

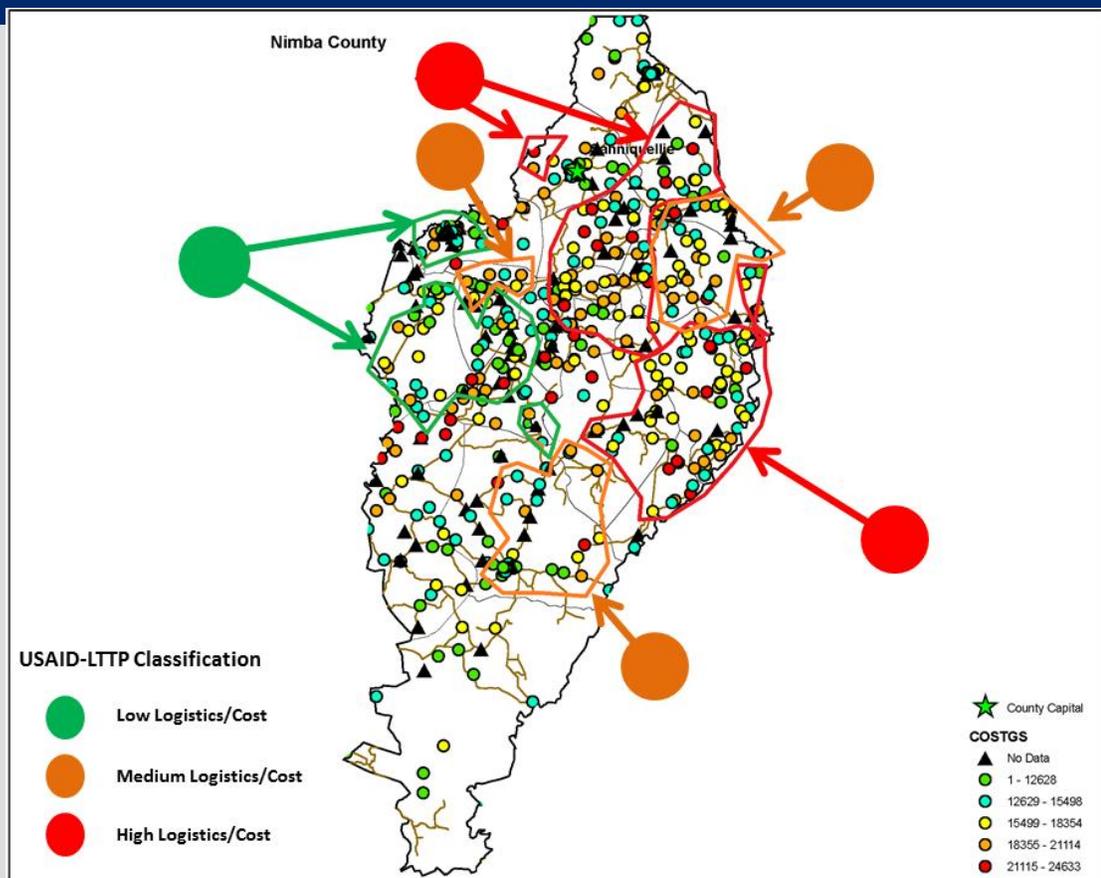


**USAID**  
FROM THE AMERICAN PEOPLE

**LIBERIA**

# SUSTAINABILITY OF THE MCC-GOAL PROJECT MODEL: A GEOSPATIAL ANALYSIS FACTORING IN LOGISTICS COSTS AND GIRLS' ENROLLMENT

REPORT



January 2014

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Prepared for the Liberia MCC Threshold Program/USAID

**GIRLS' OPPORTUNITY TO ACCESS LEARNING (GOAL) PROJECT**

# Table of Contents

<b>LIST OF FIGURES.....</b>	<b>VI</b>
<b>ABBREVIATIONS AND ACRONYMS.....</b>	<b>VII</b>
<b>ACKNOWLEDGEMENTS .....</b>	<b>IX</b>
<b>EXECUTIVE SUMMARY.....</b>	<b>1</b>
Methodology and Major Conclusions .....	2
<b>1 Background and Project Context .....</b>	<b>4</b>
1.1 Girls’ Participation in Liberia’s Formal Education System.....	4
1.2 The Girls' Opportunities to Access Learning project .....	4
1.3 Overview of the GOAL Project and its Applied Research Approach.....	5
1.4 The Role Of L-Mep in Examining Sustainability of the Goal Model .....	5
1.5 Results Framework and Indicators for the Goal Project.....	6
<b>2 Methodology .....</b>	<b>10</b>
2.1 The Role of L-MEP with the GOAL Research Component .....	10
2.2 Compilation of M&E Documentation .....	10
Field Monitoring .....	10
PIDS and the Data Quality Assessment (DQA) .....	10
Ethnographic Research .....	11
Obtaining Data Sets .....	11
<b>3 Research Methodology used in the Goal Project .....</b>	<b>13</b>
3.1 Criteria used for the Selection of Schools .....	13
3.2 Ranking and Final Selection of Intervention and Comparison Schools.....	17
3.3 Summary of the Results of the GOAL Project.....	21
Impacts on School Conditions .....	22
<b>4 Air’s Cost Effectiveness Analysis.....</b>	<b>25</b>
4.1 Primary Cost Elements in the GOAL Project.....	25
4.2 AIR’s Summary Analysis .....	26
4.3 Details of AIR’s Cost Effectiveness Data Analysis.....	27
<b>5 Scaling Up Of the Cost Effectiveness Model .....</b>	<b>33</b>
5.1 Overview of the Geospatial Model used to Generate a Cost Effective Approach to Scaling-Up a Girls’ Education Program .....	33
5.2 The Geospatial Dataset of Liberian Schools .....	36
5.3 The USAID-LTTP Logistics Costs for Continuing Teacher Capacity Development in the Reading First Program .....	38

5.4	Logistics/Mobilization Costs Related to the USAID-LTTP Reading First + Math Program .....	40
5.5	Number of Girls Enrolled in Primary Level in Schools for the Five Principal Corridor Counties .....	46
	The AIR Girls' Education Cost Effectiveness Algorithms Developed for the GOAL Project .....	47
	<b>Source: Final Endline Report on the GOAL Project. AIR (draft).....</b>	<b>48</b>
	<b>Source: AIR Draft Tables of Costs .....</b>	<b>49</b>
5.6	Synthesizing the AIR Cost Data with the USAID-LTTP Data to Generate the Geo-Spatial Models .....	49
6	<b>Consolidation of the Geo-Spatial Model to Select Likely Fit School Clusters For Sustainability .....</b>	<b>52</b>
7	<b>Conclusions and Recommendations.....</b>	<b>59</b>
	Major Conclusions .....	59
	Principal Recommendations .....	59
	<b>SOURCES CONSULTED.....</b>	<b>61</b>
	<b>APPENDICES .....</b>	<b>62</b>
	Appendix A : Monserrado.....	62
	Appendix B: Bong.....	65
	Appendix C: Lofa .....	69
	Appendix D: Margibi.....	72
	Appendix E: Nimba .....	74

# LIST OF FIGURES

Figure 1-1: Overall Results Framework .....  
 Figure 1-2: Intermediate Result 1 with Sub-Results and Principal Indicators.....  
 Figure 1-3: Intermediate Results 2 and 3 with Principal Indicators.....  
 Figure 2-1 Map Showing GOAL Intervention and Control Schools .....  
 Figure 3-1: Clip Showing Data Collection Tools used in the Rapid Assessment (Partial) .....  
 Figure 3-2: Clip Showing School Selection Criteria .....  
 Figure 3-3 Clip Showing Differential Weight Factors applied to Key Selection Criteria .....  
 Figure 3-4 Clip Showing Selected Program Intervention Schools showing Original Ranking .....  
 Figure 3-5 Clip Showing Selected Program Intervention Schools .....  
 Figure 3-6 Clip Showing Selected Program Intervention Schools .....  
 Figure 3-7 Clip Showing Selected Comparison Schools .....  
 Figure 3-8 Enrollment and Completion Rate of Girls in Grades 2 to 6 Eligible for Promotion by County and Intervention Model from the 2010/2011 to the 2012/2013 Academic Year .....  
 Figure 4-1 Clip Showing Line Item Breakdown of Scholarship Costs per School (Partial) .....  
 Figure 4-2: Clip Showing Line Item Breakdown of Grant Costs (Partial) .....  
 Figure 4-3 Clip Showing Line Item Breakdown of Town Meeting Costs (Partial)..... 29  
 Figure 4-4 Clip Showing Line Item Breakdown of Health Activities Costs .....  
 Figure 5-1 Geo-Spatial Modeling of School Clusters with Logistics Cost Factoring.....  
 Figure 5-2 Clip Showing Ministry of Education Schools with Boy-Girl Primary Enrollment (Partial).....  
 Figure 5-3 Distribution of Ministry of Education Schools .....  
 Figure 5-4 Clip Showing USAID-LTTP Coach List with Associated Costs and Logistics Categories (Partial) 39  
 Figure 5-5 Distribution of School Categories in Terms of USAID-LTTP Logistical Costs .....  
 Figure 5-6 USAID-LTTP Reading First Schools by Logistics Costs Categories —Lofa County .....  
 Figure 5-7 USAID-LTTP Reading First Schools by Logistics Costs Categories —Bong County.....  
 Figure 5-8 USAID-LTTP Reading First Schools by Logistics Costs Categories —Nimba County .....  
 Figure 5-9 USAID-LTTP Reading First Schools by Logistics Costs Categories —Margibi County .....  
 Figure 5-10 USAID-LTTP Reading First Schools by Logistics Costs Categories —Montserrado County .....  
 Figure 5-11 Map of Liberian Primary Schools in the Densely Populated Counties .....  
 Figure 5-12 Unit Cost of Providing Incentives to Promote Girls’ Education in the GOAL Project..... 48  
 Figure 5-13 Costs of Supports per Girl by Type of Intervention .....  
 Figure 5-14 Number of Schools in Six Increment Categories Based on 25 Girl/School Margins .....  
 Figure 5-15 Clip Showing Database of Cost Extrapolations to Girls Enrollment Increments for Scholarships and Grants Program .....  
 Figure 6-1 Ministry of Education Schools Ranked by Scholarship and Grant Costs with .....  
 Figure 6-2 Ministry of Education Schools Ranked by Scholarship and Grant Costs with .....  
 Figure 6-3 Ministry of Education Schools Ranked by Scholarship and Grant Costs with .....  
 Figure 6-4 Ministry of Education Schools Ranked by Scholarship and Grant Costs with .....  
 Figure 6-5 Ministry of Education Schools Ranked by Scholarship and Grant Costs with .....

# ABBREVIATIONS AND ACRONYMS

AIR	American Institutes for Research
CEO	County Education Officer
DEO	District Education Officer
ESRI	Environmental Systems Research Institute
FAWE	Forum of African Women Educationalists
FGD	Focus Group Discussion
GER	Gross Enrollment Rate
GIS	Geographic Information Systems
GOAL	Girls' Opportunities to Access Learning
GoL	Government of Liberia
IEQ	Improving Education in Quality
KII	Key Informant Interviews
LISGIS	Liberia Institute of Statistics & Geo-Information Services
L-MEP	Liberia- Monitoring and Evaluation Program
LTTP	Liberia Teacher Training Program
M&E	Monitoring and Evaluation
MCC	Millennium Challenge Corporation
MOE	Ministry of Education
NER	Net Enrollment Rate
NGO	Non-Governmental Organization
PI	Principal Investigator
PTA	Parent-Teacher Association
SCRE	Scottish Council for Research in Education
SFCG	Search for Common Ground
SPSS	Statistical Package for the Social Sciences
TMG	The Mitchell Group

UNFPA	United Nations Population Fund
UNGEI	United Nations Girls' Education Initiative
UNICEF	United Nations Children's Fund
USAID	United States Agency for International Development
WFP	World Food Program

# ACKNOWLEDGEMENTS

This study contributes to research carried out by the USAID-Millennium Challenge Corporation Girls' Opportunities to Access Learning (MCC-GOAL) project. A principal practice established between the USAID-Liberia Monitoring and Evaluation Program (L-MEP) project and the MCC-GOAL project from early on enabled a collegial and collaborative relationship between the two projects. One of L-MEP's mandates in its research role for the MCC Threshold projects is to strive for research complementarity without forsaking objectivity. Hence, since the time when the GOAL baseline study identified the six study school/communities and established their initial descriptive profiles, three research ventures have been conducted by MCC-GOAL and L-MEP in collaborative fashion, with this one being the fourth.

There are a number of people who played important roles in making this study possible:

Lisa Deyo, Chief of Party for the MCC-GOAL activity implemented by AIR gave valuable guidance to orient the study, provided all of the project's documents, and wholeheartedly endorsed this work from the onset. Other members of the GOAL team, especially Nana Mathews, have been very helpful in providing data sets required for the analyses. Dan Sherman and Matt Murray from AIR provided the cost effective analysis performed on the GOAL project, and sent various versions of insightful tables as they were being developed. USAID's Liberia Teacher Training Program (LTTP), implemented by FHI360, provided the core field logistics data that are central to the analyses presented herein. Special gratitude is extended to Michael Blundell, (Chief of Party), Trokon Wayne, (Coordinator of the Reading Component, under sub-agreement partner Research Triangle International (RTI), and George Idu-San, Financial Manager of LTTP, for their efforts and willingness to prepare the data sets regarding logistics costs in the format requested, and with admirably quick turnaround. Dr. Walter Philips, LTTP's IT Specialist to the MOE, made available the digital geo-referenced Annual School Census.

The study's design and analysis was carried out by Michael Richards. Maps used in this report were prepared by Michael Richards and Larry Kanwee, GIS Specialist in L-MEP. The report was authored by Michael Richards.

The cover map is by Michael Richards, which depicts varying levels of logistics costs for fielding personnel to schools involved in USAID-LTTP's Reading First + Math Program, against the backdrop of Liberian schools, scaled by enrollment size—Nimba County.

# EXECUTIVE SUMMARY

In 2009, the Millennium Challenge Corporation (MCC) with the United States Agency for International Development (USAID) and the Government of Liberia (GOL) developed a Threshold Country Plan. One of the areas targeted in the plan was girls' education. The Girls' Opportunities to Access Learning (GOAL) is a three-year (MCC) funded and USAID-administered threshold project. The aim of the GOAL project is to improve girls' retention, attendance, and enrollment in primary schools in targeted schools in Lofa, Bong, and Grand Bassa counties. GOAL is a partnership, comprising the American Institutes for Research (AIR), the Forum for African Women Educationalists (FAWE), and Search for Common Ground (SFCG). In order to measure different treatment interventions in different types of schools, the GOAL project has a set of control schools in its research longitudinal correlational design, as well. The three intervention models in different schools are: (1) a scholarship program; (2) a community mobilization package through Parent Teacher Association (PTA) capacity building and grants; and (3) a combination of the scholarship and community mobilization programs. In the first model, GOAL offers in-kind scholarships and complementary services to build girls' leadership skills and to help them succeed in their academic studies. These complementary services include the provision of teachers' kits, the establishment of Girls' Clubs, and tutorial services.

The USAID-Liberia Monitoring and Evaluation Program (L-MEP) provides various services to USAID and its implementing partners in the areas of monitoring and evaluation. In 2012, the USAID/L-MEP project implementing partner began conducting complimentary research studies in the three areas the MCC Threshold projects supported—land policy and land rights, trade and commerce, and girls' education.

The present study constitutes Research Action 3.8—Undertake a Sustainability Analysis of the GOAL Project Model for Girls Education—in the contract that was signed between MCC and The Mitchell Group (TMG). Since its initial design stage, the GOAL project envisioned a very robust monitoring and evaluation (M&E) framework to serve as the foundation for its ambitious research component. AIR mounted a quasi-experimental design for purposes of evaluating the GOAL Projects' simultaneous interventions, with the expectation that the comparative analyses of results will provide the sufficient evidence base to determine which intervention(s) bring about the greatest change in key outcomes of interest – enrollment, attendance, and retention.

In the original research that L-MEP was to carry out on the GOAL project, the activity was conceived of as a cost effectiveness study. However, it was later discovered that AIR had this task factored in its agreement with MCC/USAID. In order to not duplicate efforts, the study that L-MEP was to carry out was reoriented to undertake a sustainability study, for purposes of gauging costs, should a girls' education program based on the GOAL model be scaled up to encompass wider regions of the country.

The overall objective of the GOAL project is to increase girls' enrollment, attendance, retention, and promotion in selected communities in Lofa, Bong, and Grand Bassa counties. The expected results are (1) increased access to school for girls, (2) improved learning environment for girls, and (3) increased awareness of educating girls in the targeted counties, districts, and communities.

The project follows a rigorous procedure, beginning with its initial task of gaining consensus with the Ministry of Education. The project incorporated officials at different levels of the MOE to be part of the initial rapid assessment of schools, and to be active participants in the selection of the schools themselves. The methodology used in the Rapid Assessment (RA) included a variety of different kinds of approaches, including carrying out focus group discussions with teachers, students, with parents, and by obtaining data from interviewing key informants—school principals, teachers, students, and parents. The forms used to guide research activity were vig-

orously tested and validated, and conform to a higher standard of research protocol. In order to capture the data, and to be able to organize it in a very retrievable and efficient manner, databases had to be constructed. These databases are also of very high caliber. In general, the implementing partner went to great lengths to provide expert technical assistance to the project, using its own corporate financial and technical resources.

### **Methodology and Major Conclusions**

The GOAL project was set up in a manner that would maximize research potential. A baseline was established through an initial Rapid Assessment carried out at the beginning of the project, and this led to the selection of the schools for the GOAL project's interventions. There were three categories of interventions: schools that received grants only, through the Parent-Teacher Association [PTA]; schools where girls received scholarships only; and schools in which girls received both scholarships and the PTA managed grants. A set of comparison schools was chosen as part of the research design. Finally, 40 schools were selected for the three intervention models in the three counties of Lofa, Bong, and Grand Bassa.

The American Institutes for Research (AIR) performed a detailed analysis of the costs that went into providing all of the incentives that would enhance girls' participation in the schools selected for an intervention. The analyses of the cost-effectiveness carried out by the AIR led to the conclusion that the most cost-effective model, in terms of maximizing enrollment, retention, and promotion of girls in schools, is the model that combines both scholarships for girls and grants to schools through PTAs. Furthermore, AIR developed an economy of scale model for the three interventions that was based on the unit cost per girl for schools that had enrollments of 25, 50, 75, 100, 125 and 150 girls.

L-MEP took this research model and applied it to a group of government schools that are in a geo-referenced file. The schools were classified in terms of a ranking that corresponds to AIR's classification scheme of enrollments in increments of 25, and the costs in real numbers for providing scholarships was factored in for all of the girls in a particular school, using AIR's algorithm.

Separately, L-MEP worked with the USAID–Liberia Teacher Training Program (LTTP)<sup>1</sup> project to develop a classification scheme of logistics costs for reading coaches in the Reading First + Math program. Five hundred and ninety three (593) schools were classified on a scale of low, medium, and high, and maps were generated pinpointing the schools location in five different counties: Lofa, Bong, Nimba, Margibi, and Montserrado.

A shortcoming of this study is that Grand Bassa County is not included in the Reading First + Math program and, therefore, the study did not extrapolate the data for the schools in this county. Nevertheless, for the five counties in which the projections were performed, the projections were done for the entire group of government schools. L-MEP also took the school clusters classification of logistics costs, and then extended that classification to the larger set of government schools.

Subsequently, the school clusters classification of logistics costs for the LTTP project were used to create and classify polygons in the clusters, enabling an identification of school clusters in the low-medium-high ranking scale for easier visualization. Based on the application of the cost per girl calculations, adjusted at different levels of magnitude in the study that AIR carried out and using real enrollment data for girls in the primary schools in the five counties, the extrapolation procedure was able to generate a lists of schools that are ranked by cost. The lists can be used in decision-

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<sup>1</sup> Formally, the project is called LTTP II, which is the successor of the LTTP, which was a teacher training program exclusively. LTTP II is an expended project that administratively assists the MOE itself, and carries out the Reading First + Math program, which was technically designed and is managed by Research Triangle International (RTI), the sub-contractor to FHI360 on the LTTP II project. For convention's sake, the project in this report is called "the USAID-LTTP" project.

making for including more schools in the model, should the girls' education project be scaled up. These list of schools are included as Appendices A through E.

### **Principal Recommendations**

The principal recommendation that emerges from this geospatial analysis, is that the Ministry of Education should focus on areas where costs are low, based on the logistics costs set by the USAID-LTTP project. The logistics costs were used to classify the government schools with the extrapolations made from the AIR cost effective algorithm and further factored with the enrollment size of girls in the schools. In other words, if the GOAL project is to be scaled up, the Government should concentrate resources on schools with the lowest costs for carrying out the intervention of applying scholarships and grants and have the lowest logistics costs (See Figures 6-1 through 6-5). But the lessons of the economy of scale analysis from the USAID/MCC implementing partner, AIR, shows that the costs beyond simply the reduced number of girls, increases inversely, as the cost per girl algorithm indicates.

Additionally, it may be advisable for the Government of Liberia to concentrate on schools that are located on the margins, and yet still lie within the green polygons as shown on the maps. This would enable resources to be focused in those areas that could be complemented by other educational interventions to improve Liberia's educational performance.

# 1 BACKGROUND AND PROJECT CONTEXT

## 1.1 GIRLS' PARTICIPATION IN LIBERIA'S FORMAL EDUCATION SYSTEM

Since the end of civil conflict in Liberia, the Liberian government has made significant advancement in its social and economic development, in spite of the daunting challenges the country faces as the country transitions out of the 14 year conflict that ended in 2003. In 2006, the Ministry of Education introduced compulsory and free primary education, and in 2011 the Education Reform Act extended free education in the public schools up to the ninth grade. Nevertheless, schooling beyond the first few years of elementary school is out of reach for many of Liberia's girls. While Liberia's increasing primary school enrollment shows future promise, net enrollment is low, and most girls of primary school age (6 to 11) do not complete the 6<sup>th</sup> grade.

The Ministry of Education cites that girls accounted for 46 percent of the overall enrollment population at the primary level.<sup>2</sup> However, the primary gross enrollment and completion rates for girls in all Liberian schools are 13 percent lower than that of boys. Net enrollment and completion rates for all primary school students contrast sharply to gross enrollment and completion rates<sup>3</sup>. For primary school girls, the net enrollment rate is 40 percent, and their net completion rate is 3.2 percent. Boys' net enrollment rate at the national level exceeds that of girls by 4 percent, and their net completion rate is higher than girls' net completion rate by only 0.3 percent. Basically speaking, the majority of girls and boys enrolled in primary schools in Liberia are overage. In addition to lowering the proportion of the overage student population at the primary level, when the aggregate age of boys and girls in primary school is lowered, there is the additional spin-off effect of narrowing the enrollment and completion rates of both.

## 1.2 THE GIRLS' OPPORTUNITIES TO ACCESS LEARNING PROJECT

In 2009, in consultation with the Millennium Challenge Corporation (MCC) and the United States Agency for International Development (USAID), the Government of Liberia (GOL) developed a Threshold Country Plan. One of the areas targeted in the Plan was girls' education. The Girls' Opportunities to Access Learning (GOAL) is a three-year (MCC) funded and USAID-administered Threshold project. The aim of the GOAL project is to improve girls' retention, attendance and enrollment in primary schools in targeted schools in Lofa, Bong, and Grand Bassa counties.

These three counties were chosen for an intervention package to bolster girls' participation in primary school because the gross enrollment and completion rates vary considerably. Since a key feature of the GOAL project is to measure intervention outcomes based on different types of interventions, this variability is important. For example, In Bong County, girls' gross enrollment and completion rates are higher than national rates. Grand Bassa's gross enrollment rate for girls is among the lowest. Similarly, Grand Bassa's gross completion rate of 43 percent, as well as the net enrollment rate of 25 percent, is low compared to the national average. Lofa's gross enrollment rate for girls is eight percent lower than the 99 percent national rate; in contrast, the gross completion rate for primary school girls in Lofa is 3 percent higher than the national rate.<sup>4</sup>

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2 Ministry of Education, Republic of Liberia (October 2010). A Case for System Transformation: the 2008/09 National School Census Report. Monrovia: author.

3 Net Enrollment Rate (NER) is the number of children in the official school age group enrolled in school over the entire population of that age bracket. Gross Enrollment Rate (GER) consists of all the enrolled children of all ages over the number of the official school age group.

4 GOAL Revised Performance Management Plan. American Institutes for Research (AIR), in partnership with the Forum for African Women Educationalists (FAWE) and Search for Common Ground (SFCG), submitted to USAID under Cooperative Agreement No. 669-A-00-11-00015, January 2012.

### **1.3 OVERVIEW OF THE GOAL PROJECT AND ITS APPLIED RESEARCH APPROACH**

As a three-year MCC funded and USAID-administered Threshold project, the aim of the GOAL project is to improve girls' retention, attendance and enrollment in primary schools in targeted schools in Lofa, Bong, and Grand Bassa counties. GOAL is a partnership, comprised of the American Institutes for Research (AIR), the Forum for African Women Educationalists (FAWE), and Search for Common Ground (SFCG).

GOAL has a longitudinal correlational design as its research base. It provides different treatment interventions in different types of schools and has a set of control schools, as well. The three intervention models in different schools are: (1) a scholarship program; (2) a community mobilization package through Parent Teacher Association (PTA) capacity building and grants, and (3) a combination of the scholarship and community mobilization programs.

In the first model, GOAL offers in-kind scholarships and complementary services to build girls' leadership skills and to help them succeed in their academic studies. These complementary services include the provision of teachers' kits, the establishment of Girls' Clubs, and tutorial services.

In the second model, GOAL builds the capacity of PTAs. The project begins by training PTAs in basic operations and the preparation of school improvement plans. After their participation in these activities, GOAL awards grants in three stages to PTAs to carry out projects that meet needs identified in their school improvement plans. In order for the PTAs to receive an award, they must complete a proposal that meets certain criteria. The proposals are then reviewed by committees whose membership includes GOAL staff and representatives from the Ministry of Education. In the first phase, each GOAL-supported PTA whose proposal meets the criteria receives a grant to implement a school improvement project. The projects should have an emphasis on activities with the greatest potential to support primary school going girls. In the second and third phases, PTA grants are awarded on a competitive basis. The grants serve not only to meet priority needs identified in school improvement plans, but also provide an opportunity for PTA members to work together to achieve mutually defined outcomes and strengthen their planning and management skills.

In all the targeted schools, GOAL carries out community sensitization and awareness-raising through town hall meetings and the medium of drama and radio messaging to help create environments that are supportive of girls' education. During the first year of the project, especially, a significant set of school health activities were carried out in partnership with Liberia's Ministry of Health and Social Welfare (MOHSW). These activities included de-worming all schoolchildren, linking schools to health clinics, providing the clinics with basic supplies for referred schoolchildren, and implementing a referral and tracking system for each student that had an overall goal of improving the health and learning outcomes of students.

It is intended that the results of research undertaken on these intervention models will provide an evidence base to determine which intervention(s) are associated with the greatest change in key outcomes: enrollment, attendance, retention, and promotion. Findings from the research will assist the GOL address policy areas for improvement, and help the GOL to become eligible for MCC compact assistance for girls' primary education.

### **1.4 THE ROLE OF L-MEP IN EXAMINING SUSTAINABILITY OF THE GOAL MODEL**

In the original research that L-MEP was to carry out on the GOAL project, the study was conceived as a mean to measure the cost effectiveness of the GOAL project, with an additional agenda for calculating educational costs to the Government of Liberia, should the girl's education program be scaled up. However, even after L-MEP's scope of work was approved, it was discovered that AIR was going to assume this task. Thus, in order to not duplicate efforts, the purpose of the L-MEP study was reoriented to undertake a sustainability study for purposes of gauging costs should a girls' education program, based on the GOAL model, be scaled up to encompass wider regions of the coun-

try. An agreement was reached whereby L-MEP would use AIR's data on cost effectiveness to roll out the projected costs on a larger scale.

L-MEP has developed various geospatial analytical tools in its geographic information systems (GIS) unit. Working closely with AIR, L-MEP obtained a draft of the elements from which the cost of effectiveness analysis was based on. Using the algorithm of cost-effectiveness that was developed by looking at enrollment size of schools and breaking down the enrollment to increments of 25 girls, ranging from 25 to 150, L-MEP applied the methodology to a larger group of Ministry of Education geocoded schools that exists in the L-MEP database, using a five-point classification system that was tailored for use in the geospatial analysis. Separately, L-MEP worked with the USAID – LTTP project to develop a logistics costs classification scheme based on its Reading First + Math program. The methodologies of the AIR cost-effectiveness study, and the USAID – LTTP project's logistics costs were incorporated into L-MEP's development of the geospatial model that would enable the selection of schools for the girls' education project to be scaled up using a model that best fits the circumstances.

### **1.5 RESULTS FRAMEWORK AND INDICATORS FOR THE GOAL PROJECT**

All USAID (and MCC Threshold) projects have to develop a Performance Management Program (PMP) as a blueprint for applying its development interventions. Central to the PMP is a Results Framework that establishes an Overall Objective, which in turn generally has several Intermediate Results, with indicators that measure progress toward meeting the objectives and results. In order to better understand the research methodology that GOAL employed, as well as the data structure to support the research, it is important to examine the project in the context of its Results Framework. This is described below.

The Overall Objective of the GOAL Project is: Increased Educational Opportunity for Girls in Selected Communities of Lofa, Bong, and Grand Bassa Counties.

There are three Intermediate Results the project aspired to achieve:

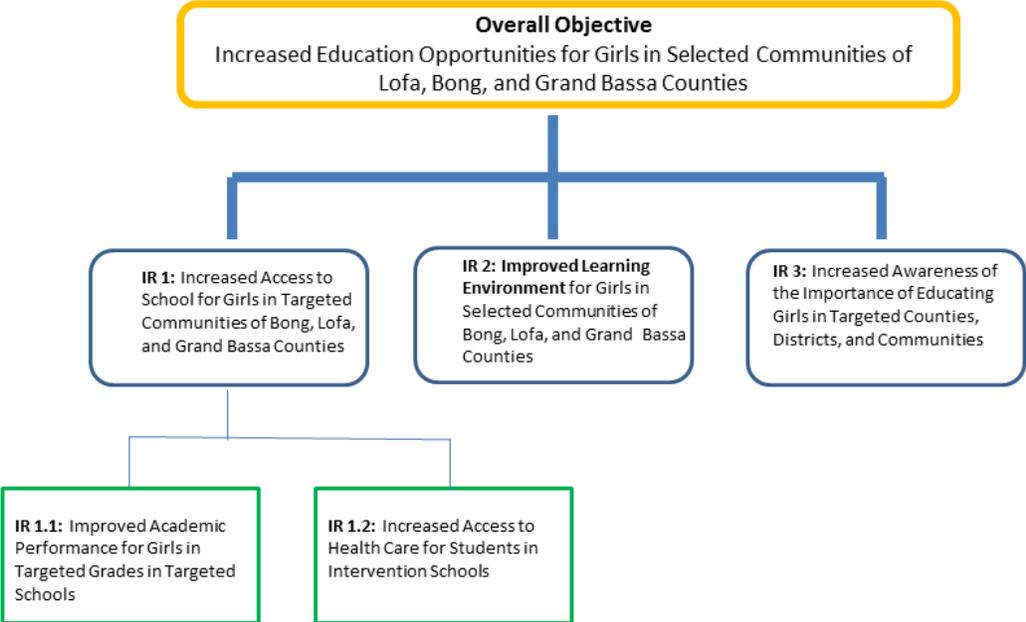
- IR 1.** Increased Access to School for Targeted Communities in Bong, Lofa, and Grand Bassa Counties
- IR 2.** Improved Learning Environment for Girls in Selected Communities of Bong, Lofa, and Grand Bassa Counties
- IR 3.** Increase Awareness of the Importance of Educating Girls in Targeted Counties, Districts, and Communities

Only Result 1 has sub-Intermediate Results, which are:

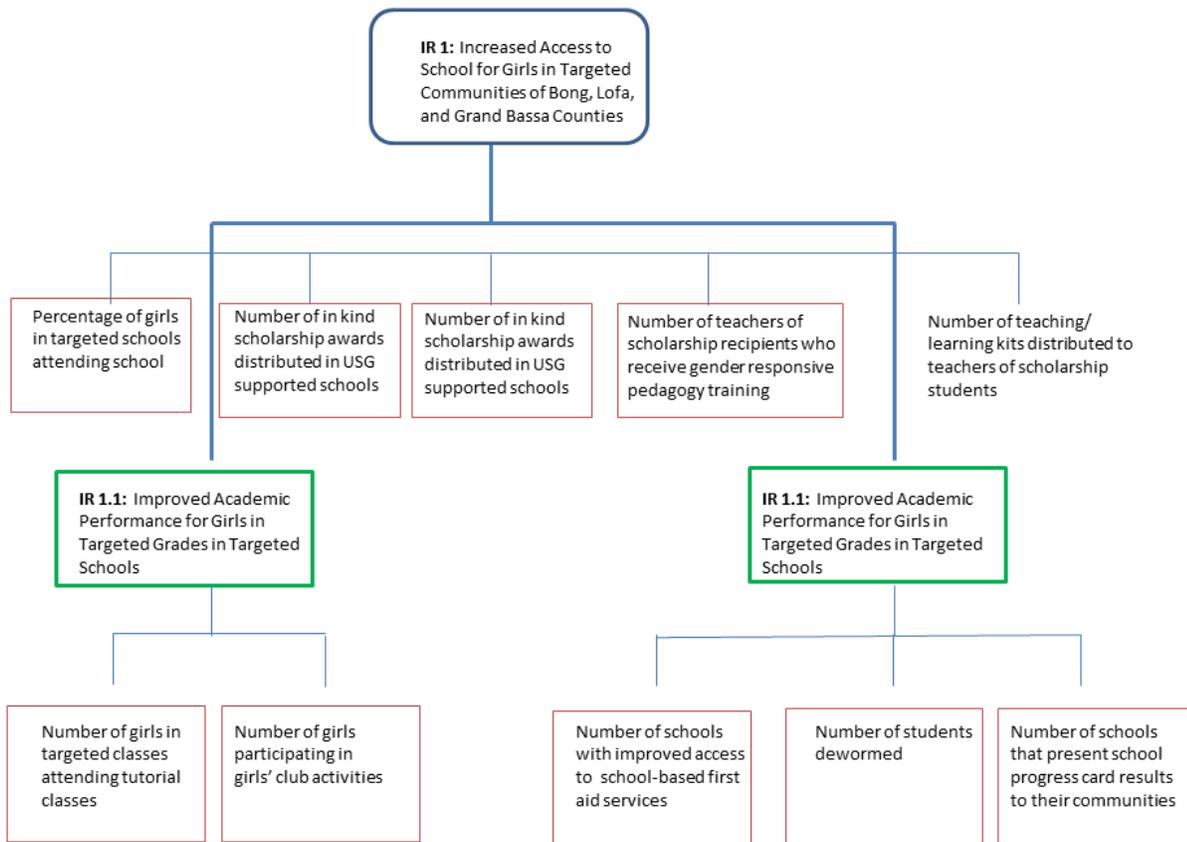
- 1.1 **IR 1.1:** Improved Academic Performance for Girls in Targeted Grades in Targeted Schools
- 1.2 **IR 1.1:** Increased Access to Health Care for Students in Intervention Schools.

The Intermediate Results and sub-Intermediate Results levels have a set of indicators. The Results Framework is presented in the following Figures 1.1, 1.2, and 1.3:

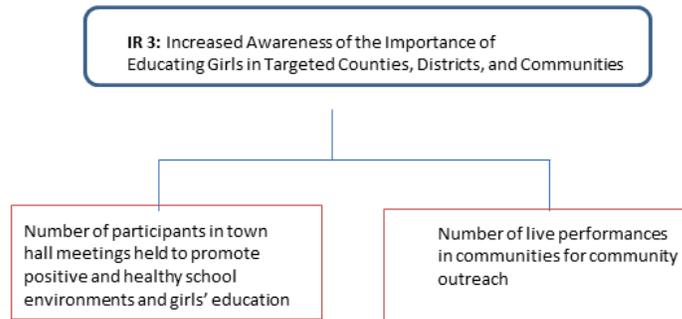
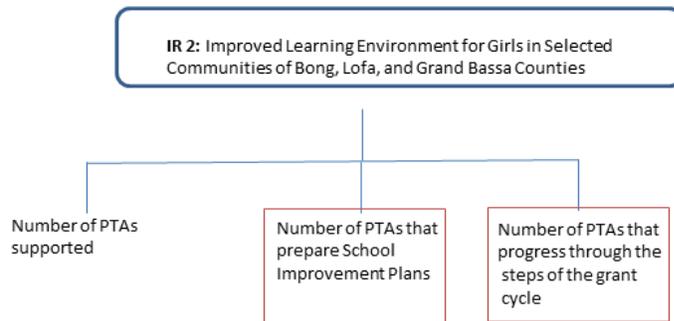
**Figure 0-1: Overall Results Framework**



**Figure 0-2: Intermediate Result 1 with Sub-Results and Principal Indicators**



**Figure 0-3: Intermediate Results 2 and 3 with Principal Indicators**



## 2 METHODOLOGY

### 2.1 THE ROLE OF L-MEP WITH THE GOAL RESEARCH COMPONENT

As is the case for all three MCC Threshold projects, AIR has a large responsibility for data collection, especially since the project was established with a strong research framework. To this end, L-MEP conducts spot checks and data quality assessments under the MCC contract. In addition, L-MEP's role is also to assist in measuring the impact of assistance through the design and implementation of surveys, focus groups, and other appropriate and cost-effective data collection tools for measurement at intermediate points and for the end-of-project evaluation.

In addition to this study that reviews the baseline and annual data sets, as well as the methodology that went into the collection, organization and analysis, L-MEP is tasked with reviewing the qualitative case studies carried out on six schools in the three Liberian counties. Additionally, L-MEP is carrying out this cost sustainability study for a roll-out scenario of girls' education on a countrywide scale.

L-MEP participated in two field studies that supported the qualitative research of the GOAL project. The first study involved carrying out interviews with teachers, students, and parents in the six communities and schools that constitutes the longitudinal qualitative research about girls' participation and non-participation in schooling. This study tracked down girls who had dropped out of school or had never gone to school. The second study looked at the overall school and community environments by conducting in-class observations on students and teachers. That study is entitled "A Qualitative Study of The Environment and Classroom Interactions in GOAL Case Study Schools." The study incorporated a structured observation and coding methodology that rendered considerable quantifiable data. These studies will be discussed in greater detail in the following section.

### 2.2 COMPILATION OF M&E DOCUMENTATION

#### Field Monitoring

Even before the signing of the contract to carry out the MCC Threshold Projects research studies, L-MEP assigned an in-house MCC Coordinator to manage this effort. During the time that the L-MEP MCC Coordinator worked (he left the position in Quarter 1, FY 2013), he fulfilled the role as field monitor. In this role, he accompanied the GOAL staff on numerous field trips, which included visits to all of the six case study schools, as well as a number of other intervention schools.

#### PIDS and the Data Quality Assessment (DQA)

L-MEP's Performance Indicator Database System (PIDS) is a web-based interactive database system in which all of USAID's Implementing Partners enter their data, either quarterly, semiannually, or annually. The MCC Coordinator was in charge of the three MCC-Threshold projects. In this capacity, the Coordinator trained the M&E personnel from the GOAL project, as well as the other two MCC threshold projects. In this role, he became intimately acquainted with the basic M&E operations of the project, including the forms used to collect data, and the various database systems themselves.

The first joint participatory exercise between L-MEP and GOAL took place as part of the DQA process. This was performed in February 2012. After the DQA on GOAL was finished and finalized, L-MEP's MCC Coordinator participated in numerous visits to schools and communities, accompanying the GOAL M&E Specialists.

