Livelihoods and poverty reduction in coastal communities in the Western Region of Ghana:

Analysis of livelihoods baseline data of the ICFG Program

3 July 2013
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This publication is available electronically on the Coastal Resources Center's website at http://www.crc.uri.edu and the WorldFish Center's website at http://worldfishcenter.org.

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Citation: Kruijssen F. and Asare C. (2013). Livelihoods and poverty reduction in coastal communities in the Western Region of Ghana: Analysis of livelihoods baseline data of the ICFG Program. Coastal Resources Center of University of Rhode Island and WorldFish. 44 pp.

This is a working document.

Disclaimer: This document is made possible by the generous support of the American people through the United States Agency for International Development (USAID)/Ghana. The authors do not guarantee that the information in this report is free from errors or omissions. The report is part of a work in progress and it is advised to consult WorldFish for updates on this study. The contents are the responsibility of the authors as part of the Integrated Coastal and Fisheries Governance (ICFG) Project and do not necessarily reflect the views of the United States Government. Associate Cooperative Agreement No. 641-A-00-09-00036-00 for "Integrated Coastal and Fisheries Governance (ICFG) Program for the Western Region of Ghana", under the Leader with Associates Award No. EPP-A-00-04-00014-00.

Table of contents

A	cknowledgement	iv
S	urvey team	iv
1	Introduction	1
2	Research approach	1
	Sampling strategy	
	Questionnaire	
3	Data limitations	3
4	Description of the dataset	4
	Terms and definitions	
5	Main findings	
J	· ·	
	Household assets	
	Vulnerability	
	Livelihoods activities	
	Constructing Livelihoods	
	Livelihoods Identity	
	·	
6	Summary tables of results	
	Household assets	
	Key Household Assets	
	Natural Assets	
	Human Assets	
	Domestic (Physical) Assets	
	Social Assets	
	Financial Assets	
	Vulnerability	
	Nutrition	
	Livelihoods activities	
	Agriculture	
	Animal Products	
	Fishing	
	Other Income	
	Constructing Livelihoods	
	Subsistence	
	Livelihood Activities	
	Livelihoods identity	37
L	ist of Tables	
	able 1. Number of households and sample size in the four target communities	
Т	able 2. Mean & Median Selected Assets, by Community	9
	able 3. Mean & Median Selected Assets by Income Tercile, by Community	
	able 4. Land Owned and Farmed, by Community	
	able 5. Size Distribution of Land Owned and Farmed, by Households, by Community (in %)	
T	able 6. Mean Land Owned by Income Tercile, by Community	12

Table 7. Livestock Ownership, by Community	13
Table 8. Mean Number of Livestock Owned by Livestock Type, by Community	
Table 9. Mean Livestock Assets in Cattle Equivalent Units by Income Tercile by Community	
Table 10. Access to and Use of Natural Resources	14
Table 11. Household Demographics and Education, by Community	15
Table 12. Household Education Level, by Income Tercile, by Community	16
Table 13. Education Level Reached, by Gender and Community	
Table 14. Reasons for Migration, by Community	17
Table 15. Health in the HH by Income Tercile, by Community	18
Table 16. Five Most Common Diseases, Across Households	19
Table 17. Selected Domestic Assets, by Community and Total	20
Table 18. Types of Organizations, % of HH Members by Community	20
Table 19. Loans and Savings, by Community	20
Table 20. Most Common Shocks, % of HH by Community	21
Table 21. Most Severe Shocks, % of HH, by Community	21
Table 22. Mean Loss from Adverse Events, by Community	22
Table 23. Five Most Common Shocks, by Income Tercile by Community	
Table 24. Coping Mechanisms, by Community	24
Table 25. Five Most Common Coping Mechanisms, by Income Tercile by Community	24
Table 26. Food Consumption and Shortage, by Community	25
Table 27. Sources of Fish and Fish and Food Shortage, by Community	26
Table 28. Top 5 of Most Common Fish Species Consumed, by Community	27
Table 29. Primary and Secondary Occupations of HH Members, by Gender and Community (%)	27
Table 30. Land Ownership and Main Crops Grown, by Community	28
Table 31. Producing Animal Products for Home Consumption or Sale	
Table 32. Fishing Calendar, by Community	
Table 33. Calendar of Involvement in Fishing Activities, by Community	30
Table 34. Other Sources of Income, by Community	31
Table 35. Output Share Selected Crops and Livestock Consumed at Home, by Community	31
Table 36. Share of Own Consumption in Total Income by Income Tercile, by Community	32
Table 37. Number of Livelihood Activities per Household by Income Tercile, by Community	33
Table 38. Income Portfolios by Income Tercile, by Community	35
Table 39. Mean Annual Household Income by Income Tercile, by Community (Ghana Cedi)	36
Table 40. Mean Annual Per Capita Income by Income Tercile, by Community (Ghana Cedi)	36
Table 41. Willingness to Change Primary Occupation by Income Tercile, by Community	37
Table 42. Reasons for Willingness or Unwillingness to Learn a New Occupation	37
Table 43. Count of Occupations to Change to, Specified, by Gender of Respondent	38
Table of Figures	
Figure 1. Most Common Months of the Year HHs Do Not Eat Fish or Have Food Shortage, by	26
Community	
Figure 3. Calendar of Involvement in Fishing Activities, by Community	
Figure 4. Number of Livelihood Activities per Household by Income Tercile, by Community	
rigure 4. Intimoet of Livermood Activities per Household by micome referre, by Community	54

Acknowledgement

We wish to thank all community members that participated in this survey. Comments on an earlier draft version from Tendayi Maravanyika are gratefully acknowledged.

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1 Introduction

This report is the result of the livelihoods baseline survey as part of the USAID-funded Integrated Coastal and Fisheries Governance (ICFG) Program for the Western Region of Ghana (Hen Mpoano). The survey aims to provide a baseline for interventions to be implemented as part of the Hen Mpoano project by:

- 1. Establishing a baseline of the status of livelihoods of households in target communities (assess income levels and sources, seasonality issues, assets, vulnerability)
- 2. Establishing a simplified nutritional baseline of households in target communities and fish species consumed
- 3. Identifying opportunities for livelihood diversification in the target opportunities

The survey was implemented in February and March of 2012 in four target communities: Anlo Beach (Shama district), Akwidaa and Dixcove (Ahanta West district), and New Town (Jomoro district). These communities represent a range of livelihoods and conservation issues as well as a geographical spread, and are the target communities for further work, especially by WorldFish.

This document is structured as follows. Section 2 describes the research approach including the sampling design. Section 3 brings out some limitations in the data. Subsequently Section 4 gives a detailed description of the dataset, summarized in tables and figures. Finally Section 5 gives a synthesis of the major findings and implications.

2 Research approach

Sampling strategy

Ideally the sampling frame would have been based on a random sample from a comprehensive list of households. However apart from the constraint that these lists are not available this would also have resulted in a sample that is very dispersed geographically which was not feasible in terms of resource availability and logistical planning.

We therefore follow the approach also taken in the Feed the Future Initiative (USAID) which consists of two stages. In the first stage the target communities were divided into clusters and individual clusters were than selected, with a cluster's chance of being selected proportional to the population residing in the cluster. The second stage was to select households within the selected clusters.

The sampling strategy was based on aerial maps of the communities, overlaid with a grid. Individual clusters were selected through a "Probability Proportional to Size sampling" method, which means that the chances of a cluster being selected are proportional to the number of houses identified in the cluster. The identification of the number of households in each cluster was done by using the number of structures identified on the map. While this is a crude approach - as the aerial maps may not have been fully up-to-date, nor a reliable means to identify individual houses - it did succeed in bringing out differences in population density in each of the clusters resulting in an approximation of an equal probability for each of the households of being selected. The second stage then consisted of numbering structures on more detailed cluster maps and randomly selecting the appropriate number for the sample and the reserves.

The unit of analysis is the household and this therefore also formed the basis for our sampling strategy. For an approximation of numbers of households in each community we used Ghanaian census data. Unfortunately the information for the 2010 population census was not available yet and we have therefore used the data from the 2000 census inflated by 20%. The sample size was then decided by the desired confidence level and confidence interval of the results and the expected variability in the responses. We have used a confidence level of 90% and a confidence interval of 5%. Expected variability is assumed to be 30%. Table 1 shows an overview of the sample size as planned and what was actually achieved in the field. This results in a confidence interval of around 6% instead of 5%.

Table 1. Number of households and sample size in the four target communities

Community	Estimated no.	Desired	No. of clusters	Actual sample	Confidence
	of households	sample size	(sample size /	size	interval actual
			30)		
Anlo Beach	380	143	5	100	6.5%
Akwidaa	320	134	5	94	6.5%
Dixcove	1370	196	7	153	5.8%
New Town	330	135	5	100	6.3%
Total				447	

In some of the communities it is common for more than one household to share a dwelling. To avoid additional complexity in the sampling framework we interviewed all households in the selected house separately. When a structure indicated on the map was not a household dwelling, but was privately owned (e.g. a smoking shed) the household that owns this structure was interviewed ONLY IF they were located adjacent to the structure. Public structures (e.g. school, hospital, government office) were excluded from the survey. This process was documented.

Questionnaire

The questionnaire consisted of several components:

- Section 0: Identification: intended to enable identification of the household in case of follow up questions or for participation in any interventions.
- Section A: Household Roster: identifies the members of the household and lays the foundation for many questions later on. This section gives the interviewers the information they need to collect all incomes from all members of the household. It will also allow for calculation of the so-called dependency ration, i.e. how many working adult members support the children and those unable / unwilling to work.
- Section B: Education and Occupation: This section deals with the education and occupation of household members of 10 years of age and above. This information will tell us about the "human assets" the household has available and the most important sources of income in the household
- Section C: Risks and Shocks: This section is about the shocks households face and how they cope with them so will tell us more about the household's resilience.
- Section D: Sicknesses and Injuries: This section will tell us about the health status and vulnerability of the household. Illnesses and injuries among economically active household members will result in a reduction in income for the household.
- Section E: Death in the Family: the death of economically active household members result in a lower income level for the household
- Section F1: Land Holding and Utilization:
- Section F2: Crop Production and Yield Utilization:

- Section F3: Livestock Rearing: collects information on livestock being reared by the household and income derived from this livestock through sales of live animals and animal products
- Section G1: Calendar of fishing and fishing related activities:
- Section G2: Fishing
- Section G3: Fishing Related Activities
- Section H: Income from Other Sources
- Section I: Assets
- Section J: Access to Natural Resources
- Section K: Access to Financial Services
- Section L: Membership of groups and networks
- Section M: Nutrition and Food Security
- Section N: Livelihoods identity
- Concluding Remarks

3 Data limitations

While care was taken to derive a randomly selected, representative and reliable data set, a number of data limitations need to be taken into account:

- The sampling framework based on aerial photographs while the best available option to derive a random sample was sometimes a challenge to implement on the ground. This was mainly due to structures being marked that either no longer existed, were not household dwellings or structures marked individually turned out be part of other marked structures resulting in households being sampled twice. Mostly this issue could be dealt with by reverting to the reserves list.
- There were some difficulties with language barriers in Anlo Beach. In cases when the respondent could only speak Ewe, help was solicited from willing community members to translate.
- Time and resources limitations resulted in a smaller sample size than initially planned.
- In one of the communities, Akwidaa (new settlement), it was difficult to find people during the day due to the nature of their work (farming). There is no electricity available in this community and this caused limitations in implementing the survey at night. This may have brought in some bias into the sample. Data collection time was extended here so has to gather as much info as possible.
- In New Town some households were unavailable because of migration away from the community (e.g. to Ivory Coast). This may have resulted in a bias in the sample.
- In July 2007, a new Ghanaian currency was introduced, with a rate of 1 new cedi against 10,000 old Cedi. Some respondents however may still refer to the old currency. To add to the confusion, in day-to-day life people often used to omit the thousands when referring to the old currency. For example 10,000 old Cedi may be referred to as 10, which in the new currency would be 1 Cedi. This fact may have gone unnoticed by the interviewer during some interviews. While we have aimed to correct the error where it was obvious, this may have not happened for all cases, causing some uncertainty in the financial data.
- The income data is of poor quality, it was difficult for people to recall specific amounts of income and costs. As a result, the income data are unreliable, especially those for trading and processing fish. Efforts to impute incomes based on average fish prices and costs also did not yield usable figures. It was therefore decided to establish income terciles based on household income excluding fish processing.

4 Description of the dataset

The description of the dataset in this section was heavily influenced by the work conducted in the DfiD funded LADDER project, undertaken by the University of East Anglia in four African countries¹. Their quantitative survey instruments also aimed to assess the assets, livelihoods activities and changing vulnerability contexts.

Terms and definitions

Household (HH): A group of people who live together and take food from the "same

pot." In our survey, a household member is someone who has lived in the household at least 6 months, and at least half of the week in each week in those months. If someone stays in the same household but does not bear any costs for food or does not take food from the same pot, they are not considered household members. For example, if two brothers stay in the same house with their families but they do not share food costs and they cook separately, then they are considered

two separate households.

EAAs: Economically Active Adults HH members aged 15-60 years,

inclusive, regardless of gender, but excluding those still in education. Also includes those aged above 60 that are still economically active.

AEUs: Adult Equivalent Units Based on consumption: male 15 years or older

= 1; female 15 years or older = 0.8; male or female 14 years or under

= 0.5

CEUs: Cattle Equivalent Units Based on market value ratios between

livestock (from secondary data): Cattle including calves=1.00, Pigs=0.15, Sheep=0.14, Goats =0.10, Rabbits=0.02, Chicken=0.02,

Other poultry=0.01.

Per Capita Income: Net Total Household Income divided by AEUs

Income Terciles: Calculated by ranking households from highest to lowest on the basis

of per capita income, a) per community and b) for the whole sample. Income terciles were based on income excluding fish processing and trading income as these data proved to be unreliable. For some households income terciles could not be established because a component of household income contained missing data, in those cases the results are only presented in the overall results but data are excluded from the data presented under the income terciles. For that reason the number of cases included in the tables in the column "all" are higher than the sum of the number of cases in the three columns

for the income terciles.

5 Main findings

It has become apparent in literature on poverty reduction that livelihoods of the poor comprise of many activities. Income diversification is a means to cope with risks and seasonality related to agriculture and fisheries. Poverty is multi-dimensional as it not only relates to income and consumption levels, but also to a lack of basic needs (access to shelter, health, and sanitation) and the ability to cope with shocks. Understanding poverty therefore requires the analysis to go beyond measuring income, to include factors such as education levels, health status, ownership and control over capital, financial and natural assets and

¹ For more information about LADDER see: http://www.uea.ac.uk/dev/People/staffresearch/ladder

access to social networks. The livelihoods survey conducted for the Hen Mpoano project aimed to encompass all these dimensions. The main findings of the survey are presented in this section, while the next section presents summary tables of the results.

