receiving USG assistance (RiA) (WOG) (FtF 4.5.2(11))	0	6 - (same group with ongoing support, no new group)	6 - same group with ongoing support	6 - same group with ongoing support	6 - same group with ongoing support	6 - same group with ongoing support	N/A	6 (100%)	Y (support is ongoing)
Number of members of producer organizations and community based organizations receiving USG assistance (S) (FtF 4.5.2(27))	0	8,200	717 (9%) M-72 (10%) F-645 (90%)	269 (3%) M-45 (17%) F-224 (83%)	448 M-27 (6%) F-421 (94%)	0	N/A	717 (9%)	N (Target to be achieved when the Canoe Authorization Card exercise is rolled out)
Number of public-private partnerships formed as a result of Feed the Future assistance (S) (FtF 4.5.2(12))	0	0 (LoP Target met already)	N/A	N/A	N/A	N/A	N/A	N/A	N/A (target of 2 over LoP already achieved)
Number of people receiving USG supported training in natural resources management and/or biodiversity conservation, and climate change, disaggregated by gender (EG 4.8.1-27/ 4.8.2-6)	0	1,854	3233 (174%) M-2383 (74%) F-850 (26%)	2,976 (161%) M-2267 (76%) F-709 (24%)	225 M-94 (42%) F-131 (58%)	32 M-22(69%) F-10(31%)	N/A	3233 (174%)	Y (Target over achieved due to high participation during F2F training events, high male % due to focus in F2F on canoe registration and Canoe Council whose

Standard Indicators	Baseline FY 2015	Annual Target	Year 5 (FY19) Results	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Annual Performanc e Achieved to the End of Reporting Period (%)	On Target Y/N
									members mainly male)
Number of persons/hours of training in natural resources management and/or biodiversity conservation supported by USG assistance (4.8.1-29)	0	12,354	20,092 (163%) M-14456 (72%) F-5636 (28%)	16,621 (135%) M-12596 (76%) F-4025 (24%)	2639 M-1292 (49%) F-1347 (51%)	832 M-568 (68%) F-264 (32%)	N/A	20,092 (163%)	Y (Target over achieved due to high participation during F2F training events). High male due to high male participation during F2F events
Number of individuals who have received USG-supported short-term agricultural sector productivity or food security training (RAA) (WOG) EG.3.2-1	0	2,554	3578 (140%) M-2437 (68%) F-1141 (32%)	3142 (123%) M-2269 (72%) F-873 (28%)	404 M-146 (36%) F-258 (64%)	32 M-22(69%) F-10(31%)	N/A	3578 (140%)	Y (Target over achieved due to high participation during F2F training events, high male % due to focus in F2F on canoe registration and Canoe Council whose members mainly male))
Number of individuals who have received USG-supported degree-granting agricultural sector productivity or food security training (RAA) EG.3.2-2	0	1	2 M-1(50%) F – 1 (50%)	2 M-1(50%) F – 1 (50%)	2 M-1(50%) F–1(50%)	2 M-1(50%) F–1(50%)	N/A	2 (200%)	Y (MSc. Student graduated in May 2019)

1 This indicator is similar to the Feed the Future indicator: Number of rural households benefiting directly from USG interventions (FtF 4.5.2-13)

2. ACTIVITY IMPLEMENTATION PROGRESS

Progress Narrative and Implementation Status

IR 1 Strengthened Enabling Environment for Marine Resources Governance

Fisheries Co-Management Policy, Legal Reform, and Harmonization of Regional Fisheries Policies. Discussions in 2018 with senior MOFAD and FC officers and staff highlighted the limited resources of MOFAD/FC to undertake extended and detailed drafting of cabinet memos seeking Cabinet level approval for new policies and a revision of the national fisheries law, SFMP supported drafting of draft cabinet memos seeking Cabinet approval for revision of the national fisheries law and adoption of a new national co-management policy which were submitted in Quarter 2 of this year. Despite stated intentions and targets of the project in advancing progress on this front, the efforts seem to have stalled largely by internal processes and procedures at MOFAD/FC for the transmittal of the Memos to Cabinet. Exigencies of preparatory activities towards the implementation of the first fisheries closed season (May 15-June 15, 2019) might have preoccupied the staff at MOFAD/FC and consequently contributed to little to no progress in this area during Y5/Q2.

With the closed season declared, in Y5/Q3 the COP and Senior Fisheries Advisor initiated a series of high-level meetings to restart movement on the cabinet memos and work with the Legal Expert engaged by the project to finalize the Drafting Instructions, clarifying all issues that require policy approval from MOFAD/FC. The high-level engagements and meetings warrant some level of continued support under the no-cost extension period. The limited support under the No Cost Extension for enhancing the enabling legal environment could be curtailed if there is no demonstration of willingness on the part of the government to move the process forward.

In May and June 2019, MOFAD and FC verbally restated their intent to move the cabinet memos forward, and to have a combined senior staff and experts meeting early in Y5/Q4 to address gaps in the current version of the draft Drafting Instructions and provide clarity on a number of policy issues. The meeting is tentatively scheduled for the first half of July 2019.

SFMP completed the population discrimination genetic study of (*Sardinella aurita* and *Sardinella maderensis*) in West Africa. The genetic research was the first of its kind in the region, which demonstrated that these two important species constitute one-unit stock, shared by several countries. These findings reinforce the fundamental principle of regional fisheries management that states should cooperate to ensure conservation and promote the FCWC's optimum utilization of fisheries objectives. This research was the Master's thesis of a URI graduate student from UCC (Evelyn Takyi) who completed her MS at URI and returned to Ghana in May 2019.

IR 2 Science and Research Applied to Policy and Management

Science and Technical Working Group (STWG)

The STWG continues to serve as the primary scientific and technical advisory group of the Fisheries Commission on the status of the small pelagic and demersal stocks. The STWG reviewed the status of the stocks through 2017 and made recommendations to the MoFAD and FC regarding fisheries closed season of the artisanal fisheries. The report was prepared and presented by FSSD staff who were trained at URI in fish stock assessment and fisheries management. The assessment results show continuous declining trends of catch, CPUE and biomass of both small pelagic and demersal stocks, while fishing mortality increased beyond sustainability levels.

The STWG's 2018 Stock Assessment report and the proposal for closed season recommendation have become the topic of discussions in many forums, workshops, radio and TV programs. Fishers agreed to a closure from May 15 – June 15 in 2019, which was endorsed by MoFAD, while the STWG recommended a science-based period within the peak spawning season between July and August.

In order to measure the impacts (positive, neutral or negative) of the seasonal closure, a monitoring and evaluation plan was developed by the STWG to provide a systematic assessment of the implementation and measure the benefits of its outcome. The monitoring and evaluation team from FSSD were trained in data collection using mobile technologies and assigned to collect data before and after the closure to evaluate the biological impact, draw lessons learned and create an adaptation framework for future seasonal closures.

Stock Assessment of the Small Pelagic Fisheries

The status of the small pelagic fish stocks in Ghana was updated through 2017. Results show that the stock remains severely overfished and that fishing mortality continues to increase reaching the highest and unsustainable level in 2017. Fishing mortality was estimated in 2017 at $F=0.8$ and the biomass at its lowest level in this time series, estimated to be at $1/10^{\text{th}}$ of the sustainable level at 30,000 metric tons.

The research vessel R/V Fridjof Nansen of FAO conducted, in September 2016, an independent measure of small pelagic fish biomass based acoustic technologies in Ghana's EEZ. The survey report showed that the small pelagic fish stocks are at the lowest biomass since 1990s, composed mainly of small size fish suggesting a severe growth and recruitment overfishing.

