



SUSTAINABLE FISHERIES MANAGEMENT PROJECT (SFMP)

Progress Report



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Cover photo: March of women promoting healthy fish handling (CREDIT: Dassgift Quality Foundation)

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ACRONYMS

AU-IBAR	African Union Inter-African Bureau for Animal Resources CCM Centre for Coastal Management
CLaT	Child Labor and Trafficking
CEWEFIA	Central and Western Region Fishmongers Improvement Association
CR	Central Region
CRC	Coastal Resources Center
CSLP	Coastal Sustainable Landscape Project CSO Civil Society Organization
DA	District Authorities
DAA	Development Action Association DMTDP District Mid-Term Development
Plan DQF	Daasgift Quality Foundation
DFAS	Department of Fisheries and Aquatic Sciences FC Fisheries Commission
FoN	Friends of Nation
FSSD	Fisheries Scientific and Survey Division of the Fisheries Commission
FtF	Feed the Future
HM	Hen Mpoano
GIFA	Ghana Inshore Fishermen's Association GIS Geographic Information System
GNCFC	Ghana National Canoe Fishermen's Council IR Intermediate Results
IUU	Illegal Unreported and Unregulated (Fishing)
MOFAD	Ministry of Fisheries and Aquaculture Development
M&E	Monitoring and Evaluation
MSME	Micro, Small, Medium Scale Enterprises
NADMO	National Disaster Management Organization
NMFMP	National Fisheries Management Plan (Marine Sector)
NGO	Non-Governmental Organization
PAH	Polycyclic Aromatic Hydrocarbons
SFMP	Sustainable Fisheries Management Program
SMEs	Small and Medium Enterprises
SNV	Netherlands Development Organization
SSG	SSG Advisors
STWG	Scientific and Technical Working Group
UCC	University of Cape Coast
URI	University of Rhode Island
USAID	United States Agency for International Development
VSLA	Village Savings and Loans Association
WARFP	West Africa Regional Fisheries Development Program
WR	Western Region

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1. ACTIVITY IMPLEMENTATION PROGRESS

Program Name:	Sustainable Fisheries Management Project
Activity Start and End Date:	October 22, 2014 to October 31, 2019
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 Friends of the Nation SNV Netherlands SSG Advisors Spatial Solutions Central and Western Fish Mongers Association (CEWEFIA) Development Action Association (DAA) DQF Quality Foundation
Major Counterpart Organizations	Ministry of Fisheries and Aquaculture Development Fisheries Commission
Geographic Coverage (cities and or countries)	Ghana: Central Region, Western Region, Greater Accra Region, Volta Region
Reporting Period:	April 1 – June 30, 2016

1.1 Program Description / Introduction

The objective of the USAID/Ghana Sustainable Fisheries Management Project (SFMP), a five-year project (October 2014-October 2019), 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 USAID’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 to 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 works in consortium with other

international and local partners, including SNV Netherlands Development Organization, SSG-Advisors, Hen Mpoano, Friends of the Nation, and the Central & Western Fish Mongers Improvement Association in Ghana (CEWEFIA), Dassgift Quality Foundation (DQF), Development Action Association (DAA), and Spatial Solutions. The project compliments and coordinates closely with two other projects in the USAID/Ghana Coastal Program Portfolio: The Coastal Sustainable Landscapes Project (CSLP) and the University of Cape Coast/Department of Fisheries and Aquatic Science (UCC/DFAS) Institutional Strengthening Project.

The SFMP builds on the best practices and lessons learned from the USAID-Ghana's Integrated Coastal and Fisheries Governance (ICFG) Program, known locally as the Hen Mpoano (Our Coast) initiative. In this follow-up, SFMP is focusing efforts on small pelagic fisheries along the entire coastline as well as the demersal fisheries and essential mangrove fish habitat in the Western Region. Additionally, improvements in the value chain of smoked fish, important to tens of thousands of women fish processors is supported. The project is also adopting deliberate steps towards reducing child labor and trafficking in the Central Region of Ghana. Key government clients of this project include MOFAD, FC, the Regional Coordinating Councils and associated districts in the Central and Western Regions; and the Marine Police. Additional support is provided to a number of local NGOs and women's associations that are active in fisheries management issues and serving either as core or supporting partners in the implementation of this project.

This progress report hereby details activities, results, and lessons learned during the third quarter of Year 2 (April 01, 2016 to June 30, 2016). It also explains how partners significantly contributed to the achievement of set targets and how these achievements will be sustained to meet the overarching goal of SFMP.

1.2 Summary of Results to Date

SFMP implemented a total of 32 activities in the third quarter of FY 16. Highlights of achievements during this period are outlined below.

In support of improved enabling conditions for fisheries management:

- ***Completion of a draft policy framework for fisheries co-management in Ghana.*** Working closely with the WARFP and MOFAD, a policy framework for co-management in fisheries was drafted. The draft document was the subject of a two day review workshop. Co-sponsored by the World Bank supported WARFP and the USAID SFMP, it brought together over 40 participants from the fisheries industry, including GNCFC, GIFA, GITA, NAFAG, NAPFTA, GNICFA, Volta Estuary Clam Harvesters Association, CSO's working in both the marine and freshwater fisheries, academia and graduate students, the Marine Police, and MOFAD/Fisheries Commission. The final version was reviewed by MOFAD and final revisions will be made in Q4 prior to submission for approval by the Minister and Cabinet.
- ***The Design of the Fisheries Watchdog Committee Program.*** In Q3, SSG completed and submitted a Design document for the Citizen Watch on Water (CWOW) initiative, now known as the Fisheries Watchdog Committee (FWC) program of the FC. The Design document will serve as a framework and operational tool for pilot design and implementation and also outlines long-term considerations for the program. The FWC initiative has since been approved by the Sector Minister for piloting and launch.
- **Material Support to the Fisheries Commission's Fisheries Enforcement Unit (FEU).**

Four vehicles to support improved law enforcement were delivered to the Fisheries Commission in a handing over ceremony presided over by USAID and the Honorable Minister

of MOFAD, Sherry Ayittey. These vehicles now enable the FEU to conduct more shore based patrols and increase deterrence of IUU fishing.

- ***Child Labor and Trafficking behavior change communications and policy development.*** A one-day meeting was held with the USAID/Ghana Mission Director and other senior USAID/Ghana officers at the Mission in Accra on April 20th 2016. As part of this meeting a CLaT briefing paper was developed by FoN and SNV. This brief was shared with the Mission before the meeting to inform participants about SFMP's CLaT interventions. FoN in collaboration with DAA, organized a radio discussion program on CLaT on Radio Peace in Winneba. The Fante language was used for the radio discussions to ensure that the targeted audiences understood the key messages. Discussions held with the Fisheries Commission's Deputy Director, Mr. Thomas Insaidoo, focused on the development of a strategy on CLaT for the Fisheries Commission. The FC advised SFMP to work with the Ministry of Gender, Children and Social protection (MoGCSP) since they are in charge of a broader policy review that addresses Child Labor and Trafficking in fisheries.

Supporting strengthened information systems and science based decision making:

- ***The STWG.*** The Scientific and Technical Working Group (STWG) completed its annual small pelagic stock assessment review process during a workshop held on April 13 to 15, 2016 in Cape Coast. The peer review panel was composed of two experts from the National Oceanic and Atmospheric Administration (NOAA). The stock assessment shows severe overfishing of the small pelagic stocks and the STWG has recommended a one month closure for all fisheries in August as a needed additional measure to rebuild these stocks that are near collapse.
- ***An MOU between UCC and URI*** that supports collaborative research and education exchanges was signed during the visit of URI President Dr. David Dooley to UCC in April, 2016.

Supporting improved constituencies:

- As a way of building a strong constituency against unhygienic fish handling practices, SFMP initiated a massive hygienic fish handling campaign in Shama, Axim and Ankobra to create awareness and sensitize the general public on the need to adopt these healthy protocols.
- A number of radio campaigns and events were held in the Central Region, including development and showing of a documentary starring a leading Ghana film actor. These activities are aimed at reducing the practice of child labor and trafficking in fisheries.
- A communications strategy was developed with the Fisheries Commission for outreach to stakeholders on the National Marine Fisheries Management Plan and a campaign to prevent IUU fishing.

Supporting implementation of applied management initiatives:

- ***Fisheries supply chain improvements:*** 441 persons (81% women) representing micro, small and medium enterprises (MSMEs) received business development services, primarily in the areas of improved handling and processing of fish and in microcredit and village savings schemes. DQF has disbursed approximately 23,000GHS in micro-loans to beneficiaries in the Ankobra and Shama areas and half of this amount has already been repaid by borrowers with high overall repayment rates exceeding more than 90%.
- ***Early actions to build coastal community resilience.*** Work is underway in the Ankobra estuary to start mangrove reforestation efforts of 20 hectares in selected locations. In addition, many community members in the Ankobra estuary are benefiting from Village

Savings and Loan Associations, learning from and building on the CSLP successes in this area.

Promoting strategic private sector partnerships:

- Negotiations are underway to finalize two public-private partnerships being supported by SFMP. The first is an affordable life insurance package, payable via a mobile money platform, for fisherfolk that can provide a payout during a fishery closure along with a lump sum payment at the maturity of the policy. This will help ease the economic burden on fisherfolks due to a possible fishery closure needed to rebuild fish stocks and help gain acceptability among stakeholders for such management measures among those who sign up. The second is a fisherfolk network modeled in a similar fashion as the Vodafone farmers club. This network is being supported by Tigo and VOTO mobile and will provide important information to fishers on weather, fish prices as well as provide a channel for increasing communications among fisheries stakeholders and with the Fisheries Commission. In both cases, these mob

Supporting improved capacity development:

- **Short and long term training.** 284 persons (42% women) received person hours of training in various aspects of fisheries management, including long-term overseas degree training for one PhD student from UCC sponsored by SFMP, Evans Arizi. He successfully completed his first semester at the University of Rhode Island. Two additional individuals from UCC and two individuals from FC were accepted for Master's degree training at URI starting in the fall of 2016.
- **Material support provided to the Marine Police.** A number of furnishings, computer and ICT equipment was delivered to the Marine Police Academy in Aiyinase which enables them to use that facility for on-going training and human resource development of marine police personnel.
- **Post-harvest improvement training:** As a follow-up to the 10-day Regional Study Tour on Women's Empowerment and Post -Harvest Improvements in The Gambia and Senegal involving 11 members of five women-led civil society organizations (CSOs) and the Fisheries Commission, production of a video covering highlights of the tour was completed along with numerous local discussions and early applications of lessons learned.

Supporting gender equality and empowerment

- SFMP has conducted several training events to mainstream gender into fisheries management. Communications messages in the local language have been developed stating that development of sustainable fisheries depends on collaboration of men and women, and, the women's decision is also required for sustainable fisheries management. Dialogues and workshops are being conducted to strengthen women fish processor leadership skills so they can better serve as responsible fishing advocates. Work has also started with the Fisheries Commission on developing a Gender Action Plan.

Revision of PMP Results

Note: The table below has been revised to capture results according to each quarter. Some indicator data were revised to reflect indicator definition at the end of the year as part of internal review process. Also some of the results delayed and were reported in the next quarters as an update of the previous quarter result thereby creating inconsistencies in the way the previous quarter result as reported. The revision of this result table is as a result of project internal review and the adoptive management process. This revision did not change the annual figures reported.

Table 1 below summarizes the standard USAID indicators showing results completed in FY 15 vis a vis targets. Significant deviations between results and targets are explained in Annex 1. Annex 1 shows both USAID standard and custom project indicators.

Table 1 Summary of Results: Year 2 Quarter 3 (April 1 – June 30, 2016)

Standard Indicators	Baseline FY 2016	Annual Target	Year 2 (FY16) Results	Q1 FY16	Q2 FY16	Q3 FY16	Q4 FY16	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
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	Fish Act analysis Small pelagic analysis Child labor analysis Demersal analysis (4)	2	1 (Small pelagic analysis – stock assessment)	N/A	1 (Fish Act Analysis: FWC and Co-mgt policy)	N/A	50%	Y
Number of institutions with improved capacity to develop and implement managed access fisheries management plans	0	N/A		N/A	N/A	N/A	N/A	N/A	
Number of days of USG funded technical assistance in NRM and/or biodiversity provided to counterparts or stakeholders (EG 4.8.1-28)	0	956	758	194	244	320	N/A	79%	Y

Standard Indicators	Baseline FY 2016	Annual Target	Year 1 (FY15) Results	Q1 FY16	Q2 FY16	Q3 FY16	Q4 FY16	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
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	0	N/A	N/A	N/A	N/A	N/A	N/A	
Number of DAs supported with USG Assistance (Ghana CDCS, IR 2.3)	0	4 (Ongoing)	4	4 ongoing	4 ongoing	4 ongoing	N/A	100%	Y
Number of climate vulnerability assessments conducted as a result of USG Assistance (EG 4.5.1)	0	2	0	0	0	0	N/A	N/A	Y
Number farmers and others who have applied new technologies or management practices as a result of USG assistance (FtF 4.5.2)	0	N/A		N/A	N/A	N/A	N/A	N/A	
Number of micro, small and medium enterprises (MSMEs), including farmers, receiving business development services from USG assisted sources (FtF 4.5.2)	0	751	579 M-115 (20%)	0	138 M- 32 (23%)	441 M-83 (19%) F- 358 (81%)	N/A	77%	Y
Value of new private sector investments in select value chains (FTF 4.5.2-38)	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Number of food security private enterprises (for profit), producers organizations, water users associations, women's groups, trade and business associations, and community-based	0	3	3	0	2	1	N/A	100%	Y
Number of members of producer organizations and community based organizations receiving USG assistance (S) (FTF 4.5.2(27))	0	1144	1144	N/A	1144	1144	N/A	100%	Y

Standard Indicators	Baseline FY 2016	Annual Target	Year 1 (FY15) Results	Q1 FY16	Q2 FY16	Q3 FY16	Q4 FY16	Annual Performance Achieved to the End of Reporting Period (%)	On Target Y/N
Number of public-private partnerships formed as a result of Feed the Future assistance (S) (FTF 4.5.2(12))	0	1	0	0	0	0	N/A	0	
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	826	868	200 M- 22 (11%) F- 178 (89%)	384 M- 193 (50%) F- 192 (50%)	284 M-164 (58%) F- 120 (42%)	N/A	105%	Y
Number of person hours of training in natural resources management and/or biodiversity conservation supported by USG assistance (4.8.1-29)	0	16,080	12,228	4,674	4,137	3,417	N/A	76%	Y

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)

* Gender breakdown was also added as part of internal review and adoptive management process conducted at the end of the year.