Household assets

Average household size is 6 members and is quite similar across the communities with the exception of Akwidaa where household size is slightly higher. About 40% of households have a female head. In those households a husband is either not resident or not listed as a household member. Across the sample 14% of households have a household member that has migrated for employment, studies, marriage or other reasons. Migration is much less common among households in New Town, however this may be related to the timing of the survey as New Town is a migrant village with fishers coming in for fishing during peak season.

Mean education level of economically active adults is on average 5.2 years, but much higher in Anlo Beach (5.6 years) than in Akwidaa (4.7 years). The highest level of education reached by anyone in the household is about 9 years. In Anlo Beach and Dixcove education levels are higher for the highest income tercile, but in New Town and Akwidaa highest mean education levels are attained by the middle income tercile. Almost half of the adult household members in the sampled households had not attained any education level, while 21% finished primary school and 22% junior secondary school. Senior secondary school was finalized by less than 8% of the household members. Education levels are consistently lower for women than for men across the four communities. Less than 40% of all adult household members are literate.

About one fifth of the sampled households had an occurrence of an illness or injury in the past year, and this is more or less even across income terciles. A death in the household in the past 5 years has occurred in over 40% of households but is less common in the higher income tercile than in the middle and lower income terciles. Use of the National Health Insurance Scheme (NHIS) is higher among those households as well. The mean number of days a sick or injured household member stopped working is 54 days, but is overall lower for the lowest income tercile. This could potentially be due to a higher necessity to earn an income, regardless of whether a person feels well enough to work. The most common health issue across the four communities is malaria with 20% of illnesses attributed to this disease.

Group membership is common across the four villages, with the majority of those groups indicated as a group connected to the church with as its main aim worshipping, singing and prayer. Overall only 3% is a member of a group that has a business or vocational purpose. The exception is Anlo Beach where the majority of group membership is with a community group.

About 28% of the households indicate they had a loan in the past year. Borrowing money is more common in Dixcove than in the other communities. The average value of the loan is also much higher in this community. About 16% of households have savings, but again this is higher in Dixcove (27%). Value of the savings is highest in Dixcove and New Town, lowest in Akwidaa.

Land ownership is markedly higher in Akwidaa than in other communities, an average of about 1 hectare, while in the other three communities this is less than 0.33 hectares. This is both due to a higher proportion of households owning land as well as larger land area (more

than double the size of that in Anlo Beach, almost triple the size in New Town, and four times the size in Dixcove).

Livestock ownership is limited in all four communities, on average 0.34 cattle equivalent units. Goats and chicken are most commonly owned livestock, but chicken rearing is markedly more common in Anlo Beach than in the other three communities with over 60% of households owning chicken, compared to 21-24% in the other three communities. Livestock ownership is least common in New Town, with about 31% owning some kind of livestock compared to 46% for the overall sample.

Vulnerability

The vast majority of households have experienced a shock in the past year (only 2.5% indicates they did not). Overall the most common shocks are increases in food prices, increases in input prices, flooding, lower fish availability, destruction of housing, and drought. However, occurrence of shocks differs across communities. In Akwidaa the third most common shock is pests or diseases affecting crops. As this community has a higher level of agricultural activity, this is not surprising. In Anlo Beach the most common shock is flooding, due to the location of the village. The effect of 'green green' (a type of algae that affects fish catch because it gets entangled in fishing nets and other gear) is most experienced in New Town. In Dixcove and New Town adverse weather affecting fish catch is also commonly indicated as a shock. The shocks experienced as most severe are increase in food prices, flooding, destruction of housing, low fish availability, death of adult members, and job loss by a household member. The occurrence of most shocks is higher for the highest income tercile.

Coping mechanisms to overcome shocks that are most commonly used include working harder, reducing consumption, borrowing money from a relative, do nothing, and use savings. Borrowing from a moneylender or non-relatives is less common. Working harder and reducing consumption are common coping mechanism for the highest income tercile especially.

Nutrition

The mean number of meals eaten per day is slightly less than three. Fish is commonly eaten in all communities with about 80% of meals containing some fish. Meat and chicken / poultry on the other hand are eaten only occasionally; on average less than one meal per week contained meat and also less than one meal contained chicken or poultry.

At the time of the survey some food insufficiencies occurred, with households having insufficient food during 3 days in the past 30 days on average. More than 50% indicated they suffered food insufficiencies in the past year, in Dixcove this is even as high as 80% of households, while Anlo Beach is best off with 37% of households. Almost 40% had an adult occasionally skipping meals because of insufficient money available to buy food and again this is highest in Dixcove (62% of household) and lowest in Anlo Beach (20% of households). Both food and fish shortages occur most in May to July, except for in New Town where this is most common in April.

Fish species most commonly consumed differ by community. In Akwidaa and Dixcove tuna species are indicated by almost all households as most commonly consumed, while this is much less for the other two. Sardines and related species are commonly eaten across all communities. In addition, households in Anlo Beach indicate they commonly eat tilapias,

shrimp, large hairtail and cassava fish. Tilapia is also commonly eaten in New Town, as well as threadfin and anchovy.

Livelihoods activities

Respondents were asked about the primary and secondary occupation of all household members. Fishing is among the top 3 of occupation for men for all communities, but is only highest in Anlo Beach and Dixcove. For women fish processing is among the top 3 but is the highest in none of the communities. This place is taken up by small business/ petty trading in most of the communities. Farming is also a common occupation in all communities for both men and women.

Crops grown most commonly are cassava, oil palm, maize, coconut, plantain and pepper. Maize is however much more commonly grown in Anlo Beach than in the other three communities, while coconut is much more common in New Town and oil palm in Akwidaa and Dixcove. Surprisingly, use of animal products is low, and if it is used it is mostly for home consumption and not for sale, except in Anlo Beach where sales are more common.

Fishing and fishing related activities are seasonal. Peak fishing season is August to October but intensity of fishing and fish processing differs across the communities. Equipment making however has its peak at times when the fishing intensity is lowest and when more time is available for this activity. High intensity fishing season is shortest in New Town. In Akwidaa at any time of the year, less than 35% of households are involved in fishing or related activities and this is almost similar in New Town. Anlo Beach and Dixcove have more households involved in these activities throughout the year. What becomes clear from these results is that fishing and fishing related activities are not the most important source of livelihood for many of the households in these communities.

Apart from livelihood activities other sources of income include transfers such as remittances, pensions and gifts.

Constructing Livelihoods

Fishing, animal product production, and agriculture are also important sources for subsistence. For animal products this is the most important way in which these products are used; overall 88% of production is used for own consumption in the household, while for crops this is 39% and for fish 27%. In New Town and Anlo Beach more fish and crops are used for home consumption than in the other two communities. A larger proportion of animal products are consumed at home in Akwidaa and Anlo Beach. A higher proportion of fish is used for subsistence in the highest income tercile, while for animal products and crops this proportion is higher for the lowest income tercile.

Households in the higher income terciles consistently have a higher number of livelihoods activities than the households in the lowest income tercile. Overall, agriculture makes up a larger proportion of income for the lowest income tercile and transfers are also a larger component for this group. The higher income terciles in contrast have higher proportions of non-farm income. Income portfolios in general, differ between communities, for example non-farm income makes up a much higher proportion in Dixcove and New Town than in the other two communities. There is a wide range in per capita income between the lowest and highest income terciles however these findings need to be treated with caution due to unreliability of some of the income data.

Livelihoods Identity

It seems respondents do not feel a high level of commitment to their present livelihood activity. There is a high willingness to learn a new livelihood activity if given the opportunity. Overall, over 73% of the respondents assert they would like to do this. However, when asked if they would change their occupation if they win a large amount of money in the lottery only about half of the respondents indicate they would. Willingness to change is slightly higher in Dixcove and lower in Akwidaa.

Among the reasons for not desiring to learn another occupation is inability because of age or health, and not knowing what else to do. Time limitations are also given as a reason for not wanting to learn a new occupation. Among the reasons for desiring to learn a new occupation are that the current occupation is not profitable enough, too hard or labor intensive, instability of present income and seasonality of present occupation. New occupations popular among men are carpentry, driver (car/taxi), masonry, mechanic and tailor, while for women these are (petty) trading / provision store, bakery (bread / cake / pastry), fish mongering / processing, catering, hairdressing, dressmaking / seamstress and tie and dye.

6 Summary tables of results

Household assets

Key Household Assets

Table 2. Mean & Median Selected Assets, by Community

		Community							
Asset	_	Akwidaa	Anlo Beach	Dixcove	New Town	All			
	N	100	94	153	100	447			
	Mean	6.47	5.87	5.98	5.83	6.03			
HH size	St.dev.	3.84	4.42	4.50	3.37	4.10			
	Median	6.00	5.00	5.00	5.00	5.00			
Land area owned	Mean	1.04	.33	0.06	0.18	0.36			
	St.dev.	3.60	1.39	0.37	0.78	1.90			
(ha)	Median	.03	.01	0.00	0.00	0.00			
Maan advantion	Mean	4.65	5.61	5.40	5.07	5.21			
Mean education	St.dev.	3.54	3.71	3.73	3.70	3.68			
(yrs)	Median	4.73	5.87	5.00	4.94	5.00			
Maximoum	Mean	9.15	9.77	8.82	9.42	9.23			
Maximum	St.dev.	3.98	4.20	4.48	3.92	4.19			
education (yrs)	Median	9.00	10.00	9.00	9.00	9.00			
	Mean	0.45	0.32	0.37	0.20	0.34			
Livestock (CEU)	St.dev.	1.04	0.39	1.09	0.59	0.87			
	Median	0.00	0.16	0.00	0.00	0.00			
	Mean	5.29	4.00	5.33	2.55	4.42			
Boats (index)	St.dev.	18.18	15.20	16.52	11.70	15.69			
	Median	0.00	0.00	0.00	0.00	0.00			
Oth on mby singl	Mean	12.02	16.33	14.79	19.46	15.54			
Other physical	St.dev.	12.46	16.06	14.06	17.67	15.21			
assets (index)	Median	6.76	11.88	10.13	13.64	10.63			

HH Size: No. of residents (all ages)

Mean education: Mean no. of years in education (resident EAAs), household members are considered resident when they have spent more than 6 months in the household. This also includes those above 60 still economically active. For

households without a resident EAA the education of the resident household head is used.

Maximum education: Maximum level of education attained by any of the household members

Livestock: Livestock holding in CEUs, based on value according to Ghana Living Standards Survey 2008

Boats: Value index of boats owned based on size and engine of the boat and typical values: Boat index = (total HH value of boats/maximum value within village sample) X 100

Assets: Index for total asset holdings: Asset index = (total HH value of assets/maximum value within village sample) X 100. Asset value are based on a 10% trimmed mean

Table 3. Mean & Median Selected Assets by Income Tercile, by Community

Community: Akwidaa

		Per o	capita income te	rcile	
Asset		I	II	III	All
	N	31	31	31	93
	Mean	6.97	7.00	5.81	6.47
HH size	St. dev.	4.42	3.67	3.49	3.84
	Median	6.00	6.00	5.00	6.00
	Mean	1.20	1.55	0.33	1.04
Area owned (ha)	St.dev.	3.64	5.23	0.77	3.60
	Median	0.02	0.04	0.03	0.03
Manadusation	Mean	3.96	4.95	4.35	4.65
Mean education	St.dev.	3.34	3.47	3.84	3.54
(yrs)	Median	3.50	5.67	4.71	4.73
Maximum	Mean	8.16	9.77	9.27	9.15
	St.dev.	4.08	3.02	4.83	3.98
education (yrs)	Median	8.00	10.00	9.00	9.00
	Mean	0.29	0.49	0.57	0.45
Livestock (CEU)	St.dev.	0.68	0.92	1.47	1.04
	Median	0.00	0.08	0.00	0.00
	Mean	3.08	1.38	9.91	5.29
Boats (index)	St.dev.	15.37	7.66	23.28	18.18
•	Median	0.00	0.00	0.00	0.00
Other physical	Mean	9.99	10.51	15.16	12.02
Other physical	St.dev.	9.71	8.09	17.30	12.48
assets (index)	Median	6.81	8.60	10.70	9.22

Community: Anlo Beach

		Per	capita income te	rcile	
Asset		I	II	III	All
	N	25	26	26	94
	Mean	5.36	5.27	5.27	5.87
HH size	St.dev.	5.69	2.88	2.66	4.42
	Median	4.00	5.00	5.00	5.00
	Mean	0.00	0.01	0.26	0.33
Area owned (ha)	St.dev.	0.01	0.02	0.91	1.39
	Median	0.00	0.01	0.01	0.01
M 1 t'	Mean	4.46	5.39	6.20	5.61
Mean education	St.dev.	3.19	3.49	4.14	3.71
(yrs)	Median	5.00	5.00	6.54	5.87
M : 1	Mean	8.48	9.58	9.81	9.77
Maximum education	St.dev.	3.64	4.20	4.34	4.20
(yrs)	Median	9.00	9.00	10.00	10.00
	Mean	0.36	0.33	0.34	0.32
Livestock (CEU)	St.dev.	0.38	0.42	0.41	0.39
	Median	0.22	0.14	0.20	0.16
	Mean	0.00	0.00	5.48	4.00
Boats (index)	St.dev.	0.00	0.00	13.34	15.20
	Median	0.00	0.00	0.00	0.00
Other physical	Mean	12.54	16.01	18.07	16.33
Other physical	St.dev.	15.80	14.89	12.95	16.06
assets (index)	Median	9.54	9.32	16.49	11.88

