

THE UNIVERSITY of NORTH CAROLINA at CHAPEL HILL

# Livelihood Empowerment Against Poverty Programme Endline Impact Evaluation Report Appendixes

August 24, 2017

[This page intentionally left blank]

LEAP Programme Endline Impact Evaluation Report Appendixes

## **Evaluation Team**

UNC: Gustavo Angeles, Averi Chakrabarti, Sudhanshu Handa, Gean Spektor

ISSER: Robert Darko Osei, Isaac Osei-Akoto

UNICEF Office of Research—Innocenti (OoR): Richard de Groot

#### **Contact information:**

Gustavo Angeles, UNC gustavo\_angeles@unc.edu

Sudhanshu Handa, UNC <u>shanda@email.unc.edu</u>

Gean Spektor, UNC gspektor@email.unc.edu

Robert Darko Osei, ISSER rdosei@yahoo.co.uk

Richard de Groot, UNICEF OoR rdegroot@unicef.org

These appendixes are a part of the Livelihood Empowerment Against Poverty Programme Endline Impact Evaluation Report.

# **Table of contents**

Appendix A.1 Study design details	1
A.1.1 Propensity score matching analysis	1
A.1.2 Multivariate analysis	4
Appendix A.2 Mean differences for attrition analysis	5
A.2.1 Overall attrition	5
A.2.2 Differential attrition	7
Appendix A.3 Changes in indicators in treatment (LEAP) households	10
Appendix A.4 Impacts on consumption and well-being: sub-group and ATT results	16
A.4.1 Sub-group results	16
A.4.2 ATT results	19
Appendix A.5 Impacts on productive activities and financial assets	20
A.5.1 Household financial assets - nominal values	20
A.5.2 Sub-group results	21
Appendix A.6 Impacts on education and child's work: sub-group and ATT results	41
A.6.1 Sub-group results	41
A.6.2 ATT results	47
Appendix A.7 Adult health impacts: sub-group and ATT results	57
A.7.1 NHIS enrolment, ever and current- adults	57
A.7.2 Self-reported health status- adults	61
A.7.3 Morbidity and service use-adults	63
Appendix A.8 Impacts on child health: sub-group and ATT results	68
A.8.1 NHIS enrolment, ever and current- children	68
A.8.2 Morbidity and service use- children	71

# **Tables and figures**

Table A.1.1.1: Distribution of LEAP and ISSER matched households	.1
Figure A.1.1.1: Distribution of propensity score by sample	.2
Figure A.1.1.2: Distribution of propensity scores (unweighted)	.3
Figure A.1.1.3: Distribution of propensity scores (weighted)	.3
Table A.2.1.1: Overall attrition - household characteristics	.5
Table A.2.1.2: Overall attrition - housing characteristics	.5
Table A.2.1.3: Overall attrition - household NHIS enrolment	.6
Table A.2.1.4: Overall attrition - household poverty and vulnerability	.6
Table A.2.1.5: Overall attrition - household productive assets	.6

Table A.2.1.6: Overall attrition - household savings and transfers	7
Table A.2.2.1: Selective attrition - household characteristics	7
Table A.2.2.2: Selective attrition - housing characteristics	8
Table A.2.2.3: Selective attrition - household NHIS enrolment	8
Table A.2.2.4: Selective attrition - household poverty and vulnerability	8
Table A.2.2.5: Selective attrition - household productive assets	9
Table A.2.2.6: Selective attrition - household savings and transfers	9
Table A.3.1: Change in consumption indicators in treatment (LEAP) households	10
Table A.3.2: Change in productive activities and financial assets indicators in treatment households	10
Table A.3.3: Change in education indicators for children in treatment (LEAP) households	12
Table A.3.4: Change in adult health indicators in treatment (LEAP) households	13
Table A.3.5: Change in child health indicators in treatment (LEAP) households, by age & gender	15
Table A.4.1.1: The impact of LEAP on housing characteristics, by sex of the head	16
Table A.4.1.2: The impact of LEAP on housing characteristics, by household size	17
Table A.4.1.3: The impact of LEAP on housing characteristics, by baseline consumption	18
Table A.4.2.1: ATT household real consumption expenditure	19
Table A.4.2.2: ATT Impact of LEAP on housing characteristics	19
Table A.5.1.1: Household financial assets - nominal values	20
Table A.5.2.1: Labour productivity - poorest 50% households	21
Table A.5.2.2: Labour productivity - less poor 50% households	21
Table A.5.2.3: Labour productivity - female headed households	22
Table A.5.2.4: Labour productivity - male headed households	23
Table A.5.2.5: Labour productivity - small households	23
Table A.5.2.6: Labour productivity - large households	24
Table A.5.2.7: Productive assets - poorest 50% households	25
Table A.5.2.8: Productive assets - less poor 50% households	26
Table A.5.2.9: Productive assets - female headed households	27
Table A.5.2.10: Productive assets - male headed households	28
Table A.5.2.11: Productive assets - small households	29
Table A.5.2.12: Productive assets - large households	30
Table A.5.2.13: Savings and transfers by sub-group	31
Table A.5.2.14: Household financial assets - real values - poorest 50% households	32
Table A.5.2.15: Household financial assets - real values - less poor 50% households	33
Table A.5.2.16: Household financial assets - real values - female headed households	34
Table A.5.2.17: Household financial assets - real values - male headed households	35