* Number of agricultural and nutritional enabling environment policies completing the following processes/steps of development as a result of USG assistance data was revised from 1 to 2.

* 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)) was revised from 2 to 3 after internal review process at the end of the year.

* Number of direct project beneficiaries (number), the percentage of which are female (percent) (IDA Core Indicator) disaggregated by rural, urban (IR 2.1 indicator from Ghana CDCS) was revised from direct to indirect beneficiaries and taken off from the list of standard indicator

2. ACTIVITY IMPLEMENTATION PROGRESS

Progress Narrative & Implementation Status

IR 1: Strengthened Enabling Environment for Marine Resources Governance

This component employs a combination of legal and policy reform initiatives to be carried out at the national level with significant stakeholder engagement through a blend of bottom-up and top-down approaches. MOFAD/Fisheries Commission is mandated to spearhead all fisheries policy arrangements. The SFMP is therefore working closely with the Ministry/Commission to facilitate effective marine resource governance. To this end, the SFMP employ these activities in fulfillment of this intermediate result.

National Workshop on Early Actions for the small pelagic fisheries

The National Marine Fisheries Management Plan (2015 to 2019) proposes very useful management measures that can contribute to rebuilding marine fish stocks such as a closed season, reduction of fishing days and vessels, introduction of protected areas, co-management, etc. However, communication of this plan by FC to ensure stakeholder awareness and buy-in has been delayed since its passage in October of 2015. The key focus of SFMP activity is to support Fisheries Commission (FC) to implement the National Marine Fisheries Management Plan (NMFMP). In view of this, SFMP held several planning meetings with the Heads of the Fisheries Commission and MOFAD in Accra, in the Month of April through to June to help catalyze the implementation process. These meetings discussed the implementation plan including the outreach and communication strategy for the NMFMP. FoN played a key role in these meetings and provided specific technical inputs for the drafting of an outreach and communication strategy to support the implementation of the NMFMP.

Other key activities implemented between the months of April to June to support the implementation of the NMFMP include the following:

- Regional Fisheries Working Group (FWG) meetings of the NMFMP
- Fisheries Alliance and CSOs meetings on the NMFMP
- Pre-engagement meeting with fisheries zonal and regional staff and selected fisheries association leaders on the plan.
- Media capacity development workshop for the implementation of the plan

Pre-Engagement of Stakeholders for Communication of the National Fisheries Management Plan

A one-day pre-engagement meeting was held in collaboration with FC on June 7th 2016 to inform FC regional and zonal staff and selected fishing association leaders about the content of the NMFMP. Participants for this meeting included Fisheries Commission officers from the four coastal Regions (Central, Greater-Accra, Volta and Western Regions), also regional executives of NFTP and GNCFC were also present. This was the first major meeting by FC to communicate the content of the NMFMP to stakeholders including regional and zonal staff of FC. Most participants received the copies of the NMFMP for the first time; Power-point presentations were also made to explain the content of the NMFMP to the participants. It was expected that this pre-engagement meeting will prepare the regional and association leaders to support the communication of the NMFMP and engagement of stakeholders at the regional and local levels for the successful implementation.

Media capacity development workshop for the implementation of the plan

A one-day media capacity building workshop was held in collaboration with FC on June 8th 2016 in Accra to inform journalists about the content of the plan so they can adequately report on fisheries issues as gazetted in the NMFMP.

Fisheries Co-Management

Development of a Co-Management Policy Framework

At the request of the Hon. Minister MOFAD Director of Fisheries, two meetings were held with the Ghana National Canoe Fishermen's' Council - National Executives and Greater Accra Regional Executives respectively to explain to them in various local languages the content of the draft co-management policy and their expected roles when the policy is operationalized. Subsequently a national stakeholders' workshop was held to review the draft co-management policy and guidelines and receive further inputs from stakeholders. A revised draft was completed during the quarter and will soon be submitted to the Hon. Minister, for her further action.

Legal Reform

The Fisheries Act is slated to be revised in 2018. Towards this end, the MOFAD is establishing a technical committee to assist with the redrafting of the Act and has requested a representative from SFMP to participate on this committee. In addition, two key activities: the establishment of Fisheries Citizen Watchdog Committees, and the development of a co- management policy framework, provided analysis and identified specific areas where the Fisheries Act will need to be amended to strengthen the legal enabling conditions to make these sustainable and effective. A legal review of the Fisheries Watchdog Committee (FWC) provided explicit recommended language for incorporation into the amendments to the Fisheries Act in order to formally establish this program and have a strong legal foundation.

National Workshop on Coastal Zone Management

National media attention was brought to bear on the continued annual "King Tide" flooding occurring in several areas along the coast where hundreds of homes have been washed away and lives lost, from the Volta to Western region. In response, SFMP organized a national workshop on coastal zone management which was co-sponsored by UCC and the University of Ghana. This was the first time that key national agencies have been brought together to discuss challenges of accelerated sea level rise resulting from global warming and associated impacts on public and private infrastructure and public safety. Several donors were also present including the World Bank WACA program and the UNDCF Local Climate Adaptive Living (LoCAL) Facility. This workshop highlighted the utility of using small unmanned aircraft (SUA) for both planning and damage assessment. Participants unanimously agreed that a national interagency task force and stronger coastal zone management program is needed to reduce risk, economic losses and protect public safety in the future.

Policy Analysis on potential alternatives to a fuel mix subsidy

A consultant was hired to undertake a study on potential alternatives to the current subsidies such as pre-mix fuel that exacerbates overfishing. A draft report that includes a summary of a number of focus group meetings with fishermen and processors was submitted and will be finalized in the next quarter. It will include discussion of potential policy alternatives to input subsidies in the sector.

Strengthened Law Enforcement

Training of FEU and Marine Police and strengthening the prosecutorial chain

As part of efforts by SFMP to strengthen fisheries enforcement, a series of trainings were held for Marine Police and FEU officers to contribute to the adoption of responsible fishing. FoN

organized two 3-day training workshop to this effect on May 19th to 21st and from June 15th to 17th with total of 60 officers trained. At the end of the training, participants were equipped with knowledge in the following areas: Fisheries laws (Act 625, LI 1968, Act 880, etc.), Fisheries Management Plan, Fisheries Enforcement Operational Manuals, International Fisheries Monitoring Control and Surveillance, Eco-system Based Approach for Fisheries Governance, Strategies for effective beach combing, Traditional Fisheries Governance and Challenges, Lessons and Global Experiences for Improved Fisheries Management, Introduction to Child labor and Trafficking in Fisheries, Stakeholder interaction and communication for enhanced fisheries enforcement, and compliance/

Competency-Based Workshop

FoN organized a 2-day competence based workshop on June 9th & 10th with officers from Marine Police Unit (MPU) and other stakeholders. The purpose of this workshop was to support the MPU in meeting their mandate to enforce fisheries laws with an approach to organizational development of staff capacity and performance.

Material Support to Law Enforcement

The first batch of material support for the Marine Police Aiyinase School was delivered to the school in the month of May. Key items delivered included; conference chairs, projectors, office desks and executive chairs, computers, printers, photocopies, bookshelf, etc. The furniture and equipment have all been fixed. An official handing over ceremony has been suggested for the next quarter where the US Ambassador, the USAID Mission Director and other key high ranking officials and partners will be invited to the ceremony which is proposed to be held at Aiyinase. The MPU Head has indicated that the Police IGP would be invited to the ceremony, towards this, high ranking Police officials were sent in the month of June to inspect the materials and provide a report to the IGP.

Citizen Watch on Water Program (CWOW)

In Q3, SSG completed and submitted a design document for the Citizen Watch on Water (CWOW) initiative, now known as the Fisheries Watchdog Committee (FWC) program. The Design document will serve as a framework and operational tool for pilot design and implementation and also outlines long-term considerations for the program.

In April, SSG also submitted two legal reviews, to support design and implementation of the FWC program. SSG's legal review in Ghana reviewed the extent to which existing Ghanaian law, policy, and efforts support the creation of the FWC program and presented specific recommendations. SSG also developed a legal framework (included in the FWC Design Document) that outlines specific language that might be included in a possible Amendment to the Fisheries Act in 2018, to make specific legal provision for the program. Additionally, SSG also reviewed the legal foundations in the Philippines for the Bantay Dagat program, the model for the FWC program so as to inform the Ghana legal review of lessons learned.

The FWC initiative has been approved by the Sector Minister for piloting and a possible launch. An interim FWC Coordinating Team was also formed in Q3 to coordinate and supervise activities to kick-start the pilot. The FWC Coordinating Team has shortlisted four communities for appraisal and will select two communities for the FWC pilot.

Harmonizing Regional Fisheries Policies

The Senior Fisheries Advisor attended the second Fishery Committee for the Eastern Central Atlantic (CECAF) meeting held from 20-22 April 2016, in Dakar, Senegal. The session was attended by representatives of 23 members of the Committee and observers from the Management and Cooperation Agency Between Senegal and Guinea-Bissau (AGC), the Fisheries Committee of West Central Gulf of Guinea (FCWC), the African Union Inter-African

Bureau for Animal Resources (AU-IBAR), the Ministerial Conference on Fisheries Cooperation among African States Bordering the Atlantic Ocean (ATLAFCO), the Regional Fisheries Commission of the Gulf of Guinea (COREP), the Sub-regional Fisheries Commission (SRFC), the Intergovernmental Organization for Marketing and Cooperation Services for Fishery Products in Africa (INFOPECHE), the African Confederation of Artisanal Fisheries Professional Organizations (CAOPA), and Greenpeace International

The SFMP presented the Terms of References for the DNA genetic studies and discussed with selected collaborators from 12 countries in West Africa the protocols for collecting samples of fish (*Sardinella aurita* and *Sardinella maderensis*) and the terms and conditions for contracting collaborators for the study. Samples will be collected during July and August 2016 which should coincide with the spawning season of sardinella. The DNA genetic analysis of the samples will be conducted at the University of Rhode Island. The purpose of the genetic study is to define the fisheries management boundaries of sardinella stock(s) and identify any distinct fish populations in the Gulf Guinea.

Informing the US Government on Key Fisheries Policy Issues in Ghana

Several briefs were prepared for senior US government personnel on issues pertaining to IUU fishing and child labor and trafficking in fisheries for several events and meetings. The SFMP also developed a PowerPoint presentation on SFMP activities on IUU fishing and other maritime security areas that was presented by Robert Buzzard, Economic Growth advisor of the USAID/Ghana mission during a meeting in Washington DC in April. This meeting was also attended by a CRC/URI staff member providing technical assistance on the law enforcement strengthening components of the project. The Chief of Party and National Activities Manager attended a meeting on the State Departments Security Governance Initiative held on June 2nd at the US Embassy and presented on SFMP and BUSAC funded activities on this topic. On April 20th, the CoP and several partners involved in the SFMP anti-child labor and trafficking activities attended a meeting with the Mission Director, Economic Growth Director, AOR and representatives from the US Embassy and briefed them on the project child labor and trafficking prevention initiatives in the Central Region (see section below) as well as on the projects activities to reduce IUU fishing. On that same day, the SFMP CoP and AOR presented the SFMP goal and progress and its relationship to food security in Ghana at a USAID Agrilinks webinar.

Reducing Child labor and Trafficking in Fisheries

The focus of SFMP Anti-CLaT component is to contribute to the reduction of CLaT practices in the Central Region through stakeholder engagement, strategic partnerships and extensive communication to make the practice socially unacceptable.

Meeting with the USAID Mission Director

A one-day meeting was held with the USAID/Ghana Mission Director and other senior USAID/Ghana officers at the Mission in Accra on April 20th 2016. As part of this meeting a CLaT briefing paper was developed by FoN and SNV, this brief was shared with the Mission before the meeting to inform participants about SFMP's CLaT interventions. The meeting discussed the SFMP activities including the National Fisheries Dialogue, IUU, materials and technical support for the fisheries Enforcement, Resilience planning, etc. The meeting also discussed the SFMP CLaT interventions including the identification of the root causes for the CLaT practices in the Central Region: i.e. hardcore poverty, large family sizes, poor parenting, degrading community livelihoods, etc. A three-prong approach was discussed and proposed for addressing the CLaT issues: The first was the need for extensive communication, education and sensitization of the relevant stakeholders including communities and vulnerable households to

make the practices socially unacceptable. The second was to identify and work with key actors to address some of the root causes of CLaT among the vulnerable households. This proposed action included, livelihoods support, improved access to Development services (Health, education, Economic Opportunities, etc.) and establishment of anti CLaT and child welfare committees in the communities. The third was to engage the security agencies for extensive enforcement and deterrence actions through on-the-ground investigations to identify the key perpetrators of the CLaT practice to arrest and prosecute them.

Radio Programs on CLaT

On Wednesday, 18th of May, 2016, FoN in collaboration with DAA, organized a radio discussion program on CLaT on Radio Peace in Winneba. The Fante language was used for the radio discussions to ensure that the targeted audiences understood the key messages.