Community: Dixcove

•		Per	capita income te	rcile	
Asset		I	II	III	All
	N	47	44	46	153
	Mean	7.02	5.93	4.96	5.98
HH size	St.dev.	5.48	4.93	2.49	4.50
	Median	5.00	5.00	4.00	5.00
	Mean	0.08	0.06	0.05	0.06
Area owned (ha)	St.dev.	0.48	0.37	0.30	0.37
	Median	0.00	0.00	0.00	0.00
Maan advaation	Mean	5.38	4.81	5.83	5.40
Mean education	St.dev.	3.98	3.57	3.52	3.73
(yrs)	Median	5.00	4.50	5.80	5.00
Marrian	Mean	9.00	8.25	8.98	8.82
Maximum	St.dev.	5.43	4.04	3.92	4.48
education (yrs)	Median	9.00	9.00	9.00	9.00
	Mean	0.36	0.54	0.25	0.37
Livestock (CEU)	St.dev.	0.90	1.70	0.51	1.09
	Median	0.00	0.00	0.00	0.00
	Mean	3.79	5.12	3.31	5.33
Boats (index)	St.dev.	15.96	19.48	8.27	16.52
. ,	Median	0.00	0.00	0.00	0.00
Oth an abrusi sal	Mean	18.06	14.06	11.35	14.79
Other physical	St.dev.	18.00	13.53	8.39	14.06
assets (index)	Median	12.56	8.63	9.71	10.31

Community: New Town

		Per	capita income te	rcile	
Asset		I	II	III	All
	N	31	32	32	100
	Mean	5.91	6.90	4.44	5.83
HH size	St.dev.	3.26	3.83	2.12	3.37
	Median	6.00	6.50	4.00	5.00
	Mean	0.01	0.34	0.22	0.18
Area owned (ha)	St.dev.	0.02	0.95	1.02	0.78
	Median	0.00	0.01	0.00	0.00
Maan advantion	Mean	4.49	5.92	5.18	5.07
Mean education	St.dev.	3.42	3.06	4.52	3.70
(yrs)	Median	5.20	6.17	4.00	4.94
Maximum	Mean	8.82	10.47	8.97	9.42
Maximum	St.dev.	4.22	2.98	4.02	3.92
education (yrs)	Median	9.00	10.50	9.00	9.00
	Mean	0.08	0.36	0.07	0.20
Livestock (CEU)	St.dev.	0.17	0.87	0.13	0.59
	Median	0.00	0.00	0.00	0.00
	Mean	0.00	0.94	6.36	2.55
Boats (index)	St.dev.	0.00	4.34	19.51	11.70
	Median	0.00	0.00	0.00	0.00
Other physical	Mean	13.26	23.47	20.07	19.46
Other physical	St.dev.	8.77	20.33	18.43	17.67
assets (index)	Median	10.53	17.77	12.79	13.64

Natural Assets

Table 4. Land Owned and Farmed, by Community

	Community						
Land type		Akwidaa	Anlo Beach	Dixcove	New Town	All	
	N	100	94	151	100	445	
Area owned	Mean	1.05	0.31	0.06	0.18	0.36	
	St.dev.	3.60	1.38	0.37	0.78	1.90	
(ha)	Median	0.03	0.01	0.00	0.00	0.00	
Area farmed	Mean	0.79	0.31	0.03	0.16	0.29	
	St.dev.	2.46	1.38	0.26	0.76	1.41	
(ha)	Median	0.02	0.01	0.00	0.00	0.00	

Table 5. Size Distribution of Land Owned and Farmed, by Households, by Community (in %)

Community											
Area range	Akwidaa		Anlo 1	Anlo Beach		Dixcove		New Town		All	
	own	farm	own	farm	own	farm	own	farm	own	farm	
None	16.00	20.00	39.36	40.43	79.74	82.35	60.00	62.00	52.57	55.03	
Less than 0.01 ha	11.00	10.00	23.40	23.40	1.96	1.96	5.00	4.00	9.17	8.72	
0.01 - 0.03 ha	21.00	22.00	18.09	18.09	9.15	7.84	15.00	16.00	14.99	14.99	
0.03 - 0.05 ha	16.00	15.00	10.64	9.57	3.92	3.92	7.00	6.00	8.72	8.05	
0.05 - 0.1 ha	11.00	10.00	3.19	3.19	1.96	1.31	4.00	5.00	4.70	4.47	
0.1 -1.0 ha	7.00	8.00	0.00	0.00	0.00	0.00	3.00	2.00	2.24	2.24	
1.0 - 3.0 ha	7.00	6.00	1.06	1.06	1.31	1.31	4.00	3.00	3.13	2.68	
More than 3.0 ha	11.00	9.00	4.26	4.26	1.96	1.31	2.00	2.00	4.47	3.80	

Data are percentages of sample households that own / farm land in this range

Table 6. Mean Land Owned by Income Tercile, by Community

Community		Per capita income tercile						
Community		I	II	III	All			
	N	30	31	31	100			
A 1 do o	Mean	1.20	1.55	0.33	1.05			
Akwidaa	St.dev.	3.64	5.23	0.77	3.60			
	Median	0.02	0.04	0.03	0.03			
	N	25	25	26	94			
Anlo Beach	Mean	0.00	0.01	0.26	0.31			
Allio beach	St.dev.	0.01	0.02	0.91	1.48			
	Median	0.00	0.01	0.01	0.01			
	N	46	43	46	151			
Divisoryo	Mean	0.08	0.06	0.05	0.06			
Dixcove	St.dev.	0.48	0.37	0.30	0.37			
	Median	0.00	0.00	0.00	0.00			
	N	33	30	32	100			
New Town	Mean	0.01	0.34	0.22	0.18			
New Town	St.dev.	0.02	0.95	1.02	0.78			
	Median	0.00	0.01	0.00	0.00			
	N	135	131	133	447			
A 11	Mean	0.32	0.44	0.20	0.36			
All	St.dev.	1.83	2.60	0.76	0.19			
	Median	0.00	0.00	0.00	0.00			

Table 7. Livestock Ownership, by Community

Livestock type	Akwidaa	Anlo Beach Dixcove		New Town	All
	%	%	%	%	%
Goats	34.0	33.0	24.2	3.0	23.5
Sheep	7.0	2.1	2.6	4.0	3.8
Chicken	21.0	61.7	24.2	23.0	31.1
Other poultry	0.0	33.0	0.7	2.0	7.6
Other livestock	0.0	0.0	0.7	3.0	0.9
None	53.0	27.7	60.8	69.0	53.9

Data are percentages of all sample households owning each type of livestock. Other livestock are cattle, pigs, rabbits, and crocodiles, each type owned by only 1 household. Totals do not add up to 100% because some households have more than one type of livestock.

Table 8. Mean Number of Livestock Owned by Livestock Type, by Community

			Livestoc	k type		
Community		Goats	Sheep	Chicken	Other	Other
					poultry	livestock
	Mean	3.22	0.61	3.02	0.00	0.00
Akwidaa	St.dev.	8.31	2.52	7.44	0.00	0.00
	Median	0.00	0.00	0.00	0.00	0.00
	Mean	1.69	0.06	7.10	3.98	0.00
Anlo Beach	St.dev.	3.10	0.44	9.68	7.48	0.00
	Median	0.00	0.00	5.00	0.00	0.00
	Mean	1.96	0.34	4.25	0.07	0.07
Dixcove	St.dev.	4.53	2.94	11.72	0.89	0.81
	Median	0.00	0.00	0.00	0.00	0.00
	Mean	0.47	0.44	4.64	0.21	0.47
New Town	St.dev.	3.21	2.34	12.36	1.48	2.90
	Median	0.00	0.00	0.00	0.00	0.00
	Mean	1.85	0.36	4.66	0.91	0.13
All	St.dev.	5.24	2.37	10.70	3.87	1.46
	Median	0.00	0.00	0.00	0.00	0.00
D 1 1		C .1 1	C 1 : C1:			

Data is the community-level mean of the mean number of each type of livestock owned in the last 12 months (i.e. average of presently owned and owned 12 months ago).

Table 9. Mean Livestock Assets in Cattle Equivalent Units by Income Tercile by Community

Community		Per o	capita income te	rcile	
Community		I	II	III	All
	N	31	31	31	100
Akwidaa	Mean	0.29	0.49	0.57	0.45
Akwidaa	St.dev.	0.68	0.92	1.47	1.04
	Median	0.00	0.08	0.00	0.00
	N	25	25	26	94
Anlo Beach	Mean	0.36	0.34	0.34	0.32
Allio Beach	St.dev.	0.38	0.43	0.41	0.39
	Median	0.22	0.14	0.20	0.16
	N	47	44	46	153
Divanya	Mean	0.36	0.54	0.25	0.37
Dixcove	St.dev.	0.90	1.70	0.51	1.09
	Median	0.00	0.00	0.00	0.00
	N	33	30	32	100
Nam Tarm	Mean	0.08	0.36	0.07	0.20
New Town	St.dev.	0.17	0.87	0.13	0.59
	Median	0.00	0.00	0.00	0.00
	N	136	132	134	447
A 11	Mean	0.24	0.52	0.26	0.34
All	St.dev.	0.47	1.39	0.51	0.87
	Median	0.00	0.00	0.00	0.00

Cattle Equivalent Units Based on market value ratios between livestock (from secondary data): Cattle including calves=1.00, Pigs=0.15, Sheep=0.14, Goats =0.10, Rabbits=0.02, Chicken=0.02, Other poultry=0.01. Means for all HHs

Table 10. Access to and Use of Natural Resources

-		Use of Natural Resource					
Community	Fishing (%)	Collect Firewood (%)	Other (%)	All (%)			
Akwidaa	43.0	71.0	5.0	80.0			
Anlo Beach	58.5	51.1	6.4	68.1			
Dixcove	43.1	27.5	2.0	51.6			
New Town	28.0	55.0	0.0	56.0			
All	43.0	48.3	3.1	62.4			

Data are percentage of HHs that use a particular common natural resource and overall the percentage of households that uses any common natural resource.