Table A.5.2.18: Household financial assets - real values - small households	36
Table A.5.2.19: Household financial assets - real values - large households	37
Table A.5.2.20: Livestock and home enterprises - poorest 50% households	38
Table A.5.2.21: Livestock and home enterprises - less poor 50% households	38
Table A.5.2.22: Livestock and home enterprises - female headed households	39
Table A.5.2.23: Livestock and home enterprises - male headed households	39
Table A.5.2.24: Livestock and home enterprises - small households	40
Table A.5.2.25: Livestock and home enterprises - large households	40
Table A.6.1.1: The impact of LEAP on school enrolment, by sex of the head, household size and baseline consumption (children $5 - 17$ years)	.41
Table A.6.1.2: The impact of LEAP on school attendance, by sex of head, household size and baseline consumption (children 5 – 17 years)	42
Table A.6.1.3: The impact of LEAP on grade for age, by sex of head, household size and baseline consumption (children $5 - 17$ years)	43
Table A.6.1.4: The impact of LEAP on schooling expenditures, by sex of head, household size and baselin consumption (children $5 - 17$ years)	ne 44
Table A.6.1.5: The impact of LEAP on children's work in the last 7 days, by age group and sex	45
Table A.6.1.6: The impact of LEAP on children's work, by sex of the head, household size and baseline consumption (children $7 - 17$ years)	46
Table A.6.2.1: The ATT impact of LEAP on school enrolment	47
Table A.6.2.2: The ATT impact of LEAP on school attendance	48
Table A.6.2.3: The ATT impact of LEAP on grade for age	49
Table A.6.2.4: The ATT impact of LEAP on schooling expenditures	50
Table A.6.2.5: The ATT impact of LEAP on school enrolment, by sex of the head, age group and sex	51
Table A.6.2.6: The ATT impact of LEAP on school attendance, by sex of head, household size and baselin consumption (children $5 - 17$ years)	ne .52
Table A.6.2.7: The ATT impact of LEAP on grade progression, by sex of head, household size and baselin consumption (children 5 – 17 years)	ne 53
Table A.6.2.8: The ATT impact of LEAP on schooling expenditures, by sex of head, household size and baseline consumption (children $5 - 17$ years)	54
Table A.6.2.9: The ATT impact of LEAP on children's work in the last 7 days, by age and sex	55
Table A.6.2.10: The ATT impact of LEAP on children's work, by sex of the head, household size and baseline consumption (children 7 – 17 years)	56
Table A.7.1.1: NHIS enrolment – by sex of the head of household	57
Table A.7.1.2: NHIS enrolment – by household size	58
Table A.7.1.3: NHIS enrolment – by baseline consumption	59
Table A.7.1.4: ATT impact of LEAP on household-level NHIS Enrolment	60
Table A.7.1.5: ATT impact on individual NHIS current enrolment – by age group	60