### **Ethnographic Research**

When L-MEP became formally involved in carrying out the research studies for the MCC, both the Coordinator and the Knowledge Management Specialist (KMS) became intrinsically involved in all phases of the research and fieldwork activities. A great deal of this work included designing the forms and procedures to carry out the research (see below, under Qualitative Methods).

The second intensive fieldwork activity was carried out with GOAL's M&E staff and the AIR researcher assigned from the home office. L-MEP's KMS participated in the research in two of the counties. The researchers focused mostly on interviewing girls, parents, teachers, and team members. Focus group discussions were carried out with data sets drawn from each of these groups.

The third participatory exercise came about rather opportunistically, when a PhD candidate volunteered her time to undertake the lead role in Phase 1 of the ethnographic research on the project. Two Liberian fieldworkers were hired to form part of the teams. The MCC Coordinator participated in the entire study, visiting and carrying out participatory research in all six of the schools/communities. The KMS participated in a subset of these schools.

The fourth research exercise in which L-MEP was involved was in the aforementioned study of school environment and classroom observations. In this study, an American researcher living in Monrovia was hired to develop the instruments and protocols used to conduct the field work for the school environment and classroom interaction study. For this research, the MCC Coordinator participated, along with the Liberian researchers who were previously engaged in the first round of the research. The KMS could not fully participate in the field research, and only was involved with a subset of the schools.

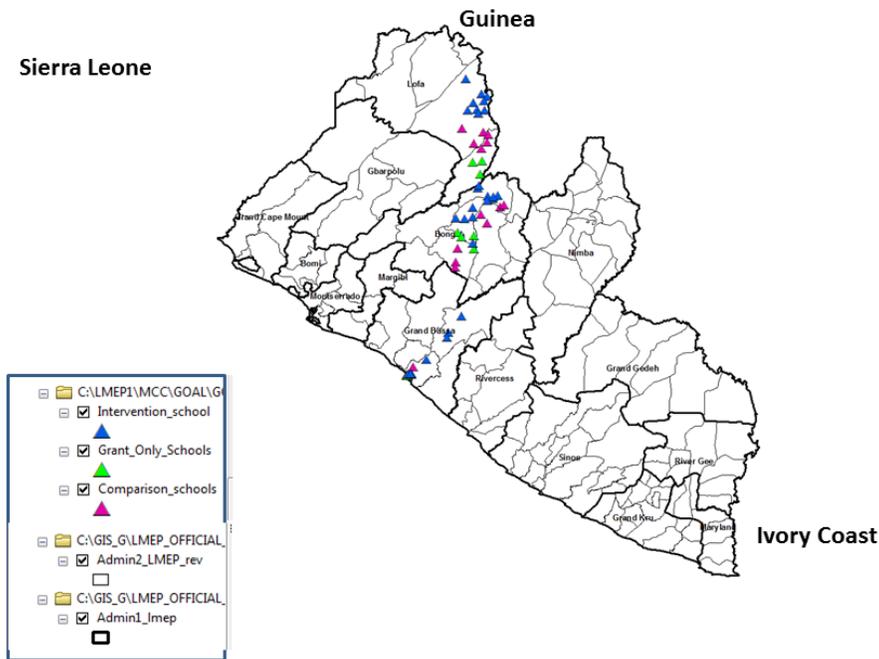
### **Obtaining Data Sets**

Throughout the relationship that L-MEP has had with the GOAL project, repeated access to all of the data being collected has been forthcoming. The Chief of Party was extremely conscientious in sending these data sets, and updating them as new information came in. As part of the Data Quality Assessment, the MCC Coordinator carried out a desk review of all documents relevant to the project, including all forms and instruments dedicated to collecting and compiling the annual school data. He performed a meticulous check on the electronic versions of the dataset in the project office in Monrovia. Since the DQA requires data verification, he made some comparisons between the raw hand-filled forms and the electronic databases.

The GOAL project was very willing to accept suggestions for making modifications to their forms and data collection processes, such as making spot checks at the schools where it was expedient to include new questions, for example on language spoken in the community, etc.

When the GOAL project was closing down, L-MEP was provided with a complete set of all the data sets used in the project. Additionally, a recapitulation of the six case studies was sent to L-MEP, even after the project officially close.

**Figure 0-4 Map Showing GOAL Intervention and Control Schools**



AIR made available to L-MEP detailed cost calculations, including the significant additional costs associated with the project, e.g., the salary and housing for a US professional as the Chief of Party, the rental of an office in Monrovia, and short-term technical assistance from the AIR home office, and general backstop support from AIR, etc. There were many line items associated with the heavily loaded administrative and technical support costs that typically come with the beginning of a new and novel project, including the payment of expatriate salaries and benefits; acquisition of vehicles and equipment; rental costs for adequate office space in Monrovia; in addition to the direct costs associated with project's interventions, i.e., the cost of scholarships themselves. At approximately 90 dollars per girl/year, the amount destined for scholarships reached a formidable sum of disbursed, with a total of 13,132 scholarships granted during the project. There are a number of other cost elements, which are discussed more extensively in Section 4 of this report.

As mentioned below in Section 4, AIR made various calculations of inputs required for supporting schools with varying degrees of girl enrollments. The present analysis incorporated those data into the development of the algorithms used in the econometric modeling linked to the GIS analysis of sustainability scenarios.

From the USAID-LTTP project, L-MEP obtained a complete set of 792 geo-referenced schools that served as the basis to determine costs for maintaining technical support of the Reading First + Math program. The USAID-LTTP personnel derived financial data on costs, as well as other aspects that affect access and mobility to these schools.

Then, the schools were ranked on a scale of difficulty. The details of the procedures are described at greater length in Section 5.

### 3 RESEARCH METHODOLOGY USED IN THE GOAL PROJECT

#### 3.1 CRITERIA USED FOR THE SELECTION OF SCHOOLS

In order to understand how the cost effectiveness of the GOAL Project was determined, a review of the selection of schools is required and the following the background:

After the agreement between AIR and USAID was signed in November 2010, the GOAL project began its startup activities, including making sub-awards to its Liberian partner organizations, FAWE and SFCG. Once the project was staffed up and had secured some logistical flexibility in the field by obtaining space and collaboration in MOE field offices, the project began preparations to conduct a Rapid Assessment (RA).

The GOAL's Rapid Assessment (RA) had two distinct, but connected objectives: (1) to select schools that would either receive GOAL interventions or serve as comparison schools; and (2) to collect baseline data for assessing changes in girl's enrollment and retention at the schools, which would be measured by key indicators, as the interventions were implemented the schools.

AIR is a renowned research institution noted for its robust use of different research approaches to providing evidence-based data for explaining developmental change. In this case, AID developed a set of research questions to guide the design and planning of its research. The questions were designed to identify the most effective model for supporting girls' enrollment and retention in primary schools in Bong, Lofa, and Grand Bassa counties in Liberia. In order to identify the *best* model, AIR had to consider the consequences, efficiency and necessary conditions for each of the three program models. As stated in its document detailing its approach:

1. *Consequences*: To what extent do each program model influence girls' enrollment, attendance, retention, and age-appropriate enrollment?
2. *Efficiency*: What are the overall costs of each intervention and the costs per student? What is the cost efficiency of each program (how much does it cost to increase enrollment by one girl)? What is the effectiveness of each program in relation to increased girls' attendance, retention, and age-appropriate enrollment as a function of the number of student beneficiaries?
3. *Necessary Conditions*: What contextual factors facilitate or hinder the implementation of each intervention and its effectiveness? <sup>5</sup>

AIR's research for the GOAL project was initially intended to be exploratory and descriptive in nature, built upon a quantitative analysis and supplemented by solid qualitative analysis. The supplemental qualitative research relied on periodic visits to the six case study schools in order to provide rich, narrative descriptions on how and why schools, communities, and individuals responded to GOAL interventions in the way that they did. Thus, the qualitative re-

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<sup>5</sup> American Institutes for Research. Technical Application. Document submitted to USAID/ Liberia November 2010.

search was intended to inform to what extent these interventions demonstrated effectiveness in achieving the desired results. The analysis of GOAL's qualitative research is the subject of a separate L-MEP report.<sup>6</sup>

The descriptive statistics collected through survey research were designed to measure the influence the interventions had on the key indicators of enrollment, attendance, retention, and promotion. The comparison schools were also being studied, and served as points of reference to show how schools operate without GOAL program support. In sum, these statistics were expected to:

- guide the selection of program and comparison schools
- provide a baseline on girls enrollment and attendance for monitoring purposes, and for selecting the target grades
- obtain information on student, school, PTA organization, and community conditions in order to inform the program's design

Three counties—Grand Bassa, Lofa, and Bong—were selected by MCC and USAID before the project began. The consortium of local partners worked with a group of MOE representatives to select two districts in each county, and to work with county education authorities to identify potential school clusters for conducting the Rapid Assessment. There were several criteria used in this selection: the level of girls' enrollment; proximity of the schools to one another; similarity of communities in the socioeconomic index; and a critical mass of schools within given clusters. Additional criteria were: there should be a supplementary program in the school, such as a feeding program; there should be a health facility located within a 30 minute walk from the school; and there should be an active PTA. In reality, however, not all schools met this criteria and did not benefit from any of these additional amenities.

A total of 100 schools were visited in the Rapid Assessment. Of these, 40 would be selected for the program and 20 would be selected for the matched comparison set of schools.

With a target of providing 7,050 scholarships over the three years, or an average of 2,350 scholarships annually,<sup>7</sup> it was important to select schools that would have a critical mass of girls enrolled in three consecutive grades. Many of the schools in the RA sample had small student populations and, therefore, the selection of target grades for the program was expanded from three consecutive grades to five (grades two through six).

After the schools were selected, the project staff developed the data collection instruments, under the direction of a senior AIR researcher. The set of instruments used covered mixed methods of data collection, including formal surveys and observational and qualitative methods, for example, through Key Informant Interviews (KII) and Focus Group Discussions (FGD).

The RA took place during February 2011. The data were entered and checked for quality at AIR's home office in Washington, DC. The quantitative data were analyzed using the Statistical Package for the Social Sciences (SPSS). Basic descriptive statistics were run on the survey data. The observational data showed actual attendance at the

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<sup>6</sup> L-MEP (2014). A Review of the Case Studies used in the MCC-GOAL Research Component. Draft to be submitted to USAID under U.S. Agency for International Development Contract No. 669-C-10-00-00181-00.

<sup>7</sup> The target was well exceeded, as 13,132 scholarships were given to girls.

schools to be roughly around 60%, considerably below what school principals reported, which was approximately 80%. During the observations of the schools, teachers were absent approximately 25% of the time.

Teachers, students, and parents were interviewed and were brought together in FGDs to discuss education challenges in the schools. With respect to girls, the principal challenges cited were high dropout rates due to pregnancy, early marriage, no funds for school, and lack of parental support. There is a serious overage student problem; at least 38% of the students are overage for their grade, and sometimes students in their late teens or early twenties were in the primary grades.

In the chart below, it can be seen that a variety of approaches were used to gather data. Interviews were conducted with various actors, including principals, teachers, students, and parents. Focus groups were carried out with PTA members, students, and teachers, and a formal survey was used to gather quantitative data. Direct observation noted the condition of the school, and if there were amenities in the community. School records were scrutinized to look at enrollment, attendance, and promotion. Additional information on costs associated with schooling was also noted. In the chart below, the various research instruments are delineated according to the category of critical actors in the community’s educational arena.

**Figure 3-5: Clip Showing Data Collection Tools used in the Rapid Assessment (Partial)**

	Students	Teachers	Principals	Community Members	Educational System Officials
Interviews	X		X		X
Focus groups	X	X	X	X	
Surveys		X	X		
Direct observation	X	X			
School records			X		X
Cost registers			X		X
Secondary data		X	X		X

There were numerous important criteria to consider in the selection of schools. Perhaps first and foremost was logistics. Reaching schools, especially during the rainy season, can be very challenging and costly. For this reason, one of the sub criteria was accessibility. A second consideration under the logistical dimension was that the schools be clustered to facilitate delivering the various interventions and for monitoring and evaluation purposes. Schools were also selected bearing in mind the proportional number of beneficiaries for each of the three counties.

The next major criterion was the principal school characteristics. This consisted of girls’ enrollment being less than 50%; that the schools had other programs such as teacher training, school feeding, or health programs; that records maintained at the school would be accurate; and, that the school had at least one female teacher. Proximity to a health facility was also a desirable sub criterion. Regarding PTAs, preference was given to those schools where parents had met at least twice in the last year.

The third principal criterion was research potential, since this project was designed to have a heavy investigative component from which conclusions could be drawn. Schools were subjected to a scorecard review in the baseline study, and the composite scores were used to rank the schools, and the ones with the highest ranking were selected for the

program. A second consideration for the research was that there be a sufficient number of girls in a school, or over 20. All of these criteria are summed up in the following table:

**Figure 3-6: Clip Showing School Selection Criteria**

	Definition	
Logistical Considerations	<i>Intervention Schools:</i> 16 Schools in Bong 12 Schools in Grand Bassa 12 Schools in Lofa  <i>Comparison Schools:</i> 8 Schools in Bong 6 Schools in Grand Bassa 6 Schools in Lofa	
	Clustered†	
	Accessibility*	All schools can be reached by motorcycle or jeep 12 months per year
	Similar Numbers of Beneficiaries in Each County†	Schools were selected with number of beneficiaries in the county in mind
School Characteristics	Girls' Enrollment*	Girls make up less than 50 percent of enrollment in the targeted grades
	Complementary School Support**	Preference given to schools that have other programs available to either teachers, children, or community members (e.g., Liberia Teacher Training Program [LTTP] teacher training, school feeding, or health programs)
	Accurate School Records*	School keeps up-to-date attendance sheets on file
	Presence of Female Teachers**	Preference given to schools that have at least one female teacher in the primary grades
	Proximity to Health Facilities**	Preference given to schools that have health facilities within a 30 minute walk to the school
	Parent Teacher Associations**	Preference given to PTAs that have held at least two meetings in the last year
Research	Rank†	Schools within clusters that are ranked highest receive the program. To recreate the program school in-county frequency distribution, comparison school ranks were used for school selection
	School size†	Schools with 20 or fewer girls enrolled were not selected due to perceived low cost/benefit.

Depending on their degree of importance for the study, the criteria were given distinct weighted values to aid in computing scores leading to the selection process. Figure 3.3 below shows this:

**Figure 3-7 Clip Showing Differential Weight Factors applied to Key Selection Criteria**

Key Criteria	Weight
Accessible during rain	0.33
Low girls' enrollment	0.33
Keeps school records	0.33

Preferred Criteria	Weight
Has other programs*	0.2
Has a female on staff	0.4
Health facility accessible within 30 minute walk	0.3
Has an active PTA	0.1

There were numerous instruments used to collect information from the various actors in the communities' educational arena—school principals, teachers, students, parents, and PTA members. These instruments, and the design and construction of their respective databases, are examined in the report, “A Review of the Baseline and Annual Data used in the MCC-GOAL Research Component” that is part of the series of investigative studies L-MEP carried out on the GOAL Project. There is a lot of detail involved in that examination that is not included here. What is important is to know that the ranking procedures used to select schools and to place them in the three intervention categories, as well as to select the commensurate set of comparison schools, were analyzed as part of the research component. This is described in the following section.

**3.2 RANKING AND FINAL SELECTION OF INTERVENTION AND COMPARISON SCHOOLS**

With all the data collected and compiled through the various instruments, each school generated a very rounded profile, leading to a solid base on which to conduct the regular M&E work so important to the research design. The next step involved ranking the schools in terms of desirability for the program, and into which category the schools would fall. For example, would they be placed in the grant only category, the scholarship only category, or would they fall in the scholarship plus grant category? Then, there was the matter of the comparison schools. They needed to be ranked also so that they could be matched with a counterpart intervention school.

The following two figures show how the schools were ranked for selection. The two panels really form one spreadsheet, but have been split in order to enhance readability. The first panel provides the identifying information for the schools, but it also shows what its “old rank” was, based on a non-weighting of the variables used in the selection criteria.

**Figure 3-8 Clip Showing Selected Program Intervention Schools showing Original Ranking and Revised Ranking (Partial)**

<b>Bong</b>							
	Old Rank	Form ID	School name	EMIS ID	District	School Population	Girls' Enrollment
S+G	6	209	William R.Tolbert School	616024	1	237	98
S+G	17	208	Gbokew Kollie Pulic	616025	1	120	38
S+G	19	202	Nuarpah/Waterside Elem.	616035	1	103	38
S+G	32	203	Gorpu Dolo Elem High	616022	1	233	98
S+G	41	214	Warta Charity	616030	1	49	22
S+G	78	217	Geita Public Sch.	616032	1	82	37
S+G	80	215	Kollieta Public Sch.	616021	1	111	50
S+G	83	207	Paye-ta Pulic Sch	616028	1	46	18
	88	229	Togbah Kollie bor Elem.Sc	616016	1	42	26
	17	216	Sinneh-Ta Public Sch	616036	1	23	6
	73	213	Joseph k.Paye	616027	1	53	7
Comparison	23	212	Yowee Public School	616020	1	95	33
Comparison	53	206	Kpai Pulic School	616042	1	134	57
Comparison	95	201	Kpoloya Public School	616017	1	65	29
Comparison	37	218	Diabolo Public School	1110001	1	226	112
Comparison	97	211	Gbelekpalia Pulic School	616002	1	95	51
Comparison	91	228	Meteelibo Pub. Sch	616010	1	71	25
Scholarship	19	227	Kayata Pub. Sch.	614007	2	174	55
Scholarship	23	222	Raymon town Pub. Sch.	614028	2	91	39
Scholarship	69	224	Gokai Pub. Sch.	614043	2	157	68
Scholarship	81	230	Galai Pub. Sch.	614016	2	58	25
	81	231	Balama Pub.Sch.	614004	2	137	46
Grant	27	221	John P.Mitchel Elem Jr	614018	2	178	84

The second panel in the figure below has in the first column a "required field's index." In the initial ranking process, there was a lack of discriminatory power between the variables considered, which were derived from all the forms used to collect the data in the RA. This lack of discriminatory power can be seen in the second column, which is a ranking of the original variables. As a consequence of this lack of discriminating power, the MCC research and evaluation specialist assigned to the Liberia Threshold projects insisted that some of the variables be discarded, as they were bringing in confounding influences. Furthermore, she insisted that a weighting scheme had to be instituted. Thus, in the third to the last column, one can see that there is a "preferred fields index." In the column that follows, the ranking based on this criterion clearly shows that there is a discriminating aspect occurring. Consequently, this made it easier to rank the schools.

**Figure 3-9 Clip Showing Selected Program Intervention Schools with Original Ranking and Revised Ranking (Partial)**

Required fields index	Required Fields Rank	Other projects	Female presence	Health facility	Active PTA	Preferred fields Index	Preferred Fields Rank	Total index
0.99	1	0.454545	1	1	1	0.945455	11	0.974409
0.99	1	0.545455	1	0	1	0.654545	39	0.872591
0.99	1	0.454545	1	0	1	0.645455	41	0.869409
0.99	1	0.636364	0	1	1	0.563636	61	0.840773
0.99	1	0.272727	1	0	0	0.427273	74	0.793045
0.99	1	0.363636	1	0	0	0.436364	72	0.796227
0.99	1	0.272727	1	0	0	0.427273	74	0.793045
0.99	1	0.090909	1	0	0	0.409091	81	0.786682
0.66	83	0.454545	0	0	1	0.245455	86	0.514909
0.99	1	0.545455	1	0	1	0.654545	39	0.872591
0.99	1	0.181818	0	0	0	0.018182	100	0.649864
0.99	1	0.272727	1	0	1	0.627273	49	0.863045
0.99	1	0.272727	1	1	1	0.927273	22	0.968045
0.99	1	0.636364	0	0	0	0.063636	96	0.665773
0.99	1	0.636364	1	0	0	0.463636	67	0.805773
0.66	83	0.363636	0	0	0	0.036364	97	0.441727
0.99	1	0.181818	0	0	1	0.218182	94	0.719864
0.99	1	0.454545	1	0	1	0.645455	41	0.869409
0.99	1	0.272727	1	0	1	0.627273	49	0.863045
0.99	1	0.363636	1	0	1	0.636364	45	0.866227
0.99	1	0.181818	1	0	0	0.418182	78	0.789864
0.99	1	0.181818	1	0	0	0.418182	78	0.789864
0.99	1	0.181818	1	0	1	0.618182	55	0.859864

With the ranking completed, the final selection of the intervention schools was made. In the following clip, it can be seen that the schools are clustered into the various intervention categories. The second column shows the ranking index.

**Figure 3-10 Clip Showing Selected Program Intervention Schools**

Program	Rank	County	School
Scholarship + Grant	6	Bong	William R. Tolbert School
Scholarship + Grant	17	Bong	Gbokew Kollie Public School
Scholarship + Grant	19	Bong	Nuarpah/Waterside Elementary
Scholarship + Grant	32	Bong	Gorpu Dolo-boi Elem High School
Scholarship + Grant	41	Bong	Warta Charity School
Scholarship + Grant	78	Bong	Geita Public School
Scholarship + Grant	80	Bong	Kollieta Public School
Scholarship + Grant	88	Bong	Togbah Kolliebor Elementary School
Scholarship + Grant	11	Grand Bassa	Lower Hardlandsville School
Scholarship + Grant	29	Grand Bassa	Kpanay Town Public School (PM)
Scholarship + Grant	58	Grand Bassa	Kpanay Town Public School (AM)
Scholarship + Grant	53	Grand Bassa	Bless Elementary School
Scholarship + Grant	57	Grand Bassa	Hope KG & Elementary School
Scholarship + Grant	65	Grand Bassa	Tubmanville School
Scholarship + Grant	1	Lofa	Borkeza Public School
Scholarship + Grant	37	Lofa	Zuwulor Public School
Scholarship + Grant	37	Lofa	Boi Public School
Scholarship + Grant	47	Lofa	Konia Garbo School
Scholarship + Grant	59	Lofa	Zelemai Public School
Scholarship + Grant	59	Lofa	Wakesu Public School
Scholarship	19	Bong	Kayata Public School
Scholarship	23	Bong	Raymond Town Public School
Scholarship	69	Bong	Gokai Public School
Scholarship	81	Bong	Galai Public School
Scholarship	19	Grand Bassa	Saturday Town Public School
Scholarship	33	Grand Bassa	Barseegieh Public School
Scholarship	34	Grand Bassa	Boe-glay Public School
Scholarship	41	Lofa	Ziggida Public School
Scholarship	61	Lofa	Nekebuzu Public School
Scholarship	67	Lofa	Kpassagiza Public School
Grant	27	Bong	John P. Mitchell Elementary Jr High
Grant	76	Bong	Dornayanutah Public
Grant	83	Bong	Gwetamue Public School
Grant	100	Bong	Yardawoun Public School
Grant	6	Grand Bassa	Al-Nasru Islamic School
Grant	3	Grand Bassa	Bassa Demonstration School
Grant	69	Grand Bassa	William V. S. Tubman (AM)
Grant	6	Lofa	Gorlu Elem & Jr. High School
Grant	30	Lofa	Gbonyea Public School
Grant	49	Lofa	Gleh Public School

Likewise, the comparison schools, with the adjusted ranking order, were selected as shown in Figure 3.7:

**Figure 3-11 Clip Showing Selected Comparison Schools**

	Rank	County	School
Comparison	23	Bong	Yowee Public School
Comparison	23	Bong	Pengai Public School
Comparison	37	Bong	Diabolo Public School
Comparison	41	Bong	Garyea Public School
Comparison	69	Bong	Kokormah Public School
Comparison	91	Bong	Meteeكليبو Public School
Comparison	95	Bong	Kpoloya Public School
Comparison	97	Bong	Gbelekpalia Public School
Comparison	6	Grand Bassa	John W. Foster School
Comparison	6	Grand Bassa	Willie C. Peters School
Comparison	27	Grand Bassa	Benson River Elementary School
Comparison	34	Grand Bassa	Joseph M. N. Gbadyu School
Comparison	53	Grand Bassa	Water Tower Community School
Comparison	53	Grand Bassa	Autumn Kings School
Comparison	3	Lofa	Salayea Public School
Comparison	12	Lofa	Sumo Kota Public School
Comparison	30	Lofa	Guzeh Public School
Comparison	36	Lofa	Tailemai Public School
Comparison	45	Lofa	Flomo Respect Memorial School
Comparison	47	Lofa	Gbanway Public School

### 3.3 SUMMARY OF THE RESULTS OF THE GOAL PROJECT

Much of the information in this section derives from AIR's End-of-Project report that was shared in advance with L-MEP as part of the close collaborative research the two institutions have been carrying out together. The final version was submitted to USAID in March.

There were significant outcomes that emerged from the three year experimental model, which are taken verbatim from the Endline Research Findings:

**I. A 25 percent increase in girls’ enrollment (3,493 girls)**

In the final year of the project, girls’ enrollment in Grades 2–6 in all 40 program schools increased from 2,794 to 3,443 girls, which was 23.2 percent higher than the baseline and slightly under the 25 percent target. Enrollment increased by 28.0 percent in scholarship-only schools, and 49.0 percent in grant and scholarship schools, but grant-only schools experienced a decline of 17.8 percent overall. (In the comparison schools—which did not receive any GOAL supports—enrollment declined by 19.5 percent.)

**II. A 25 percent increase in the number of girls who successfully complete their grade (1,847 girls)**

In June 2011 (the baseline year), 1,464 girls in Grades 2–6 in the 40 program schools successfully completed the school year. In June 2013, 2,314 girls completed the year, an increase of 53.1 percent, which is far above the 25 percent completion target. Promotion rates, however, were lower. Among the cohort of 985 girls who received scholarships in May 2011 as second, third, or fourth graders, many repeated grades. Only 28.8 percent of the girls in the cohort were promoted in two successive grade levels and years.

**III. An increase of 5 percentage points (to 63.2 percent) in the attendance rate of girls in Grades 2–6**

The attendance rate for all 40 schools increased by 10.3 percentage points, from 57.2 percent to 67.5 percent, which exceeded the 5 percent target.

**Impacts on School Conditions**

In addition to impact on student outcomes, the AIR researchers examined changes in school characteristics from the baseline to the endline across program and comparison schools. They found that GOAL schools generally had higher scores than comparison schools for both physical school quality, water and hygiene; that the differences were more apparent for the schools that received both scholarship and grants; and the scores were more pronounced for water and hygiene. In addition, GOAL schools also appeared to have more visible notebooks, pencils, and textbooks relative to comparison schools.

The following table summarizes enrollment and completion data that was compiled just before the close of the project. Figure 3-8 shows data for all three counties by the different types of interventions, beginning with the baseline and continuing through the end of the year 2013. The data for all of the schools are summed up in the lower part of

the table. As can be seen, there are distinct gains in the schools with interventions, with the exception of the Grant Only schools.

**Figure 3-12 Enrollment and Completion Rate of Girls in Grades 2 to 6 Eligible for Promotion by County and Intervention Model from the 2010/2011 to the 2012/2013 Academic Year**

County	2010 / 2011 Academic Year		2011/2012 Academic Year		2012/2013 Academic Year	
	Enrollment Feb 2011 (Baseline)	Girls Eligible for Promotion (in percentage)	Enrollment September 2011 (percentage change over baseline)	Girls Eligible for Promotion (in percentage)	Enrollment September 2012 (percentage change over baseline)	Girls Eligible for Promotion (in percentage)
<b>All Program Schools</b>	<b>2,794</b>	<b>1464(52.4%)</b>	<b>2841 (+1.7%)</b>	<b>1,853 (65.2%)</b>	<b>3,443 (+23.2%)</b>	<b>2,314 (67.2%)</b>
<b>Bong</b>	<b>633</b>	<b>322(50.9%)</b>	<b>677 (+7.0%)</b>	<b>416 (61.4%)</b>	<b>722 (+14.1%)</b>	<b>472 (65.4%)</b>
Sch+Gr(Tutorial)	176	117(66.5%)	179 (+1.7%)	128 (71.5%)	229 (+30.1%)	154 (67.2%)
Scholarship + Grant	138	68(49.3%)	182 (+31.9%)	124 (68.1%)	166 (+20.2%)	99 (59.6%)
Scholarship only	132	58(72.9%)	150 (+13.6%)	68 (45.3%)	155 (+17.4%)	113 (72.9%)
Grant only	187	79(42.2%)	166 (-11.2%)	96 (57.8%)	172 (-8.0%)	106 (61.6%)
<b>Grand Bassa</b>	<b>1,004</b>	<b>607(60.5%)</b>	<b>1,065 (+6.1%)</b>	<b>701 (65.8%)</b>	<b>1,407 (+40.1%)</b>	<b>961 (68.3%)</b>
Sch+Gr(Tutorial)	271	149(55%)	313 (+15.5%)	229 (73.2%)	408 (+50.6%)	326 (79.9%)
Scholarship + Grant	271	183(67.5%)	318 (+17.3%)	236 (74.2%)	566 (+108.9%)	349 (61.7%)
Scholarship only	66	39(59.1%)	72 (+9.1%)	43 (59.7%)	80 (+21.2%)	43 (53.8%)
Grant only	396	236(59.6%)	362 (-8.6%)	193 (53.3%)	353 (-10.9%)	243 (68.8%)
<b>Lofa</b>	<b>1,157</b>	<b>535(46.2%)</b>	<b>1,099 (-5.0%)</b>	<b>736 (67.0%)</b>	<b>1,314 (+ 13.6%)</b>	<b>881 (67.0%)</b>
Sch+Gr(Tutorial)	374	190(50.8%)	395 (5.6%)	251(63.5%)	580 (+55.1%)	375 (64.7%)
Scholarship + Grant	244	119(48.8%)	242 (-0.8%)	147 (60.7%)	248 (+1.6%)	109 (44.0%)
Scholarship only	153	82(53.6%)	194 (+26.8%)	132 (68.0%)	214 (+40.0%)	172 (80.4%)
Grant only	386	144(37.3%)	268 (-30.6%)	206 (76.9%)	272 (-29.5%)	225 (82.7%)
<b>By Intervention Model</b>						
<b>Sch+ Grant (ALL)</b>	<b>1,474</b>	<b>826(56.0%)</b>	<b>1,629 (+10.5%)</b>	<b>1,115 (68.4%)</b>	<b>2,197 (+49.1%)</b>	<b>1,412 (64.3%)</b>
Sch+Gr -Tutorial	821	456(55.5%)	887 (+8.0%)	608 (68.5%)	1,217 (+48.2%)	855 (70.3%)
Sch+Gr -No tutorial	653	370(56.7%)	742 (+13.6%)	507 (68.3%)	980 (+50.7%)	557 (56.8%)
Scholarship only	351	179(51.0%)	416 (+18.5%)	243 (58.4%)	449 (+27.9%)	328 (73.1%)
Grants only	969	459(47.4%)	796 (-17.9%)	495 (62.2%)	797 (-17.8%)	574 (72.0%)
<b>Comparison Schools</b>	<b>1,218</b>	<b>700(57.5%)</b>	<b>1,133 (-7.0%)</b>	<b>630 (55.6%)</b>	<b>981 (-19.5%)</b>	<b>521 (53.1%)</b>

SOURCE: Report on Endline Research Findings (op. cit.)

Figure 3.8 shows the largest gain is in the schools that received scholarships and grants. When this group is broken down for comparative purposes, i.e., girls who were in the tutoring program and those who were not, the schools that had the tutorial program, when added to the scholarships and grant interventions, gained the most in terms of both enrollment and promotion at the end of the program.

For those schools that received grants only, the pattern was mixed. There was a noticeable drop in the enrollment over the baseline, yet there was an inverse pattern of increase in promotions. In fact, with the other types of interventions that included scholarships, the changes in both enrollment and promotion are remarkable.

What costs were incurred to achieve these results? In order to derive answers to the many questions associated with the results stemming from the various intervention models, supplementary programs, magnitude of scale of differentiating schools, etc., AIR conducted an in-depth cost effectiveness study. The results of this analysis are officially forth-

coming in the final reports to be submitted to USAID and MCC, but based on the drafts which were shared with L-MEP, an overview of some of the salient features of the GOAL Project's costs are presented in the following Section 4.

## 4 AIR'S COST EFFECTIVENESS ANALYSIS

### 4.1 PRIMARY COST ELEMENTS IN THE GOAL PROJECT

Much of the findings below are taken directly from AIR's draft report, which was shared with L-MEP, and L-MEP has permission to use the findings in this analysis of sustainability of the model.

AIR's draft Endline Research Results<sup>8</sup> report delineates the significant costs in implementing the various models of the GOAL Project that include:

- Scholarships to girls totaled 13,132.
- A total of 1,136 teacher kits, which included items such as dictionaries, calculators, chalk, and other supplies.
- Gender-Responsive Pedagogy training for teachers, mentors, and PTA members, which covered developing gender-responsive lesson plans, materials, and classroom set-up; using gender-responsive language in the classroom; and preventing and addressing sexual harassment.
- Girls' Clubs, which were established and designed to provide girls direct support in addressing school-related difficulties. (Girls' Club mentors received a small stipend and were provided direction about the operation of the clubs.)
- Capacity Building and Grants (10 schools) for PTAs to mobilize communities.
- Community outreach and awareness programs: town hall meetings, drama performances, and radio messages and skits. This intervention sought to create an environment supportive of radio messages and skits to create an environment supportive of girls' education in all program schools and catchment areas.
- Health Interventions:
  - First aid kits were provided to 39 GOAL program schools.
  - Two teachers (78) from each school received training in first aid.
  - A total of 142 teachers, PTA members, and Girls' Club mentors, in schools with supported Girls' Clubs, participated in "Water, Sanitation, and Hygiene" (WASH) training.
  - Age-appropriate training on HIV and AIDS and reproductive health was given for 221 participants, and 187 participants, including principals, clinic staff, and community health volunteers, were trained in classroom reproductive health activities.
  - GOAL provided bacteriological testing and treatment of drinking water points in all 40 targeted communities.

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<sup>8</sup> Ibid.

- Funds were provided for additional programs, including community engagement and media outreach to all 40 schools, regardless of the intervention model, to raise awareness about topics central to GOAL’s mission. As a part of GOAL’s community engagement strategy, radio messages were broadcast in English, Lorma, Kpelle, and Bassa.

The costs mentioned above are associated with direct application of the interventions at the school level. However, there are significant additional costs associated with the project, including the salary and housing of a US professional as the Chief of Party; the rental of an office in Monrovia; and periodic short-term technical assistance from the AIR home office; and general backstop support from AIR. It needs to be mentioned, however, that AIR put forth considerable funds of its own, especially in the research component, in the interest of seriously testing the model and because of a high degree of commitment to further education in Liberia.

#### **4.2 AIR’S SUMMARY ANALYSIS**

Again, this section is taken from the AIR draft Endline Research Results report shared with L-MEP for use in the present study. The following segment is taken directly from the draft report.

To estimate the cost associated with an outcome (e.g., increasing enrollment by one girl) for each intervention model, we analyzed the costs of the three GOAL intervention models relative to their impacts on girls’ outcomes. The lower the cost for a given outcome, the more cost effective the intervention is (in terms of its effect on that particular outcome).

The resulting data on costs and cost effectiveness are summarized below:

- The average annual cost of providing GOAL support to an individual school ranged from \$8,175 for a grant-only school to \$19,082 for a grant and scholarship school.
- The total annual cost of providing the interventions, including administrative expenses, ranged from \$65 per girl at grant-only schools to \$199 per girl at grant and scholarship schools. (Grants were \$1,000 per school, and scholarships payments to cover school fees averaged about \$62 per girl.)
- In an average school with an enrollment of 100 girls, increasing enrollment by one girl had an associated cost of \$1,089 at grant-only schools, \$415 at scholarship-only schools, and \$531 at grant and scholarship schools. Although providing both grants and scholarships had a greater impact on enrollments, it appears that efforts to provide grants and community mobilization in addition to scholarships were not cost effective in terms of increasing girls’ enrollment.
- The patterns of cost effectiveness for enrollment also applied to completion and promotion outcomes: Scholarships were more cost effective than grants.

The costs associated with staff traveling to schools to provide training and other activities represented a significant expense for the GOAL program and outweighed the direct costs of providing grants, scholarships, or materials to schools. Staff costs represented about 51 percent of total program costs and were highest (77 percent of total costs) at grant-only schools and lowest (47 percent) at grant and scholarship schools. These costs reflect the considerable ef-

forts required to travel to schools, provide the necessary training and support to school personnel, and work with girls' families within communities to encourage girls to participate and succeed in primary education.

#### **4.3 DETAILS OF AIR'S COST EFFECTIVENESS DATA ANALYSIS**

AIR developed a template for obtaining the financial information from the GOAL project. This effort constituted a very detailed activity-by-activity breakdown amounting to 18 pages. It was an arduously time-consuming effort that involved the entire GOAL staff for over a week. Subsequently, AIR economists developed spreadsheets for different aspects of the project in order to obtain specific cost per school information. To provide an overview of the cost rubrics that were analyzed, the following series of figures are presented. Note that, because the information is still proprietary, and will be released to USAID/MCC as its Final Report, screen shots of the databases include the rubrics in the templates only, and actual figures are omitted.

**Figure 4-13 Clip Showing Line Item Breakdown of Scholarship Costs per School (Partial)**

Activity/Material	Per	Frequency	Typical Cost	Low Range	High Range
School Fees	Girl	Annually			
1st grade in-kind packages	Girl	Annually			
2nd-6th grade packages	Girl	Annually			
<b>Subtotal</b>	<b>Girl</b>	<b>Annually</b>			
Teacher's kit 1	Teacher	Annually			
Teacher's kit 2	Teacher	Annually			
Teacher's kit 3	Teacher	Annually			
<b>Subtotal</b>	<b>Teacher/Class</b>	<b>Annually</b>			
Package	School	Annually			
Additional materials per school	School	Annually			
In-county disbursement	School	Annually			
Distribution from Monrovia to counties	School	Annually			
Girls' Club & mentor training	School	Annually			
Staff per diem for awarding best-performed girls	School	Annually			
Local staff salaries and benefits	School	Annually			
FAWE salary and benefits	School	Annually			
<b>Subtotal</b>	<b>School</b>	<b>Annually</b>			
<b>Grand Total</b>	<b>School</b>	<b>Annually</b>			

**Figure 4-14: Clip Showing Line Item Breakdown of Grant Costs (Partial)**

Activity/Material	Per	Frequency	Typical Cost	Low Range	High Range
Grant	School	Annually			
Materials left behind	School	Annually			
Site visits made by Monrovia based staff	School	Annually			
Local staff salaries and benefits	School	Annually			
FAWE salaries and benefits	School	Annually			
<b>Grand Total</b>	<b>School</b>	<b>Annually</b>			

**Figure 4-15 Clip Showing Line Item Breakdown of Town Meeting Costs (Partial)**

<b>Activity/Material</b>	<b>Per</b>	<b>Frequency</b>	<b>Typical Cost</b>	<b>Low Range</b>	<b>High Range</b>
Snacks and other materials for community members	School	Annually			
School progress card	School	Annually			
Community mobilization to register children	School	Annually			
Materials used across meetings	School	Annually			
SFCG budget for communication	School	Annually			
<b>Grand Total</b>	<b>School</b>	<b>Annually</b>			

**Figure 4-16 Clip Showing Line Item Breakdown of Health Activities Costs  
(Partial)**

Activity/Material	Per	Frequency	Typical Cost	Low Range	High Range
First aid	school	Once for project			
Reproductive health posters(sets)	school	Once for project			
Health manual (set)	school	Once for project			
First aid manual	school	Once for project			
Water testing	school	Once for project			
Posters and flyers left behind	school	Once for project			
School-based First-aid training	school	Once for project			
School-based WASH training	school	Once for project			
Refresher training	school	Once for project			
Reproductive health classroom activities manual	School	Once for project			
Sporting goods	School	Once for project			
Local staff salaries and benefits	School	Once for project			
<b>Total</b>	<b>School</b>	<b>One-time only</b>			
Reproductive health training for Girls' Club mentors and leaders	County	Once for project			
Reproductive health training for teachers	County	Once for project			
Sports and WASH activities	County	Once for project			
<b>Total</b>	<b>County</b>	<b>One-time only</b>			
<b>Consultant to develop training</b>	<b>Entire project</b>	<b>Once for project</b>			
<b>Grand Total</b>	<b>School</b>	<b>Annually</b>			

**Figure 4-5 Clip Showing Line Item Breakdown of Pedagogy Costs  
(Partial)**

Activity/Material	Per	Frequency	Typical Cost	Low Range	High Range
Ongoing monitoring of the gender sensitive pedagogy activities	School	Annually			
FAWE salaries and benefits	School	Annually			
<b>Total</b>	<b>School</b>	<b>Annually</b>			
Training teachers and principals in Gender Sensitive Pedagogy	School	Once per project			
<b>Total</b>	<b>School</b>	<b>Once per project</b>			
<b>Grand Total</b>	<b>School</b>	<b>Annually</b>			

**Figure 4-6 Clip Showing Line Item Breakdown of Pedagogy Costs (Partial)**

Activity/Material	Per	Frequency	Typical Cost	Low Range	High Range
Tutors' stipends	School	Annually			
Tutor-training	School	Annually			
FAWE salaries and benefits	School	Annually			
<b>Grand Total</b>	<b>School</b>	<b>Annually</b>			

There are many ways to boosting girls' participation in schooling, as has been amply explored and documented by the GOAL project. And, the costs of doing so can be significant, especially if international technical assistance plays a role. The various rubrics that compose an intervention, such as implementing a school grant or instituting a scholarship package are many and complex, as has been seen in the preceding series of panels.