Scenarios in relation to the subject were cited to deepen the understanding of listeners to appreciate the issues discussed. There was a phone-in session for listeners to comment, ask questions and seeking clarification to the issues discussed.

The program ended with the firm assertion that there was the need for improved stakeholder collaboration to reduce and stop CLaT practices in Central Region. Callers on the program also noted that there is the urgent need for enforcement of laws on CLaT to ensure that perpetrators on CLaT practices are arrested and prosecuted. It was highly recommended that agencies such as District Assemblies, Department of Social Welfare, Fisheries Commission, Anti-Human Trafficking Unit of the Ghana Police Service, etc. need to be strengthened and equipped for effective enforcement on CLaT.

As part of the effort to preventing child labor and trafficking in fisheries, CEWEFIA also organized radio discussions on Ahomka FM to create awareness on the effects of child labor and trafficking. Some crucial topics discussed were PTA/SMC role in preventing CLaT, the effect of CLaT in the society, and discussion on world day against child labor theme “End Child labor in fisheries supply chains; its everyone’s business”.

Documentary on CLaT

SNV developed a CLaT documentary and edutainment movie for Behavior Change Communication campaigns. The videos were successfully shot from 14th – 18th of March 2016. Adjetey Anang, a Ghanaian movie celebrity and an anti-CLaT crusader played the lead role in collaboration with a local drama group in the Central region. The videos have been finalized for use by partners for their community level CLaT campaigns. SFMP partner CEWEFIA held a community launch of the SFMP anti-CLaT documentary and local drama in Apam on 10th June 2016. A community clean up exercise followed the launch event on 11th June in the BIRIWA community. The SFMP project’s ambassador for Child Labor and Trafficking, Adjetey Anang also participated in the event and spoke strongly against the menace and stressed the need for local community leaders to take affirmative action.

2016 World Day against Child Labor

SFMP partners joined the rest of the world to mark the 2016 World Day against Child Labor. A grand durbar was held on 14th June 2016 at Biriwa in the Central region. The ceremony which was under the theme “End Child Labor in Fisheries Supply Chains; It’s Everyone’s Business” was attended by government agencies, project partners, traditional authorities, fisher folks and school children. Participants did a placard walk through the streets of Biriwa, led by some community members, anti-CLaT advocates, and members of the SFMP Community Child Protection Committees. Participants carried messages to create awareness on the alarming rate of child labor activities confronting fishing communities, particularly those along the coast of

Ghana, in an attempt to elicit behavioral change. A radio program was broadcast in Elmina in conjunction with the Central Regional Department of Social

Welfare prior to this event to discuss the dangers of child labor in fisheries and call for action from community leaders.

Training of IPs and government on Child Labor Households at Risk Tool

On March, 23rd 2016, SNV trained project partners and other stakeholders in the fisheries sector on the ‘Child Labor Household at risk’ tool in Cape Coast. Twenty participants attended the training (8 Females and 12 Males). In attendance were representatives from DAA, CEWEFIA, FoN, Department of Social Welfare, Fisheries Commission, Ghana Health Service, NAFPTA, Ghana Education Service and the Ghana Journalist Association. The Child Labor Household at Risk tool is a matrix used for identifying households susceptible to child labor in a particular community. Through group discussions, the participants were involved in shaping the eligibility criteria for identifying vulnerable households in their communities. This is to ensure that interventions are better targeted at the household level. It also ensures that child labor programs are credible. The workshop evaluation showed that participants had gained a better understanding of what constitutes “at risk households” under the SFMP anti-CLaT strategy and how this is closely linked with the Ghana Livelihood Empowerment against Poverty (LEAP) program.

Progress on Child labor policy in the fisheries sector.

In ameliorating the adverse effects of child labor in fisheries, SNV under the auspices of SFMP has held discussions with the Fisheries Commission to focus on preparing a comprehensive policy governing child exploitation and abuse in the fisheries sector. Upon a number of formal follow up discussions, the FC advised SNV to work with the Ministry of Gender, Children and Social protection (MoGCSP) since they are in charge of a broader policy review that addresses Child Labor and Trafficking in fisheries. Based on this, a joint

meeting is scheduled for 21st June 2016 with the Fisheries Commission and MoGCSP to start the development of a strategy.

IR 2: Science and Research Applied to Policy and Management

The Scientific and Technical Working Group (STWG)

The Scientific and Technical Working Group (STWG) completed its annual small pelagic stock assessment review process during a workshop held on April 13 to 15, 2016 in Cape Coast. The peer review panel was composed of Dr. Bradford Brown and Dr. Hassan Moustahfid from the National Oceanic and Atmospheric Administration (NOAA).



Figure 1 A section of fish stock assessment workshop

The overall objective of the peer review workshop was to review and validate the stock assessment report presented by the STWG on the status of the stock of small pelagic fish in Ghana. The panel shared their experiences on stock assessment and provided input regarding appropriate methods based on existing fisheries data available in Ghana.

The review panel endorsed the stock assessment findings which demonstrated that 2014 fishing mortality rate for the *Sardinella* fishery is 0.74 instead of the ideal of 0.4, an indicator of the overexploited nature of the stock. In addition, the panel agreed that the rebuilding biomass target is adequate, however it may change due to the influence of rising sea surface water temperature and declining upwelling forces. The panel further recommended additions to the 2015 data and to update the stock assessment. The panel proposed that the STWG could become a technical arm of the Fisheries Commission after the tenure of the SFMP to help provide up to date scientific advice on the status of fish stocks and propose efficient management measures for sustainability.

The panel also endorsed the proposal by the STWG to close the fishery during the month of August during the highest upwelling index in Ghanaian waters. This is also the peak spawning season for *Sardinellas* and other small pelagics and the period when processors record the most economic losses due to the poor nature of fish flesh around this time. A seasonal closure of all fishing fleets except tuna in August was proposed by the STWG and accepted by the review panel as the major management measure needed to help revive the declining status of small pelagics. The key weaknesses and gaps in data were reviewed and listed. The panel concluded that a “no action” measure to fisheries management will lead to a total collapse of the small pelagics stocks of Ghana. Immediate action needs to be taken to revive the fish stocks and the major measure will be to establish a closed season in August which will include all fleets except the tuna fleet.

ICT Innovations for Fisheries Management

In Q3, SSG and SFMP began discussions with USAID’s Digital Development team to explore possible support USAID might provide for ICT activities under SFMP. USAID now plans to provide an ICT expert to support the project in implementing the ICT strategy. The consultant is projected to start work in June 2016 and would assist mainly with the digital financial services being promoted through two private – public partnerships. The first is the offering of life insurance to fisherfolks and the second is the development of a fisher network modeled loosely off the Vodafone farmer’s network.

UCC/DFAS/CCM Capacity Development

The SFMP, in coordination with UCC and the FSSD, are completing the procurement of a list of equipment for the age and growth laboratory renovated under USAID-Capacity Development grant implemented by UCC-DFAS. This laboratory will be managed by UCC with shared access to FSSD for applied stock assessment and research. Age and growth information allows managers to understand the dynamics of fish stocks and how fish populations react to environmental stresses (i.e. climate change). The Senior Fisheries Advisor will oversee the installation and training of staff to operate and maintain the equipment.

As part of the SFMP-UCC collaboration, Professor Richard Burroughs a coastal management specialist from URI, visited UCC for a period of two weeks in May 2016. The purpose of the visit is to continue working on the operation plan of the Center for Coastal Management (CCM). Working closely with Professor John Blay from UCC, he participated in an extension activity of the CCM aimed at restoring a degraded lagoon (Awiane Aluonu) at Half Assini in the Jomoro District of the Western Region. This activity is also part of the UCC project on monitoring the biodiversity and health of coastal ecosystems. Professor Burroughs delivered a public lecture on Coastal Management and made inputs on reviewing the strategic plan, and developing a business plan for the Centre. He also participated in meetings with District Assemblies in the Half-Assini to introduce the USAID/UCC Project and activities planned for some communities in the selected Districts.

In April, URI President Dr. David Dooley visited UCC at the invitation of the UCC Vice –Chancellor. He was accompanied on this visit by Dr. Deborah Sheely, Director of Cooperative Extension and Dr. Anton Post, Director of the Coastal Resources Center. His visit was part of a larger tour that included visits to SFMP partners and field sites and a visit to KNUST where URI also is involved in cooperative activities on the USAID West Africa ASSESS project. A MOU



Figure 2 URI President Dr. David Dooley visits UCC at the invitation of the UCC Vice –Chancellor Professor D.D. Kuupole

was signed between UCC and URI that laid out specific arrangements and guidelines for further cooperation between UCC’s CCM and DFAS and the URI Coastal Resources Center. The discussions have resulted in a number of follow-up actions that support the two USAID projects and university linkages beyond these projects with other non-marine and fisheries related activities. A follow-up visit by several URI Dean’s is planned for August.

Improving FC Data Systems and Stock Assessment Capacity

Following-up on the two trainings completed by SFMP during Quarter-2 on data collection systems and introduction to basic data management using Excel and MS Access, SFMP developed the curriculum for data collection for field enumerators with staff of the FSSD. The purpose of this curriculum is to setup a long term strategy for training and communication with field enumerators assigned along 64 fish landing sites. Another training will be held in the next quarter for the field enumerators.

Two individuals from FC were accepted for Master degree training at URI starting in the fall of 2016. Rosina Williams will study Marine Affairs (policy) and Vida Osei will be in the Biological and Environmental Sciences program, concentrating on Fish Stock Assessment. Their studies will start in September, 2016 with an expected departure date of August 31, 2016.

The FSSD received a list of computer equipment from SFMP during Quarter 2. The IT specialist from FSSD installed the operating systems and fisheries data programs on all computers. SFMP is in the process to setup the local network to link all the computer to a file server so to share and access the data. Additional software (Grapher, surfer, primer) and other computer equipment for the environmental unit of FSSD will be procured during the next quarter.

SFMP is supporting a short-term training in IT and computer system engineering for two individuals from the FC. Charles Darko successfully completed 5 months in training and passed Level I exams in computer hardware configuration and maintenance. He continues to attend daily classes at IPMC training school in Tema (2 hrs per day). By end of July 2016, Charles will have completed his certificate in computer system engineering Level I certificate.

Abraham Sebowie from the FC is enrolled in computer networking and server administrators program for six months. He completed 3 months by end of this quarter and continues to attend classes daily at IPMC training school in Tema. The program is setup to prepare the computer technician to maintain the computer network server and other computers at FSSD. The goal of both trainings is to assist FSSD in building its capacity in computer IT and system engineering in order to manage and maintain the computer equipment delivered by SFMP.

Fishing Capacity Assessment

SFMP in collaboration with FCWC, UCC, FC, GITA and UBC have completed the concept note to organize a regional workshop on fishing capacity assessment in September 14-16, 2016 in Accra. The objective of the workshop to share experiences on fisheries capacity assessment systems as it applies to the current proposed effort reduction schemes proposed by the national fisheries management plan developed by the FC. The workshop is expected to produce an action plan relative to fishing effort reduction scheme commensurate with sustainable fishing mortality rate in a phased in approach so to alleviate the socio-economic losses. The participants to this meeting would comprise of Experts from FCWC members States, NGOs, international scientists, fisheries managers, private sector, fisheries professionals and academia.

Environmental Planning Data Hubs and Capacity Building Center for the Western and Central Regions

During the quarter, refurbishment of the training facility at the central region TCPD office was initiated. The refurbishment works included fixing of new doors, burglar proof systems, new lighting, air condition systems and floor tiles. Works are near completion in preparation for training of planners on the use of GIS-based technologies for coastal resilience building and planning. A LAN system is also being installed and nearing completion.

Christopher Damon of the URI Environmental Data Center completed a detailed report on initial flights of a small unmanned aircraft in Axim, Sanwoma and Iture: "Small Unmanned Aircraft (SUA) Pilot Project". An example of the information processing that took place post-flight is shown in Figure 3, where flood inundation patterns for Sanwoma were estimated based on elevation information captured by the SUA. The helicopter drone has been placed in the SFMP inventory and training of local persons on piloting and processing of images was started and will continue in Q4.