Table A.7.2.1: ATT impact on self-reported health status – adults aged 18 or higher61
Table A.7.2.2: ATT impact on self-reported health status, by adult age group
Table A.7.2.3: ATT impact on self-reported health status, by sex    62
Table A.7.3.1: Adult morbidity and service use, by age    63
Table A.7.3.2: Adult morbidity and service use, by sex    63
Table A.7.3.3: ATT impact on adult morbidity and service use
Table A.7.3.4: ATT impact on adult morbidity and service use, by age
Table A.7.3.5: ATT impact on adult morbidity and service use, by sex
Table A.7.3.6: ATT impact on adult hospitalization
Table A.7.3.7: ATT impact of LEAP on expenditures in health    67
Table A.8.1.1: Impact of LEAP on children's NHIS enrolment, by sex of the head, household size and baseline consumption $(0 - 17 \text{ years})$
Table A.8.1.2: ATT impact of LEAP on children's NHIS enrolment, by age and sex
Table A.8.1.3: ATT impact of LEAP on children's NHIS enrolment, by sex of the head, household size and baseline consumption $(0 - 17 \text{ years})$
Table A.8.2.1: Impact of LEAP on child morbidity and use of health services, by sex of the head, household size and baseline consumption $(0 - 17 \text{ years})$
Table A.8.2.2: ATT Impact of LEAP on child morbidity and use of health services, by age and sex
Table A.8.2.3: ATT Impact of LEAP on child morbidity and use of health services, by sex of the head, household size and baseline consumption $(0 - 17 \text{ years})$
Table A.8.2.4: Impact of LEAP on child health expenditures, by sex of the head, household size and baseline consumption $(0 - 17 \text{ years})$
Table A.8.2.5: ATT impact of LEAP on children's health expenditures (in GH¢), by age and sex75
Table A.8.2.6: ATT Impact of LEAP on child health expenditures, by sex of the head, household size and baseline consumption $(0 - 17 \text{ years})$

# Appendix A.1 Study design details

### A.1.1 Propensity score matching analysis

In 2010 ISSER agreed to incorporate 699 future LEAP beneficiary households into the field work of a national household survey they were undertaking in collaboration with Yale University (U.S.A.). The idea was to exploit the national survey to construct a non-experimental comparison group using propensity score matching (PSM). These matched households would then then be followed in 2012 and 2016 along with the LEAP households to create a longitudinal propensity score matching (PSM) design for the evaluation. The literature assessing PSM indicates that the technique can mimic a social experiment if data from both the treatment and comparison group are collected in the exact same way, with identical survey instruments, and if households are followed longitudinally in order to control for fixed unobservable differences across households as well as communities in which the households reside (Heckman, Ichimura & Todd, 1997; Diaz & Handa, 2006; Handa & Maluccio, 2010). The LEAP evaluation satisfies these criteria: data from the ISSER and LEAP samples were collected by the exact same field teams using the same field procedures at the same time, using identical survey instruments (the LEAP survey instrument is actually a sub-set of the larger ISSER instrument), and followed longitudinally.

The LEAP sample for the evaluation was drawn from households that were part of the LEAP expansion in late 2009; this expansion occurred in Brong Ahafo, Volta and Central Regions of Ghana. Since the ISSER survey is national and included urban households, the matched sample of households was drawn from a sub-sample of ISSER households residing in communities and districts that were geographically close to LEAP districts or that were geographically similar. Urban households from the ISSER sample were excluded, as were households in Upper East and Upper West Regions and the Northern part of the Northern Region. The full ISSER survey comprised 5,009 households of which 3136 were from rural areas. The sample selected for the matching comprised 2,330 households, whose geographical distribution is shown in the last two columns of Table A.1.1.

	ΙE	٨D	ISSER 1	Matched	Matched	Sample Plus	Full IS	SSER
	LE.	Ar	Sar	nple	215 H	Extra HH	Sample	
	(1	)	(1	2)		(3)	(4)	
	Ν	(%)	Ν	(%)	Ν	(%)	Ν	(%)
Western			84	12.1	104	11.4	329	14.1
Central	176	25.2	95	13.6	118	12.9	270	11.6
Volta	82	11.7	141	20.2	185	20.2	390	16.7
Eastern			102	14.6	134	14.7	403	17.3
Ashanti			122	17.5	169	18.5	504	21.6
Brong Ahafo	441	63.1	101	14.5	135	14.8	314	13.5
Northern			54	7.7	69	7.6	120	5.2
Ν	699	100	699	100	914	100	2.330	100