Human Assets

Table 11. Household Demographics and Education, by Community

Human Asset Akwidaa Beach Peach Dixcove Peach	-			Comm	unity		
HH size (Actual) Mean 6.47 5.87 5.98 5.83 6.03 HH size (Actual) St.dev. 3.85 4.42 4.50 3.37 4.10 Median 6.00 5.00 5.00 5.00 5.00 Median 2.66 2.55 2.54 2.29 2.51 HH size (EAAs) Median 2.00 2.00 2.00 2.00 HH size (AEUs) St.dev. 1.81 2.10 1.95 1.35 1.84 HH size (AEUs) St.dev. 2.71 3.20 3.20 2.39 2.93 Median 4.10 3.60 3.60 3.60 3.60 HH non resident Median 4.10 3.60 3.60 3.60 Median 4.10 3.60 3.60 3.60 3.60 Median 0.00 0.00 0.00 0.00 0.00 Median 4.10 5.178 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 HH Head is Female Mean 0.39 0.44 0.38 0.41 0.40 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 Median 0.00 0.00 0.00 0.00 0.00 Max Education of any HH Member (Years) Median 9.00 10.00 9.00 9.00 9.00 Education of HH - all Mean 4.65 5.61 5.40 5.07 5.21 resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 Cyears Median 0.37 0.40 0.32 0.38 0.36 Literacy of HH - share 6.1 8.1 6.35 0.37 0.35 0.35 0.36 Columbia Mean 0.37 0.40 0.32 0.38 0.36 Literacy of HH - share 6.1 8.1 6.35 0.37 0.35 0.36 Columbia Col	TT A A		Akwidaa	Anlo	Dixcove	New Town	
HH size (Actual) St.dev. 3.85 4.42 4.50 3.37 4.10 Median 6.00 5.00 5.00 5.00 5.00 Mean 2.66 2.55 2.54 2.29 2.51 HH size (EAAs) St.dev. Median 2.00 2.00 2.00 2.00 2.00 Mean 4.71 4.33 4.27 4.15 4.36 HH size (AEUs) St.dev. 2.71 3.20 3.20 2.39 2.93 Median 4.10 3.60 3.60 3.60 3.60 HH non resident St.dev. Median 0.43 0.83 0.23 0.15 0.38 HH non resident St.dev. Median 0.00 0.00 0.00 0.00 0.00 Mean 51.78 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 HH Head is Female St.dev. Median 0.39 0.44 0.38 0.41 0.40 HH Head is Female St.dev. Median 0.00 0.00 0.00 0.00 0.00 Max Education of any HH Member (Years) Mean 9.15 9.77 8.82 9.42 9.23 St.dev. Median 9.00 10.00 9.00 9.00 9.00 Education of HH - all Mean 4.65 5.61 5.40 5.07 5.21 resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Median 0.37 0.40 0.32 0.38 0.36 Mean St.dev. 0.35 0.37 0.37 0.37 0.36 Mean St.dev. 0.35 0.37 0.37 0.37 0.36 Mean St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Median 4.73 5.87 5.00 4.94 5.00 Mean St.dev. 0.35 0.37 0.37 0.37 0.37 0.36 (Years) Mean 0.37 0.40 0.32 0.38 0.36 Mean St.dev. 0.35 0.37 0.37 0.37 0.37 0.36 Mean 0.37 0.40 0.32 0.38 0.36 Mean 0.37 0.40 0.32 0.38 0.36 Mean St.dev. 0.35 0.37 0.37 0.37 0.37 0.37 0.37 Mean 0.37 0.40 0.32 0.38 0.36 Mean 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 Mean 0.37 0.37 0.37 0.37 0.37 0.37 0.37 Mean 0.37 0.37 0.37 0.37 0.37 0.37 0.37 Mean 0.37 0.37 0.37 0.37 0.37 0.37 Mean 0.37 0.37 0.37 0.37 0.37	Human Asset			Beach			All
HH size (Actual) St.dev. Median 6.00 5.00 5.00 5.00 5.00 5.00 Mean 2.66 2.55 2.54 2.29 2.51 HH size (EAAs) St.dev. 1.81 2.10 1.95 1.35 1.84 Median 2.00 2.00 2.00 2.00 2.00 2.00 Hean 4.71 4.33 4.27 4.15 4.36 HH size (AEUs) St.dev. 2.71 3.20 3.20 2.39 2.93 Median 4.10 3.60 3.60 3.60 3.60 Mean 0.43 0.83 0.23 0.15 0.38 HH non resident St.dev. 1.07 1.94 0.78 0.61 1.18 Median 0.00 0.00 0.00 0.00 0.00 Mean 51.78 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 HH Member (Years) Median 9.00 10.00 9.00 9.00 9.00 Education of HH - all Mean 4.65 5.61 5.40 5.07 5.21 Literacy of HH - share of all resident EAAs St.dev. 0.35 0.37 0.37 0.36 St.dev. 0.35 0.37 0.37 0.36 0.36 St.dev. 0.35 0.37 0.37 0.36 0.36 St.dev. 0.35 0.37 0.37 0.37 0.36 Mean 0.37 0.40 0.32 0.38 0.36 St.dev. 0.35 0.37 0.37 0.37 0.36 Contact Contac		N	100	94	153	100	447
Median M		Mean	6.47	5.87	5.98	5.83	6.03
HH size (EAAs)	HH size (Actual)	St.dev.	3.85	4.42	4.50	3.37	4.10
HH size (EAAs)		Median	6.00	5.00	5.00	5.00	5.00
Median 2.00		Mean	2.66	2.55	2.54	2.29	2.51
Mean 4.71 4.33 4.27 4.15 4.36 HH size (AEUs) St.dev. 2.71 3.20 3.20 2.39 2.93 Median 4.10 3.60 3.60 3.60 3.60 Mean 0.43 0.83 0.23 0.15 0.38 HH non resident St.dev. 1.07 1.94 0.78 0.61 1.18 Median 0.00 0.00 0.00 0.00 0.00 Mean 51.78 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 Median 0.00 0.00 0.00 0.00 0.00 Max Education of any HH Member (Years) Mean 9.15 9.77 8.82 9.42 9.23 St.dev. 3.98 4.20 4.48 3.92 4.19 HH Member (Years) Median 9.00 10.00 9.00 9.00 9.00 Education of HH - all Mean 4.65 5.61 5.40 5.07 5.21 resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Mean 0.37 0.40 0.32 0.38 0.36 Literacy of HH - share of all resident EAAs St.dev. 0.35 0.37 0.37 0.37 0.36 St.dev. 0.35 0.37 0.37 0.37 0.36 One of all resident EAAs St.dev. 0.35 0.37 0.37 0.37 0.36 Contact	HH size (EAAs)	St.dev.	1.81	2.10	1.95	1.35	1.84
HH size (AEUs) St.dev. 2.71 3.20 3.20 2.39 2.93 Median 4.10 3.60 3.60 3.60 3.60 3.60 HH non resident Mean 0.43 0.83 0.23 0.15 0.38 HH non resident St.dev. 1.07 1.94 0.78 0.61 1.18 Median 0.00 0.00 0.00 0.00 0.00 0.00 Age of HH Head Mean 51.78 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 Max Education of any HH Median Mean 9.15 9.77 8.82 9.42 9.23 St.dev. 3.98 4.20 4.48 3.92 4.19 Heilan Education of HH – all		Median	2.00	2.00	2.00	2.00	2.00
Median 4.10 3.60 3.60 3.60 3.60 HH non resident Mean 0.43 0.83 0.23 0.15 0.38 HH non resident St.dev. 1.07 1.94 0.78 0.61 1.18 Median 0.00 0.00 0.00 0.00 0.00 0.00 Median 51.78 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.40 Mean 9.39 0.44 0.38 0.41 0.40 0.40 Median 0.00		Mean	4.71	4.33	4.27	4.15	4.36
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	HH size (AEUs)	St.dev.	2.71	3.20	3.20	2.39	2.93
HH non resident St.dev. 1.07 1.94 0.78 0.61 1.18 Median 0.00 0.00 0.00 0.00 Mean 51.78 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 HH Head is Female Mean 0.39 0.44 0.38 0.41 0.40 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 Median 0.00 0.00 0.00 0.00 0.00 Max Education of any HH Member (Years) Mean 9.15 9.77 8.82 9.42 9.23 St.dev. 3.98 4.20 4.48 3.92 4.19 Median 9.00 10.00 9.00 9.00 9.00 Education of HH - all resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Median 4.73 5.87 5.00 4.94 5.00 Literacy of HH - share of all resident EAAs St.dev. 0.35 0.37 0.37 0.37 0.36 St.dev. 0.35 0.37 0.37 0.37 0.37 0.36 St.dev. 0.35 0.37 0.37 0.37 0.37 0.36 Comparison of the comparison		Median	4.10	3.60	3.60	3.60	3.60
Median 0.00 0.00 0.00 0.00 0.00 Mean 51.78 52.09 46.75 44.83 48.55 Age of HH Head St.dev. 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 Mean 0.39 0.44 0.38 0.41 0.40 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 Median 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Max Education of any HH Member (Years) Median 9.15 9.77 8.82 9.42 9.23 St.dev. 3.98 4.20 4.48 3.92 4.19 Median 9.00 10.00 9.00 9.00 9.00 Education of HH – all resident EAAs Mean 4.65 5.61 5.40 5.07 5.21 Tesident EAAs Median 4.73 5.87 5.00 <td></td> <td>Mean</td> <td>0.43</td> <td>0.83</td> <td>0.23</td> <td>0.15</td> <td>0.38</td>		Mean	0.43	0.83	0.23	0.15	0.38
Age of HH Head Mean 51.78 52.09 46.75 44.83 48.55 Median 16.76 14.65 18.35 18.02 17.42 Median 46.50 50.00 42.00 40.50 45.00 Mean 0.39 0.44 0.38 0.41 0.40 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 Median 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Max Education of any HH Member (Years) Median 9.15 9.77 8.82 9.42 9.23 St.dev. 3.98 4.20 4.48 3.92 4.19 Median 9.00 10.00 9.00 9.00 9.00 Education of HH – all resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Median 4.73 5.87 5.00 4.94 5.00 Literacy of HH – share of all resident EAAs <	HH non resident	St.dev.	1.07	1.94	0.78	0.61	1.18
Age of HH Head $St.dev.$ Median 16.76 46.50 14.65 50.00 18.35 42.00 18.02 40.50 17.42 45.00HH Head is FemaleMean St.dev. Median 0.39 0.49 0.49 0.49 0.50 0.00 0.00 0.49 0.49 0.49 0.00		Median	0.00	0.00	0.00	0.00	0.00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Mean	51.78	52.09	46.75	44.83	48.55
HH Head is Female Mean 0.39 0.44 0.38 0.41 0.40 HH Head is Female St.dev. 0.49 0.50 0.49 0.49 0.49 Median 0.00 0.00 0.00 0.00 0.00 0.00 Max Education of any HH Member (Years) Mean 9.15 9.77 8.82 9.42 9.23 St.dev. 3.98 4.20 4.48 3.92 4.19 Median 9.00 10.00 9.00 9.00 9.00 Education of HH – all resident EAAs Mean 4.65 5.61 5.40 5.07 5.21 resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Median 4.73 5.87 5.00 4.94 5.00 Literacy of HH – share of all resident EAAs St.dev. 0.35 0.37 0.37 0.37 0.37 0.37 0.36	Age of HH Head	St.dev.	16.76	14.65	18.35	18.02	17.42
HH Head is Female $St.dev.$ 0.49 0.50 0.49 0.00		Median	46.50	50.00	42.00	40.50	45.00
		Mean	0.39	0.44	0.38	0.41	0.40
Max Education of any HH Member (Years) Mean $St.dev$. 3.98 4.20 4.48 3.92 4.19 4.19 4.19 1.00	HH Head is Female	St.dev.	0.49	0.50	0.49	0.49	0.49
Max Education of any HH Member (Years) St.dev. Median 3.98 9.00 4.20 10.00 4.48 3.92 9.00 4.19 9.00 Education of HH – all resident EAAs Mean 5.00 5.61 5.40 5.07 5.21 5.21 3.73 3.70 3.68 (Years) Median 4.73 5.87 5.00 4.94 5.00 5.00 4.94 5.00 Literacy of HH – share of all resident EAAs Mean 5.037 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37		Median	0.00	0.00	0.00	0.00	0.00
HH Member (Years) St.dev. 3.98 4.20 4.48 3.92 4.19 Median 9.00 10.00 9.00 9.00 9.00 Education of HH – all Mean 4.65 5.61 5.40 5.07 5.21 resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Median 4.73 5.87 5.00 4.94 5.00 Literacy of HH – share of all resident EAAs St.dev. 0.35 0.37 0.37 0.37 0.36	May Education of any	Mean	9.15		8.82	9.42	
Education of HH – all resident EAAs Median 4.65 5.61 5.40 5.07 5.21 Years) Median 4.65 3.54 3.71 3.73 3.70 3.68 Years) Median 4.73 5.87 5.00 4.94 5.00 Literacy of HH – share of all resident EAAs Mean 0.37 0.40 0.32 0.38 0.36 St.dev. 0.35 0.37 0.37 0.37 0.37 0.36	•	St.dev.	3.98	4.20	4.48	3.92	4.19
resident EAAs St.dev. 3.54 3.71 3.73 3.70 3.68 (Years) Median 4.73 5.87 5.00 4.94 5.00 Literacy of HH – share of all resident EAAs St.dev. 0.35 0.37 0.37 0.37 0.36	HH Welliber (Tears)	Median	9.00	10.00	9.00	9.00	9.00
(Years) Median 4.73 5.87 5.00 4.94 5.00 Literacy of HH - share of all resident EAAs Mean St.dev. 0.37 0.40 0.32 0.38 0.36 0.35 0.37 0.37 0.37 0.37 0.36	Education of HH – all	Mean	4.65	5.61	5.40	5.07	5.21
Literacy of HH – share of all resident EAAs $\frac{Mean}{St.dev}$ $\frac{0.37}{0.35}$ $\frac{0.40}{0.37}$ $\frac{0.32}{0.37}$ $\frac{0.38}{0.37}$ $\frac{0.36}{0.37}$	resident EAAs	St.dev.	3.54	3.71	3.73	3.70	3.68
of all resident EAAs St.dev. 0.35 0.37 0.37 0.37 0.36	(Years)	Median	4.73	5.87	5.00	4.94	5.00
of all recident EAAs St.dev. 0.33 0.37 0.37 0.37 0.30	Literacy of UU share	Mean	0.37	0.40	0.32	0.38	0.36
Median 0.47 0.40 0.20 0.33 0.33	•	St.dev.	0.35	0.37	0.37	0.37	0.36
	or an resident EAAs	Median	0.47	0.40	0.20	0.33	0.33
HH with migrants 17.0% 26.6% 9.8% 6.0% 14.1%	HH with migrants		17.0%	26.6%	9.8%	6.0%	14.1%

HH Size (Actual): Total no. of adults & children in HH

EAAs (Economically Active Adults): those aged 15-60 inclusive, except those in education

AEUs (Adult Equivalent Units on basis of consumption): male 15 years or older=1; female 15 years or older=0.8; male or female 14 years or under=0.5

Female HH Head: HHs where a) female entered on survey form as HHH (but excluding cases where there is a resident husband listed as well); b) female entered as 'Wife', but no resident husband; c) nobody entered as HHH, no husband listed. Age & education of HH head: in de facto female headed households, these data relate to the absent (male) head

Table 12. Household Education Level, by Income Tercile, by Community

		D			
Community		Per o	capita income ter		
Community		I	II	III	All
	N	31	31	31	100
Akwidaa	Mean	3.96	4.95	4.35	4.65
Akwidaa	St.dev.	3.34	3.47	3.84	3.54
	Median	3.50	5.67	4.71	4.73
	N	25	25	26	94
Anla Dasah	Mean	4.46	5.46	6.20	5.61
Anlo Beach	St.dev.	3.19	3.54	4.14	3.71
	Median	5.00	5.00	6.54	5.87
	N	47	44	46	153
Dixcove	Mean	5.38	4.80	5.83	5.40
Dixcove	St.dev.	3.98	3.57	3.52	3.73
	Median	5.00	4.50	5.80	5.00
	N	33	30	32	100
Nass Tarre	Mean	4.49	5.92	5.17	5.07
New Town	St.dev.	3.42	3.06	4.52	3.70
	Median	5.20	6.17	4.00	4.94
	N	136	132	134	447
A 11	Mean	4.70	5.15	5.43	5.21
All	St.dev.	3.59	3.43	3.95	3.68
	Median	5.00	5.00	5.17	5.00

Household education: Mean years in education for all resident EAAs.

Table 13. Education Level Reached, by Gender and Community

		Genaei	r of reside	ent HH men	nber	Al	1
Education Le	vel	Mal	e	Fema	ıle	Al	1
		count	%	count	%	count	%
]	None	79	40.3	141	53.2	220	47.7
]	Primary school	45	23.0	64	24.2	109	23.6
Akwidaa	Junior secondary school	53	27.0	48	18.1	101	21.9
Akwidaa	Senior secondary school	15	7.7	9	3.4	24	5.2
,	Vocational training	3	1.5	3	1.1	6	1.3
	University degree	1	0.5	0	0.0	1	0.2
]	None	46	26.9	117	54.2	163	42.1
J	Primary school	39	22.8	42	19.4	81	20.9
Anlo Beach	Junior secondary school	64	37.4	43	19.9	107	27.6
Allio Beach	Senior secondary school	16	9.4	13	6.0	29	7.5
٦	Vocational training	3	1.8	1	0.5	4	1.0
	University degree	3	1.8	0	0.0	3	0.8
]	None	131	47.1	172	51.2	303	49.3
]	Primary school	59	21.2	72	21.4	131	21.3
Dixcove	Junior secondary school	64	23.0	60	17.9	124	20.2
Dixcove	Senior secondary school	22	7.9	26	7.7	48	7.8
,	Vocational training	0	0.0	4	1.2	4	0.7
	University degree	2	0.7	2	0.6	4	0.7
]	None	62	37.8	131	56.7	193	48.9
]	Primary school	29	17.7	48	20.8	77	19.5
New Town	Junior secondary school	44	26.8	33	14.3	77	19.5
New Town	Senior secondary school	25	15.2	19	8.2	44	11.1
,	Vocational training	2	1.2	0	0.0	2	0.5
٦	University degree	2	1.2	0	0.0	2	0.5
]	None	318	39.3	561	53.5	879	47.3
J	Primary school	172	21.3	226	21.6	398	21.4
All	Junior secondary school	225	27.8	184	17.6	409	22.0
All	Senior secondary school	78	9.6	67	6.4	145	7.8
,	Vocational training	8	1.0	8	0.8	16	0.9
1	University degree	8	1.0	2	0.2	10	0.5

Data are counts and percentages of resident EAAs

Table 14. Reasons for Migration, by Community

9	, .	•				
Community						
Reasons for Migration	Akwidaa	Anlo Beach	Dixcove	New Town	All	
·	Count	Count	Count	Count	Count	
Employment	31	40	15	10	96	
Studies / learn a trade	16	14	15	5	50	
Marriage	7	5	0	1	13	
Other	4	13	4	1	22	

Data are a count of reasons for migration. The category "Other" includes among others fishing, pasture land, accommodation, health reasons, social visit, and electricity.