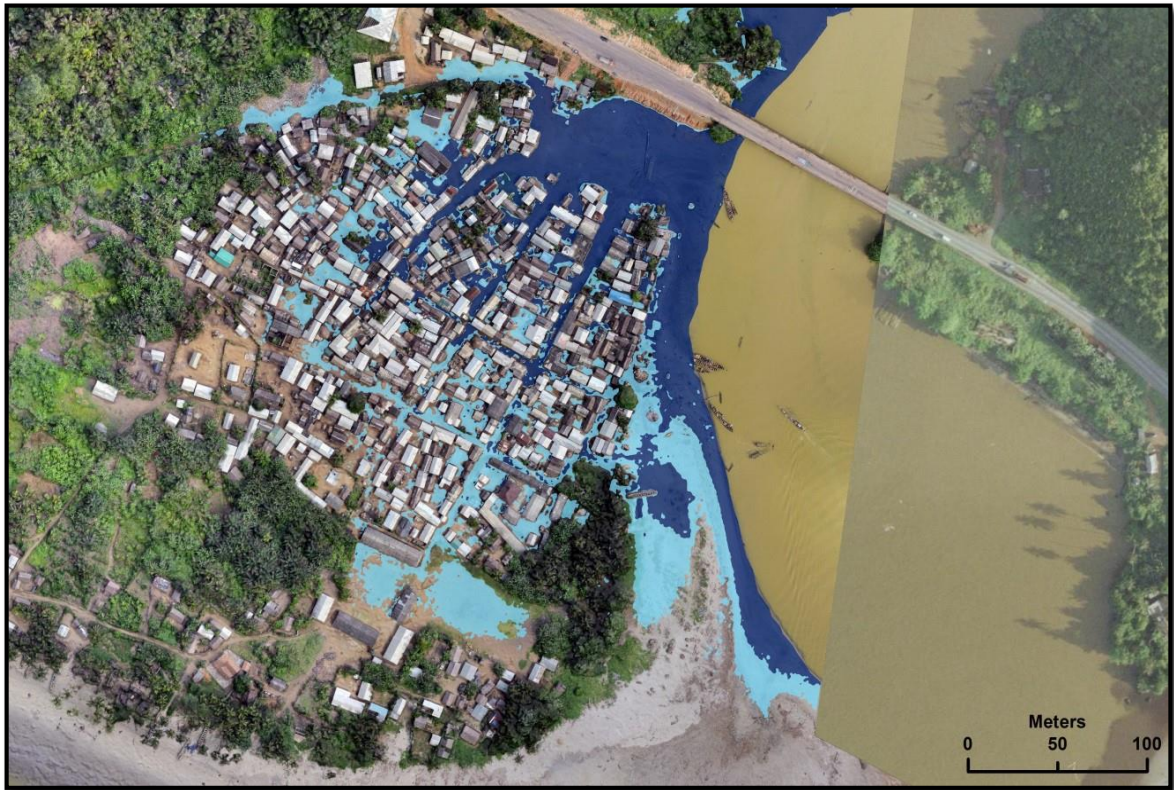


Figure 3 Estimated flood inundation levels for Sanwoma. Dark blue areas represent current daily flood conditions under normal circumstances; light blue areas highlight the probable extent of daily flooding with the addition of 0.4m of sea level rise

The overwhelming success of this initial effort led to a follow-up program of flights in additional locations in June, 2016, including:

- Old Shama and the Anlo Beach barrier spit (FoN, CEWEFIA, SpS)
- Community over-flights (Supomu Dunkwa and Beposo) (WR TCPD) to aid the TCPD Western Region street naming project.
- Awaine Lagoon in Half Assini to support ongoing research by the UCC CCM.
- Sanwoma, Asanta and Upper Axim to demonstrate utility of imagery for analyzing vulnerability and post-event damage assessments.
- Dix Cove to support ongoing fisheries work by Donald Berces (PhD student).

The work in Sanwoma proved to be foresightful, as extreme coastal wave overwash events took place the week of April 25th. As a result, the Workshop on Coastal Community Vulnerabilities, Hazards and the need for Coastal Resilience, Hazard and Spatial Planning was held in Cape Coast on June 14-15. The information from the flights and the capabilities of SUA to assess and also forecast potential damage from flooding events was presented.



Figure 4 Town and Country Planning Department building and site of the Central Region Environmental Planning Data Hub Being Refurbished

IR 3 Creating Constituencies and Stakeholder Engagement

The Third Quarter has realized effective engagements and enhanced collaborations with stakeholder groups including the media. Some communities such as Moree in the Central Region, have been motivated to organize community clean-ups and anti-child trafficking advocacy programs in the community on their own; without the involvement of USAID/Ghana SFMP.

For the first time, media reports have started addressing fisheries management issues such as political interference in fisheries enforcement and IUU fishing, generating discussions both at the national and grassroots levels.

At least 42 media reports including 18 radio discussions on the Hygienic Fish Handling Campaign and child labor have appeared on the airwaves. The radio discussions are held on three radio stations in the Western and Central Regions. Under the Healthy Fish Campaign, the HFH activities started in earnest in the period of review with durbars and media discussions which have enhanced advocacy and capacities among women fish processors; some of whom have taken up advocacy and creating awareness among peers to reject bad fish landed by fishermen.

Strategic Communications Campaigns in support of MOFAD/FC policy initiatives for the small pelagic fisheries

Communications Strategy on NMFMP and IUU Community Outreach Program

SFMP supported MOFAD/FC to develop a communications strategy towards implementation of an Outreach Campaign on the National Marine Fisheries Management Plan (NMFMP) and illegal, unreported and unregulated (IUU) fishing. After a series of planning meetings with the MOFAD/FC, 35 fishing communities along the four coastal regions have been selected to benefit from the Outreach Program. A set of mass media and multimedia tools are being developed for the Outreach in July. The Outreach Program on NMFMP and IUU is a component of the broader MOFAD/FC Communications Education Campaign. Hen Mpoano will support MOFAD/FC with the IUU outreach in 15 communities. Friends of the Nation supports the NMFMP Outreach in 20 communities.

Orientation Planning Workshops with MOFAD/FC Staff and the Media

Facilitators and community animators for the NMFMP and IUU Outreach Program were hosted at an orientation meeting on 7th June to give firsthand information on contents of the NMFMP and to prepare them for the outreach in July. Outputs of the workshop included a FAQs sheet, Outreach song sheet, etc. to allow for consistent and uniform messaging during the outreach. Participants included MOFAD/FC staff from the four coastal regions, FEU staff (Navy, Marine Police, MCS), NAFPTA and GNCFC representatives.

Another workshop was organized for selected media persons, members of the Ghana Journalists for Sustainable Fisheries. Major highlights included the need for journalists to focus on explaining conservation messages as the basis for improved fisheries management and justification for enforcement and compliance of fisheries laws. Among issues discussed was IUU fishing and the need for effective strategies to curb the trend. High among the recommendations included the need for MOFAD/FC-led periodic press conferences on fisheries prosecutorial chain updates to assure different user groups of the effectiveness of the judicial system and serve as a deterrent for others.

IEC Materials

SFMP has produced a layout design version of the gazette MOFAD/FC NMFMP to be distributed to relevant target audiences when MOFAD/FC gives final approval. This forms part of the MOFAD/FC's objective to disseminate information contained in the plan to facilitate implementation of the plan. Three roll-up banners for MOFAD/FC are being developed for MOFAD/FC and in the final draft stage awaiting approval of the Ministry before production. This will contribute to effective dissemination of information pertaining to MOFAD/FC's mission and objectives.

Media Engagements

A grant/support scheme has been announced to solicit proposals from media persons/houses to facilitate movement into fishing communities among others to run exclusive stories and news items of choice. The support – *Save Our Fisheries (SOF Support)* is intended to heighten awareness of fisheries management and conservation issues and increase quality of reports on the airwaves to elicit the desired political will and public support for project goals.

Elmina Festival in July

Plans are far advanced for USAID/Ghana SFMP's involvement in the Elmina *Bakatue* Festival celebrated every first week in July to usher the traditional area into the fish bumper season. This is a colorful fisheries festival that serves as a good platform for SFMP to disseminate fisheries management messages in order for stakeholder buy-in. Based upon request of the Paramount Chief of the area, a forum with fisher folk in Elmina was organized Tuesday, 28th June 2016 as a strategy to build an informed and supportive constituency in Elmina, which for some time now has been viewed as a difficult terrain and IUU hotspot.

SFMP is funding some components of the festival, including production of IEC materials such as t-shirts, banners with key fisheries management messages and participation in the canoe regatta.

Behavior Change Communications Campaign on Child Labor and Trafficking

Radio Sensitization and Engagement Program

SFMP's Behavior Change Communications on CLaT progressed successfully in the period under review. Media engagements were intensified in the Q3 to sensitize fisher folk, particularly in the Central Region about the negative impacts of CLaT on communities, Fisheries Laws and the sanctions that go with offenders of the laws. Two radio stations –

Ahomka FM in Elmina and Radio Peace in Winneba, all members of the Ghana Journalists for Sustainable Fisheries platform, hosted talk shows every Tuesday and Wednesday (Radio Peace, Winneba) in the Quarter to discuss CLaT issues; community persons and other resource persons from the Social Welfare Department served as panelists for the radio Program. Partners CEWEFIA and DAA championed these causes in the C/R.

World Day against Child Labor 2016

SFMP joined the rest of the world to celebrate the World Day Against Child Labor (WDAFL) 2016 on 12th June under the global theme “**End child labor in fisheries supply chains. It’s everyone’s business.**” A radio Talk Show on Ahomka FM, Elmina and a clean-up exercise in Biriwa fishing community, C/R, were organized on the event day - 12th June - prior to the main celebration which SFMP scheduled for 14th June. A placard walk with students and fishers from Biriwa and environs and a durbar characterized the celebration. A community rural drama and sharing of experiences by some identified CLaT victims unearthed the reality as the celebration ended with the community beginning to think of avenues to rescue their own children whom they had innocently given away to strangers to be trafficked to neighboring towns and countries.

Another event was organized in Apam with community leaders under the sub theme “**Reducing child labor and Trafficking in Fisheries –The role of Traditional and Opinion Leaders.**” DAA has signed an MOU with Radio Peace to carry out a series of radio sensitization and educational Programs covering CLaT and other Post Harvest activities.

Production of CLaT Audio Visuals

A 15-minute entertainment education video drama on CLaT spearheaded by SNV was produced in March 2016, starring a Ghanaian movie celebrity as the USAID/Ghana SFMP Anti-CLaT Ambassador. Another short video documentary on the dangers of child labor in fisheries and the need to curb the trend was also produced in the period under review.

Healthy Fish Communications Campaign

A total of 18 radio programs on the Hygienic Fish Handling Campaign were organized on three radio stations in the Western and Central Regions. CEWEFIA organized four of these talk shows on Ahomka FM, Central Region; DQF organized eight HFH discussions on Radio 360, W/R while DAA organized two on Radio Peace, Winneba, C/R to discuss post-harvest and value chain improvements in fisheries. DQF organized three community-level outreaches towards building constituencies for the Hygienic Fish Handling campaign. The event for Shama was organized on 10th June, 2016 to create awareness and sensitize the general public on the need to adopt safe and hygienic fish handling practices; the event was climaxed with a drama by the USAID/ SFMP trained MSME group in Shama to showcase ways of saying “No to Bad fish.” HFH Campaign in Axim was held on 17th June, while that of Ankobra was held on 24th

Executive Level Communications

Communications material for the maiden meeting with the Board of the Fisheries Commission has been compiled awaiting an appropriate date to be scheduled in order to disseminate the information which includes the status of the stock, recommendations of the STWG made to MOFAD/FC about science-based suggestions of management measures for rebuilding fisheries stocks. Engagement with the Board is important for ensuring support for fisheries management policy initiatives intended to rebuild the stocks.

Corporate Communications

A maiden *SFMP Newsletter* called “***Our Fish. Our Coast. Our Future.***” was produced in April 2016 and disseminated to relevant target audiences. The 6-page document contains project activity updates and joint activities organized with MOFAD/FC, as well as highlights of some activities of USAID sister projects.

A fact sheet on fuelwood for fish smoking value chain produced and in final review stage. The fact sheet will be shared beginning first month, Quarter 4, with major stakeholders in the fishing and fuelwood industry to enhance best practices in the post-harvest activities of the fisheries industry concerning the use and management of wood resources.

A fact sheet on mangroves and importance to fisheries food security has also been developed, awaiting final review and distribution

FAQs sheet for IUU and NMFMP Outreach developed for field animators and outreach facilitators as well as for public consumption.

Outreach Song sheet developed for field animators and facilitators of the outreach of the NMFMP.

USAID/Ghana Mission and METSS/Ghana organized a ***3-day workshop on communications*** for development in June, for Communications Specialists of major USAID projects in Ghana. This was intended to build capacities of IPs for improved branding and marking, enhance skills in design software programs and social media.

CivicRM Contact Management Database

In establishing a stronger constituency in SFMP target areas, a contact database management has been created to augment communications and interactions with partners, stakeholders and community members. Since its establishment, a total of 3466 contacts have been created with a corresponding 104 groups (groups of activities held since year 1). Four mailings (on SFMP bibliography list, newsletter and other internal resources) have been circulated using this platform. Again, a social network analysis has been created using people’s attendance to SFMP events and interactions with community members. This is aimed at providing managers of SFMP to keenly understand the various interactions and address the gap to improve program quality.

Table 2 Table of IEC Materials Produced (April – June, 2016)

No. Produced	IEC Type	Title
2	Success Stories	Fishers in Moree reject <i>Krodoso</i> Fish Improved fish smokers enhance livelihoods of fish
18	Radio Talk Shows	On IUU, Healthy Fish Campaign and Child Labor activities
2	Fact sheets	On Mangroves and Fuelwood for fish smoking value chain
1	NMFMP	Reproduction of MOFAD/FC Fisheries Management Plan
3	Press Releases	Press releases on: WDAFL 2016, Donation of vehicles to MOFAD/FC’s FEU, visit of URI
24	News items	On TV, Radio, newspaper, Online
2	Video documentaries	Edutainment video drama and short documentary on CLaT
52	Total number of IEC Materials Produced	

IR4: Applied Management: Improved Management of Marine Resources to Reduce Over-exploitation, to conserve Biodiversity and Provide Other Benefits

Small Pelagic Fisheries Management

Small pelagic fisheries are part of the national fisheries management plan adopted in October 2015. The SFMP coordinated planning with the Fisheries Commission for the establishment and training of members of the Fisheries Management Operational Committee (FMOC). The primary purpose of the FMOC is to facilitate, monitor, review performance and provide guidance and recommendations on the implementation of the National Fisheries Management Plan to the Fisheries Commission. The Senior Fisheries Advisor prepared the TOR, reviewed by the Chief of Party and staff of the Fisheries Commission. The final version was submitted to the FC for soliciting nominations. The response from the FC is behind schedule due to the ongoing negotiations with stakeholders on the implementation of the national marine fisheries management plan. SFMP plans to re-engage the FC regarding forming the FMOC in the upcoming quarter.