#### Table A.1.1.1: Distribution of LEAP and ISSER matched households

The propensity score was calculated for each of these 2,330 households using a probit model that included all variables used by the LEAP program in ranking households for eligibility. These variables included household demographic composition and number of orphans, age, sex and education of the household head, employment status of household members, housing quality and ownership of livestock. Since LEAP and ISSER households come from different communities, we also included community variables in the model, though these are not used explicitly in LEAP targeting; these variables included the occurrence of each of shocks (flood, drought, crop disease, etc.) and the population size of the community. The distribution of the resulting propensity scores is depicted in the graph below where the ISSER matched sample is identified using one-to-one nearest neighbour without replacement in order to obtain a sample size equal to that of the LEAP sample. The scores for LEAP households are clearly to the right of those for the entire ISSER sample

indicating a higher likelihood of participating in LEAP. However the matching technique manages to pull a sample of ISSER households with scores that are distributed to the right of the ISSER households, and thus closer to the LEAP households.





With the matched sample (plus the extra 215 households that were followed-up in 2012, and again in 2016, from the ISSER sample), we calculated new propensity scores and used these new scores as 'weights' in the impact estimates—this technique is known as 'inverse probability weighting'-- this technique allows us to eliminate any remaining imbalance in baseline characteristics between the LEAP and comparison group. The two figures below show the distribution of the new weights calculated using the matched sample plus the extra 215 ISSER households. These weights are calculated using a regression model similar to the one used in the original matching analysis, but using this restricted sample. The first figure (Figure A.1.1.2) shows the distribution of scores with the weights. The weighting leads to a distribution of scores among ISSER households that is much more similar to that of LEAP households.





Figure A.1.1.3: Distribution of propensity scores (weighted)



#### A.1.2 Multivariate analysis

We estimate the DD impact estimator in a multivariate context, controlling for baseline characteristics of the sample households in order to account for differences across samples that might account for some of the observed treatment effects.

The control variables used are demographic composition, age, school, sex and marital status of the head, and log of total household size; when dealing with individual outcomes, we also control for age and sex of the individual. We emphasize that all these measures are from the baseline data set only. Because C households are pulled from a national survey and therefore come from geographically different areas than T households, we also control for community level effects in our statistical model ('community fixed effects') in order to strengthen the internal validity of the analysis. For the consumption expenditure estimates only, we also include a set of interactions between head's schooling and eleven prices of common consumption items, and head's age and the presence in the community of each of ten shocks (illness, theft, fire, water, electricity, drought, etc.). In the multivariate analysis, the basic setup of the estimation model is shown in equation (1):

(1) 
$$Y_{it} = \alpha + \beta_1 (2012)_{it} + \beta_2 (2016)_{it} + \beta_3 (T)_{it} + \beta_4 (T * 2012)_{it} + \beta_5 (T * 2016)_{it} + \beta_6 X_{it} + c_i + \varepsilon_{it}$$

In this framework '2012' is a dummy (indicator) variable equal to 1 if the observation pertains to the midline post-intervention period (2012), '2016' is a variable equal to 1 if the observation is from the endline, T is a dummy variable indicating whether the observation receives the treatment. The DD estimate of impact between baseline and midline is given by  $\beta_4$ , the interaction between the two variables, while the impact between baseline and endline is given by  $\beta_5$ . The X vector captures control variables described above, c is the community level control variable, and t and i indicate year of survey and individual observation respectively. The units of observation may be individuals or households depending on the outcome. The coefficient  $\beta_3$  is a measure of the pre-treatment mean difference in Y between T and C while  $\beta_1$  and  $\beta_2$  measures general changes over time which will be important to control when outcomes are influenced by time trends (such as school enrolment). In the tables we present in the text we only report the coefficient of the DD variables representing the impacts at midline and endline, as well as a test for the difference in impacts between midline and endline. The regression is weighted using the IPW (LEAP observations are given a weight of 1).