Supposing that Liberia's MOE will want to expand the model to rural schools, and assuming there are funds to do so, most likely with donor assistance, a different set of strategies would be required. The intellectual capital is largely developed, and is part of the USAID-MCC transfer of bilateral assistance. But a whole series of mechanisms would have to be established to institute the model on a larger scale. The MOE structure and processes, which are on a decentralization track, would have to be refined in order to accommodate, internalize, and expand a strategy to focus on enhancing girls' enrollment, promotion, retention, and attendance in school. These areas are far beyond the scope of this

study. For all practical purposes, it is assumed this would happen in a best-case scenario. Additionally, the MOE will have access to the details from the GOAL project's cost effectiveness report.

This study focuses on taking some of the analyses in the cost effectiveness study and examining them in the context of the field logistics costs, and then creating geospatial models that allows for a projection of costs to the bulk of the schools located in the five rural counties that fall within the “priority corridors”, which are considered for development focus by the Government of Liberia and USAID. The concept and methodology are laid out in the following section.

## 5 SCALING UP OF THE COST EFFECTIVENESS MODEL

### 5.1 OVERVIEW OF THE GEOSPATIAL MODEL USED TO GENERATE A COST EFFECTIVE APPROACH TO SCALING-UP A GIRLS' EDUCATION PROGRAM

Since its inception as a USAID project, L-MEP has developed a sophisticated GIS platform for use by USAID and its implementing partners to enhance monitoring and evaluation of a set of development objectives in Liberia. L-MEP uses two platforms of GIS: (1) a stand-alone system driven by ArcGis™ version 10.1, and (2) a web-based GIS platform developed by Stone Environmental, Inc.<sup>9</sup> L-MEP's GIS is compatible with the ArcGis standalone system, and also a software platform developed by the leading GIS industry standard firm, Environmental Systems Research Institute (ESRI).

The Web-based Mapping System (WMS) allows USAID staff and implementing partners' staff to access and manipulate geographical phenomena and thematic information. The map system is driven by numerous digital "layers" of cartographic data and informatics. These "layers," also known as "shape files" to users of the ESRI Arc family, encode digital data on the political/administrative boundaries of Liberia, as well as specific site data that include district and county capitals, and all populated settlements in the country. L-MEP has incorporated demographic data down to the site level into both systems.

In addition to political and demographic information, there are numerous layers of natural resource and geographical phenomena such as rivers and topography that can be obtained as *de facto* public domain property. In L-MEP's dual GIS systems, land use layers and topography layers are also incorporated, and the project has obtained and modified a number of other data sets including: location of the Ministry of Health facilities (by categorical type); the Ministry of Education's registered schools in the country (public, community, private); electoral registration centers, and so on. There are a number of additional layers, too numerous to detail here, but L-MEP has these data for use in analysis and development planning by USAID.

L-MEP has developed its own sets of geo-referenced data from the community of USAID implementing partners. For example, in addition to the geo-referenced data file of the national school system, L-MEP has obtained data from specific USAID projects that operate at school sites. A great deal of effort has been spent by L-MEP to validate the data sets, particularly those that come from government sources that are outdated, e.g., the original files obtained from the Government of Liberia (GoL) through its Liberian Institute for Statistics and Geospatial Systems (LISGIS).

In order to create viable pathways to the make scaling up of girls' education in Liberia as financially feasible as possible, L-MEP developed a multi-method approach to construct a geo-spatial model that incorporates cost data. Basically, the model carries with it some assumptions, the principal one being that training, continued capacity building, and supervision needs to be done in schools. This means that teachers in the schools chosen for the program will be visited on a regular basis by some team technician, supervisor, or coach, whatever the nomenclature happens to be. Another assumption is, in order to maintain costs of capacity building, coaching, supervisory visits at the most efficient level, the schools will be somewhat proximal, or within clusters. The trainer-coach-supervisor will likely have a scheduled round of visits to the schools within his or her assigned cluster. These visits involve certain costs in the form of transportation and food, principally, but there are additional incidental expenses that occur, as explained further below.

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<sup>9</sup> Stone Environmental, Inc. is a sub-contractor to The Mitchell Group on the USAID/L-MEP project, and specializes in GIS applications worldwide. See: [www.stone-env.com](http://www.stone-env.com)

The USAID-LTTP project precisely used this arrangement in its Reading First + Math program. The program operates in 792 Liberian schools, and there is a system of capacity building-mentorship-supervision that is carried out by specialists assigned to specific clusters of schools. Formerly called “coaches,” they are currently called Capacity Building Officers (CBOs) (6), who are working with senior members of the LTTP and with the Finance Officer of the USAID-LTTP project. This methodology was worked out to calculate mobilization/logistics costs for 56 CBOs for which data was provided.

Working with the AIR research team, which included a team of economists at AIR’s headquarters, the particular cost rubrics for the GOAL project were sorted out. The costs of scholarships, grants to schools, training, curriculum development, establishing Girls’ Clubs, and so forth were determined. In this present analysis and model generation, L-MEP did not use specific mobilization/logistics data from the GOAL project for two reasons: (1) GOAL factored in the costs into the components of the program, and (2) the small sample of schools and the variability of conditions over three counties would have produced a larger-than-acceptance margin of error—hence the reliance on data from the USAID-LTTP project, which has over thirteen times the number of schools.

Therefore, there are three data sources that can be used in the geo-spatial model, as delineated below:

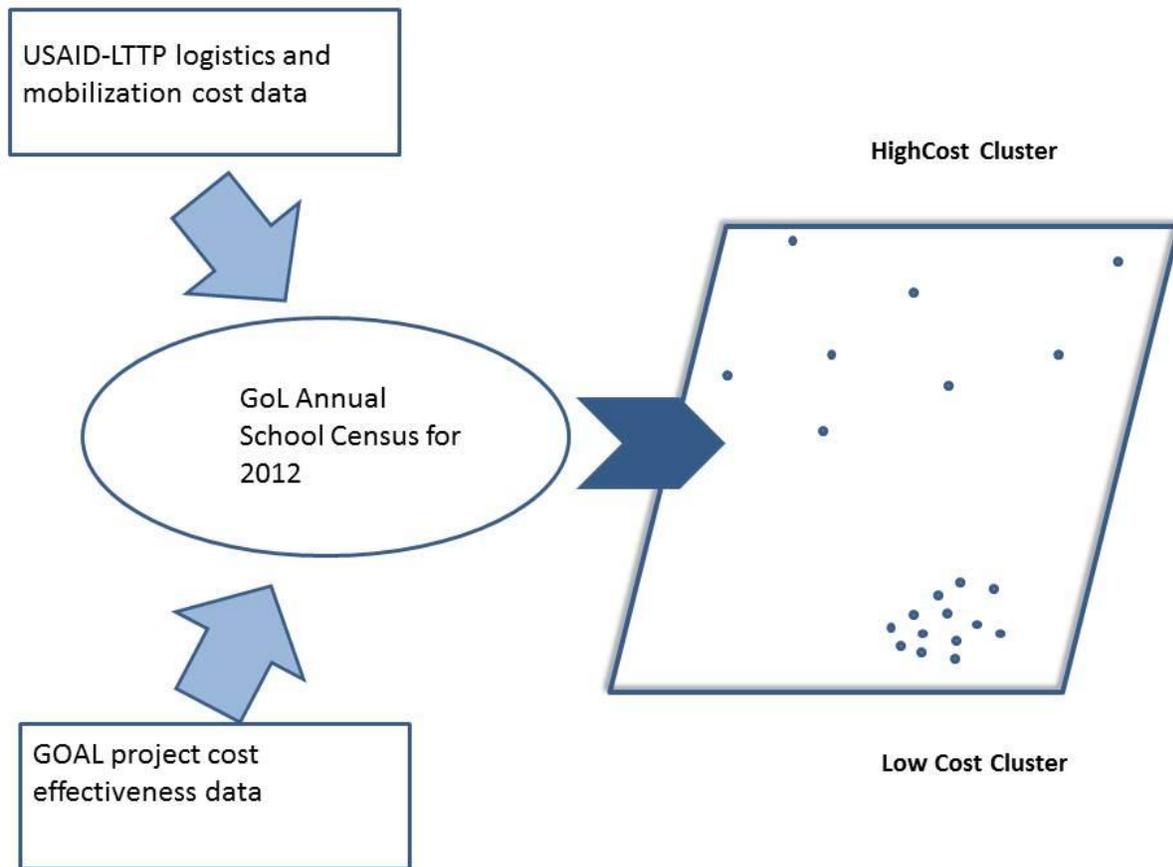
- the official GoL Annual School Census for 2012;<sup>10</sup>
- a special set of data L-MEP requested the USAID-LTTP project to provide for the logistics and mobilization costs for the Reading First’s program
- the results of the AIR Cost Effectiveness Study, with economic calculations determined for all of the GOAL project’s inputs and adjusted for magnitudes of efficiency in accordance to schools population.

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<sup>10</sup> Gratefully received in digital (and geo-referenced) format from the USAID-LTTP project division working on improving the MOE’s electronic record system),

In the following sections, details on the three sources of data are described and how the data can be manipulated in the geo-spatial model is explained. But first, however, the model is visually depicted in the following Figure \_\_\_: 5-1?

**Figure 5-17 Geo-Spatial Modeling of School Clusters with Logistics Cost Factoring**



Here, the two numerical sets of data (Cost of Logistics/Mobilization and GOAL’s Cost of Girls’ Education Components) are applied to the geo-referenced Annual School Census (in map format), with all its attendant information pertaining to enrollment by male/female students.

The structure and content of the three datasets are described in the following sections.

## 5.2 THE GEOSPATIAL DATASET OF LIBERIAN SCHOOLS

Liberia’s Ministry of Education’s Annual School Census contains 3,826 records for all schools in the categories of: (1) pre-primary; (2) primary; (3) Advance Learning Program [ALP]<sup>11</sup>; (4) junior high, and (5) senior high.

Figure 5-2 below is a screenshot of the Excel sheet of the Liberia schools that and the XY coordinates have been assigned to each. As can be seen in the screenshot, one of the fields of information is the enrollment of Primary Boys and Primary Girls and from where the data were extracted for use in the GIS model. This is a partial view of the spreadsheet. What is omitted, to save space, is the enrollment by boys and girls at other educational levels, e.g., pre-primary and high school, and the XY coordinates for positioning each school into geographical space in UTM projection.<sup>12</sup> Notice in the clip of Figure 5.2 that there are two sets of numeric codes associated with each record: the “EMIS Code,” used as the primary identifier by the MOE, and the “L-MEP School Code,” which permits linkage to other site-specific shapefiles used by L-MEP.

**Figure 5-18 Clip Showing Ministry of Education Schools with Boy-Girl Primary Enrollment (Partial)**

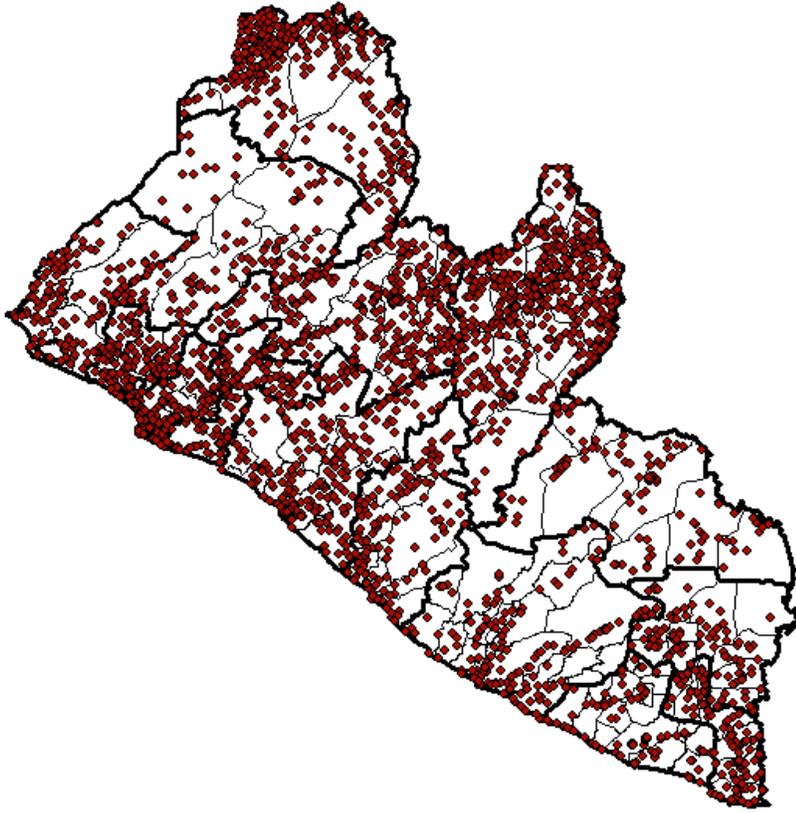
	C	D	E	F	G	H	I	J	M	N
1	County	District	SchoolName	EMISCode	lmepDistCo	lmepSchCod	TypeOfSch	LocalityNa	PrimB	PrimG
2	Bomi	Suehn Mecca	V. K. Yeangbay	10001	lmep0304	lmep03040001	Public	Moilah	18	28
3	Bomi	Suehn Mecca	River Bank Publi	10002	lmep0304	lmep03040002	Public	Old Beayer	20	30
4	Bomi	Suehn Mecca	Levikai Public	10003	lmep0304	lmep03040003	Public	Lawikai	54	45
5	Bomi	Suehn Mecca	Momo G. Bonni	10004	lmep0304	lmep03040004	Public	Senodee	38	36
6	Bomi	Senjeh	Ambulia Gbangt	10005	lmep0306	lmep03060005	Public	Maizen	43	30
7	Bomi	Suehn Mecca	Teh Town Public	10006	lmep0304	lmep03040006	Public	Teh	34	28
8	Bomi	Suehn Mecca	Geveh Public	10007	lmep0304	lmep03040007	Public	Big Giveh	41	21
9	Bomi	Suehn Mecca	Mulbah Town P	10008	lmep0304	lmep03040008	Public	Mulbah Tow	56	50
10	Bomi	Senjeh	Bassa Camp Pu	10009	lmep0306	lmep03060009	Public	Bassa Towi	56	52
11	Bomi	Suehn Mecca	Suehn Mecca Hi	10010	lmep0304	lmep03040010	Public	Cooper Tov	0	0
12	Bomi	Suehn Mecca	Mecca Element	10011	lmep0304	lmep03040011	Public	Mecca	80	50
13	Bomi	Klay	Jawajeh Public	10012	lmep0302	lmep03020012	Public	Jawajeh Ma	60	50
14	Bomi	Suehn Mecca	Suehn Village	10013	lmep0304	lmep03040013	Public	Suehn	39	39
15	Bomi	Suehn Mecca	Sumulu M. Dorl	10014	lmep0304	lmep03040014	Public	Gbojay	47	20
16	Bomi	Suehn Mecca	Gebena Public	10015	lmep0304	lmep03040015	Public	Glebena	24	22
17	Bomi	Suehn Mecca	Zuwah Public	10016	lmep0304	lmep03040016	Public	Zuwah	26	39
18	Bomi	Suehn Mecca	Mae Davis Elem	10017	lmep0304	lmep03040017	Public	Cooper Tov	0	0
19	Bomi	Suehn Mecca	Sumo Town Eng	10018	lmep0304	lmep03040018	Community	Sumo Towr	32	45
20	Bomi	Suehn Mecca	John A. Lymas	10019	lmep0304	lmep03040019	Public	Town Tomi	22	25
21	Bomi	Suehn Mecca	Gbao Public	10020	lmep0304	lmep03040020	Public	Gboa (2)	53	52

Within the GIS system, the 3,286 geo-referenced schools are distributed throughout Liberia as follows (Figure 5.3).

<sup>11</sup> Liberia’s civil war took a heavy toll on education, with most schools shut down for practically a whole generation. Consequently, in post-conflict Liberia, youth (defined up to age 35), as well as older adults were (are) given a chance at earning a 6<sup>th</sup> grade diploma by engaging in the Accelerated Learning Program, in two or three years.

<sup>12</sup> All of the shapefiles used in L-MEP mapping are projected to UTM Zone 29, WGS89.

Figure 5-19 Distribution of Ministry of Education Schools



### **5.3 THE USAID-LTTP LOGISTICS COSTS FOR CONTINUING TEACHER CAPACITY DEVELOPMENT IN THE READING FIRST PROGRAM**

From the USAID-LTTP project, L-MEP obtained a complete set of schools in which its Reading First + Math program operates. The data set is geo-referenced, and consists of 792 schools. A principal feature of the modality in which the program operates is that schools involved in the program are clustered as groups. This will permit the CBO to move about each cluster, which is within a reasonable distance from his or her home, and to visit each school one time per month. Given the difficulties of travel in rural Liberia, in some cases the CBO may be required to travel one or two days to get to a particular school or the school may be fifteen minutes away. The number of schools that are included within a given CBO operating radius may vary, but generally it ranges from as low as 6 schools to a high of 15 per CBO, all depending on the difficulty and time involved in mobilization within the assigned circuit.

The USAID-LTTP project maintains careful financial records, as well as the time investment by the coaches. Therefore, it was possible to construct the logistical costs that each coach incurs when carrying out the complete circuit of schools within his or her assigned domain. After entering into an agreement to collaborate on sharing data with the USAID-LTTP Project, L-MEP developed a template for how the logistics/mobilization data could be condensed into a format compatible with the L-MEP GIS platform. This is described in more detail below.

The data for costs related to school visits (“capacity building-mentoring-supervision”) prepared by the USAID-LTTP project consisted of an Excel file with two work sheets. One worksheet contained the list of coaches operating within the reading program, the other worksheet has the calculations for movement to the schools in the assigned clusters. As can be seen in Figure 5.4 below, there is a category of average transportation cost per visit to a district, which can vary considerably from a low of \$4.75 to a high of \$32.08 (Column 5). As mentioned above, a coach may have anywhere from 6 to 15 schools to cover in his/her monthly rounds, and the variation of the transportation costs is due to conditions of terrain and accessibility, with those having fewer schools to visit, obviously have the most difficulty moving about.

Figure 5-20 Clip Showing USAID-LTTP Coach List with Associated Costs and Logistics Categories (Partial)

1	2	3	4	5	6	7	8
N0.	County	District	Assigned coaches	Average cost per visit	Terrain	Accessibility of schools	categories of Log Cost
14	Nimba	Buu-Yao	J	\$ 10.58	difficult	not easily accessible	High logistics cost
15	Nimba	Buu-Yao	N	\$ 19.17	difficult	not easily accessible	High logistics cost
43	Lofa	Foya	S	\$ 19.67	difficult	mostly accessible by bike	High logistics cost
52	Margibi	Gibi	A	\$ 23.60	difficult	mostly accessible by bike	High logistics cost
39	Lofa	Kolahun	A	\$ 32.08	difficult	not easily accessible	High logistics cost
2	Nimba	Tappita#2	V	\$ 20.67	difficult	not easily accessible	High logistics cost
5	Nimba	Twah River	A	\$ 21.45	difficult	mostly accessible by bike	High logistics cost
37	Lofa	Vahun	N	\$ 20.26	difficult	not easily accessible	High logistics cost
18	Nimba	Yarpea Mah	A	\$ 21.83	difficult	not easily accessible	High logistics cost
16	Nimba	Yarwein Mesonnohn	E	\$ 21.42	difficult	not easily accessible	High logistics cost
9	Nimba	Zoe-Geh	B	\$ 24.17	difficult	not easily accessible	High logistics cost
8	Nimba	Zoe-Geh	I	\$ 20.83	difficult	not easily accessible	High logistics cost
17	Nimba	Bain Garr	B	\$ 5.50	good	easily accessible	Low logistics cost
34	Bong	Gbarnga	C	\$ 17.50	good	easily accessible	Low logistics cost
30	Bong	Gbarnga	J	\$ 13.17	good	easily accessible	Low logistics cost
35	Montserratado	Greater Mon	N	\$ 9.71	good	easily accessible	Low logistics cost
31	Montserratado	Greater Mon	S	\$ 18.63	good	easily accessible	Low logistics cost
36	Montserratado	Greater Mon	S	\$ 15.75	good	easily accessible	Low logistics cost
53	Margibi	Kakata	H	\$ 7.90	good	easily accessible	Low logistics cost
50	Margibi	Kakata	C	\$ 16.40	good	easily accessible	Low logistics cost
49	Margibi	Kakata	T	\$ 17.40	good	easily accessible	Low logistics cost
20	Bong	Palala	L	\$ 6.21	good	easily accessible	Low logistics cost
19	Bong	Palala	R	\$ 4.75	good	easily accessible	Low logistics cost
32	Montserratado	Right Bank	C	\$ 18.75	good	easily accessible	Low logistics cost

The mean cost per coach for monthly mobilization to schools within his or her respective school cluster is approximately \$16 US dollars, with a minimum being \$ 4.75, and a maximum being \$ 32 US Dollars. This variation is considerable indeed (5.6 standard deviations, or 575 percent difference).

Returning to Figure 5.4 above, column 5 contains the actual average cost per school visit by each of the 56 CBOs. In addition, column 6 categorizes the terrain for each cluster region, and column 7 categorizes the accessibility status. Finally, column 8, labeled “categories of logistics costs,” which is a classification scheme accounting for information in the former three categories. In order to determine the best model for performing the extrapolation exercise to the larger national school set, several geospatial models were run, particularly using the “average cost per school visit” and “categories of logistics costs.” The latter is a clear three-level breakdown, and with the “cost per school visit” category, the map models were run using a quintile breakdown.<sup>13</sup>

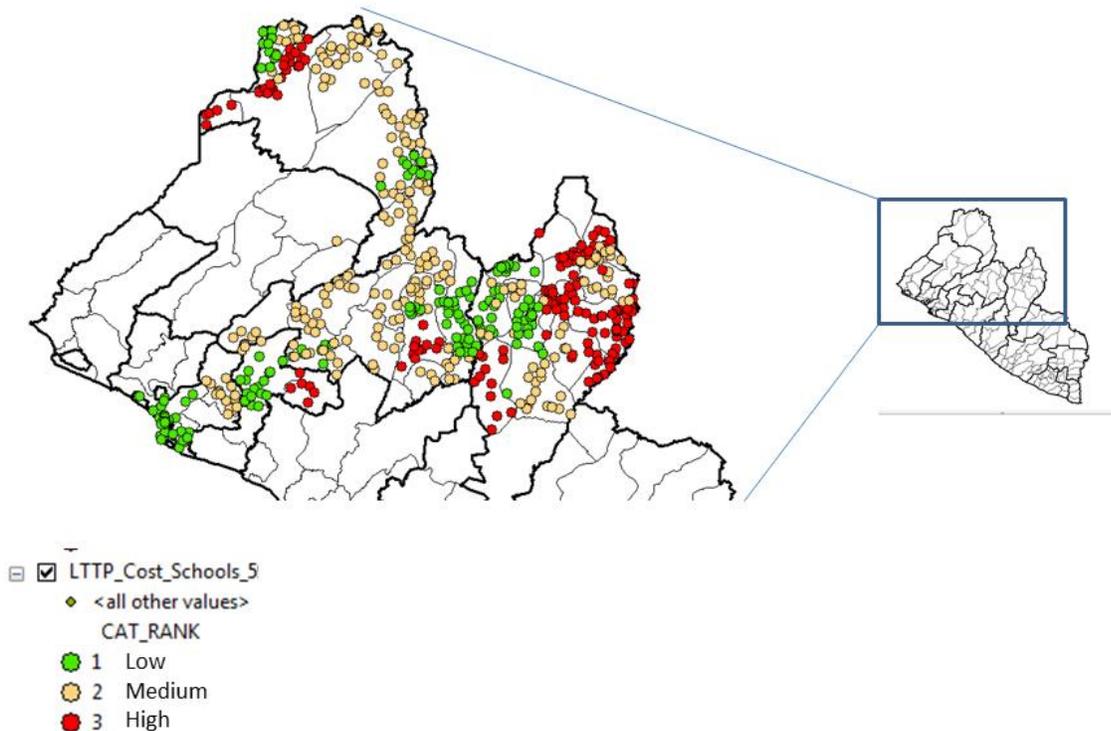
In consultation with the responsible specialists from USAID-LTTP, it seemed that the best variable to use was the latter one, “categories of logistics costs,” because, as explained, it is a composite of the three former, which is a more realistic representation of the overall cost of a monthly cycle. This is due, in part, because there are additional costs associated with transportation to a village, e.g., costs of food, having to pay for guides to get through difficult areas, etc.

<sup>13</sup> The quintile factoring includes geospatial adjustments, using Jenks Natural Break Classification—see [http://wiki.gis.com/wiki/index.php/Jenks\\_Natural\\_Breaks\\_Classification](http://wiki.gis.com/wiki/index.php/Jenks_Natural_Breaks_Classification).

## 5.4 LOGISTICS/MOBILIZATION COSTS RELATED TO THE USAID-LTTP READING FIRST + MATH PROGRAM

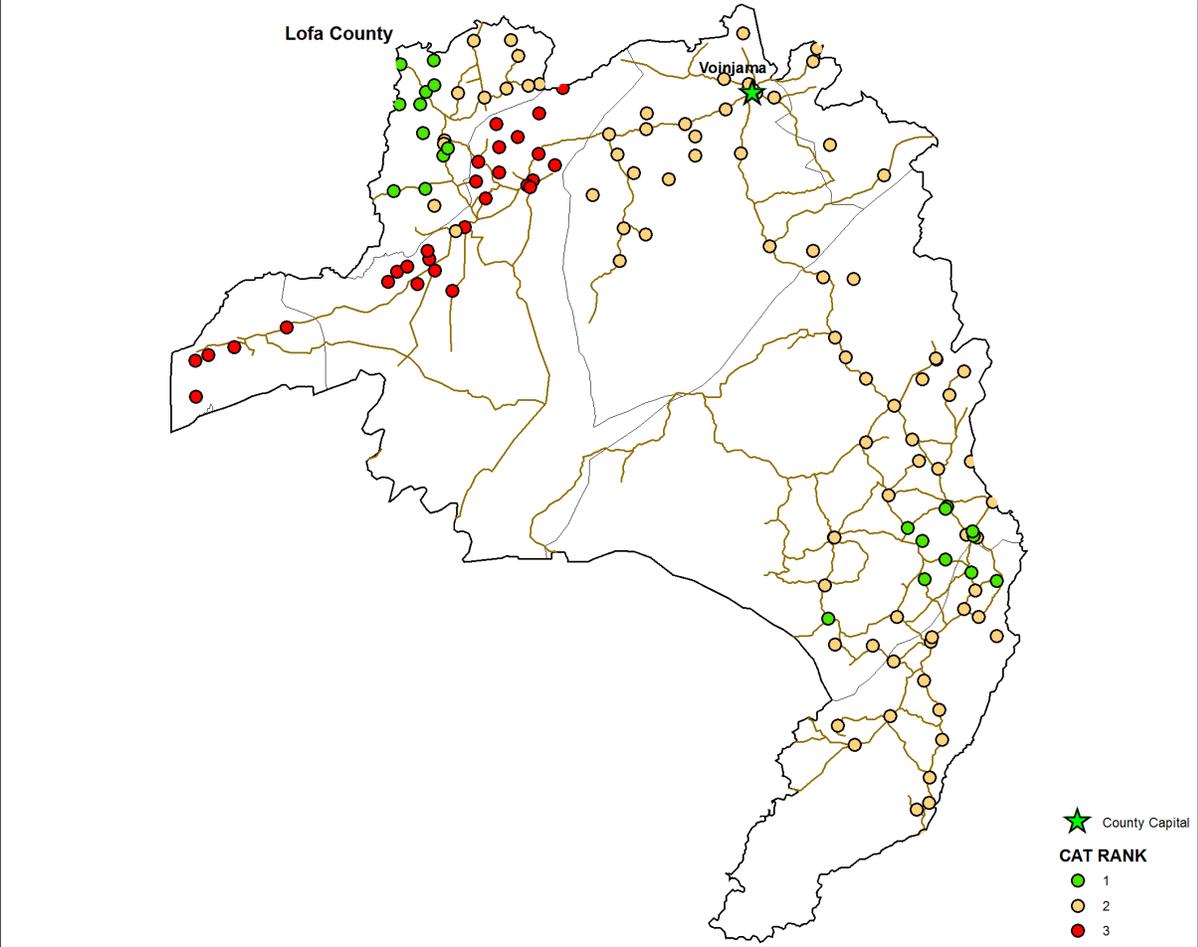
Figure 5.5 below shows the distribution of school categories in the USAID-LTTP Reading First + Math program for the five counties in which the program operates: Lofa, Nimba, Bong, Margibi, and Montserrado counties. The color ramp for the points displayed—green—yellow—red—represents the schools, based on the “categories of logistical cost” seen in the last column of the above Figure 5.4. Green dots represent schools with low logistical cost for the CBOs to move about their clusters of schools; color salmon represents medium costs, and red represents high logistical costs. The program operates in 793 schools, but geo-coordinate data could only be obtained for 593 schools, which are displayed here. The LTTP program does not operate in Grand Bassa County, which presents a limitation of the study, as mentioned previously, since Grand Bassa County is one of the three counties in which the GOAL project operates.

**Figure 5-21 Distribution of School Categories in Terms of USAID-LTTP Logistical Costs**



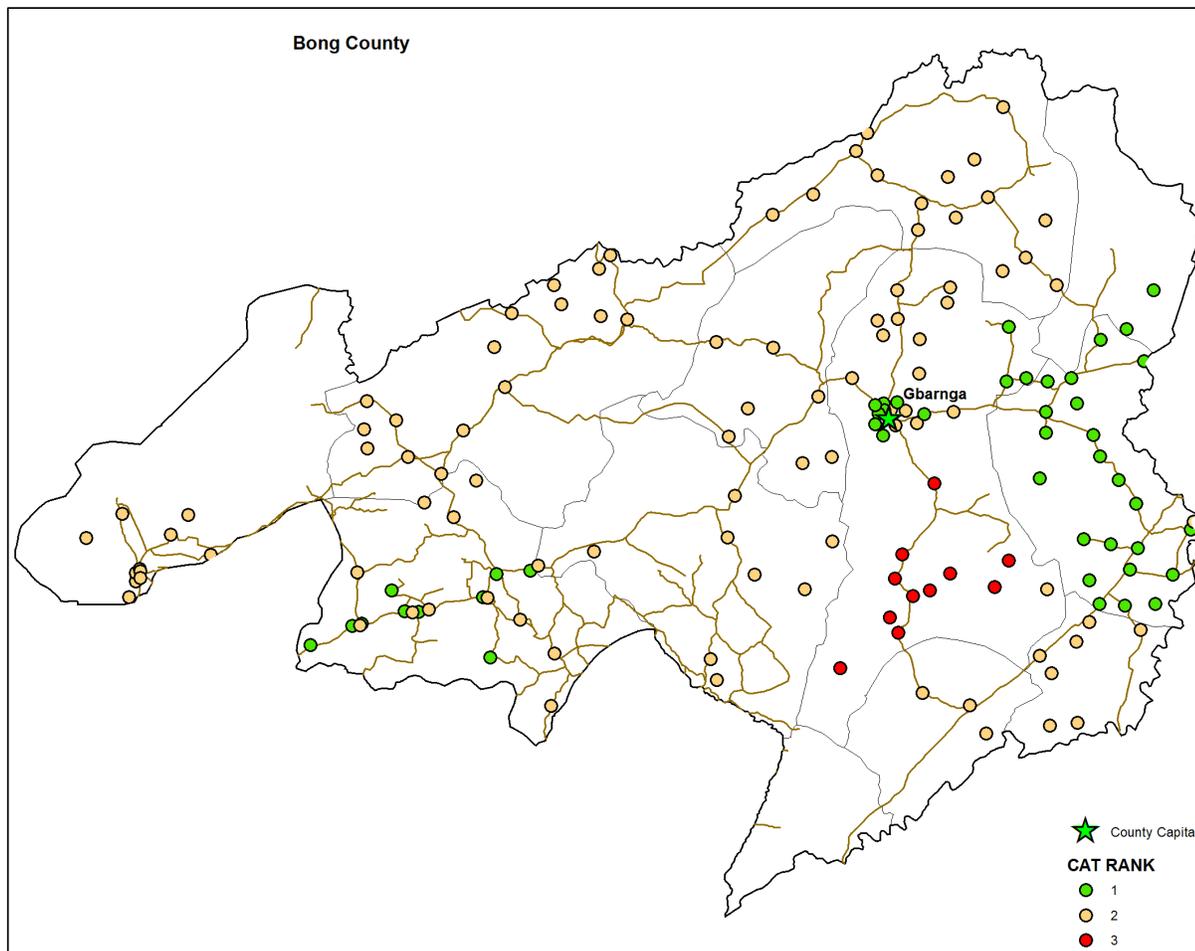
In the following series of maps, the logistics costs categorical breakdown can be seen at the individual county level for the five counties in which the USAID-LTTP Reading Program operates. The first is Lofa County.

**Figure 5-22 USAID-LTTP Reading First Schools by Logistics Costs Categories —Lofa County**



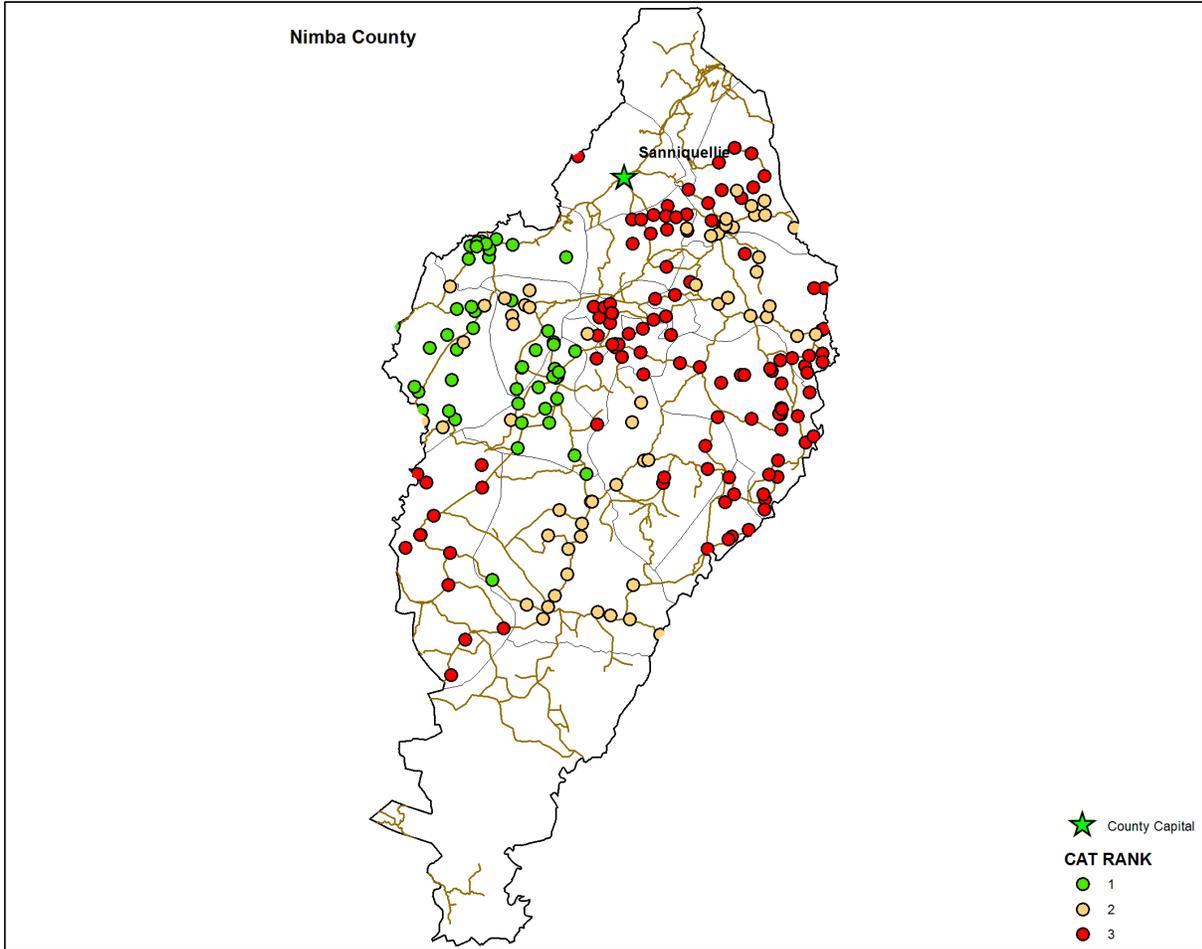
In Figure 5.6 the highest cost region is in the northwestern part of Lofa (but not in the Sierra Leone border region), and the lowest cost area is around Zorzor.