Table 15. Health in the HH by Income Tercile, by Community

			Per	capita inc	come	
Community	Health related issues			tercile		
		N	I	II	III	All
	N per tercile		31	31	31	100
	Occurrence of disease in HH (share)	100	0.18	0.16	0.26	0.20
Akwidaa	Occurrence of death in HH	100	0.65	0.65	0.55	0.58
Akwiuaa	Occurrence of death of child below 15 years	100	0.03	0.03	0.00	0.02
	Use of NHIS (share)	48	0.17	0.38	0.43	0.32
	Mean no. of days stopped work for disease	38	56.08	74.42	29.75	54.33
	N per tercile		25	25	26	94
	Occurrence of disease in HH (share)	94	0.18	0.29	0.23	0.22
Anlo Beach	Occurrence of death in HH	94	0.20	0.36	0.35	0.34
Amo beach	Occurrence of death of child below 15 years	94	0.00	0.00	0.00	0.00
	Use of NHIS (share)	47	0.38	0.27	0.30	0.33
	Mean no. of days stopped work for disease	39	41.03	124.25	173.31	88.74
	N per tercile		47	44	46	153
	Occurrence of disease in HH (share)		0.20	0.23	0.23	0.22
Dixcove	Occurrence of death in HH		0.49	0.45	0.22	0.41
Dixcove	Occurrence of death of child below 15 years	153	0.04	0.07	0.02	0.04
	Use of NHIS (share)	74	0.31	0.30	0.59	0.40
	Mean no. of days stopped work for disease	65	44.86	43.94	27.87	44.36
	N per tercile		33	30	32	100
	Occurrence of disease in HH (share)	100	0.23	0.22	0.28	0.25
New Town	Occurrence of death in HH	100	0.42	0.47	0.34	0.42
New Town	Occurrence of death of child below 15 years	100	0.06	0.10	0.00	0.06
	Use of NHIS (share)	54	0.42	0.38	0.53	0.45
	Mean no. of days stopped work for disease	49	35.04	55.51	27.83	39.88
	N per tercile		136	132	134	447
	Occurrence of disease in HH (share)	447	0.20	0.24	0.24	0.22
All	Occurrence of death in HH	447	0.49	0.46	0.34	0.43
All	Occurrence of death of child below 15 years	447	0.04	0.05	0.01	0.03
	Use of NHIS (share)	223	0.34	0.33	0.47	0.38
	Mean no. of days stopped work for disease	191	43.62	68.98	50.88	54.26
Occurrence of di	sease in HH is the average of the share of HH members th					

Occurrence of disease in HH is the average of the share of HH members that have experienced an illness or injury in the last 12 months.

Mean number of days stopped work is the HH mean for those HH members that have fallen sick or were injured only.

Occurrence of death is the percentage of households that have experienced a death in the family in the last 5 years Use of National Health Insurance Scheme (NHIS) is the HH mean for those that have fallen sick only

Table 16. Five Most Common Diseases, Across Households

		Per cap	ita incom	e tercile	
Community	Illness/ injury	I	II	III	All
_	_	%	%	%	%
	N per tercile	31	31	31	100
	Malaria, fever	12.9	16.1	25.8	18.0
	Stomach ache	3.2	6.5	6.5	6.0
Akwidaa	Head ache	6.5	0.0	9.7	5.0
	Pain/swelling in body/limbs	3.2	3.2	3.2	4.0
	Waist pain	9.7	0.0	9.7	6.0
	Other illness / injury	38.7	29.0	19.4	30.0
	N per tercile	25	25	26	94
	Malaria, fever	12.0	24.0	34.6	22.3
	Stomach ache	8.0	4.0	0.0	5.3
Anlo Beach	Head ache	0.0	12.0	7.7	6.4
	Pain/swelling in body/limbs	0.0	0.0	3.8	1.1
	Waist pain	12.0	0.0	3.8	4.3
	Other illness / injury	24.0	36.0	30.8	33.0
	N per tercile	47	44	46	153
	Malaria, fever	12.8	25.0	26.1	22.2
	Stomach ache	17.0	15.9	6.5	11.8
Dixcove	Head ache	8.5	0.0	8.7	5.9
	Pain/swelling in body/limbs	2.1	4.5	4.3	4.6
	Waist pain	0.0	0.0	2.2	0.7
	Other illness / injury	21.3	20.5	26.1	22.9
	N per tercile	33	30	32	100
	Malaria, fever	6.1	30.0	12.5	17.0
	Stomach ache	12.1	10.0	9.4	11.0
New Town	Head ache	3.0	20.0	0.0	7.0
	Pain/swelling in body/limbs	12.1	3.3	6.3	7.0
	Waist pain	3.0	6.7	0.0	3.0
	Other illness / injury	27.3	33.3	34.4	32.0
	N per tercile				
	Malaria, fever	11.8	22.7	24.6	20.1
	Stomach ache	11.0	9.8	6.0	8.9
All	Head ache	4.4	7.6	6.7	6.0
	Pain/swelling in body/limbs	5.1	3.0	3.7	4.3
	Waist pain	5.1	1.5	3.7	3.1
	Other illness / injury	30.1	25.6	27.6	28.6

The value is the share of households that has had a reported occurrence of this illness in the HH in the last 12 months.

Table 17. Selected Domestic Assets, by Community and Total

		Comn	nunity		
A ===4	Akwidaa	Anlo	Dixcove	New Town	
Asset		Beach			All
	%	%	%	%	%
Secure rights on homestead land	87.0	90.3	69.1	80.8	80.2
Brick / concrete floor	86.0	89.4	95.4	81.0	88.8
Brick / concrete walls	70.0	80.9	95.4	42.0	74.7
Drinking water from private well/tap	0.0	12.8	22.9	12.0	13.2
Electricity main source of lighting	1.0	63.4	83.0	88.0	61.7
Toilet available with house	33.0	23.4	19.6	25.0	24.6
Owns wax cloth	80.0	69.1	84.3	76.0	78.3
Owns table	74.0	86.2	75.8	80.0	78.5
Owns radio/ tape recorder	50.0	51.1	58.2	46.0	52.1
Owns television	6.0	33.0	59.5	35.0	36.5
Owns smoking oven	22.0	31.9	36.6	37.0	32.4

Data are community-level percentages of sample households with each asset

Social Assets

Table 18. Types of Organizations, % of HH Members by Community

Community					
Organization	Akwidaa	Anlo Beach	Dixcove	New Town	All
	%	%	%	%	%
N	96	84	121	83	384
Member of a group	96.0	89.4	79.1	83.0	85.9
Vocational group	4.0	1.1	3.3	4.0	3.1
Council / political group	1.0	7.4	1.3	0.0	2.2
Religious group	89.0	40.4	75.2	79.0	71.8
Community group	9.0	56.4	4.6	4.0	16.3
Other type of group	1.0	1.1	2.0	0.0	1.1

Data are community-level percentages of sample households that are a member of each group. Vocational group is a grouping of Fishermen's group, Fish processing group, Drivers union, Farmers group, and Business group. The category 'Other type of group' includes Women's group and Financial institute / micro-finance.

Financial Assets

Table 19. Loans and Savings, by Community

17 1			Comm	unity		
Financial		Akwidaa	Anlo Beach	Dixcove	New Town	All
assets	N	100	94	153	100	447
Loans	%	22.0	23.4	37.3	23.0	27.7
	N	20	13	51	14	98
Mean value of	Mean	439.60	474.62	1139.31	246.50	780.80
loans	St.dev.	482.30	300.54	4329.45	270.36	3142.26
	Median	240	500	400	150	335
Savings	%	6.0	17.0	26.8	10.0	16.3
	N	6	14	41	10	71
Mean value of	Mean	766.67	1329.50	1954.15	2040.00	1742.72
savings	St.dev.	760.70	1276.15	2006.32	1517.45	1759.16
-	Median	500	1000	1400	1650	1000

Loans and Savings are community-level percentages of sample households that have each type of financial asset. Mean value of loans and savings is the mean value of the loans / savings of those that have this asset.

Vulnerability

Table 20. Most Common Shocks, % of HH by Community

		Comm	unity		
Most Common Shocks	Akwidaa	Anlo Beach	Dixcove	New Town	All
	%	%	%	%	%
Increase in food prices	75.0	48.9	83.0	83.0	74.0
Increase in input prices	66.0	35.1	62.7	64.0	57.9
Flooding	47.0	67.0	54.9	40.0	52.3
Other issues than green-green & adverse weather affecting fish availability	45.0	43.6	58.8	58.0	52.3
Destruction of housing	58.0	55.3	33.3	47.0	46.5
Drought	53.0	24.5	47.7	47.0	43.8
Adverse weather affecting fish availability	26.0	36.2	46.4	50.0	40.5
Pests or diseases that affected almost all crops before harvest	61.0	22.3	19.0	37.0	33.1
Green-green affecting fish catch	10.0	9.6	34.0	53.0	27.7
Experienced no shocks	1.0	7.4	2.0	0.0	2.5

Data are community-level percentages of sample households that have experienced each shock. Values indicated in red are the three highest for each community.

Table 21. Most Severe Shocks, % of HH, by Community

		Commi	ınity		
Mana Cara and Charal an	Akwidaa	Anlo Beach	Dixcov	New Town	
Most Severe Shocks			e		All
	%	%	%	%	%
Increase in food prices	28.0	14.9	47.1	53.0	37.4
Flooding	22.0	58.5	22.9	8.0	26.8
Destruction of housing	39.0	31.9	17.6	23.0	26.6
Other issues than green-green & adverse weather affecting fish availability	22.0	20.2	22.9	29.0	23.5
Death of adult members	27.0	16.0	16.3	20.0	19.5
Job loss by household member	20.0	6.4	20.3	25.0	18.3
Pests or diseases that affected almost all crops before harvest	22.0	5.3	2.0	7.0	8.3
Occurrence of green-green affecting fish catch	0.0	0.0	7.8	23.0	7.8

Data are community-level percentages of sample households that have experienced each shock and have indicated them among the three most severe shocks. Values indicated in red are the three highest for each community.

Table 22. Mean Loss from Adverse Events, by Community

	Community									
Chaoles	Akwidaa		A	nlo	Dix	Dixcove		New Town		
Shocks	Beach								A	A 11
	N	Cedi	N	Cedi	N	Cedi	N	Cedi	N	Cedi
Increase in food prices	28	189	11	93	68	461	51	1006	158	563
Flooding	21	527	50	1068	31	601	8	1191	110	842
Destruction of housing	39	1033	29	1203	26	1377	22	440	116	1040
Other issues affecting fish catch	18	417	16	326	34	343	28	208	96	314
Death of adult members	27	1907	13	1969	23	1068	20	5223	83	2483
Job loss by HH member	20	564	4	1500	30	2742	25	1162	79	1628
Pests or diseases (crops)	22	631	5	2190	3	369	7	1586	37	1001
Occurrence of green-green	0	N/A	0	N/A	12	5750	22	446	34	2318

Data are community-level percentages of sample households that have experienced each shock. Three highest mean losses for each community marked in red.

Table 23. Five Most Common Shocks, by Income Tercile by Community

			apita inco	ome	
Shocks			tercile		
SHOCKS		I	II	III	All
		%	%	%	%
	Increase in food prices	60.0	87.1	80.6	75.8
	Increase in input prices	63.3	64.5	71.0	66.7
Akwidaa	Pests or diseases that affected crops before harvest	66.7	67.7	45.2	60.6
	Destruction of housing	56.7	58.1	58.1	58.6
	Flooding	33.3	51.6	61.3	47.5
	Flooding	65.2	81.0	80.0	72.1
	Destruction of housing	47.8	61.9	68.0	59.3
Anlo	Increase in food prices	26.1	61.9	64.0	52.3
Beach	Other issues than green-green & adverse weather				
	affecting fish availability	17.4	52.4	56.0	46.5
	Adverse weather affecting fish availability	8.7	38.1	56.0	39.5
	Increase in food prices	91.1	84.1	82.2	84.0
	Increase in input prices	53.3	61.4	77.8	63.3
Dixcove	Other issues than green-green & adverse weather				
Dixcove	affecting fish availability	46.7	54.5	77.8	59.3
	Flooding	66.7	52.3	48.9	56.0
	Adverse weather affecting fish availability	37.8	45.5	62.2	47.3
	Increase in food prices	75.8	80.0	93.8	83.0
	Increase in input prices	51.5	56.7	81.3	64.0
New	Other issues than green-green & adverse weather				
Town	affecting fish availability	54.5	46.7	71.9	58.0
	Occurrence of green-green affecting fish catch	57.6	43.3	56.3	53.0
	Adverse weather affecting fish availability	51.5	33.3	62.5	50.0
	Increase in food prices	68.2	83.5	78.8	75.6
	Increase in input prices	50.0	56.7	70.5	59.3
A 11	Flooding	49.2	55.1	57.6	53.6
All	Other issues than green-green & adverse weather				
	affecting fish availability	40.2	49.6	68.2	53.3
	Destruction of housing	50.0	55.1	37.1	47.6

Data are community-level percentages of sample households that have experienced each shock. Values marked in red have the highest occurrence among this sub-group.

Table 24. Coping Mechanisms, by Community

		Comm	unity		
Coping Mechanisms	Akwidaa	Anlo Beach	Dixcove	New Town	All
	Count	Count	Count	Count	Count
Work harder	73	46	114	75	308
Reduced consumption	34	18	31	28	111
Borrow from relative	26	13	27	18	84
Did nothing	17	15	33	13	78
Use savings	14	8	34	15	71
Borrow from moneylender	21	3	19	15	58
Borrow from non-relatives	9	11	13	10	43

Data are number of sample households that have used each coping mechanism. Values in red are those used most frequently in each sub-group (top 3).

Table 25. Five Most Common Coping Mechanisms, by Income Tercile by Community

		Per ca	pita income t	ercile	
	Coping Mechanisms	I	II	III	All
	_	%	%	%	%
	Work harder	50.0	77.4	90.3	73.7
	Reduced consumption	26.7	29.0	48.4	34.3
Akwidaa	Borrow from relative	20.0	16.1	45.2	26.3
	Borrow from moneylender	26.7	25.8	9.7	21.2
	Did nothing	16.7	25.8	12.9	17.2
	Work harder	52.2	33.3	56.0	53.5
	Reduced consumption	4.3	4.8	44.0	20.9
Anlo Beach	Did nothing	17.4	23.8	20.0	17.4
	Borrow from relative	21.7	9.5	16.0	15.1
	Borrow from non-relatives	13.0	9.5	12.0	12.8
	Work harder	82.2	61.4	84.4	76.0
	Use savings	20.0	25.0	20.0	22.7
Dixcove	Did nothing	37.8	18.2	11.1	22.0
	Reduced consumption	17.8	15.9	31.1	20.7
	Borrow from relative	11.1	11.4	31.1	18.0
	Work harder	60.6	70.0	90.6	75.0
	Reduced consumption	12.1	16.7	56.3	28.0
New Town	Borrow from relative	21.2	0.0	31.3	18.0
	Use savings	0.0	16.7	31.3	15.0
	Borrow from moneylender	30.3	10.0	3.1	15.0
	Work harder	63.6	64.6	81.1	70.8
	Reduced consumption	15.9	18.9	42.4	25.5
All	Borrow from relative	16.7	11.0	31.1	19.3
	Did nothing	22.0	23.6	11.4	17.9
	Use savings	6.1	20.5	19.7	16.3

Data are community-level percentages of sample households that have experienced each shock. Values in red are those used most frequently in each sub-group (top 3).