# Appendix A.2 Mean differences for attrition analysis

### A.2.1 Overall attrition

Table A.2.1.1:	<b>Overall attrition</b>	<ul> <li>household</li> </ul>	characteristics
----------------	--------------------------	-------------------------------	-----------------

	Attriters		Pa	nel	Mean	Diff	
Variables	Mean	N1	Mean	N2	Diff	SE	p-value
Age of household head	69.574	263	59.389	1,350	-10.185	1.587	0.000
Female household head	0.611	263	0.598	1,350	-0.013	0.045	0.770
Widow	0.499	263	0.361	1,350	-0.138	0.044	0.002
Never married	0.272	263	0.194	1,350	-0.078	0.044	0.078
Household head attended school	0.240	263	0.336	1,350	0.095	0.039	0.014
Residents age 0-5	0.231	263	0.502	1,350	0.271	0.048	0.000
Residents age 6-12	0.418	263	0.872	1,350	0.453	0.082	0.000
Residents age 13-17	0.360	263	0.563	1,350	0.203	0.087	0.021
Residents age 18-24	0.235	263	0.372	1,350	0.137	0.053	0.011
Residents age 25-64	0.507	263	0.998	1,350	0.491	0.074	0.000
Residents age 65+	0.838	263	0.751	1,350	-0.087	0.062	0.159
Household size	2.616	263	4.080	1,350	1.464	0.220	0.000

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### Table A.2.1.2: Overall attrition - housing characteristics

	Attriters		Pa	nel	Mean	Diff	
Variables	Mean	N1	Mean	N2	Diff	SE	p-value
Outer walls of cement	0.377	263	0.300	1,350	-0.077	0.049	0.115
Floor made of cement	0.617	263	0.643	1,350	0.026	0.048	0.594
Exclusive cooking room	0.396	263	0.357	1,350	-0.039	0.050	0.437
Main source of lighting is electricity	0.302	263	0.351	1,350	0.049	0.042	0.245
Flush or pit toilet	0.417	263	0.337	1,350	-0.080	0.050	0.114
Number of rooms occupied (log)	0.846	263	1.026	1,350	0.179	0.029	0.000

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### Table A.2.1.3: Overall attrition - household NHIS enrolment

	Attriters		Panel		Mean	Diff	
Variables	Mean	N1	Mean	N2	Diff	SE	p-value
Has at least one member ever had NHIS insurance	0.642	263	0.694	1,350	0.051	0.040	0.200
All members ever have NHIS insurance	0.422	263	0.362	1,350	-0.060	0.047	0.207
Has at least one member with valid NHIS insurance	0.387	263	0.464	1,350	0.077	0.048	0.113
All members with valid NHIS insurance	0.249	263	0.209	1,350	-0.040	0.046	0.384

Notes: Weighted results; standard errors obtained adjusting for clustering.

Table A.2.1.4: Overall attrition - household poverty and vulnerability

	Attriters		Panel		Mean	Diff	
Variables	Mean	N1	Mean	N2	Diff	SE	p-value
Household real monthly consumption expenditure	48.448	263	47.265	1,350	-1.183	2.922	0.686
per adult equivalent (GH¢) - Total							
Household real monthly consumption expenditure	34.355	250	31.879	1,332	-2.475	1.997	0.216
per adult equivalent (GH¢) - Food							
Household food security score, 0 (good)- 2 (bad)	0.669	121	0.625	578	-0.045	0.068	0.514
Child food security score, 0-4	1.341	41	1.398	382	0.056	0.280	0.841
Child skipped meal in last 12 months due to money	0.122	41	0.134	387	0.012	0.061	0.840

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### Table A.2.1.5: Overall attrition - household productive assets

	Attriters		Panel		Mean	Diff	
Variables	Mean	N1	Mean	N2	Diff	SE	p-value
Number of hh members who work for pay	0.069	263	0.097	1,350	0.028	0.022	0.214
Total days provided by casual labour	5.206	263	10.176	1,350	4.970	2.325	0.034
Crop yield	359.647	111	451.117	881	91.470	69.184	0.188
Own any sheep/goat/chicken	0.318	263	0.431	1,350	0.113	0.048	0.020
Number of sheep	0.400	263	0.630	1,350	0.230	0.153	0.135
Number of goats	0.592	263	1.126	1,350	0.535	0.212	0.012
Number of chickens	2.625	263	4.177	1,350	1.553	0.722	0.033
Own a non-farm enterprise	0.203	263	0.301	1,350	0.098	0.040	0.016
Number of hoes owned	1.016	263	1.838	1,350	0.821	0.192	0.000
Number of axes owned	0.193	263	0.379	1,350	0.186	0.047	0.000
Number of rakes owned	0.023	263	0.045	1,350	0.022	0.014	0.123
Number of shovels owned	0.059	263	0.112	1,350	0.053	0.027	0.054