Figure 5-23 USAID-LTTP Reading First Schools by Logistics Costs Categories —Bong County



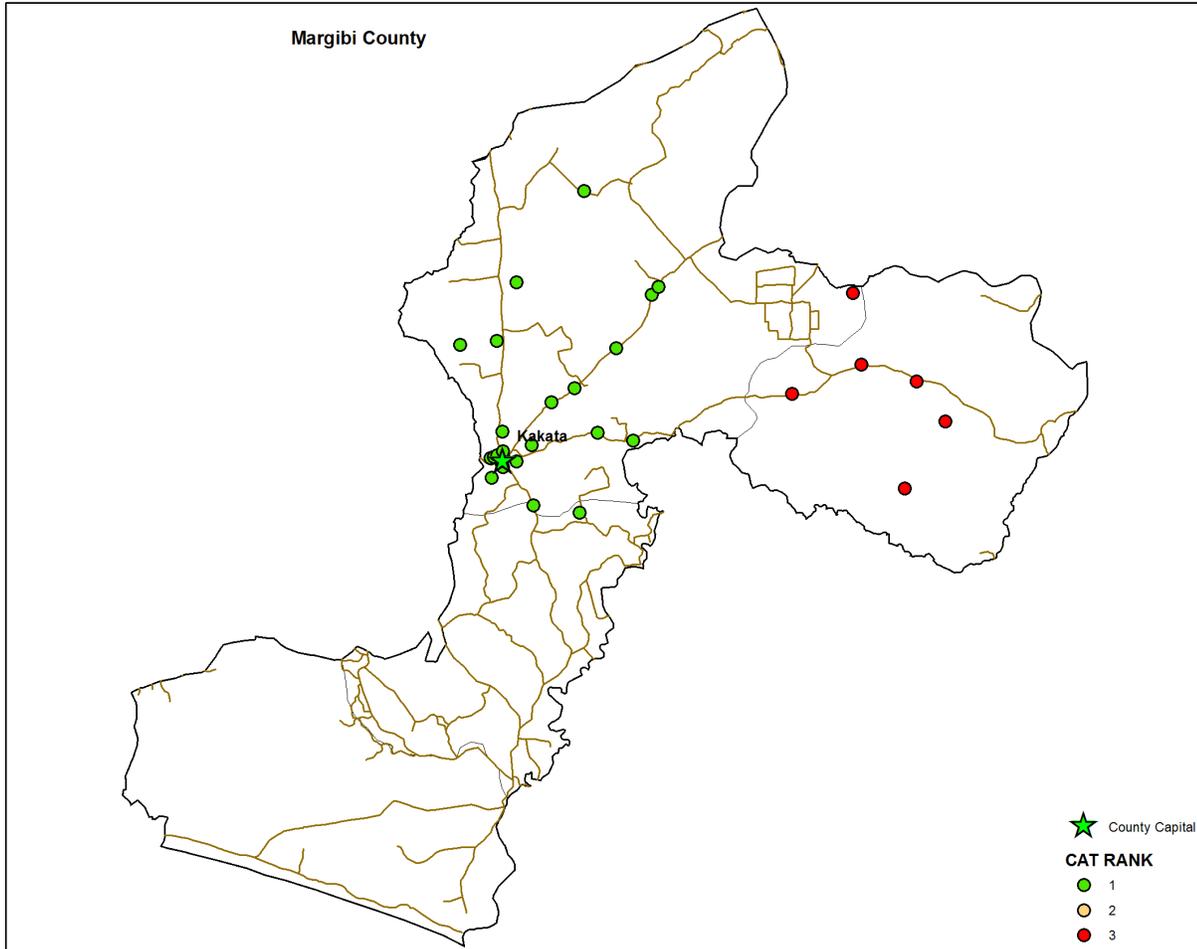
The high cost area is concentrated to the south of Gbarnga.

Figure 5-24 USAID-LTTP Reading First Schools by Logistics Costs Categories —Nimba County



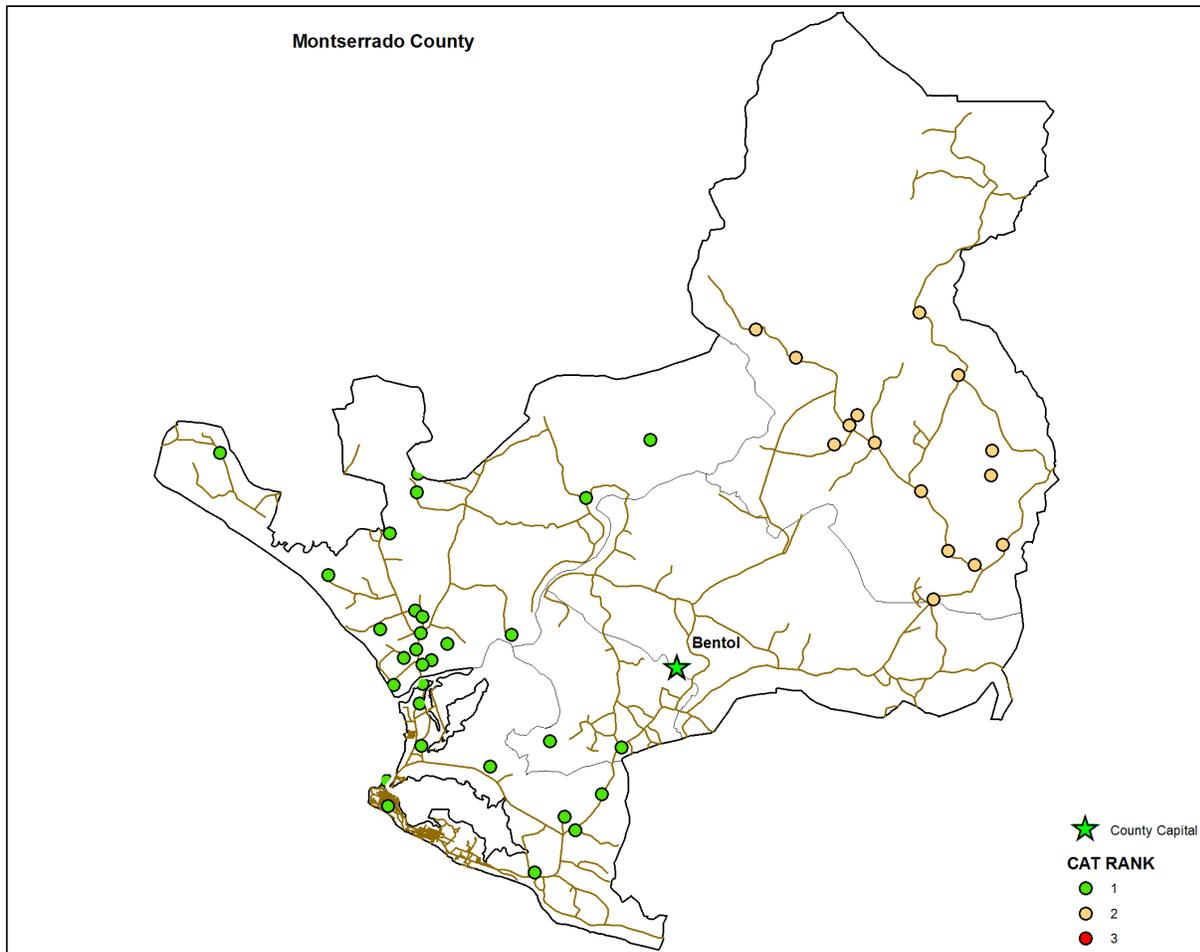
Nimba County proportionately of all the counties, has the highest number of high cost school clusters.

Figure 5-25 USAID-LTTP Reading First Schools by Logistics Costs Categories —Margibi County



For Margibi County, there are no medium cost clusters, with low cost ones being centered near Kakata, or along the primary roads. The high cost areas lie to the East.

Figure 5-26 USAID-LTTP Reading First Schools by Logistics Costs Categories —Montserrado County



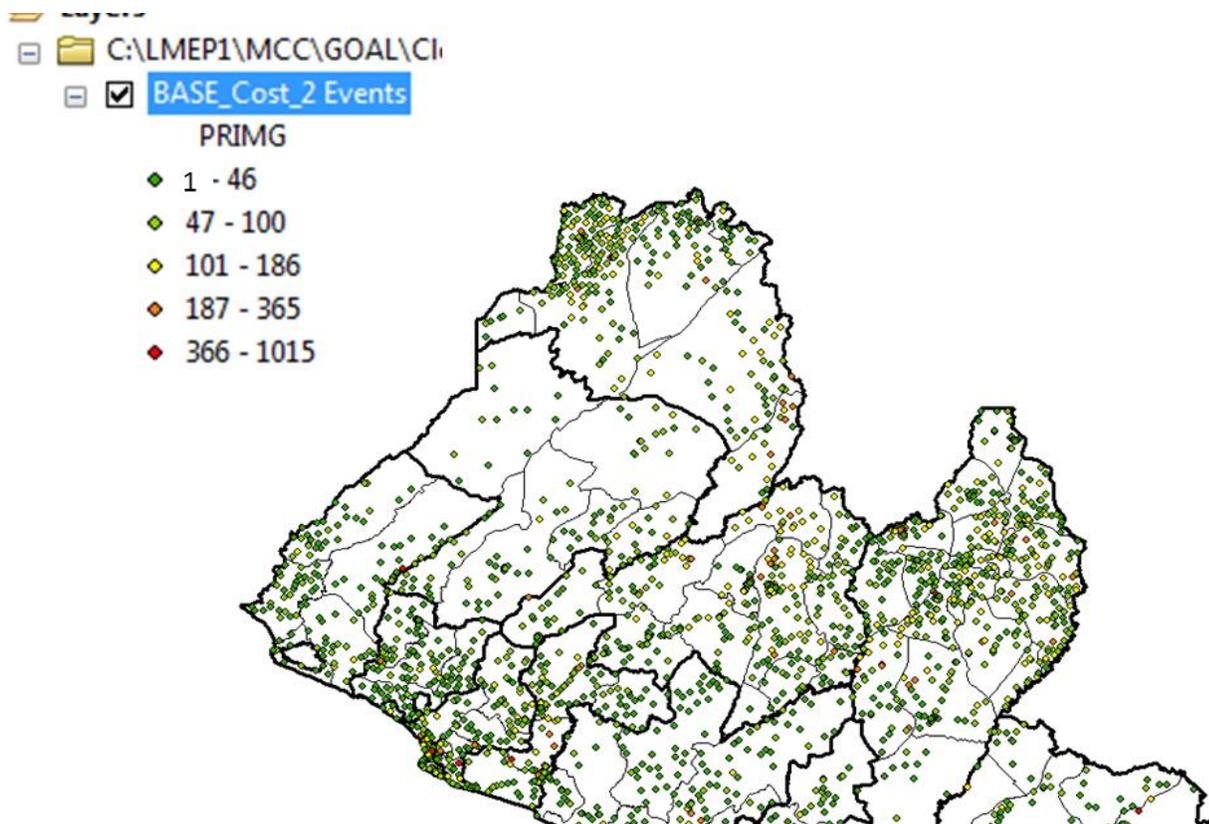
As can be seen in Figure 5.10 above, there are relatively few USAID-LTTP Reading First + Math schools in Monrovia, Liberia’s capital city, in Montserrado County. This lack of data, for extrapolation purposes of scaling up girls’ education should not be problematic, as one of the main premises established by the GOAL project is that the focus of girls’ education should be primarily focused in rural areas of Liberia.

To summarize what is seen in this map series is that here are distinct clusters that stand out in accordance to costs related to mobilization and related costs of the CBOs in the USAID-LTTP Reading First + Math Program.

## 5.5 NUMBER OF GIRLS ENROLLED IN PRIMARY LEVEL IN SCHOOLS FOR THE FIVE PRINCIPAL CORRIDOR COUNTIES

In order to generate the geospatial projection model, several steps were taken. One important dimension, for which a perspective is needed, is to show the level of enrollment for girls at the primary level for schools located in the counties for which there is an existing corresponding set of data on logistics/mobilization from the USAID-LTTP project. The following Map 4.4 shows a quintile distribution of girls' enrollment in these schools. Although the map's scale is too small to examine the map in detail, it is more for illustrative purposes. Detailed maps and the breakdown of costs, with projections of GOAL project methodologies and attendant costs are to be found in subsequent maps. In Figure 5-11 below, the legend indicates the intervals of numbers of girls enrolled in the schools. The schools with the largest enrollment of girls are represented by the red points (366 to 1015 girls—found in Monrovia and Gbarnga, largely); the schools with the smallest (one to 46 girls) are displayed as green points. Most of the schools tend to be small, mostly in the category of 1 through 46 girls enrolled in primary schools, as noted by the preponderance of green points symbolizing the schools.

**Figure 5-27 Map of Liberian Primary Schools in the Densely Populated Counties**



### **The AIR Girls' Education Cost Effectiveness Algorithms Developed for the GOAL Project**

As mentioned previously, the econometric models that AIR generated to analyze costs effectiveness of the GOAL project uses complex algorithms based on detailed line item costs related to the various project interventions. There are too many possible economic model frames to use in making a projection of sustainability. Therefore, in configuring the geo-spatial model for scaling up girls' education, L-MEP opted to use a singular summary logarithmic model, based on the notion of economy of scale.

AIR generated numerous ways to examine their cost data. What is particularly relevant, when looking at schools in terms of the enrollment of the number of girls in Liberia's public schools, is AIR's analysis of the costs of the intervention per girl, which depends on the size of the enrollment of girls in schools. The cost of a scholarship for each girl, in any school, is roughly the same, i.e., approximately \$ 35 US (for those in first grade) to \$ 43 US (for those in second through six grades)<sup>14</sup>

Aside from the fixed costs per student, what changes is the per unit (girl) costs when schools of different sizes, which as seen above in Figure 5.11, can vary considerably. The logistical costs of accessing a school by any given educational technician from the GOAL project to work with teachers, parents, students, etc. on any aspect of girls' education, is basically the same, whether the school is large or small. However, there is an economy of scale that operates, especially in terms of logistical costs. It is more efficient from a cost perspective to attend to larger schools than smaller schools, because the logistic/mobilization costs are basically the same. However, the delivery of items, such as training or whatever the modality the intervention uses is going to be higher on a per girl basis in smaller schools.

Seen from another perspective, the costs of giving scholarships, if this is the model chosen, to a school that has a particularly large enrollment of girls is going to be high, simply because the number of scholarship units is far greater. However, the logistics/mobilization costs, which are formidable indeed, will be spread out over a much larger number of girls, thus reducing the per girl cost.

In addition, the model of the GOAL project was based on the premise of equity, i.e., to target rural areas with low girls' enrollment rates. The larger schools are in urban areas, and the gender parity rates are more equal. Therefore, if closing the gender parity rate in education remains a key consideration for the scaling up of the program, there is a clear indication that a continued focus on small rural schools should continue, and this modality will require higher per girl costs associated with the extra-material aspects of the program.

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<sup>14</sup> For first graders, the package includes the uniform set, book bag, toothpaste, toothbrush, laundry soap, bath soap, pens, pencils, copy books, sharpeners, color pencil, hair grease, branding + media. For second to six graders, it is the same, with added items, such as, deodorant, body lotion, and female hygiene items.

In Figure 5.12 it can be seen how there is an economy of scale that operates with regard to interventions on a per girl basis. There are three different types of interventions listed in the table: schools that received both scholarships grants, schools that received scholarships only, and schools that received grants only. The cost per unit, i.e., per girl, is larger when there are only a few girls in a given school. The cost per unit goes down, conversely, as the number of girls at the primary level is larger, as can be seen below.

**Figure 5-28 Unit Cost of Providing Incentives to Promote Girls' Education in the GOAL Project**

	25 girls	50 girls	75 girls	100 girls	125 girls	150 girls
<b>Comparison schools (20)</b>	N/A	N/A	N/A	N/A	N/A	N/A
<b>Schools receiving both scholarships and grants (20)</b>	\$574	\$322	\$238	\$195	\$170	\$153
<b>Schools receiving scholarships only (10)</b>	\$377	\$223	\$172	\$146	\$131	\$121
<b>Schools receiving grants only (10)</b>	\$327	\$164	\$109	\$82	\$65	\$55

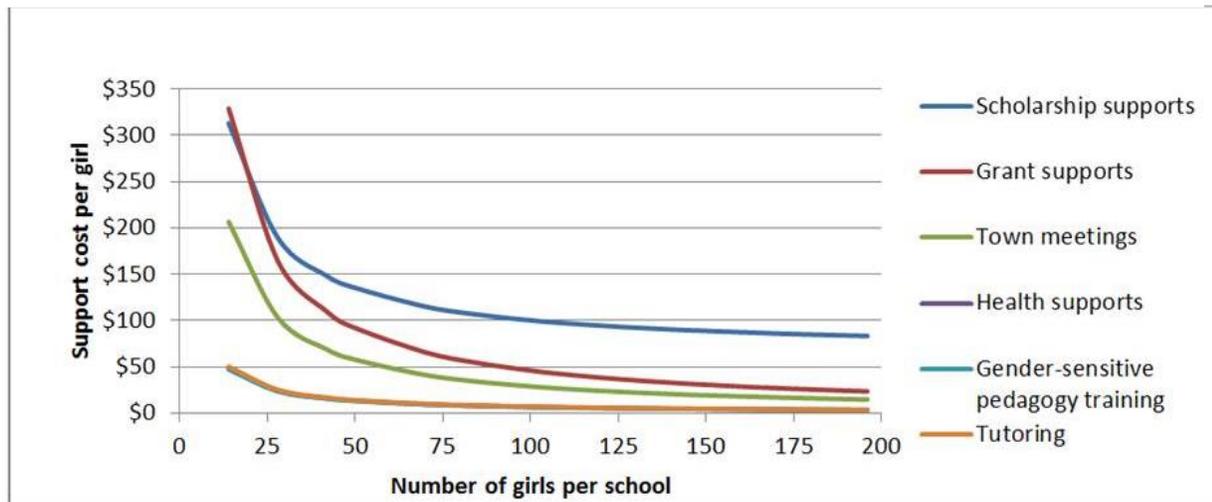
Source: Final Endline Report on the GOAL Project. AIR (draft)

AIR’s per unit calculations are reduced to per girl costs. So, for schools with 25 girls enrolled, which encompasses a considerable number of schools in rural Liberia, the unit cost for a school with 25 girls enrolled that receives scholarships and a grant is \$574; for just a scholarship alone it is \$377; and for a grant only it is \$327 (Column 1 in Figure 5-12). The unit cost for providing assistance to a girl in a school, through the grant only option, is relatively high, as can be seen in the table.

The grants are generally only \$1,000 per school. If the unit cost is compared between schools with 25 girls enrolled that receive both scholarships and grants together - and there are other costs that include a tutorial program and other packages - and the schools that received grants only, the unit cost is high for the grants only school. What occurs is that the grant only program requires considerable effort and maintenance to administer, because multiple trips to the school are needed for meetings with the PTAs; the review process of the grant proposals, which involves several steps; and so forth. The multiple trips accounts for the disproportionately high cost per unit. Thus, per unit costs are highest for the grants-only program in AIR’s analysis in terms of cost efficiency measured by changes across the three indicators of enrollment, retention, and promotion. However, the unit cost for grants-only intervention are the lowest in this model. This phenomenon is detailed in AIR’s final report.

The unit costs go down for schools that have higher enrollments, using 25 group increments. Thus moving across the table to the right, the unit costs go down considerably. This is because the logarithmic quality in the economy of scale, as can be seen in the AIR-prepared graph below:

**Figure 5-29 Costs of Supports per Girl by Type of Intervention**



Source: AIR Draft Tables of Costs

For purposes of the projecting sustainability in the scaling up of girls’ education in Liberia, only one of the models will be used, i.e., the intervention of scholarships plus grants. This intervention was found to be the most successful of all in the endline analysis carried out on the GOAL Project.

### 5.6 SYNTHESIZING THE AIR COST DATA WITH THE USAID-LTTP DATA TO GENERATE THE GEO-SPATIAL MODELS

If we know the number of girls enrolled in primary school for all the MOE schools, we can incorporate data from the cost-effectiveness study that was carried out for the GOAL project, and gain some idea of the unit cost of applying the girls’ education model to a broader number of schools, categorizing them by size in intervals of 25 – from 25 to 150, to be precise. This is also described in more detail below. To continue with the model used in this analysis, it is essential to know is the cost information of mobilization and other logistical considerations within school clusters. These are elements that can be controlled on a map once it is all in a GIS system. The connection between these two pieces of information constitutes the foundation of this analysis, and is laid out in detail below.

The projections used in the geospatial model are based on only one of the intervention modalities used by the GOAL project, i.e., the scholarships and grants to schools. This intervention was found to be the most cost effective model, according to AIR’s analysis as detailed in its report, for promoting girls’ education.

Taking the data file containing all schools in Liberia, the total number of records in this file is 3,826. Of all these schools, 779 are not primary schools, and 154 had zero girls in primary school, obviously making them boys only schools. This left a total of 2,893 schools with which to deal in the analysis. The number of girls in primary grades varies from one to 1,015.

In the geospatial model development, a cutoff point was determined so that there would be a sufficient number of schools with girl enrollment in primary clustering around each of the 25 increments, whereby the per unit cost of the intervention was established. For the 25 girls schools, where the scholarships plus grants per unit is \$574, a clustering

of schools that had a number of girls ranging from 20 to 29 was assigned the \$574 scholarship per girl cost at the 25 number level.

The margins on the next increment were made somewhat wider, but proportional to the intervals. For the per-unit costs at the 50 girl/school level, the margin was taken from 30 to 57; for the 75 girls/school level, the interval ran from 58 through 87 girls, and so on. Each school then was grouped into one of six categories, based on the unit cost of the interventions. Below is the SPSS statement showing how the recoded intervals were handled, with the creation of a new variable “PRIMG2.” Note that schools that have a very small girl enrollment (0 to 19 girls) and those with very large enrollment (162 girls or more) are deleted from the analysis and noted as “system missing” (SYMIS) in the SPSS program recode statement below.

```
RECODE
  primg2 (0 thru 19=SYMIS) (162 thru 1015=SYMIS) (20 thru 29=1) (30
  thru 57=2) (58 thru 87=3) (88 thru 112=4) (113 thru 137=5) (138 thru
  162=6) .
```

Through this recode statement, the schools were divided into six groups, each one linked to one of the unit costs. As can be seen in Figure 5-14 below, the modal school size (at least for number of girls at the primary level), is around 50, seen in category number two, with 1,157 schools. The total number of schools included in the Liberia school database is 2,893.

**Figure 5-30 Number of Schools in Six Increment Categories Based on 25 Girl/School Margins**

	Frequency	Percent	Valid Percent	Cumulative Percent
20 - 29 (1)	493	12.9	17.0	17.0
37 - 57 (2)	1157	30.2	40.0	57.0
58 - 87 (3)	652	17.0	22.5	79.6
88 -- 112 (4)	296	7.7	10.2	89.8
113 - 137 (5)	185	4.8	6.4	96.2
138 - 162 (6)	110	2.9	3.8	100.0
Total	2893	75.6	100.0	
Missing System	933	24.4		
Total	3826	100.0		

Taking the established unit cost of \$574 for schools with 25 girls enrolled; \$322 for 50 girls; etc. from Figure 5.14 above, an arithmetic computation derived a dollar cost figure based on the per unit cost (with the established margins just mentioned) and the actual number of girls at the primary level per school. In the SPSS program recode statement below, it takes the regrouped schools in six categories and assigns costs per girl, based not at the precise point of 25

girl/school increments, but for all those that fall within the margins of inclusion associated with each of these. Thus, the \$574 per girl cost is spread out to cover schools containing 20 to 29 girls; those with the \$322 assigned to the 50 girl/school unit is spread out to encompass schools with 30 to 57 girls; those with the \$238 assigned to the 75 girl/school unit is spread out to encompass schools with 58 to 87 girls, and so on.

**For Scholarships Plus Grants**

```

IF (primg2 eq 1) costgs = (primg3 * 574) .
IF (primg2 eq 2) costgs = (primg3 * 322) .
IF (primg2 eq 3) costgs = (primg3 * 238) .
IF (primg2 eq 4) costgs = (primg3 * 195) .
IF (primg2 eq 5) costgs = (primg3 * 170) .
IF (primg2 eq 6) costgs = (primg3 * 153) .

```

Figure 5.15 below shows the records by school in which the six cost categories are shown with the variable PRIMG2. The column PRIMG3 is the actual number of girls in primary schools. The last two columns show the total cost of the intervention program of scholarships plus grants based on the number of girls in the school, and the unit cost that is pegged to the six interval categories (PRIMG2). The first record, with 28 girls in primary school, and at a unit cost of \$574 per scholarship plus grant intervention can be seen—\$16,072 for the former. Similarly, taking the school, “Sackie Town Community,” the enrollment of girls is 142. Since the economy of scale reduces the per girl cost of the intervention significantly (to \$ 153), the total cost amounts to \$21,726, as can be seen in the following Figure 5.15:

**Figure 5-31 Clip Showing Database of Cost Extrapolations to Girls Enrollment Increments for Scholarships and Grants Program**

COUNTY	DISTRICT	SCHOOLNA	PRIMG2	PRIMG3	COSTGS	COSTS
Bomi	Suehn Mecca	V. K. Yeangbay	1	28	16072	10556
Bomi	Suehn Mecca	River Bank Public	2	30	9660	6690
Bomi	Suehn Mecca	Levikai Public	2	45	14490	10035
Bomi	Suehn Mecca	Momo G. Bonnie Elementary	2	36	11592	8028
Bomi	Senjeh	Ambulia Gbangba Elementary	2	30	9660	6690
Bomi	Suehn Mecca	Teh Town Public	1	28	16072	10556
Bomi	Suehn Mecca	Geveh Public	1	21	12054	7917
Bomi	Suehn Mecca	Mulbah Town Public	2	50	16100	11150
Bomi	Senjeh	Bassa Camp Public	2	52	16744	11596
Bomi	Senjeh	Sackie Town Community	6	142	21726	17182
Bomi	Senjeh	Behsao Public	3	64	15232	11008
Bomi	Senjeh	Weakama Public				
Bomi	Senjeh	Kamanda Town NRC ALP	2	36	11592	8028
Bomi	Senjeh	Moore Town Public	3	63	14994	10836
Bomi	Senjeh	Gbah Public	3	65	15470	11180

## 6 CONSOLIDATION OF THE GEO-SPATIAL MODEL TO SELECT LIKELY FIT SCHOOL CLUSTERS FOR SUSTAINABILITY

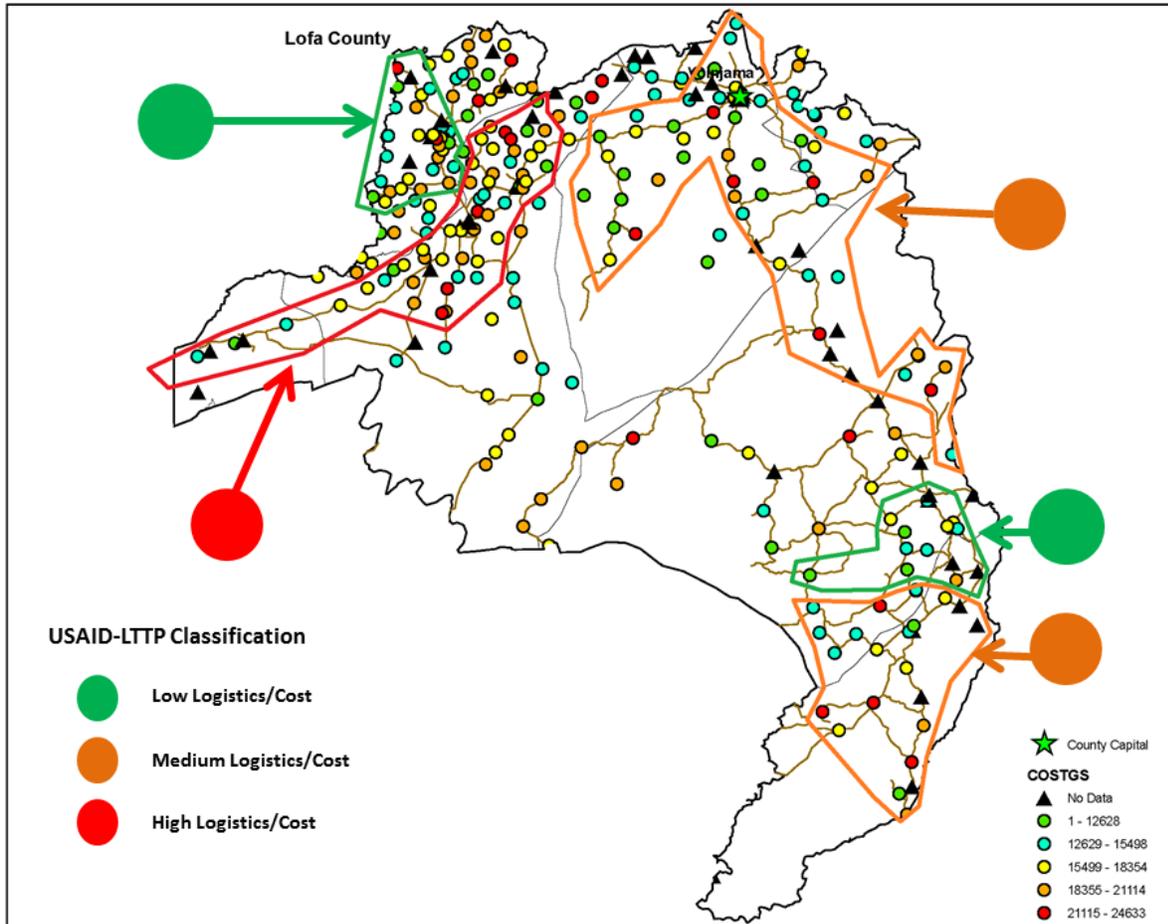
In the last two county maps, for Margibi and Montserrado, no high logistics costs schools are seen, in contrast to the maps of Lofa, Bong, and Nimba. What is important to note in these maps are the clusters of schools displaying commonalities with regard to the logistics-cost complex. As has been laid out in this report, the information is derived from a fusion of economic modeling from AIR's cost effectiveness analysis of the GOAL project's data and the geospatial modeling from L-MEP. But, in consultation with experienced field workers, the patterns make total sense, a proofing of the geospatial model with common sense appraisal.

The next set of maps consists of the five counties, this one with the MOE schools. They show cluster areas where, based on the previous set of USAID-LTTP maps for denoting relative costs of logistics for the Reading First coaches, would be the likely candidates for a scaling up of the girls' education program through a combination of interventions—scholarships and grants—the optimal combination for cost effectiveness determined for the GOAL project.

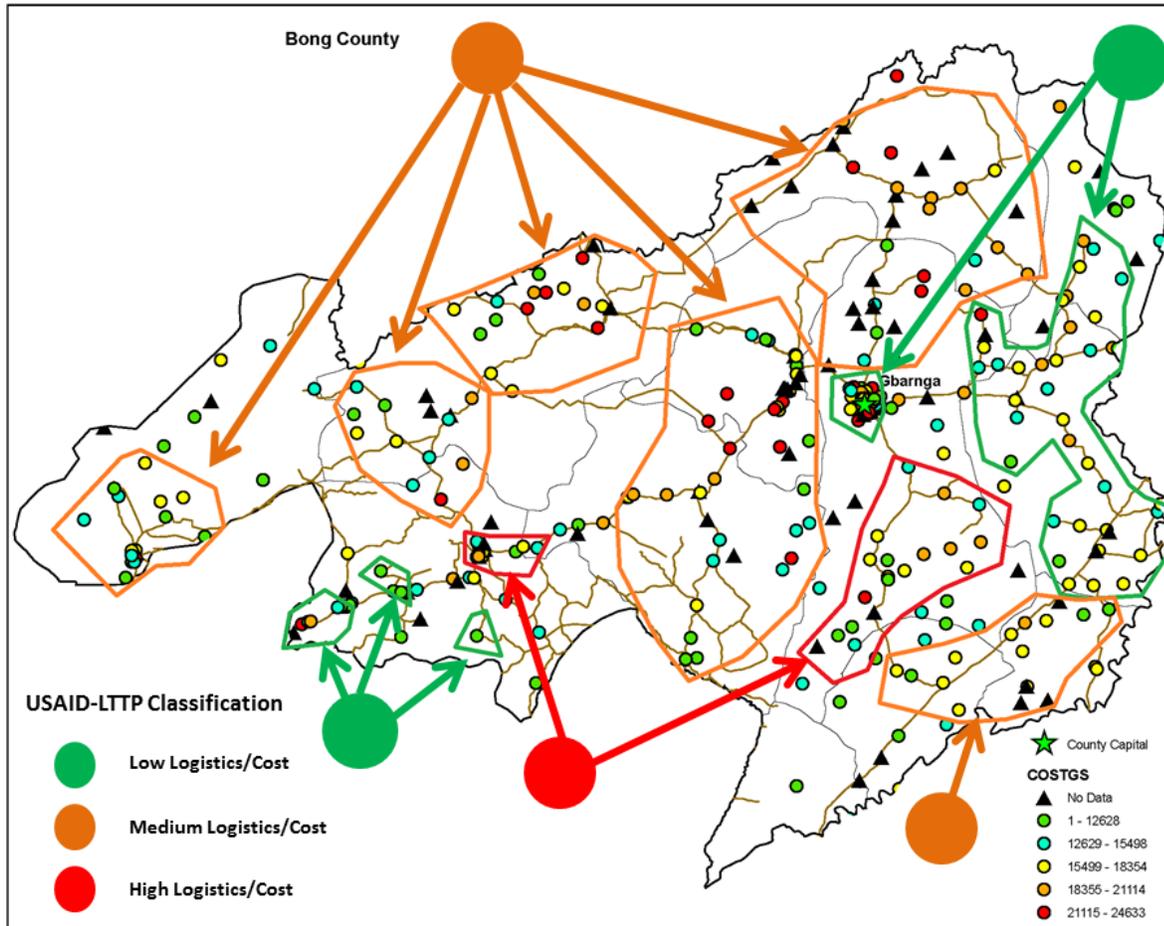
The logistics/cost scale from the USAID-LTTP project, as mentioned previously, is a three point scale; the areas enclosed in the three point polygons apply to the USAID-LTTP schools, with the three logistics-cost categories of high-medium-low. The schools with the extrapolated costs for a Scholarship Plus Grant intervention to support girls' education is a five point scale, factoring in the enrollment number of girls in the schools with the increments of economy of scale units per girl, determined by the AIR cost effectiveness analysis.

Note in the legend that the black triangle represents schools with no girls in primary schools. That does not mean, however, that it is simply incomplete data, but rather they may have just another type of program, such as being a high school only, a junior high school, or one that solely operates at the preprimary level. The color ranking indicates that the cost for a "green school" (lowest cost) covers schools where the costs, factoring in the actual enrollment, is \$ 12,628 or less (the lowest school has a minimum cost of \$ 9,660) to the "red schools" that have a cost range from \$21,115 through \$24,633.

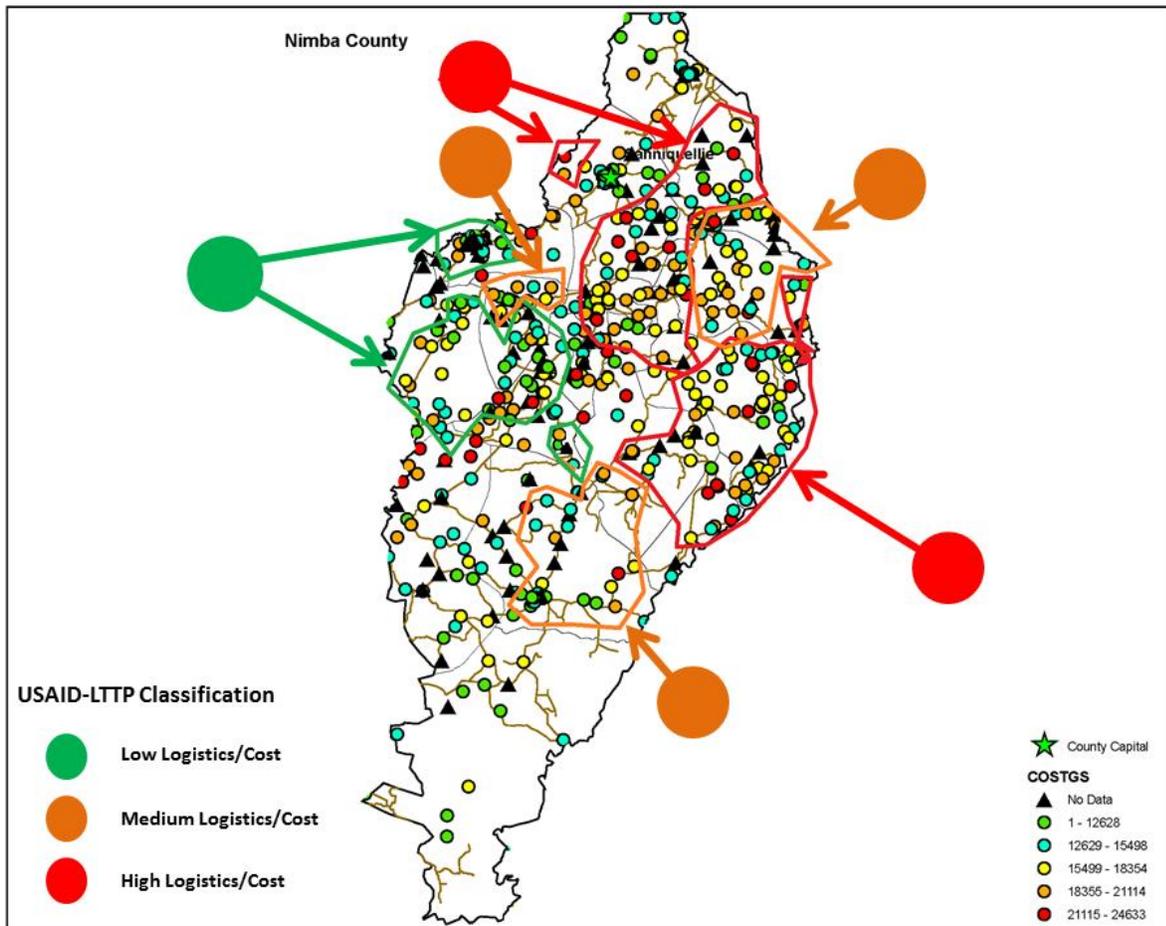
**Figure 0-32 Ministry of Education Schools Ranked by Scholarship and Grant Costs with USAID-LTTP School Logistics Costs Categories—Lofa County**



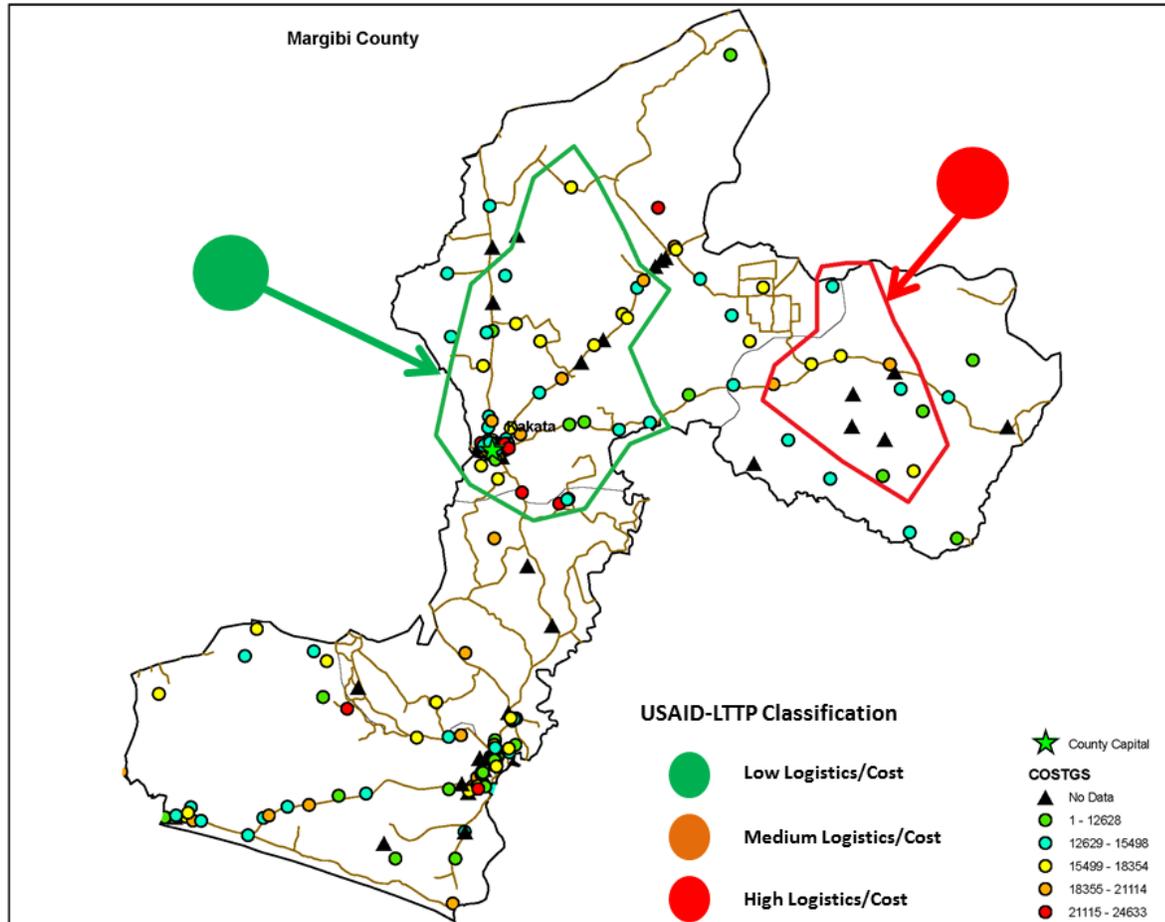
**Figure 0-33 Ministry of Education Schools Ranked by Scholarship and Grant Costs with USAID-LTTP School Logistics Costs Categories—Bong County**



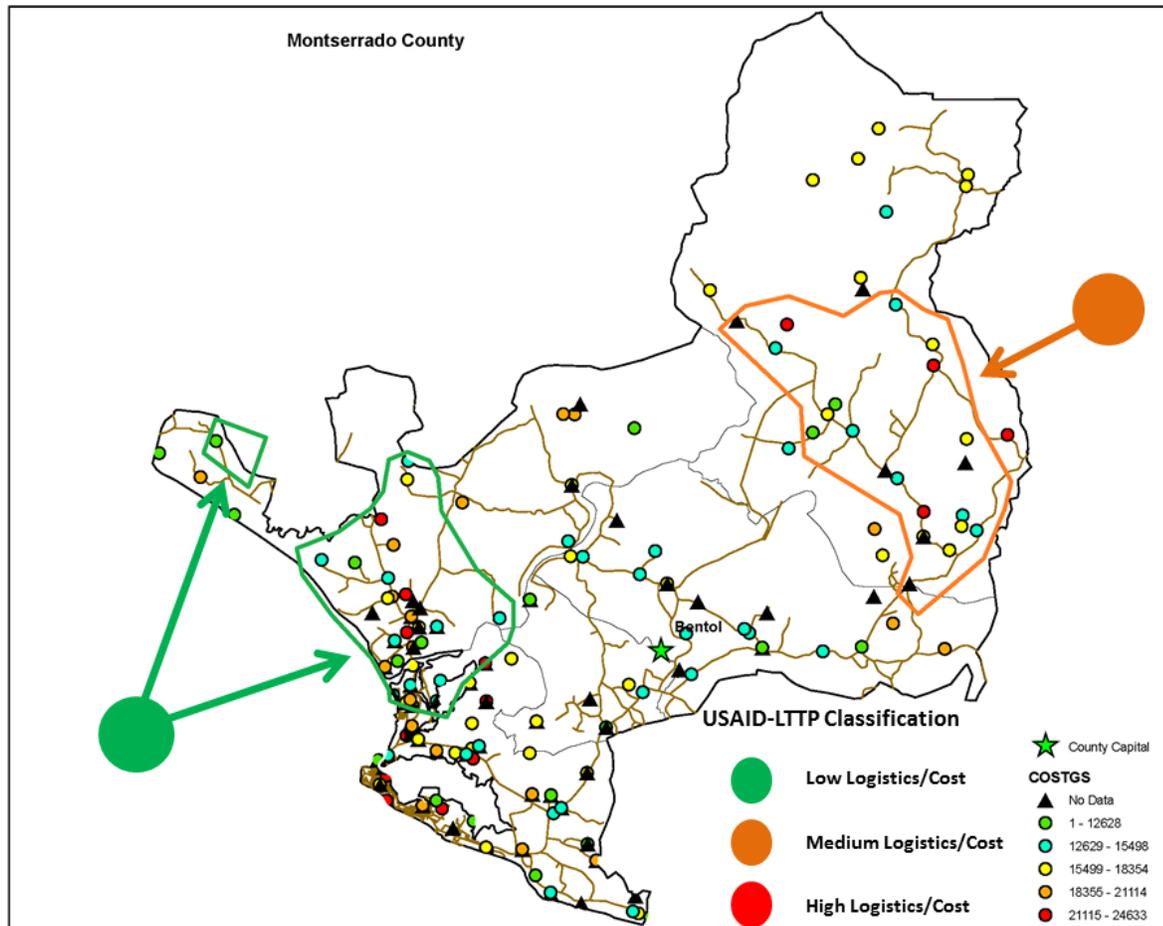
**Figure 0-34 Ministry of Education Schools Ranked by Scholarship and Grant Costs with USAID-LTTP School Logistics Costs Categories—Nimba County**



**Figure 0-35 Ministry of Education Schools Ranked by Scholarship and Grant Costs with USAID-LTTP School Logistics Costs Categories—Margibi County**



**Figure 0-36 Ministry of Education Schools Ranked by Scholarship and Grant Costs with USAID-LTTP School Logistics Costs Categories—Montserrado County**



As can be seen in the map series, the polygons do not encompass the entire lot of schools in each of the counties depicted. It would go well beyond the methodology to attempt to do this, and we opted for extrapolating the logistics-cost factoring to the known areas for which we have data from the USAID-LTTP schools. Nevertheless, we feel that this is a sufficient guide to scale up an incentive program in support of expanding girls' education to gain enrollment, promotion, retention, and attendance rates on a broader scale and in a manner that is based on data.