Nutrition

Table 26. Food Consumption and Shortage, by Community

_			Comn	nunity		
TT A 4		Akwida	Anlo	Dixcov	New	
Human Asset		a	Beach	e	Town	All
	N	100	94	153	100	447
	Mean	2.56	2.66	2.77	2.69	2.68
Mean number of meals per day	St.dev.	0.52	0.48	0.47	0.58	0.51
1 3	Median	3.00	3.00	3.00	3.00	3.00
	Mean	0.34	0.62	0.73	0.37	0.54
Mean number of snacks per day	St.dev.	0.68	0.91	1.00	0.80	0.89
1	Median	0.00	0.00	0.00	0.00	0.00
M 1 C 1 '/1 C' 1 '	Mean	15.27	14.71	15.42	14.75	15.09
Mean number of meals with fish in	St.dev.	4.01	4.01	4.67	5.08	4.50
last 7 days	Median	14.00	14.00	14.00	14.00	14.00
Management 1 24 ct	Mean	0.47	0.92	0.39	0.66	0.58
Mean number of meals with meat in	St.dev.	1.74	1.47	1.54	1.86	1.66
last 7 days	Median	0.00	0.00	0.00	0.00	0.00
N 1 C 1 '4	Mean	0.61	0.93	0.62	0.77	0.71
Mean number of meals with	St.dev.	1.98	1.64	2.28	2.12	2.06
chicken/poultry in last 7 days	Median	0.00	0.00	0.00	0.00	0.00
N. 1 C 1 '4	Mean	1.49	2.48	2.72	2.89	2.43
Mean number of meals without	St.dev.	2.74	3.24	3.32	4.48	3.51
animal proteins in last 7 days	Median	0.00	0.00	0.00	0.00	0.00
Mean number of days HH had	Mean	3.03	1.95	2.60	5.14	3.14
insufficient food in last 30 days	St.dev.	5.38	4.98	4.60	4.96	5.06
because could not afford it	Median	0.00	0.00	0.00	4.00	0.00
HHs that had insufficient food in last year because could not afford it	%	51.0	37.0	51.0	80.0	54.6
M	N	51	34	78	80	243
Mean frequency HH had insufficient	Mean	1.57	1.53	1.33	1.48	1.46
food in last year because could not	St.dev.	0.94	0.99	0.80	0.86	0.88
afford it	Median	1.00	1.00	1.00	1.00	1.00
HHs that had adult skip meals in last year because could not afford to buy enough food	%	30.0	19.6	38.6	62.0	38.0
	N	30	18	59	62	169
Mean frequency of adult skipping	Mean	1.83	2.11	1.54	2.05	1.84
meals	St.dev.	1.02	0.83	0.84	0.88	0.91
	Median	1.00	2.00	1.00	2.00	2.00
HH that are unable to afford fish at certain times of year	%	58.0	34.8	47.7	79.0	54.4
Data are community-level averages						

Data are community-level averages

Mean frequency HH had insufficient food in last 30 days has a range between (with 1 least frequent and 4 most frequent) and is the mean for those that indicated they had insufficient food only

Mean frequency of skipping meals has a range between (with 1 least frequent and 4 most frequent) and is the mean for those that indicated they had insufficient food only

Table 27. Sources of Fish and Fish and Food Shortage, by Community

Community	Most common sources of fish (% of HH)	Most common times of the year households do not eat fish (% of HH)	Most common times of year with food shortage
Akwidaa	Bought from fisherman (43.0%) Caught by HH member (23.0%) Bought from fish monger (23.0%)	June (24.4%) July (22.2%) May (16.7%)	June (22.0%) July (19.0%) May (13.0%)
Anlo Beach	Bought from fisherman (52.1%) Caught by HH member (40.2%)	June (28.1%) July (22.8%) May (19.3%)	June (14.9%) July (11.7%) May (7.4%)
Dixcove	Caught by HH member (34.6%) Bought from fisherman (32.0%)	March (15.5%) June (15.5%) February (14.7%) July (12.9%)	March (11.1%) June (9.2%) July (8.5%) May (7.2%)
New Town	Bought from fisherman (41.4%) Bought from fish trader (24.2%)	April (34.7%) March (19.0%) May (12.9%)	April (50.0%) March (23.0%) May (21.0%)
All	Bought from fisherman (40.8%) Caught by HH member (29.5%)	June (15.9%) April (15.6%) May (14.1%) March (13.4%)	April (14.3%) June (14.1%) May (11.6%) July (11.0%)

Figure 1. Most Common Months of the Year HHs Do Not Eat Fish or Have Food Shortage, by Community

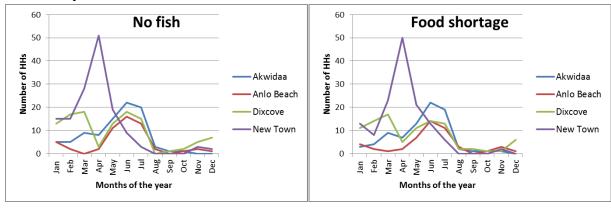


Table 28. Top 5 of Most Common Fish Species Consumed, by Community

Community										
Fish Species	Akw	idaa	Anlo 1	Beach	Dixe	cove	New '	Town	A	11
	7d	Year	7d	Year	7d	Year	7d	Year	7d	Year
Tunas	0.98	0.97	0.13	0.19	0.90	0.95	0.20	0.33	0.75	0.88
Sardines & related fish	0.11	0.35	0.34	0.38	0.13	0.39	0.38	0.71	0.24	0.46
Tilapias	0.00	0.00	0.39	0.40	0.00	0.00	0.52	0.49	0.20	0.20
Shrimp	0.02	0.02	0.56	0.65	0.01	0.04	0.00	0.06	0.13	0.17
Large hairtail	0.02	0.05	0.49	0.51	0.00	0.00	0.00	0.01	0.11	0.12
Cassava fish	0.02	0.07	0.30	0.27	0.03	0.04	0.05	0.06	0.09	0.10
Threadfin	0.08	0.10	0.00	0.00	0.07	0.10	0.17	0.21	0.08	0.10
Anchovy	0.02	0.04	0.22	0.24	0.01	0.01	0.07	0.27	0.07	0.12
Barracuda	0.10	0.17	0.04	0.02	0.01	0.06	0.13	0.17	0.06	0.10
Crabs	0.04	0.04	0.17	0.11	0.00	0.00	0.04	0.02	0.05	0.04
Swordfish/Sailfish	0.00	0.00	0.01	0.01	0.12	0.23	0.01	0.02	0.04	0.09
Grunts/Burritos	0.01	0.01	0.02	0.00	0.00	0.01	0.16	0.17	0.04	0.04
Mackerel	0.02	0.08	0.03	0.09	0.04	0.12	0.04	0.04	0.03	0.09
Sea breams	0.00	0.00	0.00	0.00	0.06	0.09	0.00	0.00	0.02	0.03

Data are shares of sample households that most commonly consume this type of fish in the last 7 days and throughout the year. Values in red are the top 5 of most commonly consumed species for each sub-group

Livelihoods activities

Primary and Secondary Occupations

Table 29. Primary and Secondary Occupations of HH Members, by Gender and Community (%)

	A	kwida	aa	An	lo Be	ach	I	Dixcov	ve	No	ew To	wn		All	
	M	F	Tot	M	F	Tot	M	F	Tot	M	F	Tot	M	F	Tot
Farming	28	36	33	25	12	18	6	7	6	14	11	12	17	16	17
Livestock rearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fishing	12	1	6	29	1	13	25	0	11	10	0	4	20	1	9
Fish trading	0	0	0	2	1	1	0	4	2	0	2	1	0	2	1
Fish processing	1	7	4	0	21	12	1	23	13	0	16	10	0	17	10
Formal employment	3	2	2	8	3	5	4	3	3	8	3	5	5	3	4
Casual employment	6	2	3	12	10	11	14	6	9	8	2	4	10	5	7
Small business/ petty trading	7	19	14	8	22	16	6	24	16	10	25	18	8	22	16
Other	9	3	5	3	2	3	6	3	4	4	2	3	6	3	4
Student	36	25	30	26	28	27	34	23	28	41	30	35	34	26	30
Unemployed	7	14	11	6	10	8	11	16	13	9	16	13	8	14	12
Underage	2	3	2	2	0	1	1	0	0	0	1	1	1	1	1
Retired	3	2	2	1	3	2	1	1	1	2	1	2	2	2	2
Disabled	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Data are the percentage of men and women that have indicated this as their primary or secondary occupation. This includes all resident adults, children and those going to school. Marked in red is top 3 by sub-group (excluding student, unemployed, retired, underage and disabled categories). Note that women make up 66% of the total sample.

Agriculture

Table 30. Land Ownership and Main Crops Grown, by Community

		Comm	unity		
Crops	Akwidaa	Anlo Beach	Dixcove	New Town	All
	%	%	%	%	%
Cassava	62.6	52.1	9.2	27.0	34.1
Oil palm	32.3	2.1	9.8	5.0	12.1
Maize	8.1	39.4	2.0	2.0	11.2
Coconut	7.1	5.3	1.3	15.0	6.5
Plantain	8.1	4.3	2.6	4.0	4.5
Pepper	14.1	0.0	1.3	0.0	3.6
Other crops	36.4	3.2	5.2	6.0	11.9
Left all land fallow	4.0	1.1	2.6	2.0	2.5
Not growing crops	15.2	39.4	79.7	60.0	52.5
Area size (ha)	1.25	0.51	0.29	0.45	0.76

Data shown are percentage of households that grow this type of crop. "Left all land fallow" indicates the percentage of households that normally do agriculture (and have land available) but have left the land fallow in the last 12 months. Values in red are the top 3 of most commonly grown crops for each sub-group. Percentages do not add up to 100% because households may grow more than one type of crop. Area size is the size of area owned calculated only for those households owning land.

Animal Products

Table 31. Producing Animal Products for Home Consumption or Sale

		Comn	nunity		_
Animal Products	Akwidaa	Anlo Beach	Dixcove	New Town	All
	%	%	%	%	%
Eggs	13.0	14.9	7.8	5.0	9.8
Meat	1.0	13.8	4.6	7.0	6.3
Selling animal products	3.0	2.1	5.9	0.0	3.1
Animal products used for home consumption (% of total product)	87.1(14)	89.0(20)	60.9(16)	89.9(9)	81.1(59)
No use of animal products	33.0	48.9	28.1	22.0	32.2
No livestock	53.0	27.7	60.8	69.0	53.9

Share of animal product used for home consumption is the mean for those households that have indicated they use livestock products (N). Percentages do not add up to 100% because some households use both eggs and meat.