	Attriters	Panel	Mean	Diff			Attriters
Variables	Mean	N1	Mean	N2	Diff	Variables	Mean
Number of picks owned	0.108	263	0.102	1,350	-0.006	0.061	0.915
Number of sickles owned	0.035	263	0.111	1,350	0.076	0.029	0.010
Number of cutlasses owned	1.211	263	1.709	1,350	0.498	0.174	0.005
Number of trailers owned	0.014	263	0.038	1,350	0.025	0.017	0.141

#### Table A.2.1.5: Overall attrition - household productive assets (continued)

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### Table A.2.1.6: Overall attrition - household savings and transfers

	Attriters		Panel		Mean	Diff	p-value
Variables	Mean	N1	Mean	N2	Diff	SE	
Household has savings at formal institution	0.053	263	0.124	1,350	0.071	0.021	0.001
Household has savings at home	0.230	263	0.210	1,350	-0.020	0.038	0.605
Household received transfer in last 12 months	0.714	263	0.539	1,350	-0.175	0.046	0.000
Household giving transfer in last 12 months	0.151	263	0.272	1,350	0.120	0.040	0.003

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### A.2.2 Differential attrition

#### Table A.2.2.1: Selective attrition - household characteristics

Variables	Compa	arison	Treatment		Mean	Diff	p-	Effect
, unucles	Mean	N1	Mean	N2	Diff	SE	value	Size
Age of head	59.760	772	59.078	578	-0.682	1.700	0.689	-0.036
Female headed households	0.613	772	0.585	578	-0.029	0.049	0.559	-0.057
Widow	0.360	772	0.362	578	0.002	0.043	0.969	0.004
Never married	0.216	772	0.176	578	-0.039	0.037	0.285	-0.096
Household head attended school	0.359	772	0.317	578	-0.042	0.050	0.394	-0.086
Residents age 0-5	0.523	772	0.484	578	-0.039	0.064	0.544	-0.048
Residents age 6-12	0.902	772	0.846	578	-0.056	0.101	0.579	-0.056
Residents age 13-17	0.522	772	0.597	578	0.074	0.072	0.304	0.093
Residents age 18-24	0.354	772	0.388	578	0.034	0.063	0.594	0.049
Residents age 25-64	0.990	772	1.005	578	0.016	0.086	0.856	0.017
Residents age 65+	0.751	772	0.751	578	0.000	0.097	0.999	0.000
Household size	4.042	772	4.112	578	0.070	0.246	0.775	0.028

Notes: Weighted results; standard errors obtained adjusting for clustering.

Table A.2.2.2:	Selective	attrition	- housing	characteristics
----------------	-----------	-----------	-----------	-----------------

	Comp	arison	Treat	ment	Mean	Diff	p-value	Effect
Variables	Mean	N1	Mean	N2	Diff	SE		Size
Outer walls of cement	0.323	772	0.280	578	-0.043	0.062	0.494	-0.089
Floor made of cement	0.681	772	0.611	578	-0.071	0.058	0.222	-0.148
Exclusive cooking room	0.418	772	0.306	578	-0.111	0.061	0.069	-0.231
Main source of lighting is electricity	0.368	772	0.337	578	-0.030	0.069	0.661	-0.063
Flush or pit toilet	0.308	772	0.362	578	0.053	0.064	0.405	0.108
Number of rooms occupied (log)	1.015	772	1.035	578	0.020	0.041	0.617	0.053

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### Table A.2.2.3: Selective attrition - household NHIS enrolment