The classification of schools by extrapolated costs are ranked and color coded for applying the Scholarships Plus Grants model from the GOAL project to girl enrollment size in schools. While within a given green polygon in any of the five counties, the logistics costs may be low. However, overall the costs may be high because of the number of girls enrolled, even factoring in the economy of scale model developed by AIR and extrapolated in the L-MEP geospatial model projection. That is reason to initially embark on the selection process choosing the green cluster areas, then proceeding to examine the schools that are not red, orange, or perhaps, even yellow, as these are larger schools, and there would be many more girls to cover in a program than in those schools that are green or light blue. Obviously, the "green on green" approach might seem the most desirable path on which to proceed. However, it must be re-

membered that trying to cover too many small schools may elevate the cost factor, and also because there is no economy of scale, as in the larger schools.

Generally speaking, there are decisions that have to be made, and these decisions are beyond the scope of this analysis. This document, with the attendant lists of schools by county and ranked in terms of logistics/mobilization viability, provides a roadmap to scale up a girls' education program in a wider geographical range—in five of the most populous counties of Liberia. Nevertheless, if there is a decision made regarding the scaling up of a girls' education program, there needs to be a continuous information exchange with personnel on the ground, MOE District and County Officers, specifically, to better guide the implementation process.

In sum, this analysis has identified two crucial areas involving the costs associated with scaling-up a girls education program: (a) a logistics and mobilization cost panorama, as evidenced by an existing larger USAID program, and (b) a direct cost per girl in the schools located in the five counties, factoring in the economy of scale based on the analysis and projections of AIR for the existing GOAL project. All of this is rendered into a geographic framework, with the maps included in the narrative. Lists of the schools, sorted on the cost effectiveness scale, can be found in Appendix 1.

## 7 CONCLUSIONS AND RECOMMENDATIONS

### MAJOR CONCLUSIONS

The GOAL project was set up in a manner that would maximize research potential. A baseline was established through an initial Rapid Assessment carried out at the beginning of the project, and this led to the selection of the schools that would form the intervention focus of the GOAL project. There were three categories of interventions: (1) schools that received Grants Only, (2) schools that received Scholarships Only, and (3) schools that received Scholarships and Grants. A set of comparison schools was chosen as part of the research design. The Rapid Assessment used a variety of instruments to gain information about the schools and communities. Finally, 40 schools were selected for the three intervention models in the three counties of Lofa, Bong, and Grand Bassa.

The American Institutes for Research (AIR) performed a detailed analysis of the costs that went into providing incentives that would enhance girls' participation in selected intervention schools.

The cost-effectiveness analysis carried out by the AIR concluded that the most cost-effective model in terms of maximizing enrollment, retention, and promotion of girls in schools is a model that combines providing girls with scholarships and supplying grants to schools through a mechanism involving the PTA. Furthermore, AIR developed an economy of scale model for the three interventions that was based on the unit cost per girl, creating a scale of enrollment of 25 girls, 50 girls, 75 girls, 100 girls, 125 girls, and 150 girls.

L-MEP took the AIR research model and applied it to a group of government schools that are in a geo-referenced file. The schools were classified and ranked using a system that corresponds to AIR's classification scheme of 25 increments, and then factored in the cost of providing scholarships to all the girls of a school, in real numbers, using AIR's algorithm.

Separately, L-MEP worked with the USAID – LTTP project to develop a classification scheme of logistics costs for the project's Capacity Building Officers in the Reading First + Math program; the schools were classified on a scale of low – medium – high, and maps were generated pinpointing their schools located in five different counties: Lofa, Bong, Nimba, Margibi, and Montserrado.

A shortcoming of this study is that Grand Bassa County is not included in the Reading First program and, therefore, did not extrapolate data to the schools in this county, due to the lack of logistics/mobilization costs. Nevertheless, the projection was performed on a group of government schools in the five counties. The study also took the school clusters classification of logistics costs, and then extended that classification to a larger set of government schools.

The study then took the school clusters classification of logistics costs and created polygons in the clusters, and could identify school clusters in the low-medium-high ranking scale for more easy visualization. These are areas that are could be used in decision-making, should the scaling up of the girls education project occur.

### PRINCIPAL RECOMMENDATIONS

The principal recommendation that emerges from this geospatial analysis is that the Ministry of Education focus on those polygon areas where costs are low, using the standards of logistics costs set by the USAID-LTTP project, and apply them to the classification of the government schools with the extrapolations made from the AIR cost effective algorithm that further factored in the enrollment size of girls in the schools. In other words, the schools that are represented by the green dots on the maps would represent low costs in terms of carrying out the intervention of applying scholarships and grants to those schools, and logistics costs are low where indicated by the green polygons. How-

ever, the lessons of the economy of scale analysis from the USAID/MCC implementing partner, AIR, shows that the costs, beyond simply the reduced number of girls, increases inversely as the cost per girl algorithm indicates.

Additionally, perhaps it would be advisable to concentrate on schools that are located on the farther margins, yet still lie within the green polygons. This would enable a focus resources on those areas that could be complemented by other educational interventions that would improve Liberia's educational performance.

## SOURCES CONSULTED

American Institutes for Research (2010). Technical Application. Document submitted to USAID/ Liberia November 2010.

American Institutes for Research (2011). GOAL Baseline Study Report. Monrovia 2011.

EQUIP1 Liberia Girls' Opportunities and Access to Learning (GOAL). Endline Research Findings-November 2010-November 2013. Draft Report prepared by the American Institutes for Research (AIR) in Partnership with the Forum for African Women Educationists (FAWE) for the US Agency for International Development Cooperative Agreement No. 669-A-00-11-00015 Through Leader Award No. GDG-A-00-03-00006-00.

Fast-Track Initiative. (2011). Fast Tracking Girls Education: A Progress Report by the Education for All-Fast Track Initiative.

GOAL Revised Performance Management Plan. American Institutes for Research (AIR), in partnership with the Forum for African Women Educationalists (FAWE), and Search for Common Ground (SFCG). submitted to USAID under U.S. Agency for International Development Cooperative Agreement No. 669-A-00-11-00015, January 2012.

GOAL Technical Approach-Final. American Institutes for Research (AIR). submitted to USAID under U.S. Agency for International Development Cooperative Agreement No. GDC-A-00-03-00006-00, November 2010

L-MEP (2014). A Review of the Case Studies used in the MCC-GOAL Research Component. Draft to be submitted to USAID under U.S. Agency for International Development Contract No. No. 669-C-10-00-00181-00.

[http://wiki.gis.com/wiki/index.php/Jenks\\_Natural\\_Breaks\\_Classification](http://wiki.gis.com/wiki/index.php/Jenks_Natural_Breaks_Classification).

# APPENDICES

## APPENDIX A : MONSERRADO

Note: Schools are sorted on those having LOGISTIC COSTS ranging from *low* to *medium* to *high* (last column). The preceding Column-COSTGS-is the factored scholarship cost only for the number of girls at primary level of those in schools in the Reading First + Math program of the USAID-LTTP project. If the number is "0" then the school is not in the program, but falls within the circumscribed area indicated by the corresponding county map.

### MONTSERRADO

CODE	DISTRICT	SCHOOLNA	TYPEOFSC	LOCALITY	PRIMB	PRIMG	PRIMG3	COSTGS	CostType
3012034	St. Paul River	Krukai Public	Public	Krukai 1	113	112	112	21840	Low Logistic Cost
3012033	St. Paul River	Annie Banks Williams Elementary AM	Public	Brewerville City	235	211	0	0	Low Logistic Cost
3012038	St. Paul River	Virginia Public	Public	Central Virginia	153	183	0	0	Low Logistic Cost
3012001	St. Paul River	Mango Town Community Center	Public	Mango Town	65	52	52	16744	Low Logistic Cost
3012061	St. Paul River	Bamboo Towns Public	Public	Central Virginia	26	21	21	12054	Low Logistic Cost
3012032	St. Paul River	A. B. Cutis Public	Public	Brewerville City	54	65	65	15470	Low Logistic Cost
3006684	Greater Monrovia	Abda's Children Academy	Mission	Caldwell	74	44	44	14168	Low Logistic Cost
3010359	Greater Monrovia	AGM Elementary Junior & Senior High	Mission	New Kru Town	66	99	99	19305	Low Logistic Cost
3012028	St. Paul River	Alben International	Community	Back Bush	50	87	87	20706	Low Logistic Cost
3012039	St. Paul River	Alfred and Agnes Memorial Institute	Private	Brewerville City	34	45	45	14490	Low Logistic Cost
3012046	St. Paul River	Alieu Swaray Public	Public	Clay Ashland	215	92	92	17940	Low Logistic Cost
3006122	Greater Monrovia	Angeline Wata Allison	Private	Caldwell	201	157	157	24021	Low Logistic Cost
3010180	Greater Monrovia	Apostolic Faith Mission	Private	New Kru Town	99	118	118	20060	Low Logistic Cost
3012014	St. Paul River	Arthiram Community Institute	Community	Wilson Cornor	64	83	83	19754	Low Logistic Cost
3010387	Greater Monrovia	Assembly of God Mission High	Mission	Caldwell	3	6	0	0	Low Logistic Cost
3012080	St. Paul River	Augustus F. Caine	Public	Central Virginia	48	46	46	14812	Low Logistic Cost
3006114	Greater Monrovia	Bandakor Islamic Model Academy	Community	New Georgia	38	37	37	11914	Low Logistic Cost
3012050	St. Paul River	Banjor Central High	Public	Banjor	111	169	0	0	Low Logistic Cost
3010188	Greater Monrovia	Barclay Nyenfuel Institute	Private	New Kru Town	37	57	57	18354	Low Logistic Cost
3006669	Greater Monrovia	Bassa Town Community	Community	New Georgia	59	43	43	13846	Low Logistic Cost
3010157	Greater Monrovia	Billy T. Nimmons Baptist	Mission	Two Farm	53	70	70	16660	Low Logistic Cost
3006033	Greater Monrovia	Bincima Foundation	Private	New Georgia	114	124	124	21080	Low Logistic Cost
3006066	Greater Monrovia	Bishop Albert D. Miller School	Mission	New Georgia	82	104	104	20280	Low Logistic Cost
3010396	Greater Monrovia	Bishop Grandoe Mission	Private	Monrovia	114	78	78	18564	Low Logistic Cost
3010390	Greater Monrovia	Bishop Roland J. Payne	Private	Bong Mine Bridge	72	79	79	18802	Low Logistic Cost
3012083	St. Paul River	Blahn Public	Public	Blahn Town	44	37	37	11914	Low Logistic Cost
3012130	St. Paul River	Bombola Public	Public	Clay Ashland	59	48	48	15456	Low Logistic Cost
3012053	St. Paul River	Bonjor Community English & Arabic	Community	God Bless You	73	49	49	15778	Low Logistic Cost
3012054	St. Paul River	Brewerville AGM Bible College	Mission	Brewerville City	74	73	73	17374	Low Logistic Cost
3010277	Greater Monrovia	Bridgeway A. M. E. Zion	Mission	Bong Mine Bridge	54	39	39	12558	Low Logistic Cost
3010091	Greater Monrovia	Bushrod Foundation Senior High	Private	New Kru Town	118	96	96	18720	Low Logistic Cost
3006023	Greater Monrovia	Caldwell Christian Academy (ACPI)	Mission	Caldwell	76	56	56	18032	Low Logistic Cost
3006356	Greater Monrovia	Carr Senior High	Private	Caldwell	79	78	78	18564	Low Logistic Cost
3010164	Greater Monrovia	Children Rehabilitation	Private	New Kru Town	56	42	42	13524	Low Logistic Cost
3006331	Greater Monrovia	Christ Assembly InstituteFF	Mission	New Georgia	23	51	51	16422	Low Logistic Cost
3010163	Greater Monrovia	Christ Our Foundation	Private	Two Farm	55	48	48	15456	Low Logistic Cost
3010182	Greater Monrovia	Christain Community Academy	Private	New Kru Town	50	51	51	16422	Low Logistic Cost
3010182	Greater Monrovia	Christain Community Academy	Private	New Kru Town	50	51	51	16422	Low Logistic Cost
3006170	Greater Monrovia	Christain Mission Academy	Community	Caldwell	65	64	64	15232	Low Logistic Cost
3006135	Greater Monrovia	Christiana Bedll/Preparatory	Private	New Georgia	144	124	124	21080	Low Logistic Cost
3010027	Greater Monrovia	Col. Mohammad Gaddafi English & Arabic Institute	Private	Duala	91	102	102	19890	Low Logistic Cost
3012026	St. Paul River	Comfort K. Toe Orphanage Elementary	Mission	Brewerville City	63	62	62	14756	Low Logistic Cost
3010358	Greater Monrovia	Community Foundation	Community	New Kru Town	0	0	0	0	Low Logistic Cost
3006173	Greater Monrovia	Curtis & Toe Elementary & Junior High	Private	New Georgia	79	74	74	17612	Low Logistic Cost
3012018	St. Paul River	D. L. Innis Pre-Primary	Public	Clay Ashland	54	53	53	17066	Low Logistic Cost
3010361	Greater Monrovia	D. M. Mmac-Bee Christian System	Private	New Kru Town	64	37	37	11914	Low Logistic Cost
3010158	Greater Monrovia	D. Tweh High	Public	Point Four	0	0	0	0	Low Logistic Cost
3012072	St. Paul River	Diana E. Davies Elementary & Junior High	Private	Parker Cornor	72	69	69	16422	Low Logistic Cost
3010007	Greater Monrovia	Diana E. Davies School System	Private	Duala	51	56	56	18032	Low Logistic Cost
3012070	St. Paul River	Diapora Community	Community	Brewerville City	22	28	28	16072	Low Logistic Cost
3006115	Greater Monrovia	Dooyie Goodspeed Christian Academy	Private	New Georgia	132	103	103	20085	Low Logistic Cost
3010155	Greater Monrovia	E. W. Johnson (New Kru Town Junior High)	Public	New Kru Town	0	0	0	0	Low Logistic Cost
3006243	Greater Monrovia	Early Learning Foundation	Private	Gardnersville	103	119	119	20230	Low Logistic Cost
3012020	St. Paul River	Edwin M. Flowers Memorial A.M.E. Zion Academy	Private	Brewerville City	43	42	42	13524	Low Logistic Cost
3006036	Greater Monrovia	Elder George Holton	Community	New Georgia	14	15	0	0	Low Logistic Cost
3006169	Greater Monrovia	Elizabeth Tubman Memorial Institute	Public	Caldwell	310	147	147	22491	Low Logistic Cost
3006162	Greater Monrovia	Ellen Cape Hart Foundation	Private	Caldwell	109	117	117	19890	Low Logistic Cost
3012081	St. Paul River	Ellen Mills Scarborough	Public	Molton Corner	96	94	94	18330	Low Logistic Cost
3012129	St. Paul River	Faith Elementary	Private	Brewerville City	12	10	0	0	Low Logistic Cost
3010125	Greater Monrovia	Faith In Christ System	Mission	New Kru Town	95	70	70	16660	Low Logistic Cost
3010052	Greater Monrovia	First Baptist Elementary School	Mission	New Kru Town	68	94	94	18330	Low Logistic Cost
3006175	Greater Monrovia	Foundation of God Academy	Private	Caldwell	122	145	145	22185	Low Logistic Cost
3010336	Greater Monrovia	Freeway Public	Public	Duala	86	84	84	19992	Low Logistic Cost
3010112	Greater Monrovia	G. L. Faulkner Baptist Institute	Private	Bong Mine Bridge	1	11	0	0	Low Logistic Cost
3010112	Greater Monrovia	G. L. Faulkner Baptist Institute	Private	Bong Mine Bridge	1	11	0	0	Low Logistic Cost
3012030	St. Paul River	Gbanjor Public	Public	Banjor	277	335	0	0	Low Logistic Cost
3012052	St. Paul River	Gbondoi Public	Public	Gbondoi	55	52	52	16744	Low Logistic Cost
3006637	Greater Monrovia	Gift's Foundation	Private	New Georgia	61	63	63	14994	Low Logistic Cost

3006079	Greater Monrovia	Gilgal Foundation	Private	New Georgia	50	51	51	16422	Low	Logistic	Cost
3012045	St. Paul River	Glory of God Community	Mission	Virginia	74	87	87	20706	Low	Logistic	Cost
3010181	Greater Monrovia	Greater Vision Christian Academy	Community	New Kru Town	58	94	94	18330	Low	Logistic	Cost
3012047	St. Paul River	Henry Blake Memorial Community	Community	Brewerville City	107	107	107	20865	Low	Logistic	Cost
3010082	Greater Monrovia	House of Prayer for All Nations	Private	New Kru Town	54	45	45	14490	Low	Logistic	Cost
3012042	St. Paul River	Isaac G. Tondo Public	Public	Jahtono	143	152	152	23256	Low	Logistic	Cost
3006080	Greater Monrovia	Island Community	Community	New Georgia	60	69	69	16422	Low	Logistic	Cost
3010185	Greater Monrovia	Island Foundation Preparatory	Private	Twe Farm	69	94	94	18330	Low	Logistic	Cost
3010124	Greater Monrovia	J. N. W. Primary	Private	New Kru Town	61	58	58	13804	Low	Logistic	Cost
3012041	St. Paul River	Jaycal Institute of Foundational Learning	Private	Zaye Town	91	101	101	19695	Low	Logistic	Cost
3010031	Greater Monrovia	Jeremiah Memorai Institute	Mission	New Kru Town	44	36	36	11592	Low	Logistic	Cost
3012091	St. Paul River	Jimmie Dugbe AGM High	Mission	Brewerville City	0	0	0	0	Low	Logistic	Cost
3006094	Greater Monrovia	Joel's Preparatory Elementary & Junior High	Private	New Georgia	138	150	150	22950	Low	Logistic	Cost
3012022	St. Paul River	John L. Divine Memorial Elementary & Junior High	Private	Parker Cornor	82	58	58	13804	Low	Logistic	Cost
3012011	St. Paul River	Julia C. Emery Hall Bromley Mission	Mission	Clay Ashland	0	45	45	14490	Low	Logistic	Cost
3006229	Greater Monrovia	Julius Memorial Institute	Private	New Georgia	81	90	90	17550	Low	Logistic	Cost
3010422	Greater Monrovia	K. W. Nyenkan Memorial Institute	Mission	Duala	91	53	53	17066	Low	Logistic	Cost
3012040	St. Paul River	Kahatain Children Village	Public	Brewerville City	119	72	72	17136	Low	Logistic	Cost
3006218	Greater Monrovia	Keenan Institute	Community	New Georgia	101	134	134	22780	Low	Logistic	Cost
3012019	St. Paul River	Kingdom Living Mission	Private	Red Hill Community	50	61	61	14518	Low	Logistic	Cost
3006123	Greater Monrovia	King's Foundation Academy	Community	Caldwell	97	99	99	19305	Low	Logistic	Cost
3006136	Greater Monrovia	Knowledge Foundation	Private	New Georgia	23	23	23	13202	Low	Logistic	Cost
3012085	St. Paul River	Kpallah Public	Public	Brewerville City	232	212	0	0	Low	Logistic	Cost
3012007	St. Paul River	Kpekor Public	Public	Kpeyor	49	42	42	13524	Low	Logistic	Cost
3006093	Greater Monrovia	Lawrence P. Hardy Baptist Elementary	Mission	New Georgia	39	46	46	14812	Low	Logistic	Cost
3012076	St. Paul River	Leslie Walter Thomas Institute	Private	Banjour	19	24	24	13776	Low	Logistic	Cost
3010123	Greater Monrovia	Liberia Islamic and English Mission	Private	New Kru Town	113	155	155	23715	Low	Logistic	Cost
3010129	Greater Monrovia	Liberia Navy Elementary	Public	Point Four	4	8	0	0	Low	Logistic	Cost
3012073	St. Paul River	Liberian School for The Deaf	Private	Mango Town	26	13	0	0	Low	Logistic	Cost
3012138	St. Paul River	Lott Carey Baptist Mission	Mission	Brewerville City	58	82	82	19516	Low	Logistic	Cost
3010130	Greater Monrovia	M. J. Nuah English & Arabic Jr. High	Private	Duala	89	84	84	19992	Low	Logistic	Cost
3006112	Greater Monrovia	Maranatha Baptist	Mission	Caldwell	40	47	47	15134	Low	Logistic	Cost
3006306	Greater Monrovia	Marie Washington Primary	Community	U Curve	42	62	62	14756	Low	Logistic	Cost
2406083	Greater Monrovia	Mission for Today Elementary	Community	Kakata	52	42	42	13524	Low	Logistic	Cost
3010343	Greater Monrovia	Mohamed Salim Bakhit Community	Community	Duala	149	104	104	20280	Low	Logistic	Cost
3010389	Greater Monrovia	Monjue And Toe	Private	New Kru Town	51	44	44	14168	Low	Logistic	Cost
3012124	St. Paul River	Mother Albertha Jerue Community	Community	Plumkor	64	67	67	15946	Low	Logistic	Cost
3012057	St. Paul River	Mother Tegeste Stewart Apostolic Pentecostal Miss	Mission	Brewerville City	72	81	81	19278	Low	Logistic	Cost
3012074	St. Paul River	Nancy Nayreau Pre-primary	Public	Freetown Virginia	67	96	96	18720	Low	Logistic	Cost
3012027	St. Paul River	Ndee Miatta Memorial Foundation	Private	Hotel Africa	0	0	0	0	Low	Logistic	Cost
3012128	St. Paul River	New Creation Mission System	Mission	Moulton Cornor	11	10	0	0	Low	Logistic	Cost
3010175	Greater Monrovia	New Era International	Private	Point Four	73	70	70	16660	Low	Logistic	Cost
3006178	Greater Monrovia	New Georgia Estate	Public	New Georgia	354	357	0	0	Low	Logistic	Cost
3006226	Greater Monrovia	New Georgia Foundation House Day Care	Private	New Georgia	15	15	0	0	Low	Logistic	Cost
3006081	Greater Monrovia	New Georgia Nursery & Elementary	Public	New Georgia	249	91	91	17745	Low	Logistic	Cost
3010048	Greater Monrovia	Nimely Brother Preparatory	Private	New Kru Town	118	99	99	19305	Low	Logistic	Cost
3006167	Greater Monrovia	Palm Village Early Learning	Private	Caldwell	59	41	41	13202	Low	Logistic	Cost
3012121	St. Paul River	Pamela Kay Elem & Jr. High(Family Life Mission)	Mission	Banjour	61	77	77	18326	Low	Logistic	Cost
3012064	St. Paul River	Patient Eudurance	Private	Clay Ashland	23	27	27	15498	Low	Logistic	Cost
3012125	St. Paul River	Plunkor Community	Community	Plumkor	59	35	35	11270	Low	Logistic	Cost
3010019	Greater Monrovia	Point Four Elementary	Public	New Kru Town	1059	1015	0	0	Low	Logistic	Cost
3010108	Greater Monrovia	R. D. Tarpeh Community Institute	Community	New Kru Town	89	49	49	15778	Low	Logistic	Cost
3012060	St. Paul River	R. W. Horton Baptist	Mission	Banjour	83	61	61	14518	Low	Logistic	Cost
3012013	St. Paul River	Red Hill Community Academy	Community	Red Hill Community	59	36	36	11592	Low	Logistic	Cost
3006166	Greater Monrovia	Reggie Thomas Academy	Private	Caldwell	41	40	40	12880	Low	Logistic	Cost
3012063	St. Paul River	Regina Davies Maclean AME Zion	Mission	Brewerville City	29	25	25	14350	Low	Logistic	Cost
3012146	St. Paul River	Rick Institute Elem/Sr High School	Mission	Brewerville City	79	86	86	20468	Low	Logistic	Cost
3012005	St. Paul River	Rosa's Preparatory System	Private	Brewerville City	153	140	140	21420	Low	Logistic	Cost
3010024	Greater Monrovia	Saint Lawrence Elementary & Junior High	Private	New Kru Town	64	95	95	18525	Low	Logistic	Cost
3010104	Greater Monrovia	Samuel Slewion Doe Memorial Institute	Mission	New Kru Town	83	86	86	20468	Low	Logistic	Cost
3010067	Greater Monrovia	Samuel Victor Malu Institute	Private	Duala	89	53	53	17066	Low	Logistic	Cost
3012078	St. Paul River	Sarah Barclay Elementary	Public	Virgina	277	301	0	0	Low	Logistic	Cost
3006050	Greater Monrovia	Sarah N. Freeman Memorial Academy	Community	Gbandi Town	23	42	42	13524	Low	Logistic	Cost
3010059	Greater Monrovia	Savaco Community	Private	Vai Town	8	6	0	0	Low	Logistic	Cost
3012037	St. Paul River	School For The Blind	Public	Mango Town	20	7	0	0	Low	Logistic	Cost
3012077	St. Paul River	Sean Devereux Community	Private	Perry Town	62	49	49	15778	Low	Logistic	Cost
3012068	St. Paul River	Shap-Good Shepherd Community	Mission	Hotel Africa	50	57	57	18354	Low	Logistic	Cost
3006051	Greater Monrovia	Sim Community Elementary & Junior High	Public	Caldwell	147	169	0	0	Low	Logistic	Cost
3006339	Greater Monrovia	Solomon Temple Assemble of God Mission	Mission	New Georgia	15	21	21	12054	Low	Logistic	Cost
3010028	Greater Monrovia	Source Institutue	Private	Duala	133	150	150	22950	Low	Logistic	Cost
3010053	Greater Monrovia	St. Augustus Community	Mission	New Kru Town	57	39	39	12558	Low	Logistic	Cost
3012092	St. Paul River	St. Gabriel Catholic	Mission	Parker Cornor	84	65	65	15470	Low	Logistic	Cost
3010078	Greater Monrovia	St. Georgia Community Academy	Private	New Kru Town	30	37	37	11914	Low	Logistic	Cost
3010102	Greater Monrovia	St. Mary Catholic	Mission	Monrovia	259	336	0	0	Low	Logistic	Cost
3006666	Greater Monrovia	St. Michael Catholic High	Mission	New Georgia	0	0	0	0	Low	Logistic	Cost
3010161	Greater Monrovia	St. Paul Bridge Community	Mission	Monrovia	50	55	55	17710	Low	Logistic	Cost
3010357	Greater Monrovia	St. Paul Day Care	Private	Duala	89	88	88	17160	Low	Logistic	Cost
3010081	Greater Monrovia	St. Thomas Episcopal	Mission	New Kru Town	55	50	50	16100	Low	Logistic	Cost
3006021	Greater Monrovia	Star International Academy	Private	Gardnersville	124	130	130	22100	Low	Logistic	Cost
3006039	Greater Monrovia	Stella Ferguson Community	Community	New Georgia	58	59	59	14042	Low	Logistic	Cost
3006681	Greater Monrovia	Temple Out-Reach System	Mission	Caldwell	27	36	36	11592	Low	Logistic	Cost
3010093	Greater Monrovia	Teta Community	Community	Point Four	49	57	57	18354	Low	Logistic	Cost
3010049	Greater Monrovia	The Salvation Army New Kru Town Out Post Day-Care	Mission	New Kru Town	0	0	0	0	Low	Logistic	Cost
3012055	St. Paul River	Thelma A. Morgan Preparatory	Private	Back Bush	23	34	34	10948	Low	Logistic	Cost
3010356	Greater Monrovia	Tiding of Peace Day-Care Community	Private	Duala	43	47	47	15134	Low	Logistic	Cost
3010356	Greater Monrovia	Tiding of Peace Day-Care Community	Private	Duala	43	47	47	15134	Low	Logistic	Cost
3010160	Greater Monrovia	Tomorrow Children Intertional	Private	Point Four	73	66	66	15708	Low	Logistic	Cost
3010174	Greater Monrovia	Trinity United Methodist	Mission	New Kru Town	78	62	62	14756	Low	Logistic	Cost
3006077	Greater Monrovia	Triumph Christian Academy	Private	Caldwell	93	82	82	19516	Low	Logistic	Cost
3012024	St. Paul River	Triumph Church Mission	Mission	Moulton Cornor	106	121	121	20570	Low	Logistic	Cost
3006177	Greater Monrovia	True Vine Institute	Community	New Georgia	183	177	0	0	Low	Logistic	Cost
3010006	Greater Monrovia	Universal Salvation In Christ Ministry	Private	Duala	20	15	0	0	Low	Logistic	Cost
3006682	Greater Monrovia	Upper Caldwell Community	Public	Caldwell	190	195	0	0	Low	Logistic	Cost

3010046	Greater Monrovia	Urban	Day Community	Private	Duala	48	45	45	14490	Low	Logistic Cost
3012008	St. Paul River	Virginia	Christian Academy	Private	Hotel Africa	54	114	114	19380	Low	Logistic Cost
3012071	St. Paul River	Virginia	First AGM	Mission	Freetown Virginia	123	135	135	22950	Low	Logistic Cost
3012035	St. Paul River	Vonzon	Public	Public	Vonzohn	239	210	0	0	Low	Logistic Cost
3010221	Greater Monrovia	Wesleyan	Academy	Private	Caldwell Junction	50	96	96	18720	Low	Logistic Cost
3012025	St. Paul River	Wesleyan	Elementary	Private	Chase Town	8	8	0	0	Low	Logistic Cost
3012062	St. Paul River	William D. Coleman	Junior High	Public	Central Virginia	61	44	44	14168	Low	Logistic Cost
3006132	Greater Monrovia	William Gabriel Kpolleh	Memorial (New Georgia)	Public	New Georgia	542	506	0	0	Low	Logistic Cost
3012017	St. Paul River	William V. S. Tubman	Pre-Primary	Public	Central Virginia	50	45	45	14490	Low	Logistic Cost
2402162	Greater Monrovia	Wochirrc	Rehabilitation Institute	Mission	Boys Town Junction	25	9	0	0	Low	Logistic Cost
3006685	Greater Monrovia	Zion A.G.	Community	Mission	Caldwell	182	130	130	22100	Low	Logistic Cost
3008007	Todee	Amos Town	Public	Public	Amos Town	42	52	52	16744	Medium	Logistic Cost
3008008	Todee	Barh Town	Public	Public	Bah Town	50	46	46	14812	Medium	Logistic Cost
3008055	Todee	Boyowah Town	Public	Public	Denoe Town	15	15	0	0	Medium	Logistic Cost
3008016	Todee	Cecelia A. Dumber	Public	Public	Freeman Reserve	143	176	0	0	Medium	Logistic Cost
3008052	Todee	Dein Clan	Public	Public	Todee Mission	36	12	0	0	Medium	Logistic Cost
3008031	Todee	Doris G. Holder	Public	Public	Holder (1)	51	39	39	12558	Medium	Logistic Cost
3008012	Todee	Fahnseh	Public	Public	Fahnseh	69	44	44	14168	Medium	Logistic Cost
3008065	Todee	Gborgor Town	Public	Public	Gabbai Farm Community	90	76	76	18098	Medium	Logistic Cost
3008057	Todee	Geblam	Public	Public	Nyein	114	83	83	19754	Medium	Logistic Cost
3008017	Todee	Goba Town	Public	Public	Garbo Town	130	131	131	22270	Medium	Logistic Cost
3008024	Todee	Jovahn Public/Yeahd	Public	Public	Zinc Camp	54	40	40	12880	Medium	Logistic Cost
3008042	Todee	June L Moore	Public	Public	Kontee Town	139	141	141	21573	Medium	Logistic Cost
3008021	Todee	Kiankai Public School	Public	Public	Kingah	81	41	41	13202	Medium	Logistic Cost
3008045	Todee	Killings Worth	Mission	Private	Koon Town	63	56	56	18032	Medium	Logistic Cost
3008019	Todee	Kings Kids Foundation	Private	Private	Gbayan Town	21	26	26	14924	Medium	Logistic Cost
3008002	Todee	Koon Town	Public	Public	Koon Town	59	40	40	12880	Medium	Logistic Cost
3008015	Todee	Lower Dein	Public	Public	Manjoe Town	18	16	0	0	Medium	Logistic Cost
3008066	Todee	Molley	Public	Public	Molley Town	43	39	39	12558	Medium	Logistic Cost
3008029	Todee	Nyehn Town	Public	Public	Nyehn	59	47	47	15134	Medium	Logistic Cost
3008018	Todee	Nyehn # 2	Public	Public	Woodie	186	129	129	21930	Medium	Logistic Cost
3008023	Todee	Pleemu	Public	Public	Pleemu	170	157	157	24021	Medium	Logistic Cost
3008010	Todee	Preach The world System	Private	Private	Beadee	54	57	57	18354	Medium	Logistic Cost
3008020	Todee	Sackey Town	Community	Public	Sackie Town	6	3	0	0	Medium	Logistic Cost
3008006	Todee	Sekallay Town	Public	Public	Sekally Town	41	55	55	17710	Medium	Logistic Cost
3008051	Todee	Todee Christian Academy	Private	Private	Todee Mission	93	93	93	18135	Medium	Logistic Cost
3008053	Todee	Tubman Military Academy (TMA)	Public	Public	Todee Mission	19	13	0	0	Medium	Logistic Cost
3008059	Todee	Wesleyan Elementary Community	Private	Private	Fahnseh	40	38	38	12236	Medium	Logistic Cost
3008004	Todee	Willie Town	Public	Public	kekula Willie Town	42	66	66	15708	Medium	Logistic Cost
3008058	Todee	Yoe Town	Public	Public	Fahnseh	81	93	93	18135	Medium	Logistic Cost
3008001	Todee	Zolu Paye Town	Public	Public	Zopaye Town	23	20	20	11480	Medium	Logistic Cost

## APPENDIX B: BONG

Note: Schools are sorted on those having LOGISTIC COSTS ranging from *low* to *medium* to *high* (last column). The preceding Column-COSTGS-is the factored scholarship cost only for the number of girls at primary level of those schools in the Reading First + Math program of the USAID-LTTP project. If the number is "0" then the school is not in the program, but falls within the circumscribed area indicated by the corresponding county map.