Figure 5 LEK one-one interview at Tema fishing port

HM completed the protocol for mapping fishers' local ecological knowledge on sardinella with the assistance of Dr. Kathy Castro from the University of Rhode Island who visited Ghana during May 6-16, 2016. The purpose of the trip was to assist HM with the development of survey methodologies and test the questionnaires in selected fishing communities. HM fisheries experts conducted preliminary focus group discussions and prepared a draft individual questionnaire. This included the use of nautical charts to map out fishing grounds, spawning areas and breeding grounds of sardinella. Local Ecological Knowledge (LEK) Mapping was carried out in Moree and Half Assini. This was done using Focus Group Discussion (FGD) to elicit information on the biology of small pelagic species (Sardinella, Mackerel and Anchovy). The focus groups consisted of Chief Fishermen, Fishmongers, Fishing crew, and Captains. The outcome of the local ecological knowledge will be used to fill existing knowledge gap within the fisheries to compliment the available scientific information on life history parameters.

All fishermen interviewed accepted that there is a problem with the fisheries – declining catches – and will need a collective effort to tackle the issue. They all ascribed the decline to

illegal activities taking place in the sector by both canoe fishers, inshore and industrial fishers alike. However, there is the strong sentiment that the decline is large as a result of the activities of the industrial trawlers whom they hinted have moved from harvesting only demersal to targeting small pelagic fish stocks. The small pelagic harvested are said to be sold off to consumers as by-catch; ‘saiko’ as it is popularly referred to by fishers. Although fishermen agreed that there is a decline in catch and if the trend should continue there will be extreme poverty and hunger in coastal communities; they are however not discouraged from constructing bigger canoes in an attempt to harvest the last fish. The acceptance by fishers that there is a problem provides a good opportunity and starting point for communicating the Fisheries Management Plan and to build consensus along the beach for its effective implementation.

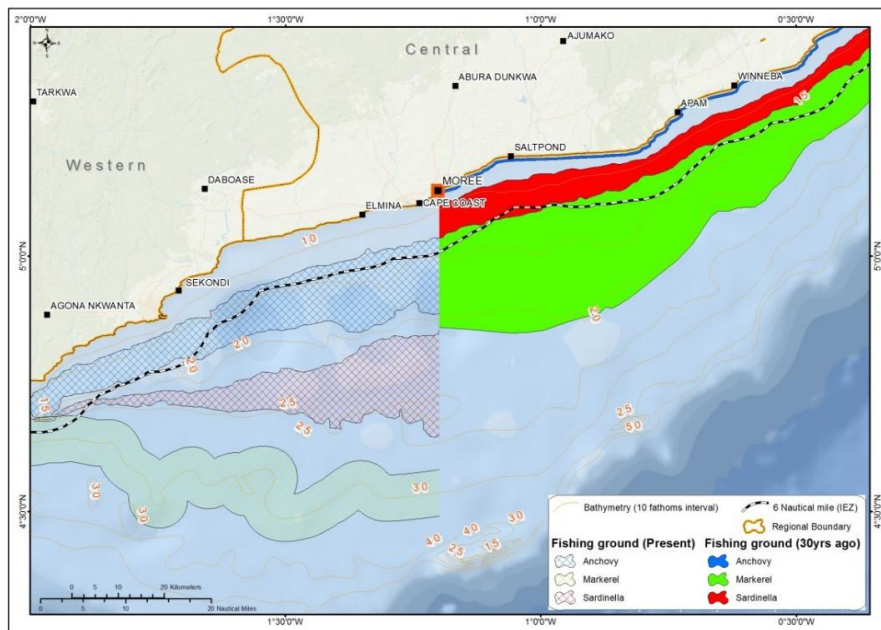


Figure 6 Fishers’ knowledge on past and present fishing grounds

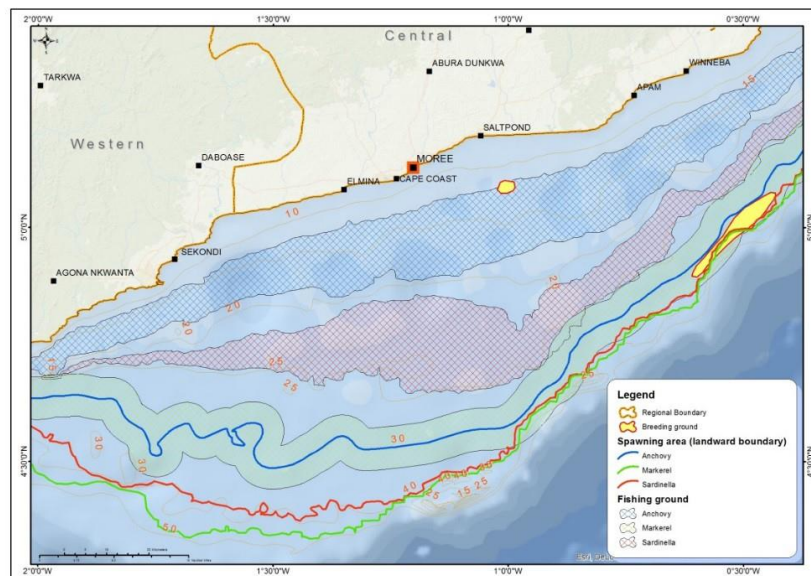


Figure 7 Fishers’ knowledge on small pelagic spawning areas

The Western Region Demersal Fisheries Management Initiative

Fisheries management initiatives have been identified and approved by the Fisheries Commission in the National Fisheries Management Plan 2015-2019. SFMP is contributing with the implementation of the plan and conducting a fish stock assessment (see section 2.3: UCC/DFAS/CCM Capacity Development). Two UCC research assistants are carrying out a baseline survey of the demersal stocks and have completed the data collection at selected landing sites for 18 months. The study also involved training fishermen and women processors on simple techniques on how to identify the species and collect basic biological information of these selected species. A total of 17 stakeholders participated with different level of commitments to the cooperative research initiative. In May and June 2016, a socio- economic survey was conducted using semi-structured questionnaire to collect information to characterize the socio-economic aspects of the demersal fisheries. About 100 questionnaires were administered focusing on the demographic, gear technology, some economics and geographic information. The stock assessment and fishery characterization is ongoing and the results are expected to be presented to the Fisheries Commission during the first quarter of Year 3.

Integrated Community Fisheries Management and Resilience Plans for the Ankobra River Estuarine and Mangrove System

Estuarine management planning

Following recommendations from the vulnerability assessment and spatial options analysis of the Ankobra estuary and mangrove ecosystem, a management committee comprising representatives of key stakeholder groups was formed. Notable among these were the Ellebelle District Assembly, Nzema East District Assembly, Fisheries Commission, Environmental Protection Agency, Wildlife Division, Water Resources Commission, Traditional authorities and representatives from 5 estuarine communities of Eziom, Eshiem, Adelekazo, Kukuavili and Sanwoma. Through facilitated meetings by Hen Mpoano and Spatial Solutions, the committee proposed the boundaries of the management plan area in order to provide context for building ecosystem resilience.

In order to provide focus and lay the foundation for the development of a community-based fisheries management process for the estuarine fishery, Hen Mpoano profiled the resource users of the estuary and their estuarine utilization patterns as well as assessed the estuarine fishery to establish its commercial and subsistence importance. Key issues covered under these assessments were the variety of Ankobra estuary resources comprising flora and fauna and their uses including the specific utilization by fishers and farmers; the extent of dependence, order of importance and seasonality; common fish species harvested, quantities and cost; scale of the estuarine fishery (subsistence or commercial); fishing effort, gear and seasonality; existing resource management practices from traditional to district levels as well as the role of gender; characteristics of resource users, conflicts and conflict resolution mechanisms, among others. In addition, fish species harvested from the estuary were observed and identified with fish taxonomy manuals.

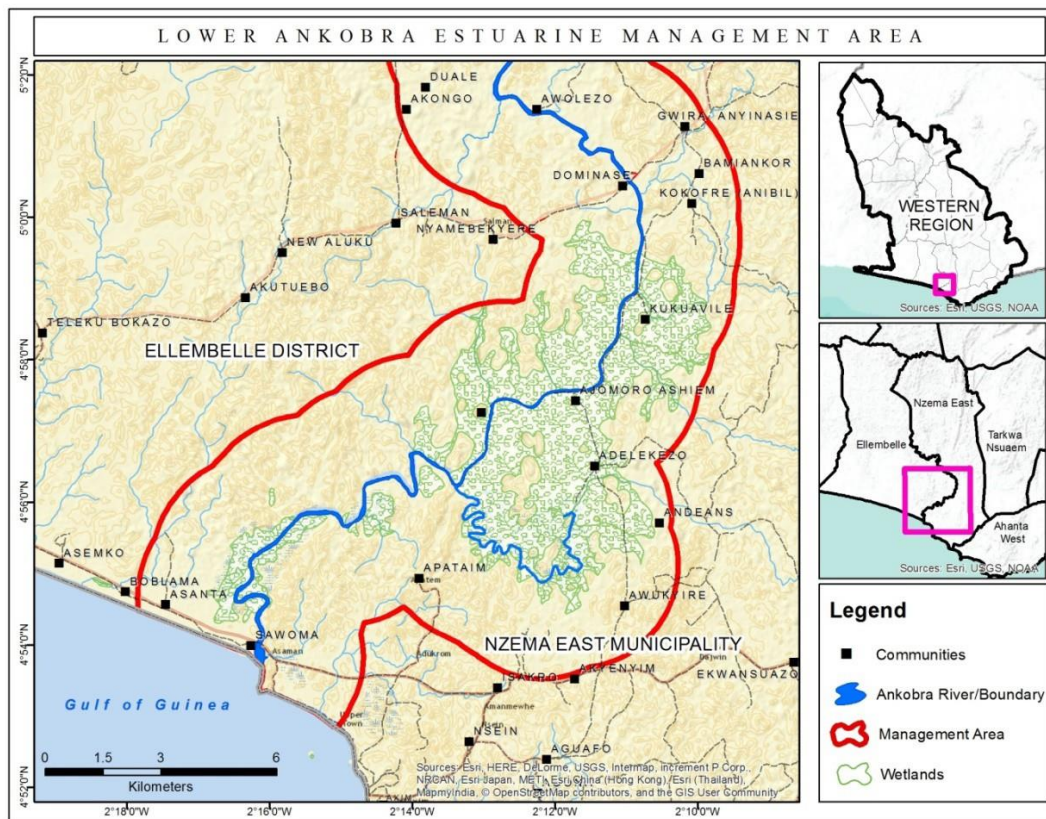


Figure 8 Map of Ankobra estuary showing proposed boundaries of management plan area

Early Actions to build ecosystem resilience

In the previous quarter, a study tour organized by Hen Mpoano for selected resource users of the Ankobra estuary motivated interest in replicating good practices for estuarine fisheries management and mangrove conservation in the estuarine communities. During this quarter, follow-up activities with study tour participants and early actions were carried out to gain community-wide support for improved estuarine resources management. These activities resulted in the inauguration and endorsement by the Chief of Sanwoma of a community-based committee to spearhead conservation initiatives and ensure that good practices in the Volta estuary are adopted for managing the Ankobra estuary. Hen Mpoano provided basic GPS training for members of this committee which included mangrove harvesters; fish processors, farmers and mollusks harvesters. This training resulted in the identification and mapping of degraded wetland resources. Through this mapping activity, a baseline was established to help measure progress against the set target for restoring 20 hectares of degraded wetland.

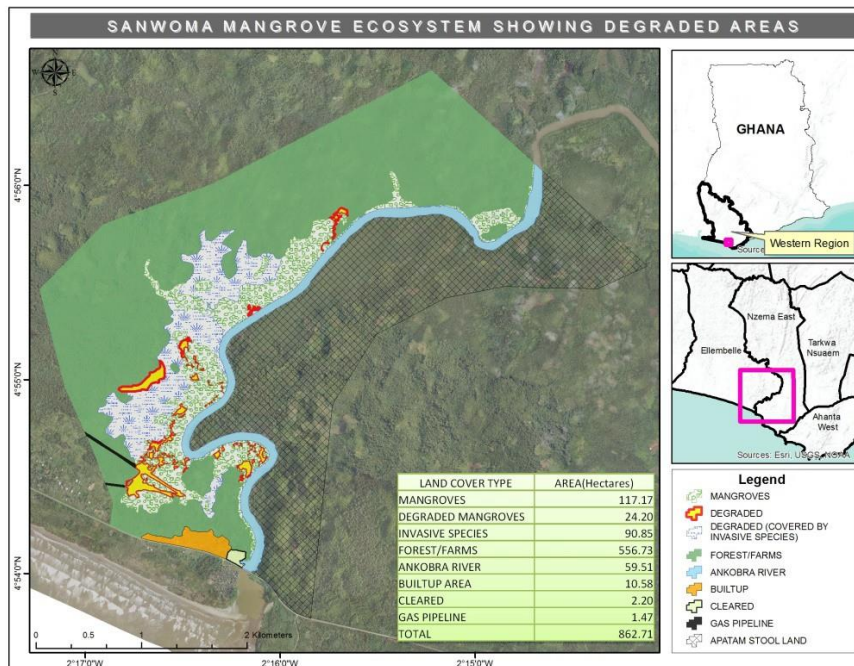


Figure 9 Mangrove ecosystem showing degraded areas

The Chief of Sanwoma set aside an estimated 2.5 acres of land for the establishment of a mangrove nursery in support of upcoming restoration activities. A follow-up training for committee members on the basic techniques for mangrove nursery establishment and management was provided by Hen Mpoano and this resulted in the site being cleared and fenced in preparation for restoration activities during the next quarter.



Figure 10 Estimated 2.5 acres of mangrove nursery site prepared Community empowerment through VSLAs

During this quarter, there were follow-up activities to monitor the progress of the two Hen Mpoano-led village savings and loan associations at both Ajomoro Eshiem and Adelekazo. The two associations are over three months and were trained on loan disbursement procedures as per their constitution. After the training, 9 members at Ajomoro Eshiem and 5 association members from Adelekazo took some loans. They were very excited for the opportunity to get funds from their own savings to invest in their various livelihood activities including farming and petty trading. Additionally, DAASGIFT established two groups in the

Ankobra estuarine communities namely Kukwaville and Eziome. Plans are underway to establish another group in Eziome. This is aimed at establishing resilience of such community which is key to the attainment of IR 4.3

Integrated Community Fisheries Management and Resilience Plans for the Pra River Estuarine and Mangrove Ecosystem.