	Comp	arison	Treat	ment	Mean	Diff	p-value	Effect
Variables	Mean	N1	Mean	N2	Diff	SE		Size
Has at least one member ever had NHIS insurance	0.699	772	0.689	578	-0.011	0.048	0.821	-0.022
All members ever have NHIS insurance	0.382	772	0.346	578	-0.036	0.053	0.504	-0.074
Has at least one member with valid NHIS insurance	0.500	772	0.434	578	-0.066	0.057	0.248	-0.134
All members with valid NHIS insurance	0.243	772	0.180	578	-0.063	0.052	0.220	-0.156

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### Table A.2.2.4: Selective attrition - household poverty and vulnerability

	Compa	arison	Treat	ment	Mean	Diff	p-value	Effect
Variables	Mean	N1	Mean	N2	Diff	SE		Size
Household real monthly consumption expenditure	49.131	772	45.701	578	-3.430	3.567	0.337	-0.101
per adult equivalent (GH¢) - Total								
Household real monthly consumption expenditure	31.894	772	31.867	560	-0.027	2.539	0.991	-0.001
per adult equivalent (GH¢) - Food								
Household food security score, 0 (good)- 2 (bad)		0	0.625	578	0.000	0.000		0.000
Child food security score, 0-4		0	1.398	382	0.000	0.000		0.000
Child skipped meal in last 12 months due to money		0	0.134	387	0.000	0.000		0.000

Notes: Weighted results; standard errors obtained adjusting for clustering.

	Compa	rison	Treatm	nent	Mean	Diff	p-value	Effect
Variables	Mean	N1	Mean	N2	Diff	SE	-	Size
Number of hh members who work for pay	0.084	772	0.107	578	0.023	0.025	0.365	0.066
Total days provided by casual labour	11.721	772	8.881	578	-2.841	3.792	0.454	-0.096
Crop yield	492.645	568	407.407	313	-85.238	95.651	0.374	-0.031
Own any sheep/goat/chicken	0.432	772	0.431	578	-0.001	0.060	0.988	-0.002
Number of sheep	0.498	772	0.740	578	0.243	0.196	0.217	0.085
Number of goats	1.085	772	1.161	578	0.076	0.250	0.761	0.023
Number of chickens	4.259	772	4.109	578	-0.150	0.937	0.873	-0.012
Own a non-farm enterprise	0.288	772	0.311	578	0.023	0.056	0.684	0.051
Number of hoes owned	1.755	772	1.907	578	0.151	0.272	0.579	0.064
Number of axes owned	0.341	772	0.412	578	0.071	0.077	0.356	0.102
Number of rakes owned	0.016	772	0.069	578	0.053	0.016	0.001	0.205
Number of shovels owned	0.135	772	0.093	578	-0.041	0.042	0.325	-0.090
Number of picks owned	0.113	772	0.092	578	-0.022	0.031	0.489	-0.043
Number of sickles owned	0.156	772	0.073	578	-0.084	0.054	0.122	-0.190
Number of cutlasses owned	1.932	772	1.522	578	-0.409	0.160	0.011	-0.247
Number of trailers owned	0.016	772	0.057	578	0.041	0.025	0.097	0.137

|--|

Notes: Weighted results; standard errors obtained adjusting for clustering.

#### Table A.2.2.6: Selective attrition - household savings and transfers

	Comparison		Treatment		Mean	Diff	p-value	Effect
Variables	Mean	N1	Mean	N2	Diff	SE		Size
Household has savings at formal institution	0.138	772	0.112	578	-0.025	0.033	0.450	-0.079
Household has savings at home	0.302	772	0.133	578	-0.169	0.045	0.000	-0.387
Household received transfer in last 12 months	0.474	772	0.593	578	0.120	0.061	0.050	0.240
Household giving transfer in last 12 months	0.293	772	0.254	578	-0.038	0.046	0.408	-0.085

Notes: All indicators measured in percent at baseline and percentage point change in 2012 and 2016, unless otherwise indicated. Weighted results; standard errors obtained adjusting for clustering. \* indicates that the change between that year and baseline statistically significant at 10 per cent; \*\* indicates change is statistically significant at 1 or 5 per cent.