In addition, the Scientific Sub-Committee of CECAF completed a regional stock assessment of small pelagic stocks during its meeting in October 2018. The report showed that the biomass is only at 9% of the sustainable biomass level and that fishing mortality is 787% above the desired fishing effort. The sub-committee called on Cote d'Ivoire, Ghana, Togo and Benin to immediately close all fishing for small pelagic stocks.

UCC/DFAS/CCM Capacity Development

SFMP facilitated the development and conclusion of an agreement relative to PhD graduate degree program between URI/CELS and UCC/DFAS. The dual degree program was the result of coordinated efforts by SFMP to facilitate meetings between deans and faculty of both universities, which led to the signing of the agreement on May 2, 2019 at URI by the president of URI and the V-Chancellor of UCC. The agreement will allow students from UCC or URI to complete a PhD degree in biological and environmental sciences by completing the PhD degree requirements of both universities. UCC/CCM announced in June 2019 the availability of scholarships for the dual degree program through the new the ACECoR (African Center of Excellence in Coastal Resilience) awarded by the World Bank. Successful candidates are expected to enter the program in September 2019.



Figure 1: President David Dooley of URI and Vice Chancellor Joseph Ghartey Ampiah of UCC signing the agreement of the PhD dual degree program

IR 3 Creating Constituencies and Stakeholder Engagement

Legacy Documentation and Outreach and Communications

National Conference Planning: The USAID SFMP and the UCC originally scheduled to hold a National Fisheries Conference in July 2019 in the lead up to what was hoped would be an August closed season for all fishery fleets. With the announcement that the closed season for the artisanal and inshore trawler fleets would be held May 15-June 15, 2019 and the approval of no-cost extensions to both SFMP and UCC, the event was rescheduled to August 19-21, 2019 to allow additional time for preparation and submittal of technical and academic papers, as well as inclusion of initial results of the 2019 artisanal and inshore closed season biological and socio-economic monitoring results. The conference will present a summary of findings and lessons learned from the combined projects each of which has been implemented for the past five years with funding from USAID Feed the Future support to Ghana. The theme for the conference is “Fisheries and Coastal Governance in the Modern Age” to highlight the significant changes that have occurred in the last five years with USAID support and need to occur going forward to achieve a fully sustainable fisheries sector in Ghana. The conference is expected to be opened and closed by the Minister, the President/Vice President of Ghana, USAID Mission Director/Ambassador, and other high level dignitaries. Contributions will be from SFMP partners and stakeholders, UCC representatives and staff, academics, private sector, fishers and fish processors and others directly involved in the fisheries sector.



Figure 2: The banner on registration and submission of abstracts posted on University of Cape Coast website, March 2019.

See <https://ccm.ucc.edu.gh/conference-on-fisheries-and-coastal-environment-2019>

Publications: The SFMP team continue to document the major accomplishments, lessons learned, challenges, success stories and key results of all interventions in the last five years into a legacy set. The set is made up of a collection of twelve documents on the key results and lessons on the following theme areas that loosely follow the intermediate result categories of the project: Co-management and constituency building, Legal and policy reform, Post-harvest improvements, Gender mainstreaming, Institutional strengthening, as well as combatting Child labor and trafficking. These documents will serve as reference materials for all key stakeholders interested in Ghana's fisheries sector.

Fisheries News Mass Mailing: More than 600 SFMP stakeholders continue to receive weekly fisheries news update through SFMP's mail chimp campaign. The fisheries news updates are formatted email messages service that includes links to relevant news and information. The campaign remains a major source of information to many stakeholders.

Closed Season Communication Support: The implementation of this year's fisheries closed season for the artisanal sub-sector and inshore fishers in Ghana was supported by SFMP's communication team. SFMP's support included printing of t-shirts, posters, production of jingles, airtime on major radio stations across the four coastal regions and community and regional durbars to increase support for the closed season.

SFMP supported MoFAD/FC to engage the services of Ghanaian musician, Martin King Arthur, popularly known as Kofi Kinaata to compose an anthem to promote the enforcement and observance of the fisheries closed season for the artisanal and inshore fleet. The anthem titled "illegal fishing during closed season" raises awareness on the importance of the fishing closed season and urges compliance by all fisherfolk.



Figure 3: Kofi Kinaata performing at a ceremony to “close the sea” at Winneba in the Central Region on May 14, 2019.

See <https://www.youtube.com/watch?v=rwM9JDLss0U> for the full video.

IR 4 Applied Management

Implementation of the National Marine Fisheries Management Plan

Closed Season: As part of efforts by MOFAD/FC to address the current rate of decline of the small pelagic stocks, rebuild and sustainably manage it, the Government of Ghana for the first time implemented a closed season for the artisanal and inshore fishery between May 15 – June 15 2019 and August 1 – September 30 2019 for the Trawler fishery.

SFMP provided financial and technical support to MOFAD/FC to undertake biological and socio-economic surveys to assess the impact of the closure on fish stocks, fisher folk and consumers. A monitoring and evaluation plan has also been established to provide a systematic assessment of the closure and measure any impact. The plan will also serve as baseline to develop adaptation and mitigation framework for future closures.

Biological monitoring of the closed season – In collaboration with FC/FSSD. SFMP organized a 3-day workshop for FC zonal officers, enumerators and fishers from eight landing sites across the four coastal regions that will serve as data collection points across the coast. The workshop equipped the FC/FSSD staff, data enumerators and FC zonal officers with the skills to collect data before, during and after the closed season to provide information to evaluate the results and impacts of the 2019 closed to and to inform decisions on timing for future closed season periods.

Enumerators were trained on fish sampling and biological data collection and recording of their data using Kobo Toolbox, a mobile tablet-based application, to reduce errors and facilitate the transmission of field data in real time to a central database for analysis. Another key objective of the training was to guide the enumerators on how to select fishers of good standing in their respective landing beaches to participate in the closed season monitoring.

Involving fishermen directly in the collection of data is aimed at improving collaboration between fishers, scientists and regulators as well as an opportunity to combine local ecological knowledge with scientific data to make informed decision on resource management in the future. In addition, direct participation of fishers in the monitoring will give them better understanding of how science-based decisions are made relative to the spawning periods of the small pelagic stocks, particularly the sardinella. Ultimately, participation of fishers in data collection is intended to build support and broaden constituencies for future science-based fisheries management.



Figure 4: FC officer showing enumerators how to measure the weight of fish and how to gut and identify gonad of fish

The biological survey will continue when the artisanal and inshore trawl fisheries resume on June, 15 2019. The first preliminary data analysis report on both the socioeconomic and biological impact of the closed season will be reviewed by the STWG in November 2019 to include potential benefits from the commercial trawler closer from August 1 to September 30, 2019. After review and vetting by the STWG, it will be presented to the government and public.

Socioeconomic monitoring of the closed season: – SFMP also contracted a research team led by Prof. P.K. Ofori-Danson at the University of Ghana to monitor and assess the short-term socio-economic impact of the closed season. Main arguments of fishers and fish processors against the closed season are that there would be large socio-economic impacts to the lives. The socio-economic assessment is being conducted to provide insights into actual impacts and how these were mitigated by fishers and fish processors through various adaptive practices. Important for SFMP's gender program, the socio-economic assessment will include gathering data particularly related to women, children and women fish processors and the extent to which they were impacted by the artisanal and inshore closed season. The assignment demanded data on key socioeconomic indicators including nutrition from the fishing communities through Focus Group Discussions and Key Informant Interviews (KII). Through June, pre and during closure surveys are completed and a total of 579 household surveys (303 pre and 276 post) were completed and addition post closure surveys to take place in July.