### BONG

CODE	DISTRICT	SCHOOLNA	TYPEOFSC	LOCALITY	PRIMB	PRIMG	PRIMG3	COSTGS	CostType
0610008	Salala	Kpakolokoyaja Community	Public	Kpakoloyata	163	161	161	24633	Low Logistic Cost
0610017	Salala	Martha Tubman Elementary & Junior High	Public	Salala	199	192	0	0	Low Logistic Cost
0610011	Salala	Veleanyi Public	Public	Veleanyi	50	36	36	11592	Low Logistic Cost
0610016	Salala	Felelah Public Elementary & Junior High	Public	Felelah	196	208	0	0	Low Logistic Cost
0610031	Salala	Kpatolee Old Folk Elementary	Public	Worpu-Ta	41	30	30	9660	Low Logistic Cost
0610023	Salala	Saysala Community	Public	Salala	74	40	40	12880	Low Logistic Cost
0610010	Salala	Gormalon P. Walker Community	Public	Salala	112	77	77	18326	Low Logistic Cost
0610028	Salala	Japan Town Community	Public	Japanta	21	22	22	12628	Low Logistic Cost
0604046	Jorquelleh	Dorothy Cooper Elementary & Jr. High	Public	Amosta	260	282	0	0	Low Logistic Cost
0604073	Jorquelleh	Flomo T. Barwor Public	Public	Barwor Town	51	41	41	13202	Low Logistic Cost
0604042	Jorquelleh	N. V. Massaquoi Elementary & Junior High	Public	Gbarnga	338	319	0	0	Low Logistic Cost
0616008	Jorquelleh	Kpaiyah Elementary	Public	Kpanyah	98	112	112	21840	Low Logistic Cost
0608064	Kpaai	Jarmu Public	Public	Jarmu	77	59	59	14042	Low Logistic Cost
0604018	Jorquelleh	J. F. Clerk Elementary	Public	Gaita	186	263	0	0	Low Logistic Cost
0604008	Jorquelleh	Jorpenmue Community	Public	Gbarnga	144	136	136	23120	Low Logistic Cost
0604020	Jorquelleh	John F. Bakalu Elementary and Junior high	Public	Gbarnga	472	464	0	0	Low Logistic Cost
0604022	Jorquelleh	Dorothy Cooper Kindergarten & Primary	Public	Gbarnga	46	57	57	18354	Low Logistic Cost
0606067	Jorquelleh	Bellemue Public	Public	Bellemue	48	50	50	16100	Low Logistic Cost
0608014	Panta	Schankpowai Public	Public	Shankpowah	50	25	25	14350	Low Logistic Cost
0608003	Kpaai	Quoipa Public	Public	Kpai	51	50	50	16100	Low Logistic Cost
0608061	Kpaai	Gormah Memorial Elementary	Public	Kpaikpala	64	49	49	15778	Low Logistic Cost
0608017	Panta	Gwaimyea Public	Public	Gwainyea	76	29	29	16646	Low Logistic Cost
0608010	Panta	Corporal G. Woah Elementary & Jr. High	Public	Belleqanla	146	107	107	20865	Low Logistic Cost
0608024	Kpaai	Quayee Public	Public	Lawarta	82	83	83	19754	Low Logistic Cost
0608019	Kpaai	Kowai Elementary	Public	Kowai	45	27	27	15498	Low Logistic Cost
0608028	Kpaai	Youth Mission Elementary & Junior High	Public	Fola	77	49	49	15778	Low Logistic Cost
0608012	Kpaai	Nya Koi Elementary & Junior High	Public	Falala	202	205	0	0	Low Logistic Cost
0608005	Panta	Dolokelen Paye Elementary & Junior High	Public	Foquelleh	55	120	120	20400	Low Logistic Cost
0608050	Kpaai	Tomato Camp Public	Public	Tomato Camp	69	81	81	19278	Low Logistic Cost
0608048	Kpaai	Yila Community	Public	Yeila	52	43	43	13846	Low Logistic Cost
0608043	Kpaai	Samuel B. Cooper Public	Public	Baila	126	82	82	19516	Low Logistic Cost
0608006	Kpaai	Nyaforkollie Elem/Jr/Sr. High	Public	Zowienta	69	52	52	16744	Low Logistic Cost
0608018	Kpaai	David F. Bee Elementary	Public	Sarworlor	81	99	99	19305	Low Logistic Cost
0608045	Kpaai	Gonkorjouah Town Elementary	Public	Kpaai	41	57	57	18354	Low Logistic Cost
0608047	Kpaai	Zarwuh Public	Public	Gahn	77	49	49	15778	Low Logistic Cost
0608049	Kpaai	Fantee Community	Public	Fantee	32	35	35	11270	Low Logistic Cost
0608013	Kpaai	Tassah Community	Public	Tarsai	28	30	30	9660	Low Logistic Cost
0608034	Kpaai	Charlie K. Too Elementary & Junior High	Public	Minita	45	46	46	14812	Low Logistic Cost
0608004	Kpaai	J. Samuel Milton Elementary & Junior High	Public	Zebay	97	54	54	17388	Low Logistic Cost
0608027	Kpaai	K. G. S. Kapu Public	Public	Palala	65	57	57	18354	Low Logistic Cost
0608031	Kpaai	Green Hill Quarry Public Elementary	Public	Green Hill Quarry	33	28	28	16072	Low Logistic Cost
0608033	Panta	Gowhua Public	Public	Gowhum	12	24	24	13776	Low Logistic Cost
0608063	Kpaai	Belleqanla Public	Public	Belleqanla	85	48	48	15456	Low Logistic Cost
0608062	Kpaai	Tokpah J. Mulbah Elementary	Public	Duta	54	41	41	13202	Low Logistic Cost
0608023	Panta	John T. Cooper Elementary	Public	Gbaota	82	92	92	17940	Low Logistic Cost
0608035	Kpaai	Dolobai Nyanon Public	Public	Zowiesonor	43	28	28	16072	Low Logistic Cost
0608032	Kpaai	Duannah Public	Public	Lorta Town	38	28	28	16072	Low Logistic Cost
0604029	Jorquelleh	Chief Compound Elem./Jr. High	Public	Gbarnga	126	127	127	21590	Low Logistic Cost
0610043	Salala	Alhaj Vamuyah Corneh	Public	Vamuyah Corneh Farm	31	14	0	0	Low Logistic Cost
0604077	Jorquelleh	Anointed Word of Faith	Private	Gbarnga	35	37	37	11914	Low Logistic Cost
0604053	Jorquelleh	Blessing Kerneah Central	Private	Gbarnga	41	48	48	15456	Low Logistic Cost
0604052	Jorquelleh	Bong Community	Community	Gbarnga	70	75	75	17850	Low Logistic Cost
0604035	Jorquelleh	Calvary Preparatory System	Mission	Gbarnga	68	61	61	14518	Low Logistic Cost
0604049	Jorquelleh	Children Foundation Academic	Mission	Gbarnga	42	94	94	18330	Low Logistic Cost
0604076	Jorquelleh	Christ Children Home	Mission	Gbarnga	59	54	54	17388	Low Logistic Cost
0604054	Jorquelleh	Christian Baptist Elem.	Mission	Gbarnga	23	16	0	0	Low Logistic Cost
0610030	Salala	Community Apostolic Foundation	Mission	Saysayla	32	20	20	11480	Low Logistic Cost
0604011	Jorquelleh	Community House Elementary	Community	Gbarnga	28	55	55	17710	Low Logistic Cost
0604014	Jorquelleh	D. F. Kohoe Elementary	Private	Amosta	40	42	42	13524	Low Logistic Cost
0604051	Jorquelleh	Dokai Christain Academy	Private	Gbarnga	42	45	45	14490	Low Logistic Cost
0604048	Jorquelleh	Dolekelen Gboveh High	Public	Gbarnga	0	0	0	0	Low Logistic Cost
0604030	Jorquelleh	Dolo Community Elementary & Junior High	Community	Gbarnga	44	54	54	17388	Low Logistic Cost
0604071	Jorquelleh	Glory Academy Franjo	Private	Collins Street-franjoe	47	57	57	18354	Low Logistic Cost
0604060	Jorquelleh	Good Shepard Elementary	Private	Gbarnga	26	20	20	11480	Low Logistic Cost
0604026	Jorquelleh	Grace Baptist Elementary & Junior High	Private	Gbarnga	66	66	66	15708	Low Logistic Cost
0604057	Jorquelleh	Inland Christian Academy	Mission	Gbarnga	16	28	28	16072	Low Logistic Cost
0604027	Jorquelleh	Islamic Solidarity Elementary	Community	Gbarnga	63	53	53	17066	Low Logistic Cost
0604017	Jorquelleh	James D. Norris Elementary & Junior High	Private	Ajoi	29	24	24	13776	Low Logistic Cost
0604068	Jorquelleh	Jeff Parker Elementary	Public	Dementa	16	10	0	0	Low Logistic Cost
0604058	Jorquelleh	Jemima S. Carter Memorial Institute	Private	Gbarnga	25	40	40	12880	Low Logistic Cost
0610036	Salala	John Gowans	Private	Salala	0	0	0	0	Low Logistic Cost
0604010	Jorquelleh	Kerkula G. Larteh Community	Community	Gbarnga	36	50	50	16100	Low Logistic Cost
0616001	Jorquelleh	Kpanyah Elementary Public	Public	Kpanyah	221	186	0	0	Low Logistic Cost
0604013	Jorquelleh	L. B. S. Wahn Elementary	Private	Gbarnga	83	109	109	21255	Low Logistic Cost

0604016	Jorquelleh	Liberia Assembly of God Foundation	Private	Gbarnga	15	44	44	14168	Low	Logistic	Cost
0604037	Jorquelleh	Liberia Muslim Youth Association, English/Arab	Mission	Gbarnga	143	79	79	18802	Low	Logistic	Cost
0604006	Jorquelleh	Macedonia Baptist	Mission	Gbarnga	39	59	59	14042	Low	Logistic	Cost
0610037	Salala	Marshansue S.D.A. Community	Mission	Marshansue	37	23	23	13202	Low	Logistic	Cost
0608046	Kpaai	Mercy Baptist Elementary	Mission	Green Hill Quarry	22	10	0	0	Low	Logistic	Cost
0610044	Salala	Mother Celestine Boozie Institute	Mission	Marshansue	80	82	82	19516	Low	Logistic	Cost
0604055	Jorquelleh	Mother Louise Marias Neufville	Mission	Gbarnga	44	37	37	11914	Low	Logistic	Cost
0604065	Jorquelleh	Mount Sinai Baptist High	Mission	Kokoyah/ Dementa Road	70	51	51	16422	Low	Logistic	Cost
0604025	Jorquelleh	Paul Rader Salvation Army	Private	Gbarnga	92	85	85	20230	Low	Logistic	Cost
0604059	Jorquelleh	Redeemed Team Preparatory	Private	Gbarnga	71	100	100	19500	Low	Logistic	Cost
0604034	Jorquelleh	Roots Community	Community	Gbarnga	35	41	41	13202	Low	Logistic	Cost
0604007	Jorquelleh	S. Kpoto Baysah Community Based	Private	Gbarnga	70	66	66	15708	Low	Logistic	Cost
0608041	Panta	Saint Thomas Lutheran Elementary & Junior High	Mission	Foequelleh	50	53	53	17066	Low	Logistic	Cost
0610005	Salala	Salala Lutheran Parish	Mission	Salala	40	36	36	11592	Low	Logistic	Cost
0604012	Jorquelleh	School of Faith	Mission	Gbarnga	97	104	104	20280	Low	Logistic	Cost
0604063	Jorquelleh	School of Wisdom	Private	Chief Compound	31	12	0	0	Low	Logistic	Cost
0604009	Jorquelleh	Sis. Ruth Memorial Elementary	Private	Gbarnga	99	87	87	20706	Low	Logistic	Cost
0610039	Salala	St. Louise Catholic Community	Mission	Salala	51	60	60	14280	Low	Logistic	Cost
0608025	Kpaai	St. Mark Catholic	Mission	Palala	52	50	50	16100	Low	Logistic	Cost
0604032	Jorquelleh	St. Mark Lutheran High	Mission	Gbarnga	90	103	103	20085	Low	Logistic	Cost
0604044	Jorquelleh	St. Martin Cathlic High	Mission	Gbarnga	282	227	0	0	Low	Logistic	Cost
0604039	Jorquelleh	St. Mtthews Academy	Private	Gbarnga	111	136	136	23120	Low	Logistic	Cost
0608042	Kpaai	St. Paul Lutheran Mission	Private	Zowienta	18	9	0	0	Low	Logistic	Cost
0604047	Jorquelleh	St. Peter Episcopal Elementary, Junior and Se	Private	Gbarnga	80	75	75	17850	Low	Logistic	Cost
0604040	Jorquelleh	Sugar Hill Community	Community	Gbarnga	90	120	120	20400	Low	Logistic	Cost
0610009	Salala	Vision Community Institute	Community	Felelah	43	31	31	9982	Low	Logistic	Cost
0604021	Jorquelleh	William V. S. Tubman Gray High	Mission	Gbarnga	169	117	117	19890	Low	Logistic	Cost
0604056	Jorquelleh	World Overcomers Academy	Private	Gbarnga	23	33	33	10626	Low	Logistic	Cost
0604062	Jorquelleh	Yarkpawolo Suehpaye Public	Public	Gbonae	53	43	43	13846	Low	Logistic	Cost
0610014	Salala	Polan Gbomah Elementary	Public	Santa	83	81	81	19278	Medium	Logistic	Cost
0610019	Salala	Botoe Barclay Elementary Public	Public	Nyaniquelleh	150	128	128	21760	Medium	Logistic	Cost
0604023	Jorquelleh	Dolokelen Barror	Public	Gbarnga	265	257	0	0	Medium	Logistic	Cost
0614025	Yeallequelle	Garwoquelleh Emementary	Public	Garwolquelleh	155	133	133	22610	Medium	Logistic	Cost
0614008	Suakoko	Suakoko Central High	Public	Suakoko	114	126	126	21420	Medium	Logistic	Cost
0614049	Yeallequelle	Pengai Public School	Public	Pengai	22	11	0	0	Medium	Logistic	Cost
0614015	Yeallequelle	Kandakia Community	Public	Kandakaita	112	98	98	19110	Medium	Logistic	Cost
0614019	Yeallequelle	James R. Stewart Elementray	Public	Gbandela	144	122	122	20740	Medium	Logistic	Cost
0614042	Suakoko	G. W. Gibson High	Public	Sinyea	254	205	0	0	Medium	Logistic	Cost
0614043	Suakoko	Gokai Community Elementary	Public	Gokai	78	30	30	9660	Medium	Logistic	Cost
0614052	Yeallequelle	Kokormah Public	Public	Kokormah	40	39	39	12558	Medium	Logistic	Cost
0614047	Yeallequelle	Nyaita Community	Public	Nyaita Town	22	42	42	13524	Medium	Logistic	Cost
0614064	Yeallequelle	Gbelemah Elementary & Junior High	Public	Zeansue	186	100	100	19500	Medium	Logistic	Cost
0614013	Suakoko	Gbonokalansue Elementray	Public	Gbonokalansue	78	112	112	21840	Medium	Logistic	Cost
0614004	Suakoko	Balamah Public	Public	Balamah	116	60	60	14280	Medium	Logistic	Cost
0614062	Yeallequelle	David Fejuje Elem./Jr. High	Public	Gbartala Town	254	195	0	0	Medium	Logistic	Cost
0614027	Yeallequelle	Flomo Garlawulu Public	Public	Garlawulu Town	20	18	0	0	Medium	Logistic	Cost
0616034	Jorquelleh	Maluquellie Public	Public	Maluquellie	44	34	34	10948	Medium	Logistic	Cost
0616003	Jorquelleh	D. T. Woah Tee Elementary	Public	Gbarmu	121	110	110	21450	Medium	Logistic	Cost
0616042	Jorquelleh	Kpai Public	Public	Kpaai	250	158	158	24174	Medium	Logistic	Cost
0616002	Jorquelleh	Gbelekpalaai Public	Public	Gbelekpalah	141	97	97	18915	Medium	Logistic	Cost
0616036	Zota	Sianneh-Ta Public Elementary	Public	Sianneh Ta	177	144	144	22032	Medium	Logistic	Cost
0616032	Jorquelleh	Geita Public Elementary	Public	Yarkpolah	116	221	0	0	Medium	Logistic	Cost
0616016	Zota	Togbah Kolliebor Elementary	Public	Felelei	189	182	0	0	Medium	Logistic	Cost
0616015	Zota	Gbarkonah Elementary	Public	Gbarkonah	293	118	118	20060	Medium	Logistic	Cost
0616035	Zota	Nuarpah/Waterside Elem. School	Public	Waterside	271	226	0	0	Medium	Logistic	Cost
0616017	Zota	Kpoloyah Public	Public	Koloyah Town	140	61	61	14518	Medium	Logistic	Cost
0616024	Zota	William R. Tolbert Elementary & Junior High	Public	Gbalatuah	349	272	0	0	Medium	Logistic	Cost
0616021	Zota	Kollie-Ta Public	Public	Kollietta	221	113	113	19210	Medium	Logistic	Cost
0616020	Zota	Yowee Public	Public	Yowee	295	114	114	19380	Medium	Logistic	Cost
0616027	Zota	Josiah K. Paye Elementary	Public	Gbansue Nyaakai	105	67	67	15946	Medium	Logistic	Cost
0616011	Jorquelleh	Wanakpai Children Mission Elementary	Community	Wanakapala	240	214	0	0	Medium	Logistic	Cost
0606024	Boinsen	Queh Garyeazor Public	Public	Queh-Garyazor	22	8	0	0	Medium	Logistic	Cost
0606036	Boinsen	U-lah Elementary Junior & High	Public	U-lah	210	208	0	0	Medium	Logistic	Cost
0606004	Boinsen	Sayeweh Town Community	Public	Sayeweh	43	13	0	0	Medium	Logistic	Cost
0606010	Tukpahblee	Wesseh Gardea Elementary & Junior High	Public	Botota	94	53	53	17066	Medium	Logistic	Cost
0602005	Fuamah	Willieta Public	Public	Willieta	26	31	31	9982	Medium	Logistic	Cost
0606021	Boinsen	Quoi-Kapor Elementary and Junior High	Public	Quoi-Kapor	45	30	30	9660	Medium	Logistic	Cost
0606025	Boinsen	New Town Community	Public	New Town	86	69	69	16422	Medium	Logistic	Cost
0606041	Tukpahblee	Faeyawoi Community Public	Public	Gbarlorpalah (1)	92	90	90	17550	Medium	Logistic	Cost
0606014	Boinsen	Gbartata Public	Public	Big Gbartata	87	76	76	18088	Medium	Logistic	Cost
0606013	Tukpahblee	Dolobai Elementary & Junior High	Public	Gbecohn	207	94	94	18330	Medium	Logistic	Cost
0606017	Boinsen	Boinwein Progressive Elementary	Public	Soclo Town	114	87	87	20706	Medium	Logistic	Cost
0612024	Sanoyeah	Gbanbay Giddings Public	Public	Saw Mill	28	21	21	12054	Medium	Logistic	Cost
0616022	Zota	Gorpu Doloboi Elem./Jr. High School	Public	Belefannia	395	306	0	0	Medium	Logistic	Cost
0616019	Zota	Mbelequoh Public School	Public	Mbelequah	220	97	97	18915	Medium	Logistic	Cost
0612002	Sanoyeah	Piata Public	Public	Piata	156	172	0	0	Medium	Logistic	Cost
0612028	Sanoyeah	Sumo Gbamokollie Public	Public	Gbamokollie-ta	88	66	66	15708	Medium	Logistic	Cost
0612017	Sanoyeah	Jarkpa-ta Public	Public	Walala (1)	93	69	69	16422	Medium	Logistic	Cost
0614053	Yeallequelle	Peter Perkin Public	Public	Perkin Town	19	20	20	11480	Medium	Logistic	Cost
0612032	Sanoyeah	Worlorsue Public	Public	Worlorsue	130	131	131	22270	Medium	Logistic	Cost
0612036	Sanoyeah	Galawulu Public	Public	Galawulu-ta	29	19	0	0	Medium	Logistic	Cost
0612030	Sanoyeah	Volomeni Public	Public	Volomeni Town	69	33	33	10626	Medium	Logistic	Cost
0612034	Sanoyeah	Boyea Public	Public	Boyea	130	58	58	13804	Medium	Logistic	Cost
0612016	Sanoyeah	Sanoyea Public School	Public	Sanoyea	201	199	0	0	Medium	Logistic	Cost
0612035	Sanoyeah	Darnenamah Public	Public	Darnenamah	56	54	54	17388	Medium	Logistic	Cost
0612011	Sanoyeah	Kelepei Public	Public	Kelepei	72	61	61	14518	Medium	Logistic	Cost
0612006	Sanoyeah	Napuyeamah Public	Public	Nyeapolu	53	34	34	10948	Medium	Logistic	Cost
0612042	Sanoyeah	Nyallai Public	Public	Nyallaa	173	129	129	21930	Medium	Logistic	Cost
0612014	Sanoyeah	Kamara-ta Community	Public	Kamara-ta	83	79	79	18802	Medium	Logistic	Cost
0612046	Sanoyeah	Marfeleh Sumo public	Public	Gboneya	57	55	55	17710	Medium	Logistic	Cost
0612029	Sanoyeah	Gbarnga Nyelen Ta Public	Public	Gbongagla-Ta	79	49	49	15778	Medium	Logistic	Cost
0612045	Sanoyeah	Wenkai Public	Public	Wenkai	131	107	107	20865	Medium	Logistic	Cost
0612039	Sanoyeah	Liyeen - Ta Public	Public	Liyeen-Ta	34	39	39	12558	Medium	Logistic	Cost

0612038	Sanoyeah	Gbonota Elem./Jr. High	Public	Gbonota	266	217	0	0	Medium	Logistic	Cost
0612005	Sanoyeah	Beletanda Public	Public	Beletanda	68	76	76	18088	Medium	Logistic	Cost
0612031	Sanoyeah	Wennie-Ta Public	Public	Wennie-ta	42	42	42	13524	Medium	Logistic	Cost
0612018	Sanoyeah	Gbogbo-ta Public	Public	Waimue	167	130	130	22100	Medium	Logistic	Cost
0612010	Sanoyeah	Dankpansu Public	Public	Dankpansue	69	57	57	18354	Medium	Logistic	Cost
0612041	Sanoyeah	Nyeam Town Public	Public	Nyeam Town	160	136	136	23120	Medium	Logistic	Cost
0602030	Fuamah	Baduala Public	Public	Boduala	66	57	57	18354	Medium	Logistic	Cost
0602017	Fuamah	Gbandi Community	Public	Nyeam	33	20	20	11480	Medium	Logistic	Cost
0602016	Fuamah	Lawana Elementary	Public	New Town	75	71	71	16898	Medium	Logistic	Cost
0602015	Fuamah	Christian Norman Public	Public	Cephas Town	79	64	64	15232	Medium	Logistic	Cost
0602001	Fuamah	Bong Central High	Public	Bong Town	213	204	0	0	Medium	Logistic	Cost
0602012	Fuamah	Dobii Island Elementary&Junior High	Public	Haindi	56	40	40	12880	Medium	Logistic	Cost
0602009	Fuamah	Mawah Public	Public	Mauwa	57	61	61	14518	Medium	Logistic	Cost
0602011	Fuamah	Popota Public	Public	Popota	61	66	66	15708	Medium	Logistic	Cost
0602013	Fuamah	Botoe Barclay Public	Public	Nyenta	62	50	50	16100	Medium	Logistic	Cost
0602026	Fuamah	Golowunma Public	Public	Robert	51	37	37	11914	Medium	Logistic	Cost
0614006	Suakoko	Yarwarlee Communitiy	Public	Yarwarlee	150	155	155	23715	Medium	Logistic	Cost
0614040	Suakoko	A. G Community	Mission	Sergeant Kollie Town	53	77	77	18326	Medium	Logistic	Cost
0616013	Jorquelleh	A. G. Mission Elem. School	Community	Wainsue	21	27	27	15498	Medium	Logistic	Cost
0616014	Zota	Beletariai Lutheran Community	Public	Belefanai	260	100	100	19500	Medium	Logistic	Cost
0614032	Suakoko	Bethanay Lutheran	Mission	Suakoko	77	66	66	15708	Medium	Logistic	Cost
0614056	Yeallequelle	Bishop Main Lutheran Accademy	Mission	Zeansue	70	72	72	17136	Medium	Logistic	Cost
0614023	Suakoko	Bong Academy Vocation	Private	Sergeant Kollie Town	13	16	0	0	Medium	Logistic	Cost
0602001	Fuamah	Bong Central High	Public	Bong Town	213	204	0	0	Medium	Logistic	Cost
4206014	Jorquelleh	Chedepo Geeken Public	Public	Gedeken	86	39	39	12558	Medium	Logistic	Cost
0614012	Suakoko	Children Ministry Elementary	Mission	Balamah	29	34	34	10948	Medium	Logistic	Cost
0614057	Yeallequelle	Christian Community Elementary	Mission	Gbatala	87	76	76	18088	Medium	Logistic	Cost
0614029	Suakoko	Cuttington Campus	Mission	Cuttington	47	35	35	11270	Medium	Logistic	Cost
0614030	Suakoko	Cuttington Garden Elementary	Mission	Phebe Community	57	55	55	17710	Medium	Logistic	Cost
0602020	Fuamah	D. Elaine Harris Baptist Elem./Jr High	Private	Bong Town	86	86	86	20468	Medium	Logistic	Cost
0606038	Boinsen	Dolo Town Public	Public	Dolo	111	90	90	17550	Medium	Logistic	Cost
0614005	Suakoko	Dormeyan Nutah Elementary	Public	Nai	32	22	22	12628	Medium	Logistic	Cost
0614044	Suakoko	Faith Community	Community	Suakoko	67	51	51	16422	Medium	Logistic	Cost
0616029	Zota	Farvey Elementray	Public	Farvey	300	181	0	0	Medium	Logistic	Cost
0614021	Suakoko	Flomo Wanneh Elementray	Public	Suakoko	75	111	111	21645	Medium	Logistic	Cost
0614048	Yeallequelle	Gaita Public	Public	Gaita	41	33	33	10626	Medium	Logistic	Cost
0614003	Yeallequelle	Garyea Public	Public	Garyea	107	69	69	16422	Medium	Logistic	Cost
0616018	Zota	Gbansue Suloma Public	Public	Gbansuesuloma	406	181	0	0	Medium	Logistic	Cost
0616004	Jorquelleh	Gbarney Public	Public	Gbarnai	263	183	0	0	Medium	Logistic	Cost
0616025	Zota	Gbokew Kollie Elem./Jr. High	Public	Naama	246	123	123	20910	Medium	Logistic	Cost
0614059	Suakoko	Geamue Community	Public	Geamue	9	4	0	0	Medium	Logistic	Cost
0614031	Yeallequelle	Geayard Public	Public	Geryard	49	47	47	15134	Medium	Logistic	Cost
0614058	Yeallequelle	Good News Christian Community	Mission	Zeansue	110	87	87	20706	Medium	Logistic	Cost
4504013	Sanoyeah	Guworna Public	Public	Guworna	43	37	37	11914	Medium	Logistic	Cost
0614051	Suakoko	Gwetamue Public	Public	Gboi Mue	253	149	149	22797	Medium	Logistic	Cost
0616009	Zota	James M. Togbah Elementary	Public	James Togbah-ta	267	186	0	0	Medium	Logistic	Cost
0616040	Zota	Jarkai Community	Public	Zeo Town	246	162	0	0	Medium	Logistic	Cost
0614018	Yeallequelle	John Payne Mitchell Elementarty & Junior High	Public	Gbondoi	196	150	150	22950	Medium	Logistic	Cost
0616037	Zota	Jonkai Elementary	Public	Jonkai	187	127	127	21590	Medium	Logistic	Cost
0616007	Jorquelleh	K. Daibolo Elementary and Junior High	Public	Wainsue	316	262	0	0	Medium	Logistic	Cost
0606011	Tukpahblee	Karkaimue Community	Public	Karkaimue	31	32	32	10304	Medium	Logistic	Cost
0612040	Sanoyeah	Kirsten Marie Jensen Lutheran	Private	Sanoyeah	64	58	58	13804	Medium	Logistic	Cost
0616023	Jorquelleh	Koryah Community	Public	Koryakkolah	91	63	63	14994	Medium	Logistic	Cost
0614054	Suakoko	Margaret Kennedy Elementary & Junior High	Public	Sergent Kollie Twown SK	154	163	0	0	Medium	Logistic	Cost
0616010	Jorquelleh	Metee Klipko Agro Tech Comm	Community	Whombgah	150	182	0	0	Medium	Logistic	Cost
0602019	Fuamah	Nancy B. Doe	Public	Kilikou-Ta Bongmine	150	131	131	22270	Medium	Logistic	Cost
0602037	Fuamah	Nelporkollie-ta Public	Public	Neipokoli-Ta	38	36	36	11592	Medium	Logistic	Cost
0602023	Fuamah	Nyeam Lutheran Coummunity	Mission	Nyeam	48	45	45	14490	Medium	Logistic	Cost
0602053	Fuamah	Odesa Elementary	Private	Odessa-Ta	47	28	28	16072	Medium	Logistic	Cost
0616028	Zota	Payeta Public	Public	Payeta Town	345	199	0	0	Medium	Logistic	Cost
0614024	Suakoko	Phebe Community Lutheran Hight	Mission	Phebe Community	674	639	0	0	Medium	Logistic	Cost
0614028	Suakoko	Raymond Town Elementary	Public	Menkpon	56	41	41	13202	Medium	Logistic	Cost
0614022	Suakoko	Salvation Cummunty Children Welfare	Mission	Sergeant Kollie Town	5	11	0	0	Medium	Logistic	Cost
0606075	Boinsen	Sawah Gray Memorial Institute	Private	Morris' Town	77	72	72	17136	Medium	Logistic	Cost
0614014	Suakoko	SDA Community	Mission	Sinyea	35	22	22	12628	Medium	Logistic	Cost
0614011	Suakoko	Sinyea Community Assembly Of God	Mission	Sinyea	37	28	28	16072	Medium	Logistic	Cost
0606001	Boinsen	Soul Winning Baptist	Mission	David Dean	19	16	0	0	Medium	Logistic	Cost
0602021	Fuamah	St. Pauls Catholic	Private	Cephus Town	60	54	54	17388	Medium	Logistic	Cost
0614041	Suakoko	T. T. Harris Community	Public	Phebe Community	7	14	0	0	Medium	Logistic	Cost
0612120	Sanoyeah	Tannasue Public	Public	Tannasue	130	119	119	20230	Medium	Logistic	Cost
0614010	Yeallequelle	Taylor Town United Methodist	Mission	Taylor Town	44	25	25	14350	Medium	Logistic	Cost
0602031	Fuamah	Trinity Lutheran	Mission	Haindi	20	22	22	12628	Medium	Logistic	Cost
0614045	Yeallequelle	Voloblai Public	Public	Voloblai-Kpoyorquelleh	56	40	40	12880	Medium	Logistic	Cost
0612004	Sanoyeah	Wainsue Public	Public	Wainsue	9	8	0	0	Medium	Logistic	Cost
0616030	Zota	Warta Charity Elementary	Public	Zota Central	181	101	101	19695	Medium	Logistic	Cost
0602018	Fuamah	World Wide Bassa Community	Mission	Old Vanney Town	51	44	44	14168	Medium	Logistic	Cost
0606022	Boinsen	Wu-Lapor Wula Public	Public	Kpainquoi	61	30	30	9660	Medium	Logistic	Cost
0614050	Yeallequelle	Vaindewon Public	Public	Yaidendewoun	55	60	60	14280	Medium	Logistic	Cost
0612003	Sanoyeah	Yarwelle Public	Public	Yarwarlee	68	40	40	12880	Medium	Logistic	Cost
0614026	Yeallequelle	Yowah Manah Elementary	Public	Fenutoli	77	34	34	10948	Medium	Logistic	Cost
0606056	Tukpahblee	Zeo Community Elementary	Public	Zeo Town	105	93	93	18135	Medium	Logistic	Cost
0610024	Salala	New Totota Community	Public	Totota	45	37	37	11914	High	Logistic	Cost
0610015	Salala	E. J. Yancy High	Public	Totota	271	209	0	0	High	Logistic	Cost
0610029	Salala	Johnson Baysah Community	Public	Totota	182	120	120	20400	High	Logistic	Cost
0610041	Salala	Gbeya-Ta Public	Public	Gbeyila-Ta	45	21	21	12054	High	Logistic	Cost
0606043	Jorquelleh	Disciples Community	Public	Kpoe	40	39	39	12558	High	Logistic	Cost
0606009	Jorquelleh	Kili-Tour-Maa Public	Public	Duaita	162	143	143	21879	High	Logistic	Cost
0606042	Jorquelleh	Belatanla Public	Public	Blatanla	116	76	76	18088	High	Logistic	Cost
0606029	Jorquelleh	Dr. Joseph G. Morris Elementary	Public	Tokpala	112	97	97	18915	High	Logistic	Cost
0606049	Jorquelleh	Gbenyanyea Public	Public	Gbenyanyea Town	51	35	35	11270	High	Logistic	Cost
0606023	Jorquelleh	Sheansue Public	Public	Shansue	95	83	83	19754	High	Logistic	Cost
0606034	Jorquelleh	Baryata Public Elementary	Public	Baryata	101	92	92	17940	High	Logistic	Cost
0606008	Jorquelleh	Kponyey Public	Public	Kpoyea	37	21	21	12054	High	Logistic	Cost

0606007	Jorquelleh	Kpotolon Elementary Public	Public	Janyea	33	9	0	0	High	Logistic Cost
0606020	Jorquelleh	Gbenequelleh Public	Public	Gbenequelleh	313	282	0	0	High	Logistic Cost
0606032	Jorquelleh	Kilkpahln Public	Public	Lehleh	91	62	62	14756	High	Logistic Cost
0606019	Jorquelleh	Cammue Donkpho Elementary	Public	Foloblai	101	74	74	17612	High	Logistic Cost
0606027	Jorquelleh	Samuel Sie Collins Elementary & Junior High	Public	Samey	248	107	107	20865	High	Logistic Cost
0606050	Jorquelleh	Barsee Kpangbai Elementary	Public	Blemeyea	70	63	63	14994	High	Logistic Cost
0610056	Yeallequelle	Bolon- Mu Comm. Elementary	Community	Bolomu	21	28	28	16072	High	Logistic Cost
0610032	Salala	Christian Foundation	Public	Totota	62	54	54	17388	High	Logistic Cost
0606005	Jorquelleh	Hope Baptist Elementary	Mission	Samey	100	30	30	9660	High	Logistic Cost
0610002	Salala	Hope Of Glory Elementary	Private	Totota	62	52	52	16744	High	Logistic Cost
0606069	Jorquelleh	Kollah Worlupue Public	Public	Tolomineh	128	100	100	19500	High	Logistic Cost
0606033	Jorquelleh	Komata Public Elementary	Public	Komata	132	108	108	21060	High	Logistic Cost
0610022	Yeallequelle	Korlorboi Public Elementary	Public	Gbormu	59	62	62	14756	High	Logistic Cost
0606061	Jorquelleh	Qualayarkulah Community Primay	Public	Qualayarkuke	30	26	26	14924	High	Logistic Cost
0610007	Salala	Salvation Christian Army Academy Elementary	Mission	John Gwee	24	25	25	14350	High	Logistic Cost
0610004	Salala	Sandary Elementary and Junior High	Community	Totota	115	101	101	19695	High	Logistic Cost
0606018	Jorquelleh	Tamayta Community Elementary	Public	Tamata	92	74	74	17612	High	Logistic Cost
0610035	Salala	Totota Lutheran Parish High	Mission	Totota	25	42	42	13524	High	Logistic Cost
0610049	Salala	Universal Mission Elementary	Private	Kaimah Flomo	8	7	0	0	High	Logistic Cost
0610053	Salala	Upper Room Day Care	Private	Totota	0	1	0	0	High	Logistic Cost
0610040	Salala	Upper Room Christian Academy	Private	Totota	75	79	79	18802	High	Logistic Cost
0606044	Tukpahblee	Yeakai Assemblies of God Mission	Mission	Yeakai	40	21	21	12054	High	Logistic Cost

## APPENDIX C: LOFA

Note: Schools are sorted on those having LOGISTIC COSTS ranging from *low* to *medium* to *high* (last column). The preceding Column-COSTGS-is the factored scholarship cost only for the number of girls at primary level of those schools in the Reading First + Math program of the USAID-LTTP project. If the number is "0" then the school is not in the program, but falls within the circumscribed area indicated by the corresponding county map.