The key focus of this activity is to work with the Shama District Assembly and other stakeholders to develop an ecosystem-based fisheries management and community resilience plans for the Pra river estuarine ecosystem and the people within that area. The process began in early this year and the approach adopted for this resilience planning included socio- ecological profiling to assess the natural and physical environment, the key vulnerabilities and the available governance and management systems for improved planning of the area. In view of this, the following key activities were implemented within the Quarter by FoN:

Training of Field Data Collectors on GPS data gathering for the Pra resilience planning process.

As part of the Pra Resilience planning socio-economic survey, FoN organized a 1-day GPS data collection training workshop for the field data collection team. Modules treated were focused on building capacity of staff to collect accurate and clean data.

SWOT Analysis of the Shama District Agriculture and Coastal Resources Management Committee.

The scoping and literature review conducted for the Pra resilience planning identified the agriculture and Coastal Resources Management Sub-Committee (ACRMSC) of the Shama District Assembly as one of the key institutions to support and follow through with the resilience planning effort. In order to understand the operations of the committee and their roles. An initial analysis conducted revealed that the weakness and threats identified were; low capacity in wetland management, weak enforcement of District bye-laws, inadequate financial resources, etc. The Strength and Opportunities identified included; the committees power to co-opt other technical persons (including researchers, CSOs, private sector, etc.) to support their work, other opportunities included leveraging of funding in partnerships with other institutions.

Climate Change Vulnerability Field Survey

As part of the resilience planning process a climate vulnerability assessment is been conducted in the Pra estuarine Area. In view of this, Spatial Solutions and FoN conducted a 2-day field visit in the Anlo beach and old Shama communities on the 13th and 14th of May, 2016. The field survey employed the use of GPS to collect geo-data for the production of spatial maps to support the Pra Resilience Planning process. Data gathered are currently being processed and will be used to produce spatial maps including vulnerability maps

UAV Flights at the Pra River Estuary

SFMP conducted a series of UAV flights in the Pra River Estuarine Areas and adjoining communities to capture images to support the climate change vulnerability resilience planning process. About 18 flights were conducted and about 2,000 images were captured over old Shama and Anlo Beach which are the most flood prone areas in the Shama District. The drone-captured image will be processed to support the preparation of vulnerability maps including flood hazards and flood risk maps for communities in the lower Pra Area. These maps will be used by the Shama District Assembly, UCC, NADMO and other agencies to support physical planning and disaster management for the area to reduce the damage to live and properties from perennial flooding.

Central and Western Region Fishing Community Livelihood Development Value Chain and Post-Harvest Improvements

In this quarter, SNV focused on developing business models and strategies to catalyze the nation-wide upscaling of improved fish smoking stoves. Activities focused on research and development of improved stove technologies that produce healthy fish. To achieve the above objectives, the following activities were completed.

Strategy, business model and tools development with training for SFMP partners

As part of efforts aimed at catalyzing and increasing the market for improved fish smoking stoves, SFMP via SNV, conducted the following market intelligence studies:

- Business model options for upscaling improved fish smoking stoves;
- Improved fish smoking stove market segmentation report;
- Fish processing impact investment tool.

A workshop to review the reports and validate the findings was conducted on the 27th and 28th of April 2016. The validation workshop was attended by the SFMP implementing partner organizations, stove building enterprises, government agencies and smoked fish processors.

Eighteen (18) stakeholders participated in the workshop (10 men and 8 women). This was followed with a meeting to discuss business models necessary for financing and promoting of improved stoves. At the end of the meeting, two models (SETH and ADKAR model) were selected. It is anticipated that these models will facilitate market dynamics and boost income to required levels.

Improved Fish Smoker Production via Focused Research and Technology Development

As part of the Improved Fish Smoking Stove (IFSS) technology development, an inception meeting was organized to thoroughly discuss PAH levels of the improved stoves. Present at this meeting were the Fisheries Commission, Food Research Institute, Gratis Foundation, three (3) local stove builders and Crispin Pemberton-Pigott, an international PAH and stove combustion system expert. This was meant to explain the objectives of the IFSS technology development activity and brainstorm on plausible designs and materials needed to mitigate the high PAH levels. Initial findings suggest that smoking temperature is directly proportional to the PAH levels as 85°C or below resulting in PAH 4 levels of 30 $\mu\mu/k\mu$ while 120°C+ result in PAH 4 levels of over 100 $\mu\mu/k\mu$

There is ongoing scientific research with the Department of Fisheries of the University of Cape Coast and the Food Research Institute to learn more about biological profiles of fish and associated PAH levels.

A detailed stove monitoring activity was carried out to assess beneficiary satisfaction and determine energy savings on the pilot Morrison stoves that were constructed in the Central Region during year 1 of the project. Lessons from this exercise have been incorporated into the development of the new stove technology. This was followed with an independent formative evaluation led by the Fisheries Commission and supported by the SFMP M&E team to critically understand the adopters' socio-economic experience of using this stove. Data was collected using a tablet-based electronic system (KoBoToolbox) with analysis and reporting underway.

Business Development and Management Training

SFMP through its partners (DAA, CEWEFIA and DAASGIFT) facilitated business development and management training for 300 MSMEs (mostly fish processors and traders) at Apam, Winneba, Shama, Axim and Ankobra focused on building capacity to manage and

govern businesses to become more effective in daily operations. Modules included record keeping, calculating profits, costs identification and risk management.

Hygienic Fish Handling

In line with efforts to improve fish handling from the downstream to post-harvest stage, SFMP trained 300 fish processors and fishermen to better understand protocols involved in fish handling from primary source till consumption at household level. Having worked with the post-harvest unit of the Fisheries Commission, a detailed manual was developed to guide the implementation of this activity at various locations. Because fish quality plays a major role in its value and price, the training was mainly focused on fish preservation.

Micro-credit Training and Lending

A total of 153 established MSMEs/Entrepreneurs have been provided with Micro-Credit to help expand their businesses and improve livelihoods. This was preceded with micro-finance processes and credit worthiness assessments which qualified 153 MSMEs for a loan facility and received or benefited from the credit facility. A repayment schedule was set to begin 2 weeks after loan disbursement. The total amount disbursed amounts to 22,950.00GHS which is segregated to 36 people in Shama, 57 in Ankobra and 60 in Axim. Out of the Principal and Interest amount of 23,982.75GHS, 12,708.00 has been recovered within 6 weeks, leaving an outstanding balance of 11,274.75 to be recovered. So far, Shama and Ankobra have recorded 100% repayment and Axim recording around 90%.

Woodlot plantation

A 10-hectare parcel of land has been acquired at Anlo Beach (an island around Shama) in the Western Region and an MOU is being prepared to be signed between the land owner and CEWEFIA before clearing and planting could begin. 50 youth have so far been trained in woodlot plantation. The training was conducted on the field for the youth to do hands on activities on the appropriate ways of planting and managing Acacia. In addition, a drama was organized with the aim of creating awareness on the need to conserve mangroves and the rationale behind the adoption of the improved stoves to increase the income levels of the processors in the target communities.

IR 5: Gender Equality and Empowerment

The SFMP gender team continued on its path to mainstreaming gender into fisheries management. Following the development of a training manual on how to mainstream gender into fisheries management – developed in Quarter 1 and implemented in two trainings conducted in Quarter 2 – the gender team moved onto developing gender mainstreaming communications messages. Building upon messages that were brainstormed during the two training sessions, the gender team has developed two communications messages, which will be field tested in Quarter 4:

- Far Mpuntu: Ogyina Bayin na Basia nkabom do

Development of sustainable fisheries: Depends on collaboration of both male & female.

- Far Mpuntu: Basia ne nsusui pa so hia

Development of sustainable fisheries: The woman's decision is also required/ important

SNV began implementing a gender program called the Hownam dialogue. This is a unique training program designed by SNV under SFMP to help women and women groups understand leadership and develop the skills needed to take up leadership roles. "Hownam" is a Fante word, which means fish smoking. The Hownam Dialogue is about learning from group experience (engaging with) rather than teaching, about groups and the individual. It aims to

provide a unique chance to participants to experience group dynamics and to understand how they as individuals operate within a group, experience unspoken attitudes, personalities, leadership, authority, conflicts etc. The understanding and learning from the group process is supposed to lead to the understanding of leadership, power, and authority. A Hownam dialogue training of trainer's workshop was organized for three SFMP partners who work with women groups and some leaders of partner groups. In all, 12 women and 6 men were trained. Participants were guided to prepare action plans to train their groups on the hownam dialogue.

The gender team also completed a baseline survey to gauge women's leadership in the fisheries sector. The purpose of the survey was to identify the major decision making bodies along the fisheries value chain and determine the level of involvement of women in decision-making. The survey was conducted in eight SFMP target communities - Axim, Ankobrah, Shama, Anlo beach, Elmina, Moree, Winneba and Apam. The survey found that most of the leaders in male dominated groups viewed women to be an unnecessary part of their leadership. They stated that it is a cultural norm for women and men to have separate associations and thus separate leadership. Many men were of the opinion that women have minor or no knowledge about fishing and as a result it is meaningless to involve women in decisions related to fisheries. However, vocal and influential female leaders are able to share their opinions with the male leadership. In the survey, 47% of male leaders indicated they would consider women for leadership positions, because women are vocal and innovative.

Other important observations include: Both men and women indicated that although local leadership and influence is important, it will only be effective if laws and regulations set by government agencies are in place.

Fishermen meet at landing beaches where they work. These meetings are often ad hoc without a pre-set time/date and agenda. This makes it difficult for women (whose workplaces are outside the landing beaches) to partake. In places like Moree, the chief fisherman and his council meet in a location outside the landing beach. Meetings are of a more scheduled nature and the Konkohemaa sits in and makes contribution to all deliberations. Thus the meeting location influences the level of participation of women. To get women on board means getting a convenient location and that means getting the men to appreciate the involvement of women.

One conclusion from the survey was that to improve women's involvement in fisheries management beyond the processor association level, we need to work from the men's angle. The following entry points have been identified:

- Awareness creation related to gender inclusive management for the Fisheries Council.
- The Fisheries Commission staff that work with the council on managing the landing beaches should be involved in SFMP gender trainings.
- The project should prepare a gender mainstreaming action plan in collaboration with the FC to include women in the management of landing beaches.

Following the survey, the SFMP gender team started collaborating with the Fisheries Commission in preparing a gender mainstreaming action plan. The first step was preparing a terms of reference for a consultant that will work with the Fisheries Commission and the SFMP gender team to complete the action plan.

The USAID/Ghana SFMP tracked the participation of 89 events between November, 2014 and April 2016, as part of the analysis of the growth in the SFMP social and policy network. The contact management system, CiviCRM, is used to collect a wide range of contact and event participation information. A total of 2471 unique individuals participated 3467 times in these events. As the table below indicates, recording of gender was not complete. The line marked Cumulative Total in the graph is higher than the bar graph of data per event. A number of early, large public events account for much of this missing information, with the records much improved in 2016. For those events where gender was recorded or could be inferred from participant names, early events were male dominated, but by the end of the analysis period, cumulative female participation had risen to 52.4 percent for all types of events (public fora, trainings, business development, and informational meetings) and 53.7 percent of the total number of people whose gender was recorded or inferred. The SFMP’s aim is not merely to achieve gender balance but in fact to achieve a significant increase in women’s participation in both policy and post-harvest value chain improvements. This initial test of the use of contact management data to pinpoint progress as well as information gaps proved successful and will be used to shape the implementation efforts of the SFMP gender strategy.

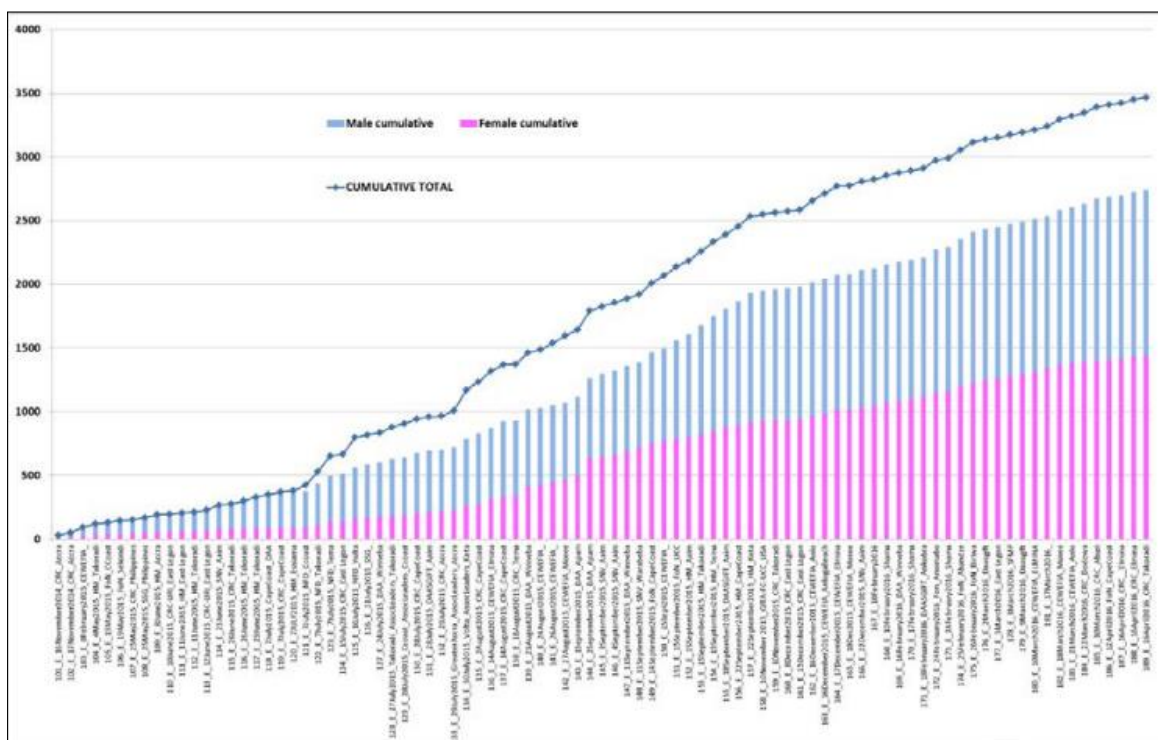


Figure 11 Total number of participants in 89 SFMP events, with cumulative proportions of males and females. (Gender of participants was not capture completely at some large events)

IR 6: Strategic Private Public Partnerships

Conduct Stakeholder Consultations

SSG briefed the Minister of Fisheries and Aquaculture Development on the pending Millennium Insurance partnership, and she provided suggestions for the design of the partnership. SSG also informed the Minister of the pending Tigo partnership, and she has expressed her support.