Figure 5: A fisherman gutting fish to identify the gonads, in Axim

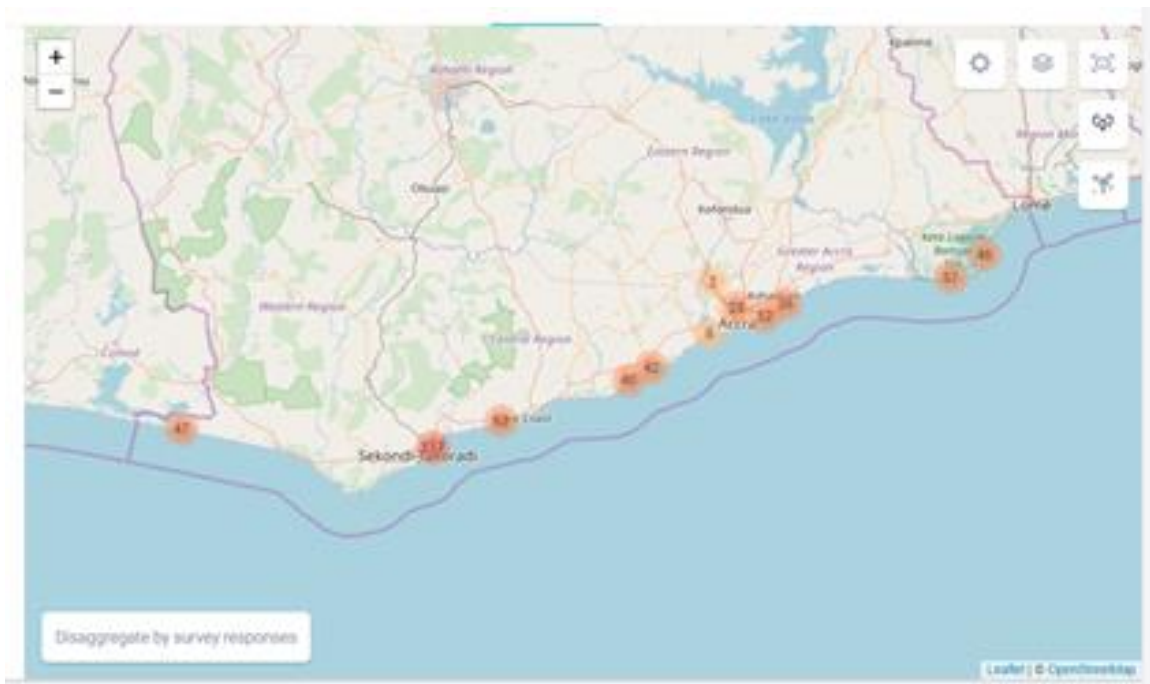


Figure 6: Map showing locations of socio-economic impact surveys as of end of June , 2019.

Artisanal Canoe Registration: Supported by SFMP, a clean-up of the national artisanal boat (canoe) registry by the FC reduced the actual number of registered canoes from 14,700 to 13,807. The recommended sustainable number of artisanal canoes is 9,095. The cleanup exercise is a key step towards the implementation of the Canoe Authorization Card (CAC) program, which seeks to regulate and eventually cap the marine canoe fleet to reduce overcapacity and related fishing effort to sustainable numbers. The issuance of these cards

will be conducted parallel to a national moratorium on new entries into the marine canoe sector and in the future eventually, address challenges with the sale and distribution of Premix.



Figure 7: Left: Front view of draft design of CAC Right: Back view of draft design of CAC

A consultant was contracted to design CAC cards and generate unique QR codes that will contain the details of each canoe based on the data in the national canoe vessel registry. At a meeting with representatives from the National Premix Fuel Committee and FC during the reporting period it was agreed that launching the marine canoe card identification/authorization system is an important and needed action in Ghana, and that the Fisheries Commission intended to continue to move this program forward in close collaboration with the Premix Committee, in part supported by SFMP. The Premix Committee Chairman agreed that in the future, when smart metering is installed at Premix distribution depots, these new cards can be linked to the national Premix database and used to record quantities of premix purchased by individual fishers and ultimately phase-in the requirement that CAC cards are required to purchase premix fuel at all marine canoe fuel depots along the coast. Although it will require additional software development and coding to link the cards to the national Premix database, doing so in the future will be an important step toward controlling Premix fuel distribution

The Chairman suggested that the requirement of the CAC for premix purchases and recording the quantity of fuel purchased be piloted in a few select communities with metered pumps as a means of testing the systems before rolling the program out coast wide. He noted the need for tamper-proof metering systems and that many depots have no adequate metering systems in place. He also noted the need for longer term planning to extend the registration program to the inland canoe fleet.

While SFMP does not have the resources to respond to all the suggestions and requests from the Premix Committee Chairman, the CAC program provides the foundation for further expansion that is clearly recognized by the Chairman.

For now, the QR codes on the CACs will be smart phone field-readable by any government official or enforcement officer and any enforcement or other information automatically uploaded to the national vessel registry database will be retrievable.

Community-Based Fisheries Management

Densu Delta 2nd Closed Season and Opening: In the Densu Delta areas, increasing population and an oyster fishery with open access to anyone who wanted to harvest oysters resulted in drastic drops in oyster harvests in recent years. As oyster harvesting is the livelihood of many in the Densu Delta, especially women, dwindling stocks were significantly impacting livelihoods and food security. To reverse the situation, an oyster management plan was drafted through a community-based process led by the Densu Oyster Pickers Association (DOPA). DOPA was formed by DAA (Development Action

Association) with SFMP support to guide the sustainable exploitation of the delta. The plan recommends the implementation of a five month ‘closed season’ as a biological management measure to boost the growth of oysters in the Delta. The Delta was therefore closed from November, 2018 to April 2019 for the second time in two years.



Figure 8: Members of DOPA, Traditional leaders and members of the Ga South District Assembly during the short ceremony to declare a 2nd closed season for the Densu Delta in November 2018.

To mark the reopening of the delta, a community durbar was held at the Tsokomey landing site on the April 15, 2019. The event was attended by 233 (Females 138, 95 males) to celebrate the gains made in implementing the Co-management plan. The Densu oyster harvesting season was officially opened by the Minister of Fisheries and Aquaculture Development, Ms. Elizabeth Naa Afoley Quaye at the Tsokomey landing site in the Ga South Municipality of Accra.



Figure 9: DOPA members on a walk through some principal streets in the Bortianor/Tsokomey

The opening season was attended by traditional authorities, officials of the USAID Agency, the FC, fish processors and members from the municipal assembly and the public. This year’s ceremony was on the theme; *“Co-Management – Paving the Way for Effective Natural Resource Sustainability.”*

In her speech, Honorable Minister Quaye said the success of closing the Densu Delta is a good example for MoFAD/FC. She pledged to use the lessons learned from this initiative to pilot co-management in the marine and inland fisheries in the country

She also used the occasion to reaffirm the Ministry’s commitment to implement a closed season for artisanal fleet from May 15 to June 15, 2019 to reduce excessive pressure on marine fish stocks and allow for spawning.

The acting Director of the Economic Growth office at USAID, Mr. James Lykos congratulated the DOPA recognizing the importance of the Densu Delta to their livelihoods and taking steps to manage it sustainably. Some oyster harvesters expressed their confidence that the second opening season would also lead to a bumper harvest to compensate for the long wait. “The first closed season was a great opportunity for us. When the river was reopened, I made GH¢80 a day. That was not possible before,” Bernice Agorogo, a member of the DOPA claimed.