### LOFA

CODE	DISTRICT	SCHOOLNA	TYPEOFSC	LOCALITY	PRIMB	PRIMG	PRIMG3	COSTGS	CostType
2120026	Zorzor	Zealakupala Community	Public	Zielakupala	44	37	37	11914	Low Logistic Cost
2120072	Zorzor	Zorzor Extension Nignt	Public	Zorzor	0	0	0	0	Low Logistic Cost
2120071	Zorzor	Malawu Revival	Mission	Malawu	35	24	24	13776	Low Logistic Cost
2120015	Zorzor	Antoinette Tubman	Public	Zorzor	473	397	0	0	Low Logistic Cost
2120030	Zorzor	Kilewu Public	Public	Killiwu	65	62	62	14756	Low Logistic Cost
2120006	Zorzor	Sumo Kota Elementary & Junior High	Public	Fissibu	351	271	0	0	Low Logistic Cost
2120012	Zorzor	Yanlor Community	Public	Yanlor	58	53	53	17066	Low Logistic Cost
2120025	Zorzor	Morris T. Zayzay Public	Public	Baloma	26	34	34	10948	Low Logistic Cost
2120016	Zorzor	Zorzor Central High	Public	Zorzor	0	0	0	0	Low Logistic Cost
2120069	Zorzor	ZRTTI Demonstration	Public	Fissibu	50	48	48	15456	Low Logistic Cost
2114004	Salayea	Gbanway Public	Public	Gbanway	115	103	103	20085	Low Logistic Cost
2114005	Salayea	Kpaiyeya Public	Public	Kpaiyeya	211	211	0	0	Low Logistic Cost
2114003	Salayea	Sucromu Elementary & Junior High	Public	Sucromu	249	191	0	0	Low Logistic Cost
2110045	Foya	Kondeya Community	Public	Kondeya Town	83	59	59	14042	Low Logistic Cost
2110024	Foya	Kamboima Community	Community	Kamboima	71	43	43	13846	Low Logistic Cost
2110046	Foya	Bamboodu Community	Public	Leobengu	101	72	72	17136	Low Logistic Cost
2110038	Foya	Kpankpenin Public	Public	Kpankpenin	108	73	73	17374	Low Logistic Cost
2110050	Foya	Kparndonin Community	Public	Kparndonin	68	43	43	13846	Low Logistic Cost
2110044	Foya	Mendekoma Public	Public	Mendekoma	194	158	158	24174	Low Logistic Cost
2110022	Foya	Hundonin Public	Public	Hundonin	128	97	97	18915	Low Logistic Cost
2110039	Foya	Foya Central High	Public	Foya City	360	178	0	0	Low Logistic Cost
2110034	Foya	Joseph Jenkins Roberts	Public	Kpormbu	121	53	53	17066	Low Logistic Cost
2110033	Foya	Kpangamei Free Pentecostal	Public	Kpangamei	96	85	85	20230	Low Logistic Cost
2110090	Foya	Peya Public	Public	Peya Public	42	27	27	15498	Low Logistic Cost
2110047	Foya	Kpandu Community	Public	Kpandu	106	49	49	15778	Low Logistic Cost
2110012	Foya	Tamba Taylor Public	Public	Shelloe	343	241	0	0	Low Logistic Cost
2110007	Foya	Sodu Public	Public	Sodu	81	47	47	15134	Low Logistic Cost
2110021	Foya	Yassadu Public	Public	Yasadu	115	95	95	18525	Low Logistic Cost
2110035	Foya	Foya Tengia Public	Public	Foya-Tengia	203	124	124	21080	Low Logistic Cost
2110028	Foya	Keya Bendu Public	Public	Keya Bendu	37	48	48	15456	Low Logistic Cost
2110029	Foya	Konkpama Public	Public	Konkpama	65	60	60	14280	Low Logistic Cost
2110032	Foya	Kondobengu Public	Public	Kondobengu	159	102	102	19890	Low Logistic Cost
2110078	Foya	Boya Elementary Community	Public	Boya	50	31	31	9982	Low Logistic Cost
2110077	Foya	Child Development Center	Mission	Foya City	40	61	61	14518	Low Logistic Cost
2110082	Foya	Dawa Public	Public	Dawah	26	34	34	10948	Low Logistic Cost
2110084	Foya	Dopa Free Pentecostal Mission	Public	Dopa Free Pentecostal	19	15	0	0	Low Logistic Cost
2110086	Foya	Felaloe Public	Public	Felalee	10	2	0	0	Low Logistic Cost
2110002	Foya	First Assembly Of God Mission	Mission	Foya City	165	170	0	0	Low Logistic Cost
2110011	Foya	Foya Free Pentecostal Mission	Private	Foya City	112	112	112	21840	Low Logistic Cost
2110040	Foya	Free Pentecostal Global Mission	Mission	Foya City	135	161	161	24633	Low Logistic Cost
2120082	Zorzor	John Zau Memorial Daycare & Primary	Private	Zorzor	61	50	50	16100	Low Logistic Cost
2120033	Zorzor	Kalemai Community	Public	Kalimai	35	39	39	12558	Low Logistic Cost
2110079	Foya	KgorKuma Community	Public	Ngokuma	63	55	55	17710	Low Logistic Cost
2110074	Foya	Koindema Minimor Memorial	Public	Koindema	40	53	53	17066	Low Logistic Cost
2110049	Foya	Koindu Pombor John F. Kendor Public	Public	Koindu-Pumbor	66	34	34	10948	Low Logistic Cost
2110051	Foya	Kornosu Public	Public	kornosu (1)	80	75	75	17850	Low Logistic Cost
2110015	Foya	Kpakio Community	Public	Foya City	64	56	56	18032	Low Logistic Cost
2110088	Foya	Kpokuloe Community	Public	Kpakutasu	37	23	23	13202	Low Logistic Cost
2110076	Foya	Kpormbu Road Community	Community	Kpormbu Road	74	78	78	18564	Low Logistic Cost
2110075	Foya	Lorloe Rankolie Public	Public	Lorloe	95	63	63	14994	Low Logistic Cost
2110059	Foya	Njakkah Community	Public	Njalla	69	49	49	15778	Low Logistic Cost
2110031	Foya	Pawa Golden Age Community	Community	Foya City	189	149	149	22797	Low Logistic Cost
2110161	Foya	Sakawoe Public	Public	Foya City	146	105	105	20475	Low Logistic Cost
2110001	Foya	St. Samuel Elementary	Mission	Foya City	58	56	56	18032	Low Logistic Cost
2110030	Foya	Warsonga Public	Public	Warsonga	52	43	43	13846	Low Logistic Cost
2120068	Zorzor	William Manna Johnson Memo Lutherall	Private	Fissibu	9	9	0	0	Low Logistic Cost
2120078	Zorzor	Zorzor Christian Academy	Mission	Zorzor	70	65	65	15470	Low Logistic Cost
2120018	Zorzor	Zorzor Lutheran Mission Elementary Jr. & Sr.	Mission	Zorzor	87	90	90	17550	Low Logistic Cost
2118062	Voinjama	Loboba Public	Public	Laboba	17	27	27	15498	Medium Logistic Cost
2118034	Voinjama	Kpademai Public	Public	Kpademai (1)	116	110	110	21450	Medium Logistic Cost
2118032	Voinjama	Bazagizia Community Public	Public	Bazagizia	60	53	53	17066	Medium Logistic Cost
2118022	Voinjama	Lutisu Public	Public	Lutisu	23	13	0	0	Medium Logistic Cost
2118039	Voinjama	Mama Dukuly Public	Public	Zinalomai	74	39	39	12558	Medium Logistic Cost
2118035	Voinjama	Zawardamai Public School	Public	Zewardamai	85	71	71	16898	Medium Logistic Cost
2118094	Quardu Boundi	Womanor Public	Public	Wotala	51	70	70	16660	Medium Logistic Cost
2118056	Voinjama	Tellewoyan Public	Public	John-Ta	107	193	0	0	Medium Logistic Cost
2118008	Voinjama	Voinjama Multilateral High	Public	Voinjama	0	0	0	0	Medium Logistic Cost
2118012	Voinjama	Yandizu Public	Public	Yandizu	187	151	151	23103	Medium Logistic Cost
2118087	Voinjama	Karmodu Public	Public	Kaimodu	31	22	22	12628	Medium Logistic Cost
2118026	Voinjama	Tennebu Public	Public	Tenebu	81	84	84	19992	Medium Logistic Cost
2118051	Voinjama	Galamah public	Public	Galama	46	36	36	11592	Medium Logistic Cost
2118015	Voinjama	Kpotomai Public	Public	Kpotomai (1)	36	37	37	11914	Medium Logistic Cost
2118040	Voinjama	Selega Borgia Public	Public	Selega	63	43	43	13846	Medium Logistic Cost
2118065	Voinjama	Kolliemai public	Public	Kolliemai	99	132	132	22440	Medium Logistic Cost

2118018	Voinjama	Malamia Public	Public	Malamai	35	22	22	12628	Medium	Logistic	Cost
2118082	Voinjama	Molovemai Public	Public	Molovemai	40	20	20	11480	Medium	Logistic	Cost
2118037	Voinjama	Gobeuole Town Public	Public	Gobewollie-Ta	4	4	0	0	Medium	Logistic	Cost
2118086	Voinjama	Koivanmai Public	Public	Koivanmai	35	20	20	11480	Medium	Logistic	Cost
2118050	Voinjama	Dayzaba public	Public	Dayzabaha	52	38	38	12236	Medium	Logistic	Cost
2118048	Quardu	Bulor Public	Public	Bulor	60	43	43	13846	Medium	Logistic	Cost
2118076	Quardu	BoundiTusu Public	Public	Tussu	119	78	78	18564	Medium	Logistic	Cost
2118101	Voinjama	Zozoma Public	Public	Zozomai	18	23	23	13202	Medium	Logistic	Cost
2118016	Voinjama	William Frank Feemista Public	Public	Lisco	51	56	56	18032	Medium	Logistic	Cost
2118080	Voinjama	Betibah Public	Public	Barziwen	29	27	27	15498	Medium	Logistic	Cost
2118003	Voinjama	Kugbemai Public	Public	Kugbemai	59	47	47	15134	Medium	Logistic	Cost
2118044	Quardu	BoundiBarKedu Elementary & Junior High	Public	Baloma	215	140	140	21420	Medium	Logistic	Cost
2118074	Quardu	BoundiSarmodu Public	Public	Gboni	52	36	36	11592	Medium	Logistic	Cost
2118095	Quardu	BoundiWhy Ganedu Public	Public	Wotala	25	25	25	14350	Medium	Logistic	Cost
2118028	Voinjama	Voinjama Public	Public	Voinjama	333	326	0	0	Medium	Logistic	Cost
2118024	Voinjama	David Selma-Ta Public	Public	David Selma-ta	109	103	103	20085	Medium	Logistic	Cost
2118033	Voinjama	William V. S. Tubman Elementary Junior High	Public	Velezala	105	88	88	17160	Medium	Logistic	Cost
2118067	Voinjama	Kpakamai Public	Public	Kpakamai	107	97	97	18915	Medium	Logistic	Cost
2118055	Voinjama	Jayanmai Public	Public	Jayanmai	50	45	45	14490	Medium	Logistic	Cost
2118025	Voinjama	Answeru English & Arabic	Community	Voinjama	174	117	117	19890	Medium	Logistic	Cost
2118047	Voinjama	Bitijama Public	Public	Bitijama	60	61	61	14518	Medium	Logistic	Cost
2118014	Voinjama	J. W. A Richards Elementary	Public	Johnny Town	37	35	35	11270	Medium	Logistic	Cost
2118011	Voinjama	Kabata Public	Public	Kabata (1)	49	30	30	9660	Medium	Logistic	Cost
2118089	Voinjama	Lazalemai Public	Public	Lazalemai	18	28	28	16072	Medium	Logistic	Cost
2120031	Zorzor	Zomai Public	Public	Zomai	23	24	24	13776	Medium	Logistic	Cost
2120027	Zorzor	Passama Public	Public	Fassaima	56	44	44	14168	Medium	Logistic	Cost
2120021	Zorzor	J. Mulbah Garma Public	Public	Fassawalazu	60	62	62	14756	Medium	Logistic	Cost
2120008	Zorzor	Nekebozu Public	Public	Nikebozu	61	46	46	14812	Medium	Logistic	Cost
2120002	Zorzor	Ziggida Public	Public	Zigida	131	115	115	19550	Medium	Logistic	Cost
2120074	Zorzor	Wenwuta Public	Public	Wenwuta	57	41	41	13202	Medium	Logistic	Cost
2120014	Zorzor	Wakesu Public	Public	Wakesu	162	157	157	24021	Medium	Logistic	Cost
2120010	Zorzor	Luyeama Public	Public	Luyeama	142	110	110	21450	Medium	Logistic	Cost
2120009	Zorzor	Barziwen Public	Public	Barziwen	46	41	41	13202	Medium	Logistic	Cost
2120020	Zorzor	Guzeh Public	Public	Zolowo	210	141	141	21573	Medium	Logistic	Cost
2120067	Zorzor	Fassayeazu Public	Public	Fassawalazu	55	44	44	14168	Medium	Logistic	Cost
2120062	Zorzor	Gayflor Dabee	Public	Gayflor	28	17	0	0	Medium	Logistic	Cost
2114002	Salayea	Gorlu Public	Public	Gorlu	242	227	0	0	Medium	Logistic	Cost
2114023	Salayea	Gbanjuloma Elementary	Public	Gbanjulonmai Village	25	8	0	0	Medium	Logistic	Cost
2114011	Salayea	Washington Nganga Memorial	Public	T. Woods Vallage	19	18	0	0	Medium	Logistic	Cost
2114018	Salayea	Kpotoe Town Community	Public	Kpotoe Village	59	39	39	12558	Medium	Logistic	Cost
2114010	Salayea	Sharon Memorial Elementary	Public	Tinsue Town	100	74	74	17612	Medium	Logistic	Cost
2114007	Salayea	Salayea Elementary	Public	Salayea	224	194	0	0	Medium	Logistic	Cost
2114017	Salayea	Fatu Village	Public	Fatu Village	109	120	120	20400	Medium	Logistic	Cost
2114006	Salayea	Gleh Elementary and Junior High	Public	Ganglota	155	126	126	21420	Medium	Logistic	Cost
2114015	Salayea	Tailemai Public	Public	Telemai	95	73	73	17374	Medium	Logistic	Cost
2114009	Salayea	Gbonyea Public	Public	Gbonyea	153	133	133	22610	Medium	Logistic	Cost
2114013	Salayea	Jeher Bawehwolo public	Public	Kpawasayea	178	147	147	22491	Medium	Logistic	Cost
2114008	Salayea	Flomo Respect Memorial	Public	Yarpuah Town	233	251	0	0	Medium	Logistic	Cost
2114014	Salayea	Telemu Public	Public	Telemu Town	120	90	90	17550	Medium	Logistic	Cost
2114012	Salayea	Gbarline Molley Public	Public	Kparyarquelleh Town	71	66	66	15708	Medium	Logistic	Cost
2116012	Voinjama	Ducor Gbondo Community	Public	Dukor Gbondo	0	0	0	0	Medium	Logistic	Cost
2118043	Voinjama	Balakpalasu Public	Public	Balakpalasu	74	49	49	15778	Medium	Logistic	Cost
2114001	Salayea	C. Benedict Kennedy Jr. Memo. United Methodist	Mission	Gorlu	63	86	86	20468	Medium	Logistic	Cost
2118077	Voinjama	Child Welfare Committee Public	Public	Voinjama	115	117	117	19890	Medium	Logistic	Cost
2114019	Salayea	Chrys Johnson Training	Mission	Salayea	57	45	45	14490	Medium	Logistic	Cost
2120081	Zorzor	Damai Zaza Woilea Public	Public	Vetesu	13	8	0	0	Medium	Logistic	Cost
2120063	Zorzor	Gizibbogai Community	Public	Gizibbogai	62	59	59	14042	Medium	Logistic	Cost
2120021	Zorzor	J. Mulbah Garma Public	Public	Fassawalazu	60	62	62	14756	Medium	Logistic	Cost
2118085	Voinjama	Kids Connection Day Care Center	Private	Voinjama	9	6	0	0	Medium	Logistic	Cost
2118084	Voinjama	Kintoma Community	Public	Voinjama	216	203	0	0	Medium	Logistic	Cost
2118096	Voinjama	Kormah Shepherdhood Academy	Community	Voinjama	30	36	36	11592	Medium	Logistic	Cost
2118068	Voinjama	Kpangbalamai Public	Public	Kpangalamai	45	38	38	12236	Medium	Logistic	Cost
2120013	Zorzor	Kpasagizia Public	Public	Kpasagizia	79	102	102	19890	Medium	Logistic	Cost
2118090	Voinjama	Makai Day Care	Private	Voinjama	3	2	0	0	Medium	Logistic	Cost
2120028	Zorzor	Massawo Zayzay Public	Public	Massawo	58	41	41	13202	Medium	Logistic	Cost
2118097	Voinjama	Mumusu Public School	Public	Mumusu Town	22	17	0	0	Medium	Logistic	Cost
2118098	Voinjama	New Life Comm. Elem./Jr. High School	Private	Voinjama	64	50	50	16100	Medium	Logistic	Cost
2120027	Zorzor	Passama Public	Public	Fassaima	56	44	44	14168	Medium	Logistic	Cost
2120061	Zorzor	Peter Howrad Community	Public	Zorzor	11	9	0	0	Medium	Logistic	Cost
2118093	Voinjama	S.D.A Community	Mission	Voinjama	59	57	57	18354	Medium	Logistic	Cost
2114021	Salayea	Salayea Seventh Day Adventist Junior High	Mission	Salayea	27	32	32	10304	Medium	Logistic	Cost
2118030	Voinjama	St. Joseph Catholic	Mission	Voinjama	212	220	0	0	Medium	Logistic	Cost
2118078	Voinjama	St. Teresa Episcopal Community	Mission	Voinjama	31	32	32	10304	Medium	Logistic	Cost
2118004	Voinjama	Vonema Public	Public	Vonema	34	25	25	14350	Medium	Logistic	Cost
2118010	Voinjama	Voinjama Free Pentecostal Mission	Mission	Voinjama	335	291	0	0	Medium	Logistic	Cost
2118009	Voinjama	William A. Brown Kindergarten	Public	Voinjama	0	0	0	0	Medium	Logistic	Cost
2118079	Voinjama	Zeayorzu Free Pentecostal	Mission	Zeayorzu	48	22	22	12628	Medium	Logistic	Cost
2120002	Zorzor	Ziggida Public	Public	Zigida	131	115	115	19550	Medium	Logistic	Cost
2116009	Vahun	Vahun Central High	Public	Vahun	0	0	0	0	High	Logistic	Cost
2116011	Vahun	Gondama/Yumba Public	Public	Gondoma	64	61	61	14518	High	Logistic	Cost
2116002	Vahun	Folima Public	Public	Folima	40	48	48	15456	High	Logistic	Cost
2112127	Kolahun	Manbu Vonjo Community	Public	Kiafata	57	76	76	18088	High	Logistic	Cost
2112036	Kolahun	Kolahun Central High	Public	Kolahun	0	0	0	0	High	Logistic	Cost
2112035	Kolahun	Kolahun Elementary Public	Public	Kolahun	597	412	0	0	High	Logistic	Cost
2112112	Kolahun	Wanwoclohun Public	Public	Wanwoclohun	89	98	98	19110	High	Logistic	Cost
2112059	Kolahun	Massabolahun Public	Public	Masabolahun	175	173	0	0	High	Logistic	Cost
2112084	Kolahun	Bondowalahun Public	Public	Bondowalahun Number (1)	120	120	120	20400	High	Logistic	Cost
2112085	Kolahun	Bondowalahun Public	Public	Bondowalahun Number (2)	140	133	133	22610	High	Logistic	Cost
2112120	Kolahun	Bondolahun School of Faith	Mission	Bondowalahun Number (1)	26	22	22	12628	High	Logistic	Cost
2112010	Kolahun	Boawohun Public	Public	Boawohun	65	66	66	15708	High	Logistic	Cost
2112088	Kolahun	Harlipo Public	Public	Halepo	115	118	118	20060	High	Logistic	Cost
2112013	Kolahun	Kamatahum Public	Public	Kamatahun-Hassala	49	57	57	18354	High	Logistic	Cost
2112054	Kolahun	Lehuma Public	Public	Lehuma	107	80	80	19040	High	Logistic	Cost

2112023	Kolahun	Fokolahun Public	Public	Fokolahun	45	31	31	9982	High	Logistic Cost
2112009	Kolahun	Kiantahun Public	Public	Kantahun	283	269	0	0	High	Logistic Cost
2112045	Kolahun	Kambolahun Elementary	Public	Kambolahun	96	57	57	18354	High	Logistic Cost
2112062	Kolahun	Botemba Public	Public	Botemba	85	49	49	15778	High	Logistic Cost
2112025	Kolahun	Koloma Toe Public	Public	Kololahun	115	61	61	14518	High	Logistic Cost
2112037	Kolahun	Taninahun Public	Public	Taninahun	121	107	107	20865	High	Logistic Cost
2112038	Kolahun	Jusu Dunor Public	Public	Popalahun	105	87	87	20706	High	Logistic Cost
2112083	Kolahun	Lankama Community	Public	Kolahun	113	102	102	19890	High	Logistic Cost
2112027	Kolahun	F. K. Tulay Community	Public	Kolba	22	36	36	11592	High	Logistic Cost
2112034	Kolahun	Mbabahun Public	Public	Mbabahun	87	75	75	17850	High	Logistic Cost
2112049	Kolahun	Fangonda Public	Public	Fangonda	144	53	53	17066	High	Logistic Cost
2112029	Kolahun	Yallahun Public	Public	Yalahun	95	56	56	18032	High	Logistic Cost
2112014	Kolahun	Thomas Kollie Public	Public	Korworhun	85	72	72	17136	High	Logistic Cost
2112019	Kolahun	Yandohun Public	Public	Yandohun	65	50	50	16100	High	Logistic Cost
2112016	Kolahun	Sosomolahun Public	Public	Sosomolahun	69	61	61	14518	High	Logistic Cost
2112055	Kolahun	Kpangihemba Public	Public	Kpangihimba	55	51	51	16422	High	Logistic Cost
2112125	Kolahun	Musa Kanneh Public	Public	Kolahun Old Town	125	97	97	18915	High	Logistic Cost
2112020	Kolahun	Balahun Public	Public	Balahun	110	90	90	17550	High	Logistic Cost
2112116	Kolahun	Mbakan Public	Public	Mbakanda	76	20	20	11480	High	Logistic Cost
2112107	Kolahun	Nyokolitahun Public	Public	Nyokolitahun	154	148	148	22644	High	Logistic Cost
2112056	Kolahun	Kimbalahun, II Public	Public	Kimbalahun Number Two	149	110	110	21450	High	Logistic Cost
2112087	Kolahun	Gbeiahun Public	Public	Gbeilahun	106	105	105	20475	High	Logistic Cost
2112033	Kolahun	Kamatahun Public	Public	Kamatahun-Hassala	37	45	45	14490	High	Logistic Cost
2112130	Kolahun	Ngilihun Public	Public	Naneyou Town	98	97	97	18915	High	Logistic Cost
2112126	Kolahun	Kpengbelahun Public	Public	Kpengbelahun	41	40	40	12880	High	Logistic Cost
2112050	Kolahun	Porlowu Public	Public	Polowu	99	72	72	17136	High	Logistic Cost
2112053	Kolahun	Fassawolo Public	Public	Fasawolo	63	15	0	0	High	Logistic Cost
2112052	Kolahun	Fangalahun Public	Public	Fahngalahun	50	34	34	10948	High	Logistic Cost
2112021	Kolahun	Hassala Public System	Public	Kannehla	99	49	49	15778	High	Logistic Cost
2112011	Kolahun	Momoh Yengbeh Public	Public	Yengbelahun	162	118	118	20060	High	Logistic Cost
2112082	Kolahun	Bassamalahun Public	Public	Basalahun	80	63	63	14994	High	Logistic Cost
2112051	Kolahun	Bolahun Public	Public	Bolahun	198	183	0	0	High	Logistic Cost
2112003	Kolahun	Dowdowo Public	Public	Dangalahun	126	76	76	18088	High	Logistic Cost
2112026	Kolahun	F. Banbanyan Community	Public	Kolahun	114	80	80	19040	High	Logistic Cost
2116013	Vahun	Gbunumbu Public Elementary	Public	Vahun	0	0	0	0	High	Logistic Cost
2116015	Vahun	Guma Community	Public	Guma Town	26	34	34	10948	High	Logistic Cost
2112119	Kolahun	Karmonlahun Community	Public	Lukasu	47	46	46	14812	High	Logistic Cost
2112024	Kolahun	Kolahun Evangelical Church	Mission	Kolahun	71	56	56	18032	High	Logistic Cost
2116014	Vahun	Kortuma Community	Public	Kortuma	0	0	0	0	High	Logistic Cost
2112098	Kolahun	Kpandehewa public	Public	Kpandehewa	184	129	129	21930	High	Logistic Cost
2112099	Kolahun	Kpokulahun Public	Public	Kpokulahun	107	74	74	17612	High	Logistic Cost
2112133	Kolahun	Mbalotahun Public	Public	Mbalotahun Town	144	98	98	19110	High	Logistic Cost
2112103	Kolahun	Ngihema Public	Public	Ngihema town	74	64	64	15232	High	Logistic Cost
2112061	Kolahun	Ngokorhun Public	Public	Ngokorhun	225	125	125	21250	High	Logistic Cost
2112105	Kolahun	Nyandiama Public	Public	Nyandiama	119	113	113	19210	High	Logistic Cost
2112123	Kolahun	St. Cyprian & St. Augustine High	Mission	Bolahun	0	0	0	0	High	Logistic Cost
2112123	Kolahun	St. Cyprian & St. Augustine High	Mission	Bolahun	0	0	0	0	High	Logistic Cost
2112131	Kolahun	Wuhalahun Public	Public	Wahalah	103	100	100	19500	High	Logistic Cost

## APPENDIX D: MARGIBI

Note: Schools are sorted on those having LOGISTIC COSTS ranging from *low* to *medium* to *high* (last column). The preceding Column—COSTGS—is the factored scholarship cost only for the number of girls at primary level of those schools in the Reading First + Math program of the USAID-LTTP project. If the number is "0" then the school is not in the program, but falls within the circumscribed area indicated by the corresponding county map.

### MARGIBI

CODE	DISTRISCHOOLNA	TYPEOFSC	LOCALITY	PRIME	PRIMG	PRIMG3	COSTGS	CostType
2406020	Kakata14th Road Community Elementary	Public	Kakata	134	148	148	22644	Low Logistic Cost
2406077	KakataAlhaji V. Corneh English & Arabic	Community	Kakata	73	35	35	11270	Low Logistic Cost
2406076	KakataAnsaru Islamic Junior High	Community	Kakata	75	31	31	9982	Low Logistic Cost
2406112	KakataApostle Sterling Elem, Com Academy	Community	Bong Mines Road	31	50	50	16100	Low Logistic Cost
2406121	KakataAunty Yah community Day care	Community	Kakata	15	17	0	0	Low Logistic Cost
2406105	KakataBassa Community Foundation	Community	Kakata	18	20	20	11480	Low Logistic Cost
2406068	KakataBenda Community	Community	Kakata	38	48	48	15456	Low Logistic Cost
2406108	KakataBeth Community	Community	Kakata	87	70	70	16660	Low Logistic Cost
2406075	KakataBetter Foundation Academy	Community	Kakata	67	99	99	19305	Low Logistic Cost
2406074	KakataBirch Mnut Christian Academy	Public	Birch Mnut Community	79	77	77	18326	Low Logistic Cost
2406069	KakataBishop Lawrence L. Reddi Community	Mission	Kakata	61	48	48	15456	Low Logistic Cost
2406081	KakataBooker Washing Institute (BWI)	Public	Kakata	0	0	0	0	Low Logistic Cost
2406089	KakataBorbor Town Community	Community	Kakata	32	45	45	14490	Low Logistic Cost
2404003	KakataBorlorla Public	Public	Bolola (1)	47	45	45	14490	Low Logistic Cost
2406072	KakataBrownell Public	Public	Brownell Farm	199	208	0	0	Low Logistic Cost
2406066	KakataCalvary Academy Community	Community	Kakata	71	64	64	15232	Low Logistic Cost
2406062	KakataCalvary Baptist Elementary	Mission	Kakata	39	45	45	14490	Low Logistic Cost
2406123	KakataChristian Community	Mission	Via Town	18	26	26	14924	Low Logistic Cost
2406109	KakataCinta Community S.D.A.	Community	Cinta	13	14	0	0	Low Logistic Cost
2406065	KakataCinta Public	Public	Cinta	104	104	104	20280	Low Logistic Cost
2406057	KakataDaniel B. Marsh Memorial Elementary	Public	Jeaneta	72	61	61	14518	Low Logistic Cost
2406088	KakataDartu-Ta Public	Public	Dartu	71	67	67	15946	Low Logistic Cost
2402105	FirestDivision 31 Elemtary	Public	Division 31	165	152	152	23256	Low Logistic Cost
2406055	KakataDominic K. Hem Community	Community	Kakata	69	71	71	16898	Low Logistic Cost
2406116	KakataDominion Christian Institute	Community	Gio Town	12	15	0	0	Low Logistic Cost
2406053	KakataE. J. Yancy Elem./Jr. High	Public	Kakata	281	220	0	0	Low Logistic Cost
2406092	KakataE. J. Yancy Elementary	Public	Kakata	326	335	0	0	Low Logistic Cost
2406054	KakataEvening Star Baptist	Mission	Kakata	95	98	98	19110	Low Logistic Cost
2406051	KakataFasia Kromah Public	Public	Sherman Farm (1)	87	75	75	17850	Low Logistic Cost
2406009	KakataFrances Mitchell Memorial Academy	Private	Kakata	134	136	136	23120	Low Logistic Cost
2406050	KakataFrancis H. Lewis Public	Public	Kakata	145	119	119	20230	Low Logistic Cost
2406110	KakataFree Pentostal Global Mission	Mission	Kakata	22	29	29	16646	Low Logistic Cost
2404046	KakataGailiala Public	Public	Gayakpala	49	30	30	9660	Low Logistic Cost
2406119	KakataGeorge Town Community	Community	Nagbah Town	44	68	68	16184	Low Logistic Cost
2406045	KakataGeorge V. Gibson Elementary & Junior Hi	Mission	Kakata	42	52	52	16744	Low Logistic Cost
2406047	KakataGraeter Grace Elementary	Community	Ma Rose Farm	81	67	67	15946	Low Logistic Cost
3004694	FirestGreater Grace Academy	Private	Monrovia	34	27	27	15498	Low Logistic Cost
2406091	KakataGwee Menmoria Christian Community	Public	Kakata	50	53	53	17066	Low Logistic Cost
2406087	KakataGweikporlorsue Public	Public	Gwepolusue	50	21	21	12054	Low Logistic Cost
2406094	KakataHilda Knight Coper Farm Community	Private	S.D. Lawrence Farm	59	46	46	14812	Low Logistic Cost
2406118	KakataHoly Church of Christ community	Mission	Central	24	31	31	9982	Low Logistic Cost
2406043	KakataInternational Mission Academy	Private	Kakata	38	29	29	16646	Low Logistic Cost
2406044	KakataIslamic Training Community	Community	Kakata	66	66	66	15708	Low Logistic Cost
2406041	FirestJ. B. Wakai Community	Public	Division # 31	70	64	64	15232	Low Logistic Cost
2404042	KakataJaiah Massaquoi Community	Public	Wohn	17	21	21	12054	Low Logistic Cost
2406096	KakataJaseph J. Karhene	Community	Kermah sackie	45	47	47	15134	Low Logistic Cost
2406040	KakataJohn Joseph Elem./Junior High	Community	Sugar Hill	34	28	28	16072	Low Logistic Cost
2406037	KakataKakata Community College	Community	Kakata	102	109	109	21255	Low Logistic Cost
2406038	KakataKakata SDA	Mission	Kakata	86	117	117	19890	Low Logistic Cost

### MARGIBI

2406147	KakataKollie Kaine Ta Public	Public	Kollie Kaine-te Publi	38	29	29	16646	Low Logistic Cost
2406093	KakataKollie-Ta Public	Public	Cinta	38	26	26	14924	Low Logistic Cost
2406100	KakataKonola Public	Public	Jeaneta	54	86	86	20468	Low Logistic Cost
2406039	KakataKonola SDA Academy	Mission	Konola	71	76	76	18088	Low Logistic Cost
2406035	KakataKRRTTI Demonstration Junior High	Public	Kakata	508	526	0	0	Low Logistic Cost
2406031	KakataLakayta Public	Public	Compound (2)	69	64	64	15232	Low Logistic Cost
2406030	KakataLango Lippayo Elementary & Junior High	Public	Kakata	462	403	0	0	Low Logistic Cost
2406129	KakataLarworta Public	Public	Larworta Town	60	57	57	18354	Low Logistic Cost
2406032	KakataLaunelwin Day-care King Elementary	Community	Kakata	34	39	39	12558	Low Logistic Cost
2404035	KakataLife Public	Public	Titicoaston	26	23	23	13202	Low Logistic Cost
2406133	KakataMarwoda Public	Public	Marwoda	103	125	125	21250	Low Logistic Cost
2406025	KakataNellie M. Ricks	Public	Kakata	67	53	53	17066	Low Logistic Cost
2406024	KakataOra Gene Public	Public	Vayenna	176	166	0	0	Low Logistic Cost
2406079	KakataPentecost Community	Mission	Kakata	30	36	36	11592	Low Logistic Cost
2406023	KakataPentecostal Conquerors Academy	Mission	Kakata	62	72	72	17136	Low Logistic Cost

2406021	Kakata	Philadephia Groups	Mission	Kakata	34	35	35	11270	Low	Logistic Cost
2406018	Kakata	R. S. S. Bright Community	Public	Kakata	87	77	77	18326	Low	Logistic Cost
2406084	Kakata	Rev. Perry S. Togbah Public	Public	Kakata	145	135	135	22950	Low	Logistic Cost
2406084	Kakata	Rev. Perry S. Togbah Public	Public	Kakata	145	135	135	22950	Low	Logistic Cost
2406086	Kakata	Rev. W. K. Moore Elem. & Jr. High	Public	26 Gate	133	126	126	21420	Low	Logistic Cost
2406014	Kakata	Sackie Gbomon Elementary	Public	Gbomo	60	61	61	14518	Low	Logistic Cost
2406078	Kakata	Saint Augustine Episcopal High	Mission	Kakata	47	51	51	16422	Low	Logistic Cost
2406034	Kakata	SDA Community	Mission	Konola	56	68	68	16184	Low	Logistic Cost
2406034	Kakata	SDA Community	Mission	Konola	56	68	68	16184	Low	Logistic Cost
2406090	Kakata	St. Christopher Catholic High	Mission	Kakata	96	98	98	19110	Low	Logistic Cost
2406142	Kakata	St. Paul Lutheran	Mission	St. Paul Lutheran	77	85	85	20230	Low	Logistic Cost
2406107	Kakata	Tuan Flomo Community	Public	Tunoh	22	8	0	0	Low	Logistic Cost
2406048	Kakata	Upper Room A. G. Community	Mission	Gorsue	21	15	0	0	Low	Logistic Cost
2406007	Kakata	Upper Room Community Academy	Mission	Kakata	52	44	44	14168	Low	Logistic Cost
2406005	Kakata	Winners Chapter Elementary	Community	Kakata	34	37	37	11914	Low	Logistic Cost
2404034	Kakata	Wolala Community	Public	Wolaila	188	115	115	19550	Low	Logistic Cost
2406002	Kakata	Y.M.C.A. Community Elementary	Community	Kakata	74	61	61	14518	Low	Logistic Cost
2406001	Kakata	Yeamen Community	Public	Kakata	63	57	57	18354	Low	Logistic Cost
2406003	Kakata	Youth Elementary & Junior High	Private	Kakata	46	42	42	13524	Low	Logistic Cost
2404001	Gibi	Apostolic Alliance Mission	Mission	Wohn	37	26	26	14924	High	Logistic Cost
2404043	Kakata	Dinningta Public	Public	Deneta	26	24	24	13776	High	Logistic Cost
2404045	Gibi	Early Learning Foundation	Community	Wohn	6	6	0	0	High	Logistic Cost
2404006	Gibi	Gibi Public	Public	Wohn	104	82	82	19516	High	Logistic Cost
2404031	Gibi	Kaiuway Public	Public	Kwiuway	61	38	38	12236	High	Logistic Cost
2404029	Gibi	Kpai Public	Public	Targbe Town	47	35	35	11270	High	Logistic Cost
2404011	Gibi	Kplawehn Community	Public	Kplawehn	101	80	80	19040	High	Logistic Cost
2404010	Gibi	Kpoe Town Community	Public	Kpo Town	14	12	0	0	High	Logistic Cost
2404013	Gibi	LarKia Public	Public	Lanfa Town	38	29	29	16646	High	Logistic Cost
2404016	Gibi	Paye Public	Public	Paye	104	75	75	17850	High	Logistic Cost
2404024	Gibi	Peter Town	Public	Peter Town	79	54	54	17388	High	Logistic Cost
2404040	Gibi	Sor-pu-yuah Public	Public	Benda	8	5	0	0	High	Logistic Cost
2404018	Gibi	Zeo Community	Public	Zoe Town	17	5	0	0	High	Logistic Cost

## APPENDIX E: NIMBA

Note: Schools are sorted on those having LOGISTIC COSTS ranging from *low* to *medium* to *high* (last column). The preceding Column-COSTGS-is the factored scholarship cost only for the number of girls at primary level of those schools in the Reading First + Math program of the USAID-LTTP project. If the number is "0" then the school is not in the program, but falls within the circumscribed area indicated by the corresponding county map.

### NIMBA

CODE	DISTRICT	SCHOOLNA	TYPEOFSC	LOCALITY	PRIMG3	COSTGS	CostType
3304023	Wee-Gbehyi-Mahn	Kpwin Public	Public	Kaaplot	31	9982Low	Logistic Cost
3310035	Wee-Gbehyi-Mahn	Zotah Memorial Public	Public	Blamein	129	21930Low	Logistic Cost
3314034	Garr-Bain	Gbuyee Public	Public	Gbuyee	85	20230Low	Logistic Cost
3314055	Garr-Bain	George A. Dunbar	Public	Neingben	78	18564Low	Logistic Cost
3314005	Garr-Bain	D. Authur Wogbeh Memorial	Public	Ganta	48	15456Low	Logistic Cost
3314048	Garr-Bain	Dingamo	Public	Dingamo	133	22610Low	Logistic Cost
3314025	Garr-Bain	J. W. Pearson Extension	Public	Ganta	0	0Low	Logistic Cost
3314001	Garr-Bain	J. W. Pearson Elementary	Public	Ganta	0	0Low	Logistic Cost
3314060	Garr-Bain	Whynor Public	Public	Wheipa	46	14812Low	Logistic Cost
3314053	Garr-Bain	J. W. Pearson High	Public	Ganta	0	0Low	Logistic Cost
3314045	Garr-Bain	Tonglaywin Community	Public	Tonwee	68	16184Low	Logistic Cost
3304022	Wee-Gbehyi-Mahn	Kpaytuo Public	Public	Kpaytuo	159	24327Low	Logistic Cost
3304045	Leewehpea-Mahn	Karnwee Child Welfare Community	Community	Karnwee (1)	0	0Low	Logistic Cost
3318023	Meinpea-Mahn	Ganwin Public	Public	Ganwin	86	20468Low	Logistic Cost
3318044	Meinpea-Mahn	Tunukpeyee Public	Public	Tunukpeyee	68	16184Low	Logistic Cost
3318035	Meinpea-Mahn	Leegbanla Public	Public	Mongbain	42	13524Low	Logistic Cost
3318030	Meinpea-Mahn	Gounla Public	Public	Gounla	26	14924Low	Logistic Cost
3318049	Meinpea-Mahn	Zarsonnon Community	Public	Zarsonnoh	25	14350Low	Logistic Cost
3318042	Meinpea-Mahn	Tunudin Public	Public	Tunudin	52	16744Low	Logistic Cost
3318006	Meinpea-Mahn	Blowee Public	Public	Blohwee	41	13202Low	Logistic Cost
3318041	Meinpea-Mahn	Tiayee Public	Public	Tiayee	31	9982Low	Logistic Cost
3318002	Meinpea-Mahn	Bannikpah Public	Public	Bainakpale	50	16100Low	Logistic Cost
3318018	Meinpea-Mahn	Duo Elementary and Junor High	Public	Duo Town	85	20230Low	Logistic Cost
3318003	Meinpea-Mahn	Banla Public	Public	Banlah	48	15456Low	Logistic Cost
3318050	Meinpea-Mahn	Zao Public	Public	Zao	28	16072Low	Logistic Cost
3318010	Meinpea-Mahn	Bunadin Elementary & Junior High	Public	Bunadin	69	16422Low	Logistic Cost
3318045	Meinpea-Mahn	Tonwin Public	Public	Tonwin	54	17388Low	Logistic Cost
3318026	Meinpea-Mahn	Gbellieh Public	Public	Gbelleah	37	11914Low	Logistic Cost
3318048	Meinpea-Mahn	Yekeyee Public	Public	Yekeyee	76	18088Low	Logistic Cost
3318037	Meinpea-Mahn	Quipa Public	Public	Puoipa Town	28	16072Low	Logistic Cost
3318051	Meinpea-Mahn	Beipa Public	Public	Beipa	20	11480Low	Logistic Cost
3304059	Wee-Gbehyi-Mahn	Gbanlah Community Elementary	Community	Gbanlah	0	0Low	Logistic Cost
3304042	Leewehpea-Mahn	Yarsonnah Community	Public	Yarsonnah	45	14490Low	Logistic Cost
3304014	Wee-Gbehyi-Mahn	Johnny Voker Elementary	Public	Saclepea (1)	0	0Low	Logistic Cost
3304043	Wee-Gbehyi-Mahn	Ylamba Memorial Academy	Private	Saclepea (1)	36	11592Low	Logistic Cost
3304012	Leewehpea-Mahn	Gohn Nyazeh Elem. & Junior High	Public	Karnwee (1)	91	17745Low	Logistic Cost
3304016	Leewehpea-Mahn	Kpallah Public	Public	Kpallah	67	15946Low	Logistic Cost
3304040	Leewehpea-Mahn	Twayen Preliminary Academy	Public	Dohn Town	0	0Low	Logistic Cost
3304050	Wee-Gbehyi-Mahn	Boweh Public	Public	Saclepea (1)	26	14924Low	Logistic Cost
3304021	Wee-Gbehyi-Mahn	Kpaytuo Nursery Kindergarden	Public	Kpaytuo	0	0Low	Logistic Cost
3304011	Wee-Gbehyi-Mahn	Gbehyi-Loleawon Public	Public	Garwonpa	127	21590Low	Logistic Cost
3304038	Wee-Gbehyi-Mahn	Tengbein Public	Public	Tengbein	78	18564Low	Logistic Cost
3304026	Wee-Gbehyi-Mahn	Mehnpa Public	Public	Mehnpa	39	12558Low	Logistic Cost
3304013	Wee-Gbehyi-Mahn	Guawin Community	Public	Guawin	81	19278Low	Logistic Cost
3304031	Wee-Gbehyi-Mahn	Nyasin Nursery	Public	Old Nyasin	0	0Low	Logistic Cost
3304014	Wee-Gbehyi-Mahn	Johnny Voker Elementary	Public	Saclepea (1)	0	0Low	Logistic Cost
3304005	Wee-Gbehyi-Mahn	Duayee Inland Mission	Mission	Duayee	32	10304Low	Logistic Cost
3304033	Meinpea-Mahn	Nyeanyee Public	Public	Nyeanyee	128	21760Low	Logistic Cost
3304049	Wee-Gbehyi-Mahn	Lorseh Community	Public	Lorseh Camp	62	14756Low	Logistic Cost
3304010	Wee-Gbehyi-Mahn	Gbanquol Community	Community	Gbankoi	31	9982Low	Logistic Cost
3304015	Wee-Gbehyi-Mahn	Johnny Voker High	Public	Saclepea (1)	0	0Low	Logistic Cost
3314066	Garr-Bain	AMGC Boe Community Elem. & Jr. High	Public	Bahn	106	20670Low	Logistic Cost
3318004	Meinpea-Mahn	Behmon Public	Public	Behmon	60	14280Low	Logistic Cost
3318051	Wee-Gbehyi-Mahn	Beipa Public	Public	Beipa	20	11480Low	Logistic Cost
3306006	Garr-Bain	Bethel Foundation Elementary & Junior hi	Mission	Sanniquellie	22	12628Low	Logistic Cost
3304003	Garr-Bain	Bethel World Elementary	Public	Saclepea (1)	70	16660Low	Logistic Cost
3304003	Wee-Gbehyi-Mahn	Bethel World Elementary	Public	Saclepea (1)	70	16660Low	Logistic Cost
3304057	Leewehpea-Mahn	Burtein Public	Public	Boitein Town	32	10304Low	Logistic Cost
3306030	Wee-Gbehyi-Mahn	Cenfase Community	Community	Saclepea (1)	0	0Low	Logistic Cost
3314031	Garr-Bain	Christian Foundation	Mission	Ganta	93	18135Low	Logistic Cost
3314031	Garr-Bain	Christian Foundation	Mission	Ganta	93	18135Low	Logistic Cost
3314029	Garr-Bain	Church of Pentecost Daycare & Elementary	Mission	Ganta	23	13202Low	Logistic Cost
3318012	Leewehpea-Mahn	Cocopa Division # 1 Elementary	Private	Camp # 1	0	0Low	Logistic Cost
3304048	Wee-Gbehyi-Mahn	Danyee Community	Community	Saclepea (1)	41	13202Low	Logistic Cost
3304060	Wee-Gbehyi-Mahn	Dominion Day-Care	Private	Saclepea City	21	12054Low	Logistic Cost
3308010	Wee-Gbehyi-Mahn	Doumpa Public	Public	Doumpa	79	18802Low	Logistic Cost
3304005	Wee-Gbehyi-Mahn	Duayee Inland Mission	Mission	Duayee	32	10304Low	Logistic Cost
3304006	Wee-Gbehyi-Mahn	Duayee Public	Public	Duayee	0	0Low	Logistic Cost
3314067	Garr-Bain	Faith Academy Elementary	Public	Ganta	118	20060Low	Logistic Cost
3314038	Garr-Bain	Faith Academy High	Public	Ganta	160	24480Low	Logistic Cost
3314038	Garr-Bain	Faith Academy High	Public	Ganta	160	24480Low	Logistic Cost
3314057	Garr-Bain	Feed My Lamp Early Foundation	Private	Ganta	87	20706Low	Logistic Cost
3314026	Garr-Bain	Full Gospel Foundation	Private	Ganta	67	15946Low	Logistic Cost