Fishing

Table 32. Fishing Calendar, by Community

	A a4:-:4					M	onth o	f the ye	ar				
	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Fishing	1.76	1.85	1.34	1.22	0.98	0.84	1.14	2.50	2.49	2.02	1.93	1.98
Akwidaa	Fish processing	1.75	1.85	1.35	1.24	1.01	0.87	1.16	2.48	2.52	2.05	1.92	1.94
W16.	Casual labour	1.76 1.85 1.34 1.22 0.98 0.84 1.14 2.50 2.49 2 1.75 1.85 1.35 1.24 1.01 0.87 1.16 2.48 2.52 2 1.75 1.82 1.31 1.25 1.00 0.90 1.18 2.48 2.44 1 1.83 1.87 1.57 1.52 1.37 1.26 1.45 2.26 2.24 1 1.61 1.51 1.32 1.23 0.96 1.03 1.18 2.30 2.46 2 1.59 1.43 1.25 1.19 0.97 1.06 1.25 2.23 2.42 2 1.60 1.52 1.29 1.20 0.95 1.06 1.25 2.17 2.36 2 1.61 1.51 1.51 1.53 1.46 1.26 1.30 1.43 2.15 2.30 2.46 1.61 1.51 1.53 1.46 1.26 1.30 1.43 2.15 2.30 2.46 2 1.59 1.43 1.25 1.19 0.97 1.06 1.25 2.17 2.36 2 1.60 1.52 1.49 1.44 1.41 1.38 1.76 2.97 2.74 2 1.61 1.51 1.52 1.49 1.44 1.41 1.38 1.76 2.97 2.74 2 1.61 1.53 1.48 1.48 1.45 1.42 1.73 2.94 2.74 2 1.61 1.53 1.46 1.61 1.61 1.60 1.86 2.57 2.42 2 1.59 1.44 1.43 1.53 1.51 1.52 1.72 2.84 2.66 2 1.15 1.10 0.99 0.81 1.10 1.50 1.95 2.94 2.38 1 1.17 1.61 1.60 1.61 1.61 1.60 1.86 2.57 2.42 2 1.15 1.10 0.99 0.81 1.10 1.50 1.95 2.94 2.38 1 1.13 1.08 1.03 0.87 1.15 1.61 1.93 2.76 2.13 1 1.14 1.29 1.23 1.17 1.05 1.25 1.62 1.91 2.51 2.07 1 1.55 1.49 1.31 1.20 1.15 1.22 1.55 2.72 2.54 2 1.51 1.43 1.27 1.24 1.21 1.32 1.57 2.61 2.42 2 1.51 1.43 1.27 1.24 1.21 1.32 1.57 2.61 2.42 2 1.51 1.43 1.27 1.24 1.21 1.32 1.57 2.61 2.42 2 1.51 1.43 1.27 1.24 1.21 1.32 1.57 2.61 2.42 2	1.98	1.87	1.90								
Ak	Equipment making	2.08	1.99	2.33	2.44	2.56	2.49	2.37	1.54	1.48	1.85	1.90	1.84
	Average	1.83	1.87	1.57	1.52	1.37	1.26	1.45	2.26	2.24	1.98	1.93 1.92 1.93 1.92 1.87 1.90 1.88 1.90 1.66 1.90 1.90 1.87 1.90 1.87 1.77 1.88 1.97 1.41 1.88 1.61 1.90 1.90 1.87 1.77 1.88 1.61 1.90 1.90 1.87 1.88 1.61 1.90 1.90 1.87 1.88 1.61 1.90 1.88 1.91 1.91	1.92
	Fishing	1.61	1.51	1.32	1.23	0.96	1.03	1.18	2.30	2.46	2.46	2.48	2.41
0 4	Fish processing	1.60	1.52	1.29	1.20	0.95	1.06	1.25		2.42	2.42	2.49	2.43
Anlo	Casual labour	1.76 1.85 1.3 1.75 1.85 1.3 1.75 1.82 1.3 2.08 1.99 2.3 1.83 1.87 1.5 1.61 1.51 1.3 1.60 1.52 1.2 1.59 1.43 1.2 2.31 2.46 2.4 1.75 1.70 1.5 1.67 1.52 1.4 1.66 1.53 1.4 1.59 1.44 1.4 1.93 2.02 2.0 1.70 1.61 1.6 1.15 1.10 0.9 1.12 1.03 0.9 1.13 1.08 1.0 1.83 1.78 1.7 1.29 1.23 1.1 1.55 1.49 1.3 1.54 1.47 1.2 2.01 2.04 2.1 1.64 1.59 1.44	1.25	1.19	0.97	1.06	1.25	2.17	2.36	2.35	2.45	2.30	
√ ρ	Equipment making	2.31	2.46	2.45	2.40	2.40	2.23	2.18	1.82	1.85	1.75	1.82	1.92
	Average	1.75	1.70	1.53	1.46	1.26	1.30	1.43	2.15	2.30	2.27	2.34	2.29
	Fishing	1.67	1.52	1.49	1.44	1.41	1.38	1.76	2.97	2.74	2.20	1.90	1.82
Dixcove	Fish processing	1.66	1.53	1.48	1.48	1.45	1.42	1.73	2.94	2.74	2.19	1.87	1.80
XC	Casual labour	Shing 1.75 1.82 1.31 1.25 1.00 0.90 uipment making 2.08 1.59 1.43 1.25 1.20 0.95 1.06 shing 1.60 1.52 1.29 1.20 0.95 1.06 shing 1.60 1.52 1.29 1.20 0.95 1.06 uipment making 2.31 2.46 2.45 2.40 2.40 2.23 2.44 2.56 2.49 2.47 2.59 1.43 1.25 1.10 0.97 1.06 2.49 2.40 2.40 2.23 2.44 2.56 2.49 2.40 2.40 2.23 2.44 2.56 2.49 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.23 2.40 2.40 2.23 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.23 2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40	1.72	2.84	2.66	2.12	1.77	1.71					
Ď.	Equipment making	1.93	2.02	2.05	2.09	2.14	2.19	2.29	1.35	1.39	1.58	1.97	1.99
	Average	1.70	1.61	1.60	1.61	1.61	1.60	1.86	2.57	2.42	2.04	1.88	1.82
ц	Fishing			0.99			1.50				1.96	1.63	1.61
New Town	Fish processing	1.12	1.03	0.97	0.80	1.02	1.45	1.91	2.86	2.33	1.94	1.61	1.60
Τ,	Casual labour			1.03							1.72		1.40
lev	Equipment making	1.83	1.78	1.76		1.82	1.95	1.82	1.28	1.33	1.45	1.77	1.77
	Average	1.29	1.23	1.17	1.05		1.62	1.91	2.51	2.07	1.78	1.60	1.59
	Fishing	1.55	1.49	1.31	1.20	1.15	1.22	1.55	2.72	2.54	2.16	1.96	1.93
_	Fish processing	1.54	1.47	1.29	1.21	1.15	1.24	1.55	2.67	2.53	2.15	1.95	1.91
All	Casual labour		1.43		1.24			1.57		2.42	2.03	1.83	1.79
	Equipment making										1.65		1.89
	Average								all Aug S 14 2.50 2 16 2.48 2 18 2.48 2 37 1.54 1 45 2.26 2 18 2.30 2 25 2.23 2 25 2.17 2 18 1.82 1 43 2.15 2 76 2.97 2 72 2.84 2 29 1.35 1 86 2.57 2 95 2.94 2 91 2.86 2 93 2.76 2 82 1.28 1 91 2.51 2 55 2.67 2 57 2.61 2 17 1.47 1 69 2.40 2		2.01		1.88

Values are means of perceptions of fishing activities intensity in the community. The scale ranges from 0 (no activity) to 3 (highest activity). Values indicated in red is where mean intensity is high (>2) and in blue where intensity is medium (1.5-2)

Figure 2. Fishing calendar, by Community

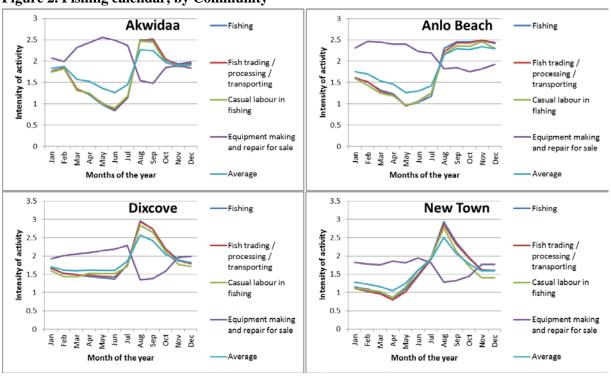
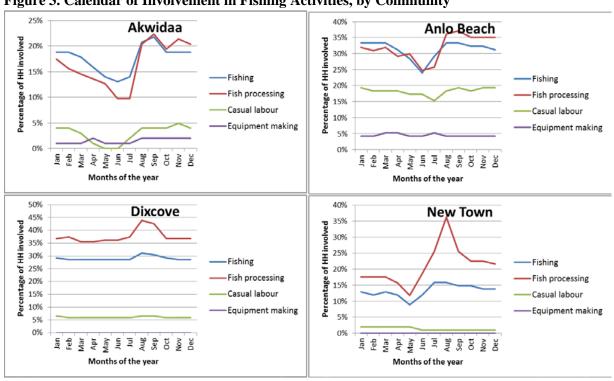


Table 33. Calendar of Involvement in Fishing Activities, by Community

	A -4!!4				Mo	nth of t	he year	(% HI	I involv	ved)				
	Activity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tot
	Fishing	18.8	18.8	17.8	15.8	14.0	13.0	14.0	20.8	21.8	18.8	18.8	18.8	21.8
Akwidaa	Fish processing	18.0	16.0	15.0	14.0	13.0	10.0	10.0	21.0	23.0	20.0	22.0	21.0	24.0
W16	Casual labour	4.0	4.0	3.0	1.0	0.0	0.0	2.0	4.0	4.0	4.0	5.0	4.0	5.0
ΑK	Equipment making	1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
	All	27.0	26.0	24.0	22.0	16.2	14.1	16.2	30.0	33.0	29.0	31.0	29.0	35.0
	Fishing	32.6	32.6	32.6	30.5	27.7	23.2	28.4	32.6	32.6	31.6	31.6	30.5	33.7
o {	Fish processing	32.6	31.6	32.6	29.8	30.5	25.3	26.3	36.8	37.9	35.8	35.8	35.8	38.9
	Casual labour	20.0	18.9	18.9	18.9	17.9	17.9	15.8	18.9	20.0	18.9	20.0	20.0	20.0
√ α	Equipment making	4.2	4.2	5.3	5.3	4.2	4.2	5.3	4.2	4.2	4.2	4.2	4.2	5.3
	All	56.4	55.3	56.4	53.2	54.3	46.8	47.9	60.6	62.8	59.6	59.6	58.5	63.8
	Fishing	29.4	28.8	28.8	28.8	28.8	28.8	28.8	31.4	30.7	29.4	28.8	28.8	32.0
Dixcove	Fish processing	37.3	37.9	35.9	35.9	36.6	36.6	37.9	44.4	43.1	37.3	37.3	37.3	45.1
XCC	Casual labour	6.6	5.9	5.9	5.9	5.9	5.9	5.9	6.6	6.6	5.9	5.9	5.9	6.6
Di	Equipment making	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	All	18.8 18.8 17.8 15.8 14.0 13.0 14.0 20.8 21.8 18.8 18.3 ng 18.0 16.0 15.0 14.0 13.0 10.0 10.0 21.0 23.0 20.0 22.0 4.0 4.0 4.0 3.0 1.0 0.0 0.0 2.0 4.0 4.0 4.0 5.0 aking 1.0 1.0 1.0 2.0 1.0 1.0 1.0 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	49.3	49.3	58.6									
ц	Fishing	12.9	11.9	12.9	11.9	8.9	11.9	15.8	15.8	14.9	14.9	13.9	13.9	15.8
Town	Fish processing	17.8	17.8	17.8	15.8	11.9	18.8	25.7	36.6	25.7	22.8	22.8	21.8	36.6
, T	Casual labour	2.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
New '	Equipment making	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	All	22.0	21.0	22.0	19.0	15.0	24.0	30.0	40.0	28.0	26.0	25.0	24.0	39.4
	Fishing	24.0	23.6	23.6	22.4	20.8	20.3	22.5	25.8	25.6	24.2	23.8	23.6	26.4
_	Fish processing	27.6	27.2	26.5	25.2	24.5	24.3	26.5	35.9	33.6	29.8	30.3	29.8	37.2
All	Casual labour	7.8	7.4	7.1	6.7	6.3	6.0	6.0	7.4	7.6	7.1	7.6	7.4	8.0
,	Equipment making	1.1	1.1	1.3	1.6	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.6
	All			38.6	36.8		35.1	37.8	48.2			41.9	41.0	50.1

Data are the percentage of households involved in each activity in each month. The column "Tot" indicates the percentage of households that at any time in the year is involved in this activity. Values indicated in values in blue are 20% and higher and those in red are 40% and higher.

Figure 3. Calendar of Involvement in Fishing Activities, by Community



Other Income

Table 34. Other Sources of Income, by Community

		Comm	unity		
Income Source	Akwidaa	Anlo	Dixcove	New Town	
income Source		Beach			All
	Count	Count	Count	Count	Count
Hawking, petty trading	18	12	45	41	116
Small-scale business	18	18	36	21	93
Casual work	11	20	21	8	60
Formal employment	9	13	7	8	37
Contribution from husband (not in HH)	4	9	2	1	16
Gifts from children / relatives	2	3	4	1	10
Gifts from non-relatives	2	1	0	0	3
Pension / Social security (SSNIT)	0	1	1	0	2
Large scale business (owner)	1	0	0	0	1
Leasing out land, boats/ other property	1	0	0	0	1
Hunting	1	0	0	0	1

Data are the counts of households that earn an income from each other income source. Note: Small-scale business includes mining, electrician, mechanic, tailor etc.

Constructing Livelihoods

Subsistence

Table 35. Output Share Selected Crops and Livestock Consumed at Home, by Community

			Comm	unity		
Product		Akwidaa	Anlo Beach	Dixcove	New Town	All
		%	%	%	%	%
	N	23	31	50	16	120
Fish	Mean	14.8	35.7	23.0	38.5	26.8
ГІЗП	St.dev.	15.3	30.7	26.6	34.6	28.2
	Median	13.7	% % 31 50 16 35.7 23.0 38.5	32.1	19.7	
	N	14	22	17	8	61
Animal	Mean	94.7	93.3	82.9	75.0	88.3
product	St.dev.	19.9	22.8	24.0	30.1	24.0
_	Median	100.0	100.0	100.0	80.5	100.0
	N	70	52	22	33	177
Cnons	Mean	29.7	58.4	19.1	41.1	38.9
Crops	St.dev.	38.3	43.2	35.3	46.5	43.1
	Median	2.5	78.2	0.0	11.6	14.3

Based on imputed values. Mean and median proportions apply only to households producing each output listed.

Table 36. Share of Own Consumption in Total Income by Income Tercile, by Community

-		Per c	apita income ter	rcile	<u> </u>
		I	II	III	All
		%	%	%	%
	Fish	0.0	8.2	13.3	8.6
Akwidaa	Animal Product	22.0	2.1	0.0	5.1
Akwiuaa	Crops	18.1	18.1	3.6	12.4
	All subsistence	40.1	28.3	17.4	26.3
	Fish	0.0	11.0	26.9	17.7
Anlo Beach	Animal Product	5.8	5.7	0.1	3.4
Allio Beach	Crops	36.8	17.8	2.1	15.8
	All subsistence	42.7	34.5	29.2	36.9
	Fish	11.1	12.2	4.0	8.6
Dixcove	Animal Product	7.3	1.0	0.1	1.8
Dixcove	Crops	1.2	2.4	0.0	1.1
	All subsistence	19.6	15.5	4.1	11.5
	Fish	0.0	9.7	16.8	10.9
New Town	Animal Product	0.0	0.1	0.1	0.1
New Town	Crops	47.0	16.5	0.7	15.5
	All subsistence	47.0	26.6	17.6	26.6
	Fish	1.3	10.7	14.7	11.1
All	Animal Product	7.6	2.5	0.1	2.5
AII	Crops	27.7	9.7	1.4	10.0
	All subsistence	36.7	22.8	16.3	23.7

Total net value of household subsistence as proportion of total net household income excluding fish processing. Data summed across all sample households