Conduct Due Diligence on Potential Partners

SSG has completed due diligence reports on Tigo and Millennium Insurance. Both reports have been approved by SFMP. SSG also completed a due diligence report on Vodafone; however, SFMP is now moving ahead with the Tigo partnership in the place of the earlier planned partnership with Vodafone.

Prepare Strategic Partnership Concept Papers

In Q3, SSG completed the concept paper outlining the scope of the Millennium/UT Insurance partnership. The concept note has been reviewed by Millennium/UT and SFMP. SSG has also completed the concept note on the Tigo partnership, which has been reviewed by SFMP, Tigo, VOTO Mobile, and MOFAD (partners).

Conduct Preliminary Partner Negotiations

SSG has begun negotiations with Tigo, VOTO Mobile, and MOFAD on their roles and contributions for the Tigo partnership. Further, negotiations are under way with Millennium and UT Life regarding activities, roles, and resource contributions for the insurance partnership.

Prepare and Negotiate Draft MOUs

SSG has drafted an MOU (Letter of Collaboration - LOC) for the Tigo partnership. The LOC has been reviewed by SFMP, MOFAD and VOTO Mobile and is currently being reviewed by Tigo, the principal partner.

IR7: Local Capacity Development

The Organizational Development Manual developed by SNV has been validated by implementing partners at a workshop conducted on April 27th, 2016. Inputs from the workshop have been incorporated in to the finalized manual.

The PhD student sponsored by SFMP, Evans Arizi, completed his first semester at the University of Rhode Island. He completed an advanced class in fish population dynamics, a class in ecosystem science and a seminar with a grade point average of 3.7. He is currently preparing his dissertation proposal and participating in the field work on board commercial vessels with fishermen in RI to gain at-sea experience and observe the local fishing operations. He will continue these tasks throughout the summer semester (May-August).

Two additional individuals from UCC were accepted for Master degree training at URI starting in the fall of 2016. Ivy Gyimah will study Marine Affairs (policy). Evelyn Takyi will be in the Biological and Environmental Sciences program, concentrating on Fish Genetics.

Their studies will start in September, 2016. In addition, Evelyn Takyi was admitted to complete a 6 week-internship with Professor Michael Osei-Atweneboana from Water Research Institute of Ghana prior to her departure to RI. The internship will allow the student to familiarize herself with fish genetic techniques and equipment used in Ghana and help her to establish guidance for her research proposal.

Two Fisheries Commission staff have also been accepted to URI master's degree programs in Marine Affairs and will start their program of Study in September.

Implementation Challenges

One key challenge that has arose has been delays in promoting a new smoking technology which may affect our ability to meet targets for number of MSMEs benefiting the project in Q4. The delays in finding a new smoker design are twofold: First, The Fisheries Commission Post Harvest Unit requested that an independent evaluation be conducted of the Morrison stove to ensure that fish processors like the design and to discover any possible problems and modifications needed to be considered in a scale-up. The second concerns high PAH levels (Polycyclic aromatic hydrocarbons which are known potent carcinogens found on the fish after the high thermal smoking in the Morrison Stove). Available evidence postulates that this increased carcinogenic deposition has a potential of causing cancer when consumed over a period of time. For this reason, SFMP has embarked on a new pathway towards developing a new appropriate technology to address this challenge. The processes (especially recruiting an international consultant) took longer than expected. However, this process has been completed now and two stoves designs has been completed with a third one underway. It is expected these three designs will inform the direction of programming next quarter and year

M&E Plan and Update

No changes have been made in the SFMP M&E Plan and Performance targets after a revision for FY 2016 was submitted in February 2016.

3. INTEGRATION OF CROSSCUTTING ISSUES AND USAID FORWARD PRIORITIES

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

3.2 Sustainability Mechanisms

In order to assure sustainability of project activities, emphasis is placed on:

- Involvement of relevant government officials in procurement processes undertaken has been highly participatory with government staff involved in developing specifications for procurement. In some cases, this has resulted in a longer timeframe for procurement but more buy-in and assurance that it meets the needs of the intended beneficiaries.
- Capacity building and development of local stakeholders is described throughout the report and a key strategy to enhance sustainability of project outcomes.

3.3 Environmental Compliance

During this quarter, field visits were made to the Central Regional TCPD Office refurbishment site and also to Elmina where the Hen Mpoano boat construction work is taking place. The contractors for the TCPD refurbishment work and also for the boat construction were met with and taken through the Environmental Mitigation and Monitoring forms developed for those activities. A follow-up activity will be undertaken to monitor the progress of these activities in the next quarter.

3.4 Global Climate Change

See Section 2, IR4.5: Pra and Ankobra Resilience plans for information on climate activities

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.

URI conducted an internal assessment of local implementing partner financial and administrative systems in June. This review noted significant improvements in financial management, especially with the adoption of QuickBooks financial software and training provided by SFMP.

3.7 Public Private Partnerships

See Section 2, IR 6 for activities on development of public-private partnerships.

3.8 Science, Technology, and Innovation

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

Of particular note here is the use of tablet-based electronic household survey methodologies by the Fisheries Commission M&E Unit for the Morrison stove evaluation. The FC M&E Unit is now adopting this system for all subsequent surveys regardless of whether they are SFMP related. In addition, the experimentation with low cost SUA for obtaining high resolution imagery has demonstrated proof of concept and demonstrating high demand among government and other groups.

4. STAKEHOLDER PARTICIPATION AND INVOLVEMENT

Stakeholder participation and involvement is a key pillar of the SFMP approach and a central means to achieving the overall project goal to restore Ghana’s marine fisheries to a healthy and sustainable state. As such, stakeholder participation is mainstreamed into all of the intermediate results categories including IR3; building constituencies and political will for reform, IR; national policy initiatives, national dialogues and workshops, IR 4; applied management initiatives, IR 5; gender, and IR 6; private sector partnership activities have involved substantial numbers of fisheries stakeholders.

5. MANAGEMENT AND ADMINISTRATIVE ISSUES

The SFMP Accra office had their cooperative agreement amended by USAID in February 2016 for procurement of some capital items and construction of Town and Country Planning

Department Office GIS/training room in Cape Coast and for the DAA Training Center Construction. While USAID acted quickly on the request for amendment, the submission on our part for the amendment took longer than we anticipated as we ensured that we had detailed costing estimates for the constructions amendment requests before this request was made, and that local beneficiaries were fully engaged in that process. This process slowed the purchases of some capital items and construction of the boat so that Hen Mpoano (and DQF) can better access the communities in the Ankobra estuary. The TCPD refurbishment and boat constructions will be completed in Q4.

URI and CRC conducted an internal review of SFMP and implementing partner (IP) financial and administrative systems. The URI team identified a number of areas where significant

improvements have been made. However, the team also identified areas in need of improvements among the IPs including certain aspects of personnel management, vehicle logs and standard operating procedures. Recommendations will be forthcoming so that improvements can be immediately implemented prior to formal external audits to take place in the fourth quarter.

The Chief of Party also undertook a management performance review of the project with the CRC senior management group. This review has led to a number of changes that will be made in the SFMP Accra Office including increased fisheries technical staffing that can provide more intensive oversight of implementing partner performance among other tasks. Transition planning, where the current CoP and the Fisheries Technical Advisor will return to URI in Year 3 was also started. Recruitment for the new CoP and additional technical positions will start in the fourth quarter.

6. LESSONS LEARNED

The original project design called for development of a demersal fishery plan and a small pelagics management plan and was consistent with what is now a rather dated national fisheries plan developed over a decade ago. However, with the development of the EU yellow card, the Fisheries Commission developed a holistic Marine Fisheries Management Plan that encompassed all fleets and all marine stocks. This plan was formally adopted in 2015 and now makes the development of separate small-pelagic and demersal plans moot. While separate plans may be developed in the future, the project needs to adjust more fully to supporting the Fisheries Commission in the implementation of the marine fisheries management plan. This has implications for adjustments in activities this year and for subsequent years. Rather than there being separate management plans for the small pelagics and the demersal fisheries, the project will support the implementation of the NMFMP that has both small-pelagic and demersal elements, and showing more linkages between these stocks and fishing fleets as the trawl fishery is now a major actor in the small pelagic fishery with the significant “Saiko” catches now being landed. This may affect how certain indicators and results targets are reported or modified moving forward and will be part of the work planning that will occur for Year 3.

The M&E team embarked on field monitoring of activities implemented this quarter and it was learned that the classroom nature of training delivery used by partners requires more rigorous and consistent follow-up and monitoring than what was originally planned and undertaken. For this reason, a redesign of all Q4 activities have been underway to ensure that this feedback is incorporated into programming to improve quality and effectiveness. This will further be a guiding principle for drafting and planning of Year 3 activities.

7. PLANNED ACTIVITIES FOR NEXT QUARTER INCLUDING UPCOMING EVENTS

Selected highlights of upcoming activities in the fourth quarter include the following:

- A training workshop on use the impact investment tool, selected business models and awareness creation themes to kick off stove promotion campaigns (6th to 8th of July)
- Work planning for Year 3 (July – August)
- Training of MSMEs on healthy fish processing protocols at Apam and Winneba (July)
- Partners Meeting (July 21-22)
- Start of the community campaign on IUU fishing and the NMFMP (July – Sept)

- Visit of several URI Deans to UCC (August 1-4)
- Shipping (airfreight) of scientific saw to UCC (August)
- Inauguration of the of the Marine Police Academy (dates TBD)
- Inauguration of the Town and Country Planning Office Data Center (dates TBD)
- Launch of the Fisheries Watchdog Committee Program (early August)
- 4 Master’s students depart for the US, URI (August 31)
- Start of construction of the permanent DAA Training Center. (Sept)
- External audit for SFMP and local implementing partners (Sept)

8. FINANCIAL INFORMATION

Table 3 Financial information

Budget Item	Total Funds Obligated to Date (US\$)	Total Funds Expended to Date, through June 30, 2016 (US\$)	Pipeline (US\$)	Estimated Expenditures and Encumbrances (US\$) July- Sept 2016
Direct costs	4,781,123	3,009,018	1,772,105	565,250
Subgrantees and grants	4,475,594	3,439,117	1,036,477	800,000
Construction	15,000	15,000	0	275,000
Training	68,501	6,053	62,448	36,000
Total Direct	9,340,218	6,469,188	2,871,030	1,676,250
Indirect	1,142,826	736,746	406,080	146,965
Total	10,483,044	7,205,934	3,277,110	1,823,215

Revision of PMP Results

Note: The table below has been revised to capture results according to each quarter. Some indicator data were revised to reflect indicator definition at the end of the year as part of internal review process. Also some of the results delayed and were reported in the next quarters as an update of the previous quarter result thereby creating inconsistencies in the way the previous quarter result as reported. The revision of this result table is as a result of project internal review and the adoptive management process. This revision did not change the annual figures reported.

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 2016		Quarterly Status – FY 2016				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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	This indicator will be tracked in 2019
Number of indirect project beneficiaries (number), the percentage of which are female (percent) (IDA Core Indicator) (Goal level indicator from Ghana CDCS)	Project record and surveys	2015	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	This will be tracked in FY 2017
Intermediate Result (IR): POLICY: Strengthened enabling environment for marine resources governance											
Number of agricultural and nutritional enterprises completing the following processes/steps of development as a result of USG assistance in each case: (FTF 4.5.1(24))	Copies of laws, policies, strategies, plan or regulation	2015	0	Fish Act analysis	2	1	0	1		50%	Baseline yet to be established
Analysis				Small pelagic analysis							
Stakeholder consultation/public debate				Child labor analysis							
Drafting or revision				Demersal analysis							
Approval (legislative or regulatory)											
Full and effective implementation											
Indicator	Data	Baseline data		FY 2016		Quarterly Status – FY 2016		Annual		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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Indicator will be tracked in FY 2017
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		956	758	194	244	320	N/A	79%	Indicator on target to be achieved
Number of information products disseminated in local media reports, radio shows, conference papers, and research studies (Project indicator).	Sample of reports	2015	0	55	65	31	30	4	N/A	118%	Target exceeded, will be reviewed in Q3.