3314028	Garr-Bain	G. W. R. Community	Public	Gbassella Town	0	0	Low	Logistic	Cost
3318022	Meinpea-Mahn	Gahnpa Public	Public	Gahnpa	119	20230	Low	Logistic	Cost
3318022	Wee-Gbehyi-Mahn	Gahnpa Public	Public	Gahnpa	119	20230	Low	Logistic	Cost
3314033	Garr-Bain	Ganta United Methodist	Mission	Ganta	20	11480	Low	Logistic	Cost
3314050	Garr-Bain	Ganta YMCA	Community	Ganta	34	10948	Low	Logistic	Cost
3314042	Garr-Bain	Garr United Methodist	Mission	Dingamo	31	9982	Low	Logistic	Cost
3304008	Wee-Gbehyi-Mahn	Garwonpa Nursery	Community	Garwonpa	33	10626	Low	Logistic	Cost
3304009	Wee-Gbehyi-Mahn	Gbanquoi Public	Public	Gbanquoi Town	91	17745	Low	Logistic	Cost
3314016	Garr-Bain	Gbloryee United Methodist	Mission	Gblooyee	25	14350	Low	Logistic	Cost
3314040	Garr-Bain	Geolanda Rescue Mission	Public	Ganta	0	0	Low	Logistic	Cost
3314040	Garr-Bain	Geolanda Rescue Mission	Public	Ganta	0	0	Low	Logistic	Cost
3316053	Garr-Bain	Golden Foundation of Shepherds	Private	Ganta	69	16422	Low	Logistic	Cost
3314062	Garr-Bain	Grace Community	Community	Gblooyee	37	11914	Low	Logistic	Cost
3304051	Wee-Gbehyi-Mahn	Gray S. Paye Memorial KG	Community	Sacleapea City	26	14924	Low	Logistic	Cost
3304058	Leewehpea-Mahn	Guahn Community Elementary	Public	Guah Town	24	13776	Low	Logistic	Cost
3314019	Garr-Bain	Harriet E. Parkinson Memorial	Private	Ganta	53	17066	Low	Logistic	Cost
3314024	Garr-Bain	Heritage Impact	Mission	Ganta	84	19992	Low	Logistic	Cost
3314007	Garr-Bain	Hope Academy	Private	Ganta	85	20230	Low	Logistic	Cost
3314007	Garr-Bain	Hope Academy	Private	Ganta	85	20230	Low	Logistic	Cost
3314046	Garr-Bain	Josephine Diagor Nusery/Daycare	Private	Ganta	0	0	Low	Logistic	Cost
3314047	Garr-Bain	Kou Meapeh Academy Foundation	Private	Ganta	99	19305	Low	Logistic	Cost
3304017	Leewehpea-Mahn	Kpalah Inland Community	Mission	Kpallah	25	14350	Low	Logistic	Cost
3304053	Wee-Gbehyi-Mahn	Kpaytuo Catholic Community	Mission	Kpweeatuo	30	9660	Low	Logistic	Cost
3304020	Wee-Gbehyi-Mahn	Kpaytuo Inland Mission	Mission	Kpaytuo	0	0	Low	Logistic	Cost
3304019	Leewehpea-Mahn	Kpoyee Kpoah Community	Community	Kpoyee-Kpoah	29	16646	Low	Logistic	Cost
3304056	Leewehpea-Mahn	Kpoyee-kpoah Elementary	Public	Kpoyee-Kpoah	99	19305	Low	Logistic	Cost
3314065	Garr-Bain	Liberty Christian Institute	Private	Ganta	47	15134	Low	Logistic	Cost
3304024	Leewehpea-Mahn	Marcus G. Dahn Foundation	Public	Zahn-Glesonla	37	11914	Low	Logistic	Cost
3304025	Wee-Gbehyi-Mahn	Martor Community Academy	Private	Saclepea (1)	78	18564	Low	Logistic	Cost
3304025	Wee-Gbehyi-Mahn	Martor Community Academy	Private	Saclepea (1)	78	18564	Low	Logistic	Cost
3314054	Garr-Bain	Mave Nursery Elementary	Community	Ganta	41	13202	Low	Logistic	Cost
3314041	Garr-Bain	Messiah Christian Academy	Private	Ganta	70	16660	Low	Logistic	Cost
3314018	Garr-Bain	Morris Preparatory	Private	Ganta	76	18088	Low	Logistic	Cost
3304027	Wee-Gbehyi-Mahn	Mother Theresa Dainsee Mennonite	Private	Saclepea (1)	56	18032	Low	Logistic	Cost
3314059	Garr-Bain	N. A. W. O. P. Elementary	Private	Ganta	72	17136	Low	Logistic	Cost
3304028	Wee-Gbehyi-Mahn	Nancy Lakpor Community	Community	Saclepea (1)	0	0	Low	Logistic	Cost
3314030	Garr-Bain	New Life Academy	Mission	Ganta	110	21450	Low	Logistic	Cost
3304032	Wee-Gbehyi-Mahn	Nyasin Public	Public	Old Nyasin	136	23120	Low	Logistic	Cost
3310029	Yarwein Mehnsonnoh	Nyonkaiyee Public	Public	Nyonkaiyee	24	13776	Low	Logistic	Cost
3306056	Garr-Bain	Prime System School of Christ	Private	LAMCO Camp	39	12558	Low	Logistic	Cost
3304034	Wee-Gbehyi-Mahn	Red Cross Community	Community	Saclepea (1)	0	0	Low	Logistic	Cost
3304035	Wee-Gbehyi-Mahn	Saclepea Catholic Community	Mission	Saclepea (1)	107	20865	Low	Logistic	Cost
3304036	Wee-Gbehyi-Mahn	Saclepea Community Kindegarden	Public	Saclepea (1)	32	10304	Low	Logistic	Cost
3314013	Garr-Bain	Saint Emmanuel Lutheran	Mission	Ganta	39	12558	Low	Logistic	Cost
3314049	Garr-Bain	Salvation In-Christ Mission	Private	Ganta	0	0	Low	Logistic	Cost
3314064	Garr-Bain	Small Ganta Community	Community	Ganta	0	0	Low	Logistic	Cost
3314015	Garr-Bain	Solid Foundation	Private	Ganta	148	22644	Low	Logistic	Cost
3314022	Garr-Bain	St. Lawrence Catholic	Mission	Ganta	133	22610	Low	Logistic	Cost
3306083	Wee-Gbehyi-Mahn	Tee Marshall Day/Care	Private	Saclepea (1)	0	0	Low	Logistic	Cost
3314023	Garr-Bain	Temple of Hope Christian	Mission	Ganta	41	13202	Low	Logistic	Cost
3304039	Wee-Gbehyi-Mahn	Tozoe Memorial High	Private	Saclepea (1)	34	10948	Low	Logistic	Cost
3314008	Garr-Bain	Trumpet Foundation	Mission	Ganta	57	18354	Low	Logistic	Cost
3304047	Wee-Gbehyi-Mahn	ULICA (Saclepea Mission)	Mission	Saclepea (1)	66	15708	Low	Logistic	Cost
3314058	Garr-Bain	ULICA Academy	Private	Bainakpale	58	13804	Low	Logistic	Cost
3322012	Leewehpea-Mahn	ULICA Mission	Mission	Kparplay	41	13202	Low	Logistic	Cost
3314060	Leewehpea-Mahn	Whynor Public	Public	Wheipa	46	14812	Low	Logistic	Cost
3304061	Wee-Gbehyi-Mahn	William R. Tolbert Jr.	Mission	Saclepea City	0	0	Low	Logistic	Cost
3304052	Wee-Gbehyi-Mahn	Yileh Community	Public	Yitepea	20	11480	Low	Logistic	Cost
3314021	Garr-Bain	Yini High	Private	Baintonwin	0	0	Low	Logistic	Cost
3314002	Garr-Bain	Youth Academy	Private	Ganta	0	0	Low	Logistic	Cost
3314063	Garr-Bain	Zokeseh Public	Public	Ganta	0	0	Low	Logistic	Cost
3308056	Boe & Quilla	Zuotuo Public	Public	Zuotuo	61	14518	Medium	Logistic	Cost
3320019	Boe & Quilla	Marlay Public	Public	Marlay	86	20468	Medium	Logistic	Cost
3308040	Doe	T. Q. Harris Farm Public	Public	Kenpea	0	0	Medium	Logistic	Cost
3308009	Doe	D. Gborboe Dwenyen Elementary	Public	Tappita	0	0	Medium	Logistic	Cost
3308001	Doe	Banliguea Community	Public	Bannigea	38	12236	Medium	Logistic	Cost
3308016	Doe	Gboah Memorial Institute	Public	Zeongehn	81	19278	Medium	Logistic	Cost
3308027	Doe	Lorxia Elementary and Junior High	Public	Dialah	79	18802	Medium	Logistic	Cost
3308023	Doe	Korlay Public	Public	Korlay	62	14756	Medium	Logistic	Cost
3308056	Doe	Zuotuo Public	Public	Zuotuo	61	14518	Medium	Logistic	Cost
3308046	Doe	Vonleh Elementary and Junior High	Public	Zuolay	0	0	Medium	Logistic	Cost
3308086	Doe	Tarpeh Memorial High Extension	Public	Tappita	20	11480	Medium	Logistic	Cost
3308017	Doe	Gblonah Public	Public	Gblornah	43	13846	Medium	Logistic	Cost
3308039	Doe	Tarpeh Memorial High	Public	Tappita	0	0	Medium	Logistic	Cost
3308025	Doe	Kwepea Public	Public	Kwepea	111	21645	Medium	Logistic	Cost
3308050	Doe	Yreah Public	Public	Yreah Town	68	16184	Medium	Logistic	Cost
3308007	Doe	Doeyelay Public	Public	Marlay	30	9660	Medium	Logistic	Cost
3322015	Twan River	Darloatuo Public	Public	Sargeant Town	35	11270	Medium	Logistic	Cost
3322051	Twan River	Gblan-Gbeh Community	Public	Gblah	25	14350	Medium	Logistic	Cost
3322034	Twan River	Gbei-Bonnah Public	Public	Gbei Bonnah	115	19550	Medium	Logistic	Cost
3322023	Twan River	Gbei-Vonwea Public	Public	Gbei-Vonwea	134	22780	Medium	Logistic	Cost
3322033	Twan River	Gbei-Quakerplay Community	Public	Queakerplay	73	17374	Medium	Logistic	Cost
3322031	Twan River	Souhplay Public	Public	Souhplay	42	13524	Medium	Logistic	Cost
3322028	Twan River	Genplay Public	Public	Geanplay	48	15456	Medium	Logistic	Cost
3322007	Twan River	Gbonwea Public	Public	Gboanwea	98	19110	Medium	Logistic	Cost
3322050	Twan River	Zonlay Community	Public	Zonlay	65	15470	Medium	Logistic	Cost
3322054	Twan River	Tahnplay Community	Public	Tahnplay	49	15778	Medium	Logistic	Cost
3322035	Twan River	Behplay/Beh Public	Public	Behplay	0	0	Medium	Logistic	Cost
3322030	Twan River	Garplay Community	Community	Garplay	49	15778	Medium	Logistic	Cost
3322027	Twan River	Mah-Display	Public	Mah Display	115	19550	Medium	Logistic	Cost
3322014	Twan River	Tekleplay Public	Public	Tekelplay	94	18330	Medium	Logistic	Cost
3322008	Twan River	U-Bah Public	Public	U-Bah Town	98	19110	Medium	Logistic	Cost
3322029	Twan River	Garplay Public	Public	Garplay	0	0	Medium	Logistic	Cost

3308030Doe	Martha Tubman Pre-Primary	Public	Tappita	0	0	Medium	Logistic	Cost
3318007Leewehpea-Mahn	Blohn Public	Public	Blohn	34	10948	Medium	Logistic	Cost
3318025Leewehpea-Mahn	Gbannah Boie Public	Public	Kpein	71	16898	Medium	Logistic	Cost
3318020Leewehpea-Mahn	Flumpa High	Public	Flumpa	116	19720	Medium	Logistic	Cost
3318039Leewehpea-Mahn	Sehwee Public	Public	Sehwee	0	0	Medium	Logistic	Cost
3318034Leewehpea-Mahn	Kpoahpa Whentein Public	Public	Kpoapa	87	20706	Medium	Logistic	Cost
3318024Leewehpea-Mahn	Gbayblin Elementary	Public	Gbayblin	80	19040	Medium	Logistic	Cost
3302015Gbehlay-Geh	Deemi Public	Public	Gbehlay	33	10626	Medium	Logistic	Cost
3302035Gbehlay-Geh	Larpea Number 2 Public	Public	Larpea Number 2	47	15134	Medium	Logistic	Cost
3302024Gbehlay-Geh	Lapea # 1 Community	Public	Larpea Number 1	64	15232	Medium	Logistic	Cost
3302040Gbehlay-Geh	Duoplay Public	Public	Douplay	123	20910	Medium	Logistic	Cost
3302047Gbehlay-Geh	Kissiplay Community	Community	Kissayplay	0	0	Medium	Logistic	Cost
3302042Gbehlay-Geh	Zao Community High	Public	Zao	138	21114	Medium	Logistic	Cost
3302019Gbehlay-Geh	Kenlap Public	Public	Kenlay 1	57	18354	Medium	Logistic	Cost
3302050Gbehlay-Geh	Karnplay Nursery	Public	Karnplay	35	11270	Medium	Logistic	Cost
3302008Gbehlay-Geh	Loguatuo Community	Public	Loguatuo	0	0	Medium	Logistic	Cost
3302009Gbehlay-Geh	Byeavor Community	Public	Karnplay	121	20570	Medium	Logistic	Cost
3302005Gbehlay-Geh	Dinyeah Memorial Institute	Public	Karnla	105	20475	Medium	Logistic	Cost
3302001Gbehlay-Geh	Karn High	Public	Karnplay	0	0	Medium	Logistic	Cost
3302020Gbehlay-Geh	Baptist Elementary Jr. & Senior High	Mission	Karnplay	32	10304	Medium	Logistic	Cost
3308006Doe	Christian High	Mission	Tappita	130	22100	Medium	Logistic	Cost
3302007Gbehlay-Geh	Christville Nazarane	Mission	Loelay	24	13776	Medium	Logistic	Cost
3318014Leewehpea-Mahn	Cocopa Division # 6 System	Mission	Camp (6)	85	20230	Medium	Logistic	Cost
3318013Leewehpea-Mahn	Cocopa Division # 4 System	Mission	Camp (4)	28	16072	Medium	Logistic	Cost
3318015Leewehpea-Mahn	Cocopa Division # 7 System	Private	Camp 7	23	13202	Medium	Logistic	Cost
3308005Doe	Community Vision	Community	Lugardeh Town	21	12054	Medium	Logistic	Cost
3302014Gbehlay-Geh	Duahnplay Community	Public	Duanplay	0	0	Medium	Logistic	Cost
3316040Twan River	Duoplay Public	Public	Duoplay	51	16422	Medium	Logistic	Cost
3318021Leewehpea-Mahn	Flumpa Catholic Community	Mission	Flumpa	39	12558	Medium	Logistic	Cost
3318019Leewehpea-Mahn	Flumpa Inland Mission	Mission	Flumpa	0	0	Medium	Logistic	Cost
3308011Doe	Frances Memorial Academy	Private	Tappita	44	14168	Medium	Logistic	Cost
3308090Doe	Garduah Memorial Institute	Community	Zuolay	61	14518	Medium	Logistic	Cost
3322025Twan River	Garplay Inland Mission Elem./Jr & Sr High	Mission	Garplay	113	19210	Medium	Logistic	Cost
3322032Twan River	Gbei-Bleetuo Community	Public	Bleetuo	0	0	Medium	Logistic	Cost
3322004Twan River	Gboninea Gayelay Communtiy	Public	Gayelay	85	20230	Medium	Logistic	Cost
3308041Doe	Gboutuo Community	Public	Tiah Town	90	17550	Medium	Logistic	Cost
3318028Leewehpea-Mahn	Gipo Public	Public	Gipo	99	19305	Medium	Logistic	Cost
3308021Doe	Harriet E. Parkerson Community	Community	Tappita	0	0	Medium	Logistic	Cost
3318031Leewehpea-Mahn	John Innis United Methodist	Private	Flumpa	22	12628	Medium	Logistic	Cost
3302016Gbehlay-Geh	Larpea Public	Public	Larpea Number 1	128	21760	Medium	Logistic	Cost
3302013Gbehlay-Geh	Light House Mission Academy	Public	Loguatuo	0	0	Medium	Logistic	Cost
3308085Doe	Mother Jacob Christian Foundation	Mission	Tappita	0	0	Medium	Logistic	Cost
3308035Doe	Raneh Christian Elementary	Private	Tappita	42	13524	Medium	Logistic	Cost
3322026Twan River	Sroh Yoolar Public	Public	Sroh-Yoolar	77	18326	Medium	Logistic	Cost
3308037Doe	St. Francis Catholic	Mission	Tappita	63	14994	Medium	Logistic	Cost
3308043Doe	Tappita United Methodist	Mission	Tappita	35	11270	Medium	Logistic	Cost
3316008Buu-Yao	Tiahplay Public	Public	Tahnplay	138	21114	Medium	Logistic	Cost
3322018Twan River	ULICA Gbei-Vonwea	Private	Gbei-Vonwea	45	14490	Medium	Logistic	Cost
3308091Doe	Volay Public	Public	Zanplay	0	0	Medium	Logistic	Cost
3308047Doe	Walkin Memorial Academy	Mission	Tappita	30	9660	Medium	Logistic	Cost
3308087Doe	Wrolay Public	Public	Wrolay	52	16744	Medium	Logistic	Cost
3308049Doe	Yea Yan Woepa Public	Public	Yea Yan Woepa	38	12236	Medium	Logistic	Cost
3320032Boe & Quilla	Zuatuo Public	Public	Zuatuo	83	19754	Medium	Logistic	Cost
3316022Buu-Yao	Mahnzoplay Community	Public	Mahnzoplay town	71	16898	High	Logistic	Cost
3316040Buu-Yao	Duoplay Public	Public	Duoplay	51	16422	High	Logistic	Cost
3316025Buu-Yao	Lepula Public	Public	Lepula	154	23562	High	Logistic	Cost
3316020Buu-Yao	Nyor Butuo Community	Public	Nyor-Butuo Town	37	11914	High	Logistic	Cost
3316027Buu-Yao	Kaffeelay Public	Public	Kaffeelay Town	82	19516	High	Logistic	Cost
3316048Buu-Yao	Beeplay Public	Public	Beeplay	0	0	High	Logistic	Cost
3316012Buu-Yao	Sayway Doe Memorial High	Public	Gblougea Town	0	0	High	Logistic	Cost
3316032Buu-Yao	Nyor Gbanwea Public	Public	Gbanwea	86	20468	High	Logistic	Cost
3316013Buu-Yao	Nanlah Public	Public	Nanla	64	15232	High	Logistic	Cost
3316014Buu-Yao	Nyor Diaplay Public	Public	Nyonkiayee	114	19380	High	Logistic	Cost
3316011Buu-Yao	Siaway Town Community	Public	Sirwayplay	28	16072	High	Logistic	Cost
3316051Buu-Yao	Barlorplay Public	Public	Barlorplay	109	21255	High	Logistic	Cost
3316041Buu-Yao	Dinplay Public	Public	Diampay	0	0	High	Logistic	Cost
3316056Buu-Yao	Frolay Public	Public	Forfor Village	0	0	High	Logistic	Cost
3316017Buu-Yao	Nathaniel W. Karto Community	Public	Gbanwea	39	12558	High	Logistic	Cost
3316039Buu-Yao	Dankuan Memorial Elementary	Public	Glarlay Old Town	56	18032	High	Logistic	Cost
3316055Buu-Yao	Youtuo Community	Public	Youtuo	53	17066	High	Logistic	Cost
3316005Buu-Yao	Wrolay Public	Public	Wrolay	78	18564	High	Logistic	Cost
3316007Buu-Yao	Tahn Play Public	Public	Tahnplay	73	17374	High	Logistic	Cost
3316035Buu-Yao	Gblarlay Public	Public	Gblonlay	123	20910	High	Logistic	Cost
3316043Buu-Yao	Bealay Public	Public	Bealay	78	18564	High	Logistic	Cost
3316054Buu-Yao	Mehn & Gontee Elementary	Public	Nyor Display	75	17850	High	Logistic	Cost
3316023Buu-Yao	Mahnplay Public	Public	Mahnplay	77	18326	High	Logistic	Cost
3316030Buu-Yao	Gbloulay Demonstration Elemen./ Jr High	Public	Gblonlay	63	14994	High	Logistic	Cost
3316001Buu-Yao	Zuahplay Elementary	Public	Zuaplay	28	16072	High	Logistic	Cost
3316047Buu-Yao	Buutuo High	Public	Buutuo	153	23409	High	Logistic	Cost
3316063Buu-Yao	Gruziainlay Public	Public	Glarlay New Town	51	16422	High	Logistic	Cost
3316046Buu-Yao	Biahplay Elementary	Public	Biahplay	45	14490	High	Logistic	Cost
3316019Buu-Yao	Nyanlay Public	Public	Nyanlay	58	13804	High	Logistic	Cost
3316050Buu-Yao	Beadatuo	Public	Beadatuo	0	0	High	Logistic	Cost
3316002Buu-Yao	Zehlay Community	Public	Zehlay	54	17388	High	Logistic	Cost
3316036Buu-Yao	Glarlay Public	Public	Glarlay New Town	97	18915	High	Logistic	Cost
3316016Boe & Quilla	Tarnwea Public	Public	Tarnwea	59	14042	High	Logistic	Cost
3320010Boe & Quilla	Goah Memorial	Public	Tunwea	72	17136	High	Logistic	Cost
3320012Boe & Quilla	Kehye Memorial	Public	Yoelay	42	13524	High	Logistic	Cost
3320002Kparblee	Behwalay Public	Public	Behwalay	157	24021	High	Logistic	Cost
3320001Kparblee	Beatuo Public	Public	Beatuo	120	20400	High	Logistic	Cost
3320013Boe & Quilla	Kparlay Public	Public	Kparlay Town	96	18720	High	Logistic	Cost
3320034Kparblee	Yourpea Community	Community	Yourpea (2)	40	12880	High	Logistic	Cost
3320037Boe & Quilla	Boe-Gayeplay Community	Public	Gayeplay	0	0	High	Logistic	Cost

3320025Kparblee	S. K. Doe Elementary & Junior High	Public	Yourpea (1)	136	23120High	Logistic	Cost
3320033Boe & Quilla	Suomie Memorial	Public	Tunwea	92	17940High	Logistic	Cost
3320026Boe & Quilla	Toweh Memorial	Public	Toweh Town	0	0High	Logistic	Cost
3320004Boe & Quilla	Bonglay Public	Public	Bonglay	67	15946High	Logistic	Cost
3320007Kparblee	Dubuzon Public	Public	Dubuzon	84	19992High	Logistic	Cost
3320028Boe & Quilla	Yiteepea Public	Public	Yiteepea	70	16660High	Logistic	Cost
3320006Kparblee	Dewoblee Public	Public	Leoblee (1)	93	18135High	Logistic	Cost
3320027Boe & Quilla	Yoelay Public	Public	Yoelay	90	17550High	Logistic	Cost
3320011Kparblee	Kaylay Public	Public	Kaylay	59	14042High	Logistic	Cost
3320035Kparblee	Karngbablee Public	Public	Karngbablee	45	14490High	Logistic	Cost
3324001Yarpea Mahn	Boaplay Public	Public	Boaplay	43	13846High	Logistic	Cost
3324003Yarpea Mahn	Duo Gbeah Public	Public	Duo Boe Village	104	20280High	Logistic	Cost
3324007Yarpea Mahn	Duo Gorton Elementry & Jr High	Public	Duo Town	0	0High	Logistic	Cost
3324014Yarpea Mahn	Kpaye Lepula Public	Public	Kpayee Lepula	159	24327High	Logistic	Cost
3324019Yarpea Mahn	Mao Public	Public	Mao Village	79	18802High	Logistic	Cost
3324021Yarpea Mahn	Duo Kpala Public	Public	Duokpala	77	18326High	Logistic	Cost
3324002Yarpea Mahn	Borsonnor Public	Public	Borsonnon	66	15708High	Logistic	Cost
3324012Yarpea Mahn	Gbein Fela Public	Public	Gbein Feela	56	18032High	Logistic	Cost
3324011Sanniquellie Mahn	Gbein Yonyee Public	Public	Gbein-Yonyee	132	22440High	Logistic	Cost
3324020Yarpea Mahn	New Peela Public	Public	New Peela	26	14924High	Logistic	Cost
3324010Yarpea Mahn	Gayewee Public	Public	Gaywee Village	47	15134High	Logistic	Cost
3324006Yarpea Mahn	Duo Sopa Public	Public	Sopa Town	110	21450High	Logistic	Cost
3324008Yarpea Mahn	Duo Behwin Community	Community	Duo Mahgaypa	0	0High	Logistic	Cost
3324009Yarpea Mahn	Flowin Public	Public	Babli	0	0High	Logistic	Cost
3324017Buu-Yao	Gortonwin Public	Public	Glontowin	29	16646High	Logistic	Cost
3324004Yarpea Mahn	Duo Boe Community	Public	Duo Boe Village	56	18032High	Logistic	Cost
3322003Twan River	Lowlay Public	Public	Lowlay	91	17745High	Logistic	Cost
3322042Twan River	Gborplay Public	Public	Gborplay	85	20230High	Logistic	Cost
3322045Twan River	Lontuo Public	Public	Lontuo	135	22950High	Logistic	Cost
3322053Twan River	Karweatuo Community	Public	Karweatuo	52	16744High	Logistic	Cost
3322052Twan River	Teahyeigbayplay Public	Public	Teahzaygbayplay	34	10948High	Logistic	Cost
3322006Twan River	Senlay Public	Public	Senlay	154	23562High	Logistic	Cost
3322044Twan River	Buannay Public	Public	Buannay	32	10304High	Logistic	Cost
3322005Twan River	Slangonplay Public	Public	Slangonplay	144	22032High	Logistic	Cost
3322016Twan River	Daypea Public	Public	Gayelay	99	19305High	Logistic	Cost
3322019Twan River	Tartuo Public	Public	Tartuo	94	18330High	Logistic	Cost
3322002Twan River	Kpairplay Public	Public	Kparplay	0	0High	Logistic	Cost
3322041Twan River	Beoyolor Inland Mission	Mission	Beoyolor	43	13846High	Logistic	Cost
3322010Twan River	Leamah Elem & JR.High	Public	Varyenglay	105	20475High	Logistic	Cost
3322009Twan River	Keihplay Public	Public	Keiplay	82	19516High	Logistic	Cost
3322039Twan River	Teahyagbayplay Public	Public	Teahyagbayplay	42	13524High	Logistic	Cost
3322048Twan River	Bleemisplay Public	Public	Bleemisplay	129	21930High	Logistic	Cost
3306029Sanniquellie Mahn	Gballasonnon Public	Public	Badie	80	19040High	Logistic	Cost
3302010Yarpea Mahn	Zeanlay No. 1 Public	Public	Zeanlay 1	74	17612High	Logistic	Cost
3302048Gbehlay-Geh	Geipa Community	Public	Geipa	0	0High	Logistic	Cost
3302038Gbehlay-Geh	Kpolay Community	Public	Kpolay	33	10626High	Logistic	Cost
3302033Gbehlay-Geh	Zor-Lehpular Public	Public	Zorlehputa	141	21573High	Logistic	Cost
3302029Gbehlay-Geh	Youhnlay Public	Public	Youhnlay	95	18525High	Logistic	Cost
3302022Gbehlay-Geh	Zorgarnagly Public	Public	Zorgarnaglay	38	12236High	Logistic	Cost
3302032Gbehlay-Geh	Tokpa Wonta Elementary	Public	Duelay	52	16744High	Logistic	Cost
3302028Gbehlay-Geh	Zorgowee Public	Public	Zorgowee	0	0High	Logistic	Cost
3302021Gbehlay-Geh	Yeaplay Public	Public	Yeaplay	64	15232High	Logistic	Cost
3302030Gbehlay-Geh	Sackolay Public	Public	Sackolay	44	14168High	Logistic	Cost
3302012Gbehlay-Geh	Peelar Public	Public	Peelar	66	15708High	Logistic	Cost
3302027Gbehlay-Geh	Zualay Public	Public	Zualay	0	0High	Logistic	Cost
3302017Gbehlay-Geh	Nyooplay Public	Public	Nyaoplay	30	9660High	Logistic	Cost
3302004Gbehlay-Geh	Gbanplay Public	Public	Gbarplay	21	12054High	Logistic	Cost
3302031Gbehlay-Geh	Nanpea Community	Public	Nanpea	29	16646High	Logistic	Cost
3302039Gbehlay-Geh	Kenkorkporplay Public	Public	Kentorkporplay	0	0High	Logistic	Cost
3312046Zoe-Gbao	Bahn AG Elem. Jr High (New Day Foundatio	Community	Bahn	40	12880High	Logistic	Cost
3312044Zoe-Gbao	Bahn Catawba High	Mission	Babli	152	23256High	Logistic	Cost
3312051Zoe-Gbao	Bahn Community	Community	Bahn	103	20085High	Logistic	Cost
3312049Zoe-Gbao	Bahn High	Public	Bahn	0	0High	Logistic	Cost
3312047Zoe-Gbao	Bahn Red Cross Elementary	Private	Bahn	69	16422High	Logistic	Cost
3312045Zoe-Gbao	Bayleglay Public	Public	Barlorplay	0	0High	Logistic	Cost
3320041Kparblee	Beatuo Community	Community	Beadatuo	37	11914High	Logistic	Cost
3322021Twan River	Ben-Yoolor Public	Public	Beoyolor	0	0High	Logistic	Cost
3316049Buu-Yao	Bualay Elementary	Public	Bualay	64	15232High	Logistic	Cost
3312054Gbor	Children for Christ	Mission	Zuaplay	29	16646High	Logistic	Cost
3316042Buu-Yao	Christian Union	Mission	Buutuo	70	16660High	Logistic	Cost
3316042Buu-Yao	Christian Union	Mission	Buutuo	70	16660High	Logistic	Cost
3322001Twan River	Comca Nazarene School Of Faith	Mission	Varyenglay	73	17374High	Logistic	Cost
3312042Zoe-Gbao	Daynuah Memorial Institute	Private	Bahn	81	19278High	Logistic	Cost
3312041Zoe-Gbao	Duanpea Public	Public	Duanpea	21	12054High	Logistic	Cost
3324016Yarpea Mahn	Duo Tiayee Public	Public	Tiayee	41	13202High	Logistic	Cost
3324005Yarpea Mahn	Duo Boe Public	Public	Duo Boe Village	118	20060High	Logistic	Cost
3312038Gbor	Fiaplay Elementary	Public	Fiaplay	80	19040High	Logistic	Cost
3312033Gbor	Gampa Public	Public	Ganpa	22	12628High	Logistic	Cost
3312030Gbor	Gbahnwin Public	Public	Gbanwin	80	19040High	Logistic	Cost
3302034Gbehlay-Geh	Gbarplay Public	Public	Gbarplay	54	17388High	Logistic	Cost
3324018Yarpea Mahn	Gbayee Public	Public	Gbayee	0	0High	Logistic	Cost
3324011Yarpea Mahn	Gbein Yonyee Public	Public	Gbein-Yonyee	132	22440High	Logistic	Cost
3312036Zoe-Gbao	Gberrow Elementary	Public	Bahn	0	0High	Logistic	Cost
3302037Gbehlay-Geh	Glee Dokpah Public	Public	Zortarpa	48	15456High	Logistic	Cost
3316058Buu-Yao	Golden Torch Primary Academy	Private	Golden Touch	57	18354High	Logistic	Cost
3316061Buu-Yao	Gomah Memorial Christian School	Mission	Yao-Clan	72	17136High	Logistic	Cost
3324017Yarpea Mahn	Gortonwin Public	Public	Glontowin	29	16646High	Logistic	Cost
3302023Gbehlay-Geh	Guagortuo Public	Public	Guagortuo	131	22270High	Logistic	Cost
3312052Gbor	Gwealay	Public	Gwehlay	39	12558High	Logistic	Cost
3302026Buu-Yao	Kailay Public	Public	Kialay	41	13202High	Logistic	Cost
3302026Gbehlay-Geh	Kailay Public	Public	Kialay	41	13202High	Logistic	Cost
3324013Yarpea Mahn	Karwin Public	Public	Karwin	63	14994High	Logistic	Cost
3312029Zoe-Gbao	Karyea Elementary	Public	Bahn	0	0High	Logistic	Cost

3322047	Twan River	Kpehtuo Community	Public	Kpehtuo	0	0	High	Logistic	Cost
3320015	Boe & Quilla	Kpou Community	Community	Bonglay	72	17136	High	Logistic	Cost
3320017	Boe & Quilla	Lantoah Community	Community	Toweh Town	92	17940	High	Logistic	Cost
3316024	Buu-Yao	Leaplay Public	Public	Leaplay	53	17066	High	Logistic	Cost
3316025	Buu-Yao	Lepula Public	Public	Lepula	154	23562	High	Logistic	Cost
3322036	Twan River	Lontuo Methodist	Mission	Lontuo	23	13202	High	Logistic	Cost
3312027	Zoe-Gbao	Miaplay Bonnah Public	Public	Bahn	41	13202	High	Logistic	Cost
3312023	Zoe-Gbao	Miaplay Yeezlay Public	Public	Miaplay Yeezlay	138	21114	High	Logistic	Cost
3316019	Buu-Yao	Nyanlay Public	Public	Nyanlay	58	13804	High	Logistic	Cost
3316015	Buu-Yao	Nyor Lutheran Youth Training Institute	Mission	Diamplay	50	16100	High	Logistic	Cost
3316044	Buu-Yao	Nyor-Blontuo	Public	Blontuo	33	10626	High	Logistic	Cost
3316060	Buu-Yao	Nyor-Butuo Town	Public	Nyor-Clan	68	16184	High	Logistic	Cost
3312021	Gbor	Payee Public	Public	Gbor Districe	93	18135	High	Logistic	Cost
3316059	Buu-Yao	Payglay Community	Public	Grotao	43	13846	High	Logistic	Cost
3320005	Boe & Quilla	Perlea Community	Community	Toweh Town	119	20230	High	Logistic	Cost
3312019	Zoe-Gbao	Quiah Elementary/Junior High	Public	Gblah	97	18915	High	Logistic	Cost
3312018	Zoe-Gbao	Rlantuo Public	Public	Rlantuo	72	17136	High	Logistic	Cost
3312017	Zoe-Gbao	Rlekporlay Public	Public	Rlekporlay Town	0	0	High	Logistic	Cost
3312055	Zoe-Gbao	Sackor Community	Public	Bahn	0	0	High	Logistic	Cost
3316010	Buu-Yao	Sackorville Elementary	Public	Sawkaulville	43	13846	High	Logistic	Cost
3312015	Gbor	Sangarplay Public	Public	Sirganplay	123	20910	High	Logistic	Cost
3320023	Boe & Quilla	Sar-Bogentuo Public	Public	Sarlay	0	0	High	Logistic	Cost
3312014	Zoe-Gbao	Sia-Kwado Public	Public	Siaplay	102	19890	High	Logistic	Cost
3312016	Zoe-Gbao	Siaplay Public	Public	Siaplay	69	16422	High	Logistic	Cost
3322017	Twan River	Somoca Community	Community	Varyenglay	43	13846	High	Logistic	Cost
3312056	Zoe-Gbao	Swamah Private	Public	Bayleglay	102	19890	High	Logistic	Cost
3316016	Buu-Yao	Tarnwea Public	Public	Tarnwea	59	14042	High	Logistic	Cost
3312012	Gbor	Taykpaglay Public	Public	Teahplay	60	14280	High	Logistic	Cost
3312062	Gbor	Taylay Inland Community	Community	Taylay	57	18354	High	Logistic	Cost
3312057	Zoe-Gbao	Teah-Bee Community	Public	Rlekpoplay	93	18135	High	Logistic	Cost
3316006	Buu-Yao	Teahplay Public	Public	Teahplay	120	20400	High	Logistic	Cost
3316006	Buu-Yao	Teahplay Public	Public	Teahplay	120	20400	High	Logistic	Cost
3324015	Yarpea Mahn	Tiapa Public	Public	Tiapa	73	17374	High	Logistic	Cost
3322040	Twan River	Tror-Nyoan Public	Public	Beo-trohplay	92	17940	High	Logistic	Cost
3320036	Boe & Quilla	Tuonwea Community	Public	Tarnwea	0	0	High	Logistic	Cost
3322018	Twan River	ULICA Gbei-Vonwea	Private	Gbei-Vonwea	45	14490	High	Logistic	Cost
3306071	Buu-Yao	United Liberia Inland	Private	Tiayee	82	19516	High	Logistic	Cost
3312009	Zoe-Gbao	Waymah Elementary/Junior High	Public	Bahn	86	20468	High	Logistic	Cost
3312010	Gbor	Wehyeplay Public	Public	Wehyeplay	108	21060	High	Logistic	Cost
3302025	Gbehlay-Geh	Yarmie Community	Public	Youhnlay	70	16660	High	Logistic	Cost
3320029	Kparblee	Yourpea Public	Public	Yourpea (1)	144	22032	High	Logistic	Cost
3312006	Gbor	Zayglay Community	Public	Zayglay	59	14042	High	Logistic	Cost
3312058	Gbor	Zayglay Public	Public	Zayglay	111	21645	High	Logistic	Cost
3316002	Twan River	Zehlay Community	Public	Zehlay	54	17388	High	Logistic	Cost
3312040	Zoe-Gbao	Zotah Memorial Public	Public	Bahn	48	15456	High	Logistic	Cost
3312001	Gbor	Zuoplay Public	Public	Zuaplay	72	17136	High	Logistic	Cost

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