Figure 10: Ms. Elizabeth Naa Afoley Quaye (front row - 1st from right) and Mr. James Lykos (front row – 2nd from right) symbolically opening the oyster picking season.



Figure 11: The Hon Minister of MoFAD delivering her keynote address

Village Savings and Loans Associations

In May 2018, SFMP set up 10 VSLA groups in the Volta region for members of the National Fish Processors and Traders Association as a savings platform for the women to accumulate working capital. The groups meet once a week after every market day and contribute GH¢10 – GH¢50 and a social/welfare fund of GH¢1 each. All the groups had accumulated savings of over GH¢12,000 as at March 2019. One group based in Keta-Atorkor has however, exceeded the expectations of the project. The group began with 14 members and has quickly grown to 44. In the 41 weeks of the group's existence, they have accumulated savings of GH¢23,450.

The group initially deposited their savings at the Progressive Credit Union until some of the members needed short-term credit to top up their working capital. So they withdrew the money and gave loans to these members. To date they have given loans of GH¢22,300 to 29 members at an interest of GH¢5 per month for every GH¢100 borrowed. The duration for every loan given is three months. While other fish processors are waiting on MASLOC to give them credit of GH¢1,000, the group is lending between GH¢200 and GH¢3,500 to its members.

Each VSLA box contains 25 passbooks, the group has used their social fund to print extra passbooks for the new members, while the other groups are calling on the project to give them more passbooks.

When asked how they were preparing for the closed season, the leader said they were going to share out their loans at the end of April, 2019, so they can buy fish, smoke, stock up and sell during the closed season. They expressed their anxiety on the success of a May/June closed season, as traditionally there is very low fish catch during this period. One member said, 'prior to SFMP supporting us to form this VSLA, no bank will lend to us, now we have created our own bank'. The group's meetings are well organized, records impeccably kept and they intend enrolling more members in the community, and perhaps start their own community bank. The VSLA is really improving the women's access to finance and the resiliency of these fish processors at Atorkor.

Value Chain and Post-Harvest Improvements: No additional work in this area was conducted in this quarter due to the funding slow down notifications.

IR 5 Gender

Gender Mainstreaming in Fisheries

Learning Initiative on Access to Finance, and Women empowerment: The growth and stability that economically empowered women add to every economy benefits all. This learning initiative will explore whether and how women's empowerment and access to finance can strengthen sustainable fisheries management. Following the development of the results chain in November 2018, 375 women in 11 communities have been selected to participate in this initiative. The women will be trained among others on marketing, leadership and advocacy skills, introduced to financial tools and engaged as key stakeholders in fisheries management. SFMP worked with the USAID project leaders to develop and finalize a results chain for this initiative and activities to occur in Ghana.

IR 6 Public Private Partnerships

No activities to report this quarter. However, URI has been contacted by the Ghana Industrial Trawlers Association (GITA) to organize a learning event, proposed to take place

in August at URI on gear technology and regulations to reduce by-catch and other fisheries management approaches. This trip may occur in the next quarter and will be financially supported by the GITA and URI.

IR 7 Capacity Development

The success and the sustainability of fisheries management results supported by SFMP in Ghana depend on the engagement and the capacity of stakeholder institutions over time. Organizational Capacity Development (OCD) of government, public university, and civil society organizations in the fisheries sector is, thus, an important cross cutting result area of SFMP. The project's organizational capacity assessment (OCA) and OCD initiatives support 9 Government of Ghana (GOG) and Public University units as well as 8 civil society organizations (CSOs). The CSOs are comprised of 4 local NGOs and regional membership associations, who are SFMP's implementing partners/sub-awardees, and 4 national membership associations. The Government of Ghana organizations include 4 units of the Fisheries Commission, the Fisheries Enforcement Unit, an interagency body, the Central and Western Region Land Use and Spatial Planning Authorities and the University of Cape Coast Department of Fisheries and Aquatic Sciences and Center for Coastal Management.

The final report of a rapid assessment conducted at the end of FY18 was published this quarter. It provides a brief consolidated qualitative snapshot of organizational capacity development outcomes achieved at that time for the key categories of CSO, GOG, and public university partners as a result of USAID/SFMP support, and their significance. It highlights how these categories of organizations have demonstrated and applied improved capacity and remaining challenges.

In addition, the final Organizational Capacity Assessment (OCA) for each of the 8 CSOs was completed this quarter. A summary of OCA Results at baseline and final is presented in Table 1 below. The Local NGO's and Regional Membership Associations chosen as implementing partners of SFMP are closer to having robust systems and structures in place to enable them in their capacity to provide quality and sustainable services to their constituents, and in their readiness and capacity to receive direct funding from USAID and other donors. These four organizations are better placed to contribute in the fisheries sector and to be drivers for effectively sustaining results the project has achieved over the last five years. The key action plan item that these organizations implemented was to develop stronger financial management systems, which builds the confidence that constituents and donors have in an organization's ability to manage finances effectively and efficiently. The analysis indicated that the four National Membership Associations do not yet have the adequate governance and program management processes, systems, and structures in place to provide high quality and sustainable services to their constituents for implementing and sustaining fisheries management improvements. The major challenge the National Associations had was their slow progress in putting systems in place to improve their Human Resources, Financial Management and Programs, which resulted in low scores. A final assessment of the Government and Public University organizations will be conducted in Q4 Fy19.

ORGANISATION	OCA SCORE											
	GOVERNANCE		SUSTAINABILITY		PROGRAMS		FINANCIAL MGT		EXTERNAL REL.		HUMAN RES.	
	Baseline	Final	Baseline	Final	Baseline	Final	Baseline	Final	Baseline	Final	Baseline	Final
Local NGO 1	5	5.4	3.7	5.2	4.2	5	3.8	5.7	4.8	5	5.1	5.3
Local NGO 2	4.3	5.9	4.5	5.7	5.2	6	4.9	6	5.2	5.7	5.1	5.8
Reg. Assoc. 1	4	6	3	5	4	6	3	6	4	6	3	6
Reg. Assoc. 2	4	5	4.3	5	4.4	5	3.9	5	3.9	5	3.3	5
Natl. Assoc. 1	3.2	3.4	2.6	3.6	3.3	3.3	2.3	2	3.3	3.6	2.2	2.1
Natl. Assoc. 2	2.9	3.2	2.7	2.8	3.1	2	1.6	2	3.6	3.5	3.5	2
Natl. Assoc. 3	2.2	2.5	1.8	1.3	1.6	1.5	1	1	3.2	2.8	1	1
Natl. Assoc. 4	2.3	3.1	0.5	2.7	1.4	2.2	1.3	1.6	2.3	3.6	2.5	2.8