Indicator	Data Source	Baseline data		FY 2016		Quarterly Status – FY 2016				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
Intermediate Result (IR): APPLIED MANAGEMENT: Improved management of marine resources											
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)	GIS Maps, policy documents	2015	0	0	N/A	N/A	N/A	N/A	N/A	N/A	This indicator will be tracked from FY 17, to FY 19
Number of DAs supported with USG Assistance (Ghana CDCS, IR 2.3 indicator)	Project records, management plans	2015	0	4 (Ongoing)	4 (Ongoing)	4	4	4	N/A	100%	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Data acquired for western command, will be reported next quarter
Number of climate vulnerability assessments conducted as a result of USG Assistance (EG 4.5.1)	Assessment reports	2015	0	2	0	0	0	0	N/A	0%	Final work is currently being done, will be reported next quarter
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	0	N/A	N/A	N/A	N/A	N/A	N/A	This indicator will be tracked in FY17, FY 18 and FY 19
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	751	579 M-115 F-464	0	138 M- 32 23% F- 106 77%	441 M-83 (19%) F-358 (81%)	N/A	77%	Indicator on target and will be fully accomplished by end of quarter 4

Indicator	Data Source	Baseline data		FY 2016		Quarterly Status – FY 2016				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
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		
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	3 (DAA, CEWEFIA, NATIONAL CANOE FISHERY COUNCIL	3		2	1		100%	Target achieved
Number of members of producer organizations and community based organizations receiving USG assistance (S)(FTF 4.5.2(27))	Project documents	2015	0	1144	1144 (Ongoing)	0	1144 (On-going)	1144 (On-going)	N/A	100%	Target ongoing/ achieved

Indicator	Data Source	Baseline data		FY 2016		Quarterly Status – FY 2016				Annual Performance Achieved to Date (in %)	Comment(s)
		Year	Value	Annual Cumulative Planned target	Annual Cumulative Actual	Q1	Q2	Q3	Q4		
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	1	N/A	N/A	N/A	N/A	N/A	N/A	This will be reported at the end of the FY
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)	Project training reports and participant lists	2015	0	826	868 M-379 F-489	200 M- 22 (11%) F-178 (89%)	384 M-193 (50%) F- 191 (50%)	284 M- 164 (58%) F- 120 (42%)	N/A	105%	Target exceeded by 5.08%
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	16,080	12,228	4,674	4,137	3,417	N/A	76%	Indicator on target.

* Gender breakdown was also added as part of internal review and adoptive management process conducted at the end of the year.

* Number of agricultural and nutritional enabling environment policies completing the following processes/steps of development as a result of USG assistance data was revised from 1 to 2.

* 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)) was revised from 2 to 3 after internal review process at the end of the year.

* Number of direct project beneficiaries (number), the percentage of which are female (percent) (IDA Core Indicator) disaggregated by rural, urban (IR 2.1 indicator from Ghana CDCS) was revised from direct to indirect beneficiaries.

ANNEX B: TRAINET REPORT

This report includes trainings that count towards two indicators: Number of micro, small and medium enterprises (MSMEs), including farmers, receiving business development services from USG assisted sources (FtF 4.5.2), 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. The trainings reported in the following Table are for the current reporting period: April 1 – June 30, 2016.

However, some training activities implemented before April 1, 2016 have been captured in this quarter due to internal reporting arrangements where they were not entered into Trainet prior to submission of the last quarterly report.

Table 5 TRAINET Report

Program Activity Name	Start date	End date	Total Budget	Total Actual	Total Male Participants	Total Female Participants	Total	USAID Budget per Participant (USD)
Business Management Training Moree- Y2Q3	06/16/2016	06/20/2016	3158.33	3158.33	6	46	52	60.74
Business Management Training Anlo Shama- Y2Q3	06/16/2016	06/20/2016	3011.71	3011.71	3	41	44	68.45
Business Management Training Elmina Y2Q3	06/16/2016	06/20/2016	3086.72	3086.72	13	36	49	62.99
TOT for CEWEFIA Staff on Business Development KEEA Assembly Hall- Y2Q3	04/18/2016	04/20/2016	1462.79	1462.79	2	4	6	243.8
Hygienic Fish Handling Elmina- Y2Q3	04/30/2016	04/30/2016	573.92	573.92	18	35	53	10.83
Child Protection Workshop for CLATS Advocate and CCPC CapeCoast- Y2Q3	06/02/2016	06/04/2016	1632.22	1632.22	46	23	69	23.66
Business Skills Development Winneba- Y2Q3	05/19/2016	05/20/2016	4909.5	4909.5	3	34	37	132.69
Business Skills Development Winneba- Y2Q3	05/24/2016	05/25/2016	4909.5	4909.5	0	37	37	132.69
Business Skills Development	05/26/2016	05/27/2016	3927.6	3927.6	2	25	27	145.47

Program Activity Name	Start date	End date	Total Budget	Total Actual	Total Male Participants	Total Female Participants	Total	USAID Budget per Participant (USD)
Winneba- Y2Q3								
Study Tour on Packaging and Branding Standards Elmina Y2Q3	04/14/2016	04/14/2016	213.01	213.01	2	8	10	21.3
Business Development and Management Training Shama, Axim and Ankobra- Y2Q3	03/16/2016	03/31/2016	536.48	536.48	1	99	100	5.36
Village Savings and Loans Association in Kukwavi, Kukwavi- Y2Q3	03/22/2016	04/19/2016	1233.87	1233.87	28	22	50	24.68
Village Savings and Loans Association in Kukwavi, Kukwavi- Y2Q3	03/22/2016	04/19/2016	1233.87	1233.87	28	22	50	24.68
Hygienic Fish Handling Shama, Axim and Ankobra- Y2Q3	03/16/2016	03/31/2016	574.75	574.75	1	99	100	5.75
Microfinance/ Loan Selection Shama, Axim and Ankobra -Y2Q3	04/22/2016	04/22/2016	90.57	90.57	1	149	150	0.6
Micro-Credit to 150 Beneficiaries in Shama, Ankobra and Axim- Y2Q3	04/20/2016	05/19/2016	6272.37	6272.37	1	153	154	40.73
Village Savings and Loans Association at Kukwavi, Eziome and Ekpoazo- Y2Q3	04/26/2016	05/17/2016	478.32	478.32	57	33	90	5.31
Gender Fisheries Policy Advocacy Training for women leaders within the fisheries sector Takoradi Y2Q3	06/14/2016	06/15/2016	3478	3478	0	21	21	165.62
M & E Officers Training East Legon- Y2Q3	06/16/2016	06/17/2016	544.98	544.98	9	3	12	45.42
Training of Data Collectors on the use of GPS Ellebelle/Sanwoma- Y2Q3	04/13/2016	04/13/2016	222.56	222.56	10	4	14	15.9
Training on Marine Police and FEU	06/15/2016	06/17/2016	6293.97	6293.97	37	7	44	143.04

Program Activity Name	Start date	End date	Total Budget	Total Actual	Total Male Participants	Total Female Participants	Total	USAID Budget per Participant (USD)
Officers on Fisheries Enforcement Tema- Y2Q3								
Training of Field Data Collectors on GPS data gathering for the Pra resilience planning process Sekondi/Adiembra- Y2Q3	04/11/2016	04/11/2016	503.11	503.11	19	6	25	20.12
Training of Marine Police and FEU Officers on Fisheries Enforcement Sekondi/Adiembra- Y2Q3	05/19/2016	05/21/2016	6293.97	6293.97	43	6	49	128.45
Anti CLaT Advocates Training Winneba- Y2Q3	02/16/2016	02/17/2016	1825.5	1825.5	6	8	14	130.39
Training on Household at Risk Tool Cape Coast- Y2Q3	03/23/2016	03/23/2016	867.18	867.18	12	8	20	43.36
Training on Village Savings and Loan Modules and follow ups Adelekadzo and Ajomoro Eshiem- Y2Q3	05/27/2016	06/10/2016	321.66	321.66	27	18	45	7.15
Training of Youth for woodlot plantation- Y2Q3	06/23/2016	06/24/2016	1648.69	1648.69	25	28	53	31.11

ANNEX C: TABLE OF FISHERIES STORIES REPORTED IN LOCAL MEDIA

Table 6 Table of Fisheries Stories Reported in the print Media and Radio for this reporting period (April-June, 2016)

No.	Platform/ Media House	Segment Type	Topic/ Issue	Date
1	Radio 360	Talk Show	Status of stocks and STWG recommendations/ post-harvest/ value addition	5th April
2	Ahomka FM	Talk Show	CLaT	5TH April
3	Radio Peace	Talk show	CLaT, Value addition	6th April
4	Jubilee Radio	Talk show	Best fisheries practices	8th April
5	Radio 360	Talk show	Fisheries laws and reasons for enforcement challenges	12th April
6	Citi FM	Radio documentary 15min/ Talk show	Ghana's fisheries sector – VR, GAR, WR, CR	11th – 15th April
7	Ahomka FM	Talk show	Importance of mangroves to fisheries	12th April
8	Jubilee Radio	Talk show	Impact of oil/gas on fisheries	15th April
9	Daily Graphic, p14	Announcement	URI President's public lecture and visit to Ghana	15th April,
10	citifmonline	News item	Public Lecture http://citifmonline.com/2016/04/18/public-universities-urged-to-offer-solutions-to-global-challenges/	18th April
11	GNA	News item	http://www.ghananewsagency.org/education/partner-with-foreign-universities-to-enhance-development-universities-urged-102818	20th April
12	Ahomka FM online	News item	www.ahomkafm.com/?p=6972	20th April
13	Ghanaweb.co m	News item	http://www.ghanaweb.com/GhanaHomePage/features/Government-Must-Lead-Fight-Against-Child-Labor-433126?channel=D18channel=D1	25th April
14	Citifmonline	News item	Coastal MP in GAR – Nii Lantey – advocates enforcement of fisheries laws	25th April
15	Radio 360	Talk Show	Pair Trawling and origins, effects on fisheries	10th May
16	Ahomka FM 99.5	Talk show	Fisheries Management issues	10th May
17	Radio 360	Talk show	Role of trawlers in ensuring sustainable fisheries	17th May

No.	Platform/ Media House	Segment Type	Topic/ Issue	Date
	90.1FM			
18	Ghanaweb.co m	News item	http://www.ghanaweb.com/GhanaHomePage/NewsArchive/USAID-and- Ministry-collaborate-To-Stop-Unapproved-Fishing-Practices- 443337?channel=D1	31st May
19	Atlfmonline.co m	News item	http://www.atlfmonline.com/component/k2/item/4604-politicians-should-find- ways-of-rebuilding-the-stocks-of-the-sea-ceo-hen-mpoano	
20	Radio 360	Talk show	Sherry Ayittey on Ye ko Po	7th June
21	Citifmonline	News item	http://citifmonline.com/2016/06/13/citi-fms-obrempong-writes-polifishians- and-dwindling-fish-stock-pt-1/	13th June
22	GNA	News item	http://m.modernghana.com/news/697784/fishermen-pledged-not-to-sell- unwholesome-fish.html	13th June
23	Radio 360	Talk show	Causes of insanitary conditions at our beaches	14th June
24	Myjoyonline	News item	http://www.myjoyonline.com/business/2016/June-11th/ghana-loses-10-million- dollars-annually-through-transshipment.php	14th June
25	Daily Graphic; pgs48-49	Newspaper story	...So help our seas	June 6
26	Citi FM/ GhanaHomePa ge	Online article	http://mobile.ghanaweb.com/GhanaHomePage/business/Ghana-risks-EU-ban- on-fish-Fisheries-Commission-447054	13th June
27	Myjoyfmonlin e	Online news item	http://www.myjoyonline.com/politics/2016/June-15th/have-any-pair-trawlers- been-arrested-by-mahama-akufo-addo-asks.php	15th June
28	citifmonline	News feature	http://citifmonline.com/2016/06/15/polifishians-and-dwindling-fish-stock-pt-2- article/	15TH June
29	Daily Graphic pg 8	News item	Pair trawling persists because of lack of political will to stop it – Akufo Addo	16th June
30	Daily Graphic	News Feature	Digital Fishing: A savior of Ghana’s dwindling stocks	May 15
31	Daily Graphic p71	News item	Fisheries Ministry moves to curb illegal fishing – (SFMP donation)	May 11
32	GNA	News item	http://www.ghananewsagency.org/science/fisheries-unit-receive-vehicles-to- enhance-monitoring--103695	

No.	Platform/ Media House	Segment Type	Topic/ Issue	Date
33	Ankobra FM	News item	HFH Campaign launched in Axim and Ankobra	17th June
33	citifmonline	News item	http://citifmonline.com/2016/06/20/sekondi-fishing-habour-expansion-begins- in-july-gpha	20th June
34	citifmonline	News Feature	http://citifmonline.com/2016/06/20/chemicals-for-fishing-women-are-the- solution-article/	20th June
35	Daily Graphic p55	News item	Marine Police train to enhance performance	21st June
36	GNA	News	http://www.ghananewsagency.org/social/tema-marine-police-officers-attend- workshop-on-fisheries-enforcement-104985	19th June
37	dailygraphicon line	News item	http://www.graphic.com.gh/news/general-news/parents-urged-to-help-curb- truancy-among-children.html#.V3Jxq8T-abs-whatsapp	28th June
38	Ghanaian Times	News	Mfantseman Assembly moves to check child labor	17th June
39	Radio Peace	Talk show	Effects of Child Labor and Trafficking on Victims, Family, Community and Society at large	13th April
40	Radio Peace	Talk show	Post-Harvest Value Chain in Fisheries and Introduction to Healthy Fish Handling (HFH).	20th April
42	Radio Peace	Talk show	Post-Harvest Value Chain in Fisheries and Introduction to Healthy Fish	11th May
43	Radio Peace	Talk show	The Underlying Causes of Child Labor and Trafficking – The “Pull and Push Factors”	18th May
43	GNA	News item	http://www.ghananewsagency.org/economics/new-fishing-centre-established- at-bortianor-105129	23rd June
44.	GNA	News item	http://www.ghananewsagency.org/economics/journalists-call-for-rigid- enforcement-of-fisheries-laws-104782	14th June