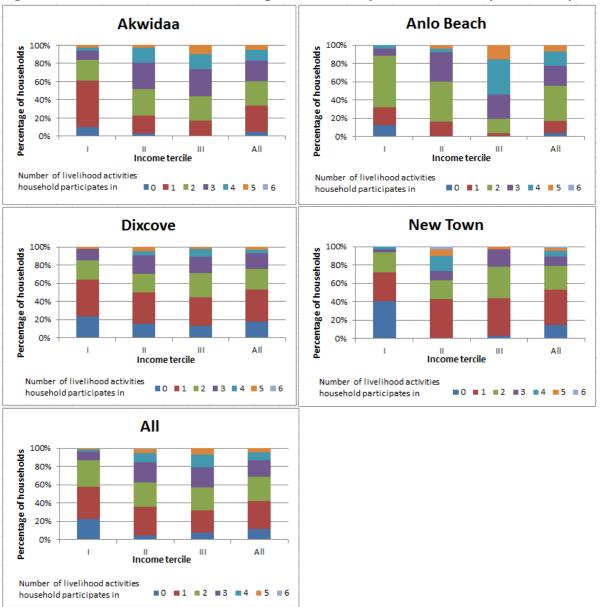
Livelihood Activities

Table 37. Number of Livelihood Activities per Household by Income Tercile, by Community

			pita income te		<u> </u>
	Total no. of activities	I	II	III	All
		%	%	%	
	0	9.7	3.2	0.0	4.4
	1	51.6	19.4	16.7	29.4
	2	22.6	29.0	26.7	26.1
Akwidaa	3	9.7	29.0	30.0	22.8
	4	3.2	16.1	16.7	12.0
	5	3.2	3.2	10.0	5.4
	6	0.0	0.0	0.0	0.0
	Total	100.0	100.0	100.0	100.0
	0	12.0	0.0	0.0	4.0
	1	20.0	16.0	3.9	13.2
Anlo Beach Dixcove	2	56.0	44.0	15.4	38.2
Anlo Beach	3	8.0	32.0	26.9	22.4
	4	4.0	4.0	38.5	15.8
	5	0.0	4.0	15.4	6.6
	6	0.0	0.0	0.0	0.0
	Total	100.0	100.0	100.0	100.0
	0	23.4	15.9	13.3	17.7
Dixcove	1	40.4	34.1	31.1	35.3
	2	21.3	20.5	26.7	22.8
Dixcove	3	12.8	20.9	17.4	16.9
Dixcove	4	0.0	4.6	8.9	4.4
	5	2.1	4.6	2.2	2.9
	6	0.0	0.0	0.0	0.0
	Total	100.0	100.0	100.0	100.0
	0	40.6	0.0	3.1	14.9
	1	31.3	43.3	40.6	38.3
	2	21.9	20.0	34.4	25.5
New Town	3	3.1	10.0	% 0.0 16.7 26.7 30.0 16.7 10.0 0.0 100.0 0.0 3.9 15.4 26.9 38.5 15.4 0.0 100.0 13.3 31.1 26.7 17.4 8.9 2.2 0.0 100.0 3.1 40.6	10.6
TIOW TOWN	4	3.1	16.7		6.4
	5	0.0	6.7		3.2
	6	0.0	3.3		1.1
	Total	100.0	100.0		100.0
	0	22.2	4.6		11.5
	1	35.6	31.1		30.3
	2 3	28.9	27.3		27.1
Δ11		9.6	22.0		17.8
<i>i</i> 111	4	2.2	9.9		8.8
	5	1.5	4.6		4.3
Dixcove New Town	6	0.0	0.8		0.3
	Total	100.0	100.0	100.0	100.0

Data are percentages of sample households. On basis of: crop growing, livestock keeping, animal products, fishing related, financing of fishing, petty trading, small business (carpentry, masonry, tailoring, hairdresser etc.), formal employment, casual work, large business, leasing out of property, all counted as 1 if anyone in the household participates.

Figure 4. Number of Livelihood Activities per Household by Income Tercile, by Community



Income Portfolios and Per Capita Incomes

Table 38. Income Portfolios by Income Tercile, by Community

	-	Per can	ita income ter	cile	
	Activity	I	II	III	All
				·	
	Crops	53.3	42.1	5.0	29.4
	Livestock	20.0	6.2	0.1	6.4
	Fishing	0.0	8.2	44.9	21.4
Alrevidos	Fishing Related	0.0	5.9	0.0	2.4
Akwidaa	Non-farm	20.0	29.7	49.6	35.8
	Transfers	6.7	7.9	0.4	4.6
	Total	100.0	100.0	100.0	100.0
	Total income (Ghana Cedi)	103.7	1642.0	15292.8	5679.5
	Crops	25.2	30.4	2.8	17.5
	Livestock	27.8	7.2	0.5	9.4
	Fishing	0.0	9.2	43.7	24.8
Anlo	Fishing Related	0.9	9.2	4.5	4.9
Akwidaa Fishing Fishing Related Non-farm Transfers Total Total income (Ghana Cedi) Crops Livestock Fishing Anlo Beach Non-farm Transfers Total Total income (Ghana Cedi) Crops Livestock Fishing Related Dixcove Crops Livestock Fishing Fishing Related Non-farm Transfers Total Total income (Ghana Cedi) Crops Livestock Fishing Fishing Related Non-farm Transfers Total Total income (Ghana Cedi) Crops Livestock Fishing New Fishing Related Town Non-farm Transfers Total Total income (Ghana Cedi) Crops Livestock Fishing New Fishing Related Town Non-farm Transfers Total Total income (Ghana Cedi) Crops Livestock Fishing Fishing Related	23.9	27.1	45.3	30.9	
	Transfers	22.2	17.0	3.2	12.6
	Total	100.0	100.0	100.0	100.0
	Total income (Ghana Cedi)	202.6	2413.6	11358.2	5305.8
	Crops	8.1	2.3	0.1	2.5
		22.6	2.6	0.2	5.5
	Fishing	16.7	33.5	35.9	31.1
D:	Fishing Related	0.0	3.3	1.9	2.9
Dixcove		48.2	55.7	59.2	54.2
	Transfers	4.3	2.5	2.8	3.8
	Total	100.0	100.0	100.0	100.0
	Total income (Ghana Cedi)	247.9	2579.3	12747.8	5052.2
	Crops	35.7	26.9	1.4	17.8
		7.1	2.1	0.0	2.1
	Fishing	0.0	3.2	29.8	13.8
New	Fishing Related	0.0	2.2	0.2	1.0
Town	Non-farm	42.9	64.4	68.7	62.2
	Transfers	14.3	1.1	0.0	3.1
	Total	100.0	100.0	100.0	100.0
	Total income (Ghana Cedi)	105.8	1415.7	9570.1	3668.8
	Crops	35.0	18.8	2.0	15.2
	-	19.2	4.7	0.2	5.8
	Fishing	1.3	17.7	39.1	23.7
A 11	Fishing Related	0.2	4.6	1.7	2.8
AII	Non-farm	32.9	48.1	55.3	46.8
	Transfers	11.4	6.2	1.7	5.7
Town	Total	100.0	100.0	100.0	100.0
	Total income (Ghana Cedi)	155.9	2042.4	12429.2	4921.3

Percentage data refer to total incomes summed across all sample household. Data exclude fish processing income.

Table 39. Mean Annual Household Income by Income Tercile, by Community (Ghana Cedi)

Community		Per cap	Per capita income tercile				
Community		I	II	III	All		
	N	31	31	31	93		
Almuidaa	Mean	103.73	1642.04	15292.76	5679.51		
Akwidaa	St.dev.	234.20	1653.86	14246.99	10686.72		
	Median	0.00	806.40	10558.00	933.75		
	N	25	25	26	81		
Anlo Beach	Mean	202.63	2413.60	11358.23	5305.78		
Amo beach	St.dev.	406.33	2003.39	7500.54	6995.82		
	Median	60.00	1596.48	9220.55	2406.00		
	N	47	44	46	142		
Dimagna	Mean	247.86	2579.35	12747.78	5052.21		
Dixcove	St.dev.	393.45	2518.75	10343.14	8103.69		
	Median	0.00	2128.50	9102.00	1839.00		
	N	33	30	32	96		
New Town	Mean	105.84	1415.74	9570.12	3668.84		
New Town	St.dev.	235.26	1149.83	9205.65	6779.43		
	Median	0.00	1118.67	6873.57	1087.20		
	N	136	132	134	412		
A 11	Mean	155.95	2042.43	12429.15	4921.32		
All	St.dev.	297.90	1958.59	10719.23	8293.06		
	Median	5.00	1418.00	8996.10	1482.00		

Table 40. Mean Annual Per Capita Income by Income Tercile, by Community (Ghana Cedi)

Community		N 31 31 31 Mean 13.70 245.19 3043.83 1 St.dev. 25.80 186.15 3081.49 2 Median 0.00 186.75 1845.00 N 25 25 26 Mean 29.24 427.38 2751.38 1 St.dev. 25.44 215.58 2447.92 3 Median 34.29 481.20 2004.90 46 Mean 39.39 437.37 3058.72 1 St.dev. 61.62 200.80 3369.61 2 Median 0.00 395.00 2136.69 Mean 14.57 210.92 2702.75 St.dev. 30.45 120.96 3316.35 2 Median 0.00 188.06 1688.00 N 136 132 134			
Community		I	II	III	All
	N	31	31	31	93
Almuidaa	Mean	13.70	245.19	3043.83	1100.91
Akwidaa	St.dev.	25.80	186.15	3081.49	2241.64
	Median	0.00	186.75	1845.00	186.75
	N	25	25	26	81
Anla Daaah	Mean	29.24	427.38	2751.38	1417.98
Anlo Beach	St.dev.	25.44	215.58	2447.92	3020.80
	Median	34.29	481.20	2004.90	573.61
	N	47	44	46	142
Dixcove	Mean	39.39	437.37	3058.72	1155.38
Dixcove	St.dev.	61.62	200.80	3369.61	2331.19
	Median	0.00	395.00	2136.69	381.75
	N	33	30	32	96
New Town	Mean	14.57	210.92	2702.75	971.84
New Town	St.dev.	30.45	120.96	3316.35	2261.40
	Median	0.00	188.06	1688.00	156.75
	N	136	132	134	412
A 11	Mean	21.52	345.88	2929.67	1151.95
All	St.dev.	35.68	227.47	3106.10	2443.26
	Median	1.00	317.56	1934.47	314.78

Table 41. Willingness to Change Primary Occupation by Income Tercile, by Community

		•	, ,		•
		Per capi	ita income t	ercile	
		I	II	III	All
	_	%	%	%	%
Akwidaa	Willingness to learn a new LLH activity	80.6	64.5	74.2	74.0
Akwiuaa	Change of occupation if HH won lottery	50.0	45.2	45.2	49.5
Anlo	Willingness to learn a new LLH activity	84.0	80.0	76.9	79.8
Beach	Change of occupation if HH won lottery	64.0	41.7	61.5	54.8
Divisoria	Willingness to learn a new LLH activity	66.0	59.1	80.4	69.3
Dixcove	Change of occupation if HH won lottery	60.9	56.8	56.5	57.2
New	Willingness to learn a new LLH activity	57.6	76.7	81.3	72.0
Town	Change of occupation if HH won lottery	46.9	50.0	59.4	51.5
All	Willingness to learn a new LLH activity	69.1	71.2	77.6	73.2
All	Change of occupation if HH won lottery	56.4	51.1	53.0	53.7

Data are percentage of households that said yes

Table 42. Reasons for Willingness or Unwillingness to Learn a New Occupation

Table 42. Reasons for Willingness or Unwi	
NO	YES
 NO Too old or weak to learn a new livelihood Would not want to change livelihood completely but add an activity Need to take care of children Don't know what else to do / There is no other work available No time 	 YES Current occupation no longer profitable Current occupation not earning enough Don't like present occupation Fish is seasonal Health consequences of present job Hope for constant salary Hope for more money
 Already invested in learning present livelihood Don't want to learn a new job Going for education Already have several occupations Have done this work all my life I like my present occupation I don't have enough money to think about other livelihood This is the only thing I know how to do 	 In need of money Not enough fish Not enough income from present occupation Would like permanent / stable job Present occupation is difficult Present occupation is labour intensive Would like to start own business / be own boss Am suffering Am tired of present job To help my family To help myself To improve my life To support present occupation Am too capital dependent Am too weak for present occupation Am presently unemployed Want to be good at my job Would like to do a specific other job (e.g. hairdressing, catering) Would like to acquire a trade Would want to be educated

Table 43. Count of Occupations to Change to, Specified, by Gender of Respondent

Activity			_	All
		Male	Female	Total
		0	1	1
Farming / fishing		0		3
related				10
rciated	Aquaculture	2		
	Rearing of livestock	2		3
	Accounting	1	0	1
	Aquaculture Farming Fish mongering / processing Fishing / watsa fishing Rearing of livestock Accounting Criminal Investigation Department (CID) Fire service personnel Company worker Nursing Oil and gas company work Radio presenter Rubber planting School feeding program Security-man (Watchman) Seller of premix Teaching Waitress (at the resorts nearby) Zoil (Petty) trading / provision store Bakery (bread / cake / pastry) Boat Driving Bulldozer operator Carpentry Catering Cocontt oil producer Cold store keeper Computer related work Construction Decoration Doctor Drinking bar or chop bar Driver (car/taxi) Driver of heavy duty vehicle Drug store operation Electrician Fitter Food vendor Hairdressing Masonry Mechanic Operation of a grinding mill Perfume making Shoemaking Small scale mining (Galamsey) Soap and detergent making Steel bending Stuffing chair making Steel bending Stuffing chair making Tailoring / dressmaking / seamstress Tie and dye	1	0	1
	Fire service personnel	0	1	
	Company worker	3	2	4
	Nursing	0	2	4
		1	1	
Formal		1	0	
emplovment		1	0	
F <i>J</i>		1	0	
		1		
		0		
				1
				5
				1
				1
		_		
				2
				2
		1		
		_		
		_		
				_
				2
Self-employment (Business)		3		
Self-employment	Accounting Criminal Investigation Department (CID) Fire service personnel Company worker 3 Nursing Oil and gas company work It Radio presenter Ityment Rubber planting School feeding program Security-man (Watchman) Seller of premix Ook Teaching Waitress (at the resorts nearby) Zoil (Petty) trading / provision store Bakery (bread / cake / pastry) Boat Driving Bulldozer operator Carpentry Catering Coconut oil producer Cold store keeper Computer related work Construction Doctor Drinking bar or chop bar Driver (car/taxi) Driver of heavy duty vehicle Driver sort of heavy duty vehicle Driver of heavy duty vehicle Driver of heavy duty vehicle Driver fold of the first of the first of peration Electrician Fitter Food vendor Hairdressing Masonry Masonry Mechanic Operation of a grinding mill Perfume making Shoemaking Small scale mining (Galamsey) Saap and detergent making Steel bending Steel bending Steel bending Stuffing chair making Tailoring / dressmaking / seamstress Tie and dye Welding			
			le Female 0 1 0 3 3 7 2 0 2 1 1 0 0 1 3 2 0 2 1 1 0 1 1 0 1 0 0 1 1 0 </td <td>1</td>	1
(Dusiness)			1	
	_	13	63	7
	Masonry	18	5	2
	Mechanic	17	5	2
	Operation of a grinding mill	1	0	
	Perfume making	0	1	
	Shoemaking	0	1	
	Small scale mining (Galamsey)	3	1	
		0	3	
		1		
		1		
	č č	16		9
	vv 110105a101	U	4	

The total number does not equal the number of households because some households specified more than one occupation. Note that some respondents indicated they may not be willing to change their occupation because of old age but other household members might be willing with occupations indicated. Marked in red is top 5 by sub-group. Note that out of all sample households 34% is male and 66% is female.