Figure 12: Table of values for Baseline and Final OCA Scores for Organizations

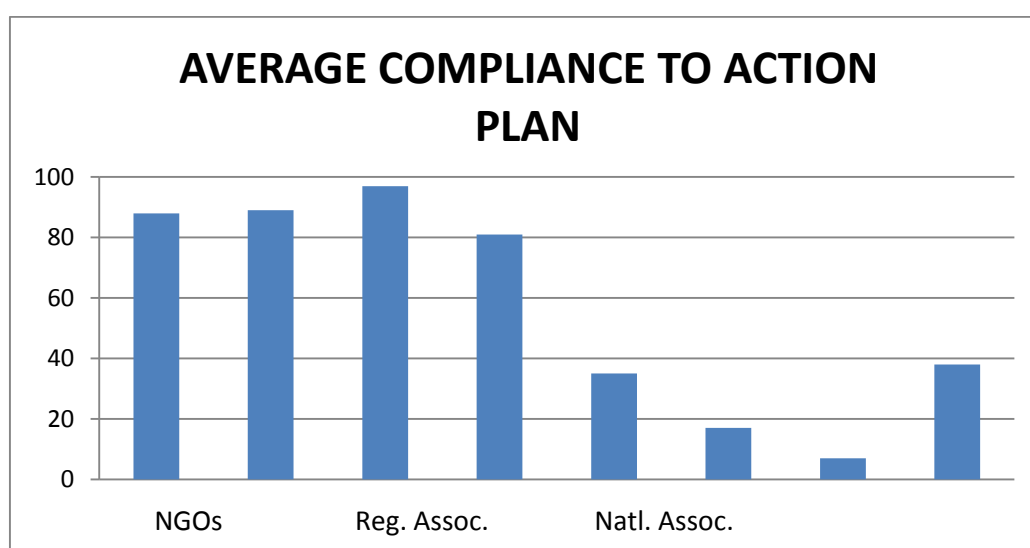


Figure 13: Comparative Scores - Compliance to Action Plan

Seven program staff of SFMP, DAA, CEWEFIA, FoN, Hen Mpoano and NAFPTA were trained to respond to international requests for grant applications by a certified fund raising executive supported by the International Justice Mission (IJM). This opportunity arose through SFMP and IJM's cooperation on anti-CLaT activities. The objective of this training was to position these organizations to respond to international funding opportunities to access much-needed resources and develop systems wherein funding achieves maximum impact.

PROJECT MANAGEMENT

Monitoring, Evaluation, Knowledge Management, and Learning Plan

SFMP monitoring and evaluation unit during the period reviewed targets for the no-cost extension, revised Year 5 and no-cost extension task plans, and trained enumerators for closed season socio-economic (4 males and 5 females) and biological (13 males and 2 females) surveys. The enumerators were equipped with the necessary skills to collect the required biological, socio-economic, nutrition and communication data for pre-, during- and post-closed season using the KoBo Toolbox, mobile pad based data entry, consolidation, and analysis tool. This evidence-based approach to informing future closed season decisions will also support an end-of-project assessment following up on the project baseline survey started with enumerators training and field data collection at the beginning of SFMP.

Closeout

With Q3 beginning based on the original 2019 closeout dates for SFMP, and many of the SFMP LoP targets achieved in Y4, staff drawdown began in August 2018 with the consolidation of the gender, post-harvest, and micro-finance work streams under a single staff person. Support for mobile phone-based micro-insurance and savings work streams was completed in December 2018. The contract for the administrative assistant ended in March 2020 and was not replaced, leaving the office manager and two drivers in place. The contract for the SFMP media relations specialist ended in May 2020 and an intern to the communications team ended her term at the beginning of June, leaving only the communications team-manager in place. The SFMP fisheries program officer resigned in June 2019. This position will be combined with the Senior Fisheries Advisor position in Y5Q4 to provide continuous support for policy and legal reform, as well as the completion and launch of the canoe authorization card program. The full finance and M&E teams remain in place with no changes. A no-cost extension was granted by USAID that moved back the closeout of SFMP to September 2020 but this does not change the core staff plan currently in place for FY 2020 which will be substantially reduced (6 full time staff only) in line with substantially less budget for the final year.

Implementation Challenges

The two notices of slowdowns of funding from USAID required us to terminate several subcontracts earlier than anticipated in Q2 and truncate other work originally projected to continue into Q3, and then once funding obligations were provided, a need to reprogram and accelerate some work areas. This increased the administrative and management work burden and was demoralizing for staff and partners, and uncertainty in timing of funding clearly made it difficult to make commitments to MOFAD and others during a critical time as the closed season approached. The unanticipated timing of the closed season being declared for May – June instead of the expected August period also required some agility in reprogramming cash flow projections and requiring some spending sooner than anticipated (monitoring the closed season, and communications) that required readjusting the timing of other activities (baseline survey repeat). The no cost extension request also created a bit of uncertainty and changes in programming until it was approved. Two senior staffing changes in June (see management issues section below) also had to be addressed. This has made the journey for us in Year 5 as on a rather rocky road.

3. INTEGRATION OF CROSSCUTTING ISSUES AND USAID PRIORITIES

3.1 Gender Equity and Female Empowerment

Please see Section 2, IR5 for information on activities directly related to this issue.

3.2 Sustainability Mechanisms

Business planning for DAA and CEWEFIA was supported throughout Quarter 2 and 3 with initial drafts for both organizations reviewed. These will be completed in Quarter 4 and discussed with the respective boards of each organization.

3.3 Environmental Compliance

In order to avoid environmental failure and safeguard the reputation of USAID, SFMP complies with USAID environmental compliance regulations and procedures. SFMP has

completed all construction activities that were funded in the original project design. No additional construction requiring environmental compliance audits are programmed in the work plan for the no-cost extension period. All previous construction met required standards. No environmental compliance issues or needs were identified in Y5Q3. Activities moving forward to project completion of the Y5 work plan are trainings, workshops, and monitoring which fall under categorical exclusions.

3.4 Global Climate Change

See Section 2, IR4.1: Planted mangroves stocks may be impacted by rising sea surface temps.

3.5 Policy and Governance support

See Section 2, IR1 which describes SFMP's policy and governance support initiatives.

3.6 Local Capacity Development

See Section 2, IR7 for capacity development activities of government, producer, processor and CSO groups.

3.7 Public Private Partnerships

SFMP targets for public-private partnerships were achieved in Y5Q1.

3.8 Science, Technology, and Innovation

See section 2, IR 2 and IR 6 for activities on the scientific and technical innovations achieved during the quarter.

4. STAKEHOLDER PARTICIPATION AND INVOLVEMENT

During Y5Q3, SFMP stakeholder engagement focused on providing outreach and communications in support of the closed season declaration for inshore and artisanal fleets. Led by the MOFAD/FC staff, SFMP supported public meetings, publication of outreach materials, meetings with the executives of the GNCFC, NAFAG, NAFPTA, and GITA, and meetings between executives of these organizations and their own stakeholders. In addition, smaller one-on-one meetings were conducted by the COP, Senior Fisheries Policy Advisor, and Fisheries Program Manager with the heads of these organizations. To increase awareness, promote dialogue and encourage compliance with the closed season, SFMP supported the development and airing of radio and television jingles, informational discussions, and a music video that rose to the 16th most popular video on YouTube Ghana. Finally, SFMP provided a short-term consultant to the MOFAD to help coordinate public engagement across the entire coast.

5. MANAGEMENT AND ADMINISTRATIVE ISSUES

In addition, to the staffing changes described above (see Closeout Section) Maurice Knight, the SFMP Chief of Party from May 2017 to June 2019, transitioned out of the COP position as the end of the original life of project design neared, and budget and programmatic work levels will be reduced in YF20 no cost extension period. Nearly all targets and outcomes were achieved prior to his departure. Going forward, two primary work areas, policy reform (adoption of a national co-management policy) and legal reform (drafting instructions for revision of the national fisheries law) influenced the selection of a new COP. In June, Dr. Raymond Babanawo was engaged to serve as the new COP through the end of the project's no-cost extension. Dr. Babanawo was already serving as the consultant senior legal advisor coordinating work between the senior legal advisor, Dr. Martin Tsamenyi, Kofi Agbogah, SFMP's senior fisheries policy advisor, CRC and the MOFAD/FC. As a result, he is already familiar with the policy and legal reform work of SFMP, is well known and accepted by the

staff of MOFAD/FC, and is respected by CSOs and private sector stakeholders working on fisheries policy and legal reform in Ghana. His engagement was timed to overlap with Mr. Knight to ensure a smooth transition. The project's other main areas of work, finance, administration, monitoring and evaluation, gender/post-harvest/women's empowerment, child labor and trafficking, and communications will continue to be led by those already in place and provide a strong supporting team for Dr. Babanawo. An orientation program for Dr. Babanawo was implemented in the May – June period and a trip for further orientation is planned at URI in October 2019.

6. LESSONS LEARNED

While Ghana's failure to sustain the first ever inshore trawler and artisanal fleets closed season declaration in 2018 was due to a number of reasons that included lack of sufficient and effective public involvement, lack of political support, and late declaration by MOFAD, declaration of a closed season for inshore trawler and artisanal fleets in 2019, while not perfect and still tainted by politics, showed organizational learning on the part of MOFAD. All fishing associations were invited to participate in consultations leading up to the formal setting of dates and communication on the part of the government was more focused and on point. The National Association of Fishing Associations of Ghana was asked to lead a consultation process to advise on dates that would most likely to be successful. The lessons learned during 2018 and 2019 are expected to carryover to future declarations and a 2020 closed season declaration is likely and hopefully during a more biologically significant period for stock rebuilding.

The 2019 closed season for inshore and artisanal fleets was successful partially because of learning through the 2018 efforts, but also a result of four years of USAID/SFMP support to MOFAD/FC including development of capacity and awareness of the importance of science in decision making. The SFMP support for the creation and operation of the independent Ghana Fisheries Scientific and Technical Working Group (STWG) also played an important role. Recommendations of the STWG on the need for a closed season was perhaps the most regularly cited support for declaring the closed season. The STWG recommendation that August would be the best month for a closed season was equally often cited in opposition of the declared May-June closed season period. The importance of an independent and credible body emphasizing science-based decision making outside of political influences is a lesson that can be carried to other natural resource-focused projects attempting large scale policy change. In principle, the Fisheries Commission has agreed to establish the STWG as an official independent advisory body to the Commission later in calendar 2019.

Proactive adaptive management on the part of the Coastal Resources Center responded effectively to two separate slow-down notices from USAID that delayed funding until Y5Q3 had started. Rapid reallocation of funds in close coordination with MOFAD/FC staff increased both SFMP and government partner readiness when funds were received, highlighting the importance of close coordination and communication with government partners.

The capture and documentation of broader lessons learned for the entire 5-years of SFMP is currently underway. Lessons learned will be presented at the National Conference on Fisheries and Coastal Issues. Lessons learned and summary documents printed and digitally compiled and selected documents will be printed and distributed to key stakeholders.

7. PLANNED ACTIVITIES AND EVENTS FOR NEXT QUARTER

Selected highlights of upcoming activities in the FY19 quarter four include:

IR1

- Expert group meeting for policy direction on outstanding issues
- Support Dr. Martin Tsamenyi to travel to Ghana to facilitate consultation on the gaps in the current version of the draft Drafting Instructions for the new fisheries bill.

IR2

- Ongoing monitoring and training of fishers to contribute in the monitoring and evaluation of biological aspects of stock related to the May-June closed season for inshore trawler and artisanal (canoe) sector, and the August-September closed season for commercial trawlers.
- Post closed season socio-economic assessment data collection and analysis
- Ongoing data collection at specific landing sites (schedule varies but is available from the senior fisheries policy advisor).
- Compilation and analysis of socio-economic monitoring of 2019 May-June closed season.

IR3

- Continued targeted engagement on the success of the 2019 closed season for inshore trawler and artisanal fleets and support for planning of the 2020 closed seasons
- National Conference on Fisheries and Coastal Issues August 19-21, 2019
- Writing and printing for legacy set to be distributed at the National Conference
- Newspaper publications on initial socio-economic and biological result
- TV discussion on socio-economic and biological result
- Radio discussion on socio-economic and biological result

IR4

- Launching of Canoe Authorization Cards in all coastal regions
- Inauguration and awareness campaign for Class 1 Recognition Scheme in July 2019 (TBD)
- Grant awards for 50 individuals signed on to the fish kitchen certification scheme
- Continued certification and strengthen the *Ahotor* artisan (builders) network
- Document *Ahotor* oven uptake by women fish processors and conduct a feedback (survey)
- Develop action plans for implementation of CEWEFIA and DAA business plans

IR5

- Identification and sensitization of new and expanding VSLA beneficiaries
- Procure additional VSLA kits
- Complete training manual & monitoring framework for women's learning initiative
- Design and print communication materials for the women's learning initiative
- Training-of-Trainers in preparation for women's learning network activities
- Set up and train 15 VSLAs beneficiaries groups
- Monitoring and data collection

IR6

- Private sector engagement targets were achieved in Y5Q1 and private sector engagements were phased out in preparation for project ending.

IR7

- Development and implementation of CEWEFIA and DAA actions plans

Project Management:

- M&E coordination and management of final products
- Data Quality Assessment (M&E System compliance and field Audit)
- Repeat baseline survey data collection
- Data analysis and report writing

8. FINANCIAL INFORMATION

Table 3: Financial Information

Budget Item	All Coop Agreement Funds Obligated, as of May 2, 2019 (US\$) Including Mod 12	Total Funds Expended to Date, through June 30, 2019 (US\$)	Projected Balance of Obligated Funds, Remaining as of June 30, 2019 (US\$)
Direct costs - SFMP	11,189,120	9,621,773	1,567,347
Sub-grantees	9,202,525	8,692,616	509,909
Construction	387,000	307,113	79,887
Training	349,655	208,703	140,952
<i>Total Line items</i>	21,128,300	18,830,205	2,298,095
Modified Direct	11,189,120	9,621,773	1,567,347
Indirect	2,859,526	2,501,661	357,865
Total	23,987,826	21,331,866	2,655,960

ANNEX A: PROGRESS SUMMARY

The summary Table below includes all standard USAID indicators as shown in Section 1.2 as well as SFMP custom indicators. It measures planned versus achieved during the reporting quarter and gives a cumulative performance in each quarter.

Table 4: PMP Indicator progress - USAID Standard Indicators and Project Custom Indicators

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Project Goal: Rebuild targeted fish stocks via adoption of sustainable practices and exploitation levels											
Project Goal Indicators											
Number of hectares in areas of biological significance and/or natural resource showing improved biophysical conditions as a result of USG assistance (EG 4.8.1-1)	Biophysical assessments, landing data, maps	2015	0	610,900 small pelagics	0	0	0	N/A	N/A	0%	This indicator is tracked when management measures are implemented.
1.a Biomass to produce MSY (B _{msy}) (Project Indicator)	Project record and surveys	2015	0	Stable /increasing (Assumes major management measures put in place)	2017 Biomass is low at B=21,750 MT.	2017 Biomass is low at B=21,750 MT.	2017 Biomass is low at B=21,750 MT.	N/A	N/A	N/A	Biomass for 2017 of 21750MT is far below target of 310,000MT MSY.
1.b Fishing Mortality at MSY (F _{msy}) (Project Indicator)	Project record and surveys	2015	0	Stable/decreasin g (Assumes major Management.	2017 fishing mortality is F= 0.88	2017 fishing mortality is F= 0.88	2017 fishing mortality is F= 0.88	N/A	N/A	N/A	0.88 is high as compared to rebuilding F _{MSY} target of F=0.4

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
				measures put in place							
Number of indirect project beneficiaries (number), the percentage of which are female (percent)	Project record and surveys	2015	0	Counting 135,401 if the closed season or second fishing holidays is adopted	107751 M-107613 (99.9%) F-138 (0.1%)	0	0	107751 M-107613 (99.9%) F-138 (0.1%)	N/A	107751 (80%)	This counted only and oyster pickers in the Densu estuary and marine fishermen who observed the closed season based on Fish Comm. 2016 canoe frame survey report. The new survey had a different number of fishermen than the 2013 estimate of 139,115 on which the initial target was set. Their household members were not counted. Based on the new official census of fishermen the target can be considered met.

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Intermediate Result (IR): POLICY: Strengthened enabling environment for marine resources governance											
Number of agricultural and nutritional enabling environment policies completing the following processes/steps of development as a result of USG assistance in each case: (FTF 4.5.1(24)) 1. Analysis 2. Stakeholder consultation/public debate 3. Drafting or revision 4. Approval (legislative or regulatory) 5. Full and effective implementation	Copies of laws, policies, strategies, plan or regulation	2015	0	FY19 Target	Q3 Results						Targets may be achieved by quarter 4. Co-management Policy and CB-Management plans projected to be approved by Q4.
				Policy, plan or Strategy	Step 1. Analysis	Step 2. Stakeholder consultation	Step 3. Drafting or revision	Step 4. Approval	Step 5. Full and effective implementation		
				Fish Act –Step 3	Completed	Completed					
				CLaT strategy–Step 4	Completed	Completed	Completed	Approved			
				Co-Management. policy –Step 4	Completed	Completed	Completed				
				NMFMP-Step 4	Completed	Completed	Completed	Approved			
				Pra (CBMP) -Step 4	Completed	Completed	Completed				
				Ankobra (CBMP) -Step 4	Completed	Completed	Completed				
				Densu (Oyster Plan) Step 4	Completed	Completed	Completed				
				Gender Strategy -Step 4	Completed	Completed	Completed	Approved			

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Intermediate Result (IR): SCIENCE & RESEARCH: Increased use of science and applied research to inform decision-making, law enforcement and the implementation of management plans											
Number of institutions with improved capacity to develop and implement managed access fisheries management plans	Project records, capacity assessment reports	2015	0	19 (16 Ongoing, 3 New added)	13 (4 CSO & 9 GoG) (68%)	13 (4 CSO & 9 GoG) (68%)	Same 13 (4 CSO & 9 GoG) (68%)	(6 CSO & 10 GoG) (68%)	N/A	16 (84%)	10 GoG and 6 CSO have improved capacity based on final OCAs and GoG qual. assess. report
Intermediate Result (IR): CONSTITUENCIES: Constituencies and political will for policy reform & implementation built											
Number of days of USG funded technical assistance in NRM and/or biodiversity provided to counterparts or stakeholders (EG 4.8.1-28)	Trip reports, project records	2015	0	262	415 (158%)	154 (59%)	180 (69%)	81	N/A	415 (158%)	Target over achieved because more technical assistants was provided locally on policy.
Number of information products disseminated in local media reports, radio shows, conference papers, and research studies (Project indicator).	Sample of reports	2015	0	6	10 (167%)	5 (83%)	2	3	N/A	10 (167%)	Indicator target over achieved
Intermediate Result (IR): APPLIED MANAGEMENT: Improved management of marine resources											
Number of hectares of biological significance and/or natural resources under improved natural	GIS Maps, policy documents	2015	0	LoP Target met already	N/A	N/A	N/A	N/A	N/A	N/A	Indicator LoP target met in FY18.

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
resource management as a result of USG assistance (EG 4.8.1)											
Number of DAs supported with USG Assistance (Ghana CDCS, IR 2.3 indicator)	Project records, Management.t plans	2015	0	6	6 (100%)	6 (100%)	6 (100%)	6 (100%)	N/A	100%	Target achieved and ongoing assistance to DAs.
Improvement in fisheries enforcement and prosecutorial chain to counter IUU fishing (increase/decrease in prosecutions and percent that lead to conviction) (Project Indicator)	Project, police, district attorney, and FEU records	2015	0	Increasing	Unknown	Unknown as data not received yet	Unknown as data not received yet	Unknown as data not received yet	N/A	Not able to determine	Will be reported when data is acquired from southern and western commands.
Number of climate vulnerability assessments conducted as a result of USG Assistance (EG 4.5.1)	Assessment reports	2015	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No target for FY 19. Target for LOP met – 2
Number farmers and others who have applied new technologies or management practices as a result of USG assistance (FtF 4.5.2)	Project records	2015	0	111,000 (assumes national closed season or other measure for canoes/ small pelagics adopted)	107751 M-107613 (99.9%) F-138 (0.1%)	0	0	107751 M-107613 (99.9%) F-138 (0.1%)	N/A	107751 (97%)	Y (National closed season – 107,518 fishermen based on 2016 canoe frame survey report and 233 Oyster pickers

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
											from Densu Oyster 2 nd closed season)
Number of micro, small and medium enterprises (MSMEs), including farmers, receiving business development services from USG assisted sources (FtF 4.5.2)	training participant records, lists of micro-enterprises supported	2015	0	700 (Target met already)	459 (67%) M-54 (12%) F-415 (88%)	166 (24%) M-2 (1%) F-164 (99%)	303 M-52(17%) F-251(83%)	0	N/A	459 (67%)	Indicator target not achieved due to slow down of activities.
Value of agricultural and rural loans as a result of USG assistance (RAA) (WOG) EG.3.2-6	Private sector financial records, program data	2015	0	\$18,809	\$ 6,346 M-0 (0%) F-\$ 6,346 (34%)	0 (0%)	0 (0%)	\$ 6,346 M-0 (0%) F-\$ 6,346 (34%)	N/A	\$ 6,346 (34%)	MASLOC has disbursement loans for 33 processors awaiting 31 for disbursement
Number of micro, small, and medium enterprises (MSMEs), including farmers, receiving agricultural-related credit as a result of USG assistance (RAA) EG.3.2-3	Private sector financial records, program data	2015	0	100	33 (33%)	0 (0%)	0 (0%)	33 (33%)	N/A	33 (33%)	MASLOC has disbursement loans for 33 processors awaiting 31 for disbursement
Value of new private sector investments in select value chains (FTF 4.5.2-38)	Private sector financial records, program data	2015	0	Tracked, no target	N/A	N/A	N/A	N/A	N/A	N/A	Indicator Target on track.

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Number of food security private enterprises (for profit), producers organizations, water users associations, women's groups, trade and business associations, and community-based organizations(CBOs) receiving USG assistance (RiA) (WOG) (FTF 4.5.2(11))	Project document	2015	0	6 On-going	6 (100%)	6 (100%)	6 (100%)	6 (100%)	N/A	100%	Target achieved. Support is ongoing to producer organizations.
Number of members of producer organizations and community based organizations receiving USG assistance (S)(FTF 4.5.2(27))	Project documents	2015	0	8,200	717 (9%) M-72 (10%) F-645 (90%)	269 (3%) M-45 (17%) F-224 (83%)	448 M-27 (6%) F-421 (94%)	0	N/A	717 (9%)	Target to be achieved when Canoe Authorization Card is implemented.
Cross Cutting Indicators											
Number of public-private partnerships formed as a result of Feed the Future assistance (S) (FTF 4.5.2 (12))	Project documents	2015	0	0 (LoP Target met already)	N/A	N/A	N/A	N/A	N/A	N/A	No target for FY19 LoP target already achieved
Number of people receiving USG supported training in	Project training reports and participant lists	2015	0	1,854	3233 (174%) M-2383 (74%) F-850 (26%)	2,976 (161%)	225 M-94 (42%)	32 M-22 (69%)	N/A	3233 (174%)	Target over achieved due to high participation

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
natural resources management and/or biodiversity conservation, and climate change, disaggregated by gender (EG 4.8.1-27/4.8.2-6)						M-2267 (76%) F-709 (24%)	F-131 (58%)	F-10 (31%)			during F2F training events across the 4 coastal regions Y (high male % due to high male participation in F2F dialogues on canoe registration and Canoe Council whose members mainly are male)
Number of person hours of training in natural resources management and/or biodiversity conservation supported by USG assistance (FtF 4.8.1-29)	Project training report.	2015	0	12,354	20,092 (163%) M-14456 (72%) F-5636 (28%)	16,621 (135%) M-12596 (76%) F-4025 (24%)	2639 M-1292 (49%) F-1347 (51%)	832 M-568 (68%) F-264 (32%)	N/A	20,092 (163%)	Target over achieved due to high participation during F2F training events cross the 4 coastal regions. High male due to high male participation during F2F events
Number of individuals who have received USG-supported short-term agricultural sector productivity or food security training (RAA) (WOG) EG.3.2-1	Project training report.	2015	0	2,554	3578 (140%) M-2437 (68%) F-1141 (32%)	3142 (123%) M-2269 (72%) F-873 (28%)	404 M-146 (36%) F-258 (64%)	32 M-22 (69%) F-10 (31%)	N/A	3578 (140%)	Target over achieved due to high participation during F2F training events cross the 4 coastal regions Y (high

Indicator	Data Source	Baseline Data		FY 2019		Quarterly Status – FY 2019				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned Target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
											male % due to focus in F2F on canoe registration and Canoe Council whose members mainly male)
Number of individuals who have received USG-supported degree-granting agricultural sector productivity or food security training (RAA) EG.3.2-2	Project training report.	2015	0	1	2 M-1(50%) F – 1 (50%)	2 M-1(50%) F – 1 (50%)	2 M-1(50%) F-1(50%)	2 M-1(50%) F-1(50%)	N/A	2 (200%)	MSc. Student graduated in May 2019

ANNEX B: TRAINET REPORT

This report includes trainings that count towards two indicators: including farmers, receiving business development services from USG assisted sources (FtF 4.5.2-37), and Number of people receiving USG supported training in natural resources management and/or biodiversity conservation, and climate change, disaggregated by gender (EG 4.8.1-27/ 4.8.2-6). For indicator reporting they are included in one or the other of these result areas based on the type of training provided, but not double counted in any cases for both indicators.

Table 5: Trainings Reported for the Period April 1 – June 30, 2019.

Program Name	Start Date	End Date	USAID Budget (USD)	USAID Actual (USD)	Total Male Participants	Total Female Participants	Total Participants	USAID Budget Per Participants (USD)
In-Country Training								
Training of closed season biological survey enumerators, KEEA, Elmina- CRC Y5Q3	4/23/2019	4/26/2019	2887	2887	13	2	15	192
Training of closed season socio-economic survey enumerators, Accra- CRC Y5Q3	4/16/2019	4/18/2019	1422	1422	4	5	9	158
Training of repeat baseline survey enumerators, Accra- CRC, Y5Q3	6/11/2019	6/14/2019	3960	3960	5	3	8	495
In Country Training Total			8269	8269	22	10	32	845
US Based Training								
Graduate degree training in fisheries - Masters of Marine Affairs at University of Rhode Island	09/07/2016	08/05/2019	13,000	13,000	0	1	1	13,000
Graduate degree training in fisheries - PhD in Biological and Env. Science at Univ. of Rhode Island	01/26/2016	05/18/2019	13,000	13,000	1	0	1	13,000
US Based Training Total			26,000	26,000	1	1	2	13,000

ANNEX C: NEWLY RELEASED PUBLICATIONS

The following documents were compiled and processed for branding and Section 508 accessibility compliance and uploaded to the CRC website, Ghanalinks and the USAID DEC during the quarter.

IR 1: STRENGTHENED ENABLING ENVIRONMENT FOR MARINE RESOURCES GOVERNANCE

1. Adeborna, D. (2015). **Child Labor and Trafficking (CLaT) Assessment Tool Workshop Report**. The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island and Netherlands Development Organization. GH2014_POL037_SNV 10 pp.
https://www.crc.uri.edu/download/GH2014_POL037_SNV_FIN508.pdf
2. Apetorgbor, S. (2018). **Closed Season Brief**. The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island GH2014_POL109_CRC 10 pp.
https://www.crc.uri.edu/download/GH2014_POL109_CRC_FIN508.pdf
3. Coastal Resources Center (2018). **Selection of Key Competencies for a Ghana Marine Police Fisheries Law Enforcement Induction Curriculum**. The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island and URI Fisheries Center. GH2018_POL110_FoN. 26 pp.
https://www.crc.uri.edu/download/GH2014_POL110_FoN_FIN508-1.pdf
4. Coastal Resources Center. (2015). **Lessons Learned Report on IUU Video Screening**. The USAID/Ghana Sustainable Fisheries Management Project (SFMP): Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island. GH2014_POL048_HM. 12pp
https://www.crc.uri.edu/download/GH2014_POL048_HM_Fin508.pdf
5. Ministry of Fisheries and Aquaculture Development. (2019). **Policy Framework on Fisheries Co-Management**. The USAID/Ghana Sustainable Fisheries Management Project (SFMP) Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island, Netherlands Development Organization and Friends of the Nation. GH2014_POL061_Rev. 57 pp.
https://www.crc.uri.edu/download/GH2014_POL061_MOFAD_CRC.pdf
6. Mevuta, D., Johnson K., Yamoah, K., Boachie-Yiadom, T. (2015). **Uplifting the Role of Traditional Authorities in Fisheries Governance**. The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island and Friends of the nation. GH2014_POL111_FoN. 10 pp.
https://www.crc.uri.edu/download/GH2014_POL111_FoN_FIN508.pdf

7. Apetorgbor S. (2015). **Canoes Authorization Cards and Control of new entrants of canoes.** The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island GH2014_POL107_CRC 15 pp.
https://www.crc.uri.edu/download/GH2014_POL107_CRC_FIN508.pdf
8. Mario Maderazo, SSG Advisors (2016). **FWC Volunteer Training Manual Framework.** The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island and SSG Advisors. GH2014_POL106_KOFI 19 pp.
https://www.crc.uri.edu/download/GH2014_POL106_KOFI_FIN508.pdf

IR 2: Science and Research Applied to Policy and Management

9. Lazar, N. (2015). STWG Terms of Reference. **The USAID/Ghana Sustainable Fisheries Management Project (SFMP).** Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island GH2014_SCI072_CRC 9 pp. https://www.crc.uri.edu/download/GH2014_SCI072_CRC_FIN508.pdf

IR 3 Creating Constituencies and Stakeholder Engagement

10. Antwi, H. (2017). **Report On Elmina Bakatue Celebration.** The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island GH2014_COM030_CEWEFIA. 9 pp.
https://www.crc.uri.edu/download/GH2014_COM030_CEWEFIA_FIN508.pdf
11. Ampong, F. (2018). **Media Outreach Event.** The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island. GH2014_COM091_CRC 10 pp.
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https://www.crc.uri.edu/download/GH2014_COM032_CEW_FIN508.pdf
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