## Appendix A.3 Changes in indicators in treatment (LEAP) households

	Baseline (2010) Mean	Change at Midline (2012)	Change at Endline (2016)							
Household real monthly consumption expenditure per adult equivalent										
Household real monthly consumption expenditure per adult equivalent (GH¢) - Total	112.202	41.580**	75.147**							
Household real monthly consumption expenditure per adult equivalent (GH¢) - Food	66.525	25.956**	66.965**							
Household real monthly consumption expenditure per adult equivalent (GH¢) - Non-food	45.677	15.624**	8.182**							
Housing characteristics										
Main source of lighting is electricity	0.327	0.165**	0.328**							
Outer walls of cement	0.296	-0.021	0.187**							
Floor made of cement	0.611	0.061	0.263**							
Improved source of drinking water	0.773	0.029	0.034							
Flush or pit toilet	0.384	0.002	-0.072							
Subjective well-being										
Happy with life	0.387	0.335**	0.187**							

#### Table A.3.1: Change in consumption indicators in treatment (LEAP) households

Notes: All indicators measured in percent at baseline and percentage point change in 2012 and 2016, unless otherwise indicated. \* indicates that the change between that year and baseline statistically significant at 10 percent or better. \* indicates change is statistically significant at 10 per cent; \*\* indicates change is statistically significant at 1 or 5 per cent.

	Baseline (2010) Change at Mid		Change at Endline
	Mean	(2012)	(2016)
Labour productivity			
Household had any members work for pay	0.085	0.040**	0.041**
Household hired any outside labour for agricultural activities	0.391	0.032	-0.012
Household engaged in agricultural activities last 12 months	0.514	-0.014	-0.006
Household used any fertilizer	0.138	0.095**	0.139**
Household used any seeds	0.399	0.066**	0.109**
Household used any improved seeds	0.019	0.0289**	0.019
Value of seeds	65.635	49.605**	292.619**
Value of seeds (deflated)	126.482	69.997**	271.903**
Total days provided by casual labour	7.909	-1.767	-2.338
Total days provided by family labour	26.965	9.267**	-3.549
Days of labour on farm (hired and family labour)	34.874	7.500	-5.887
Crop yield	198.685	209.072**	460.503**
Crop yield (deflated)	382.878	312.332**	350.152**
Productive assets			
Any agricultural asset ownership	0.745	0.064**	0.053**
Any hoes	0.579	0.099**	0.030
Any axes	0.274	-0.023	-0.024

	Baseline (2010)	Change at Midline	Change at Endline	
	Mean	(2012)	(2016)	
Any rakes	0.054	-0.025**	-0.001	
Any shovels	0.062	0.029**	0.029**	
Any picks	0.066	0.011	0.004	
Any sickles	0.036	-0.016*	0.006	
Any cutlasses	0.674	0.068**	0.085**	
Any spraying machines	0.037	0.068**	0.128**	
Number of hoes	1.733	-0.083	0.161	
Number of axes	0.387	-0.047	-0.063	
Number of rakes	0.062	-0.030**	-0.005	
Number of shovels	0.084	0.037*	0.037**	
Number of picks	0.081	0.014	0.010	
Number of sickles	0.064	-0.034**	0.008	
Number of cutlasses	1.427	0.124	0.066	
Number of spraying machines	0.043	0.095**	0.182**	
Savings and transfers				
Household has any savings	0.204	0.198**	0.106**	
Household received transfer in last 12 months	0.624	0.088**	-0.160**	
Household gave transfer in last 12 months	0.235	0.144**	0.112**	
Household is owed money or goods	0.090	-0.016	0.022	
Principal amount of credit – Nominal	12.424	1.352	40.103**	
Payments on credit in last 12 months - Nominal	13.625	18.694	40.581**	
Principal amount of credit – Real	23.942	-0.454	34.469**	
Payments on credit in last 12 months - Real	26.255	28.847	34.022	
Household has debt	0.239	-0.007	0.111**	
Principal amount of debts - Nominal	43.892	42.620**	169.025**	
Payments on debt in last 12 months - Nominal	27.226	112.934**	138.063**	
Current outstanding debt – Nominal	40.067	36.08**	145.539**	
Principal amount of debts - Real	84.583	62.917**	152.185**	
Payments on debt in last 12 months - Real	52.467	186.501**	131.338**	
Current outstanding debt - Real	77.211	52.617**	129.187**	
Household has any savings	0.204	0.198**	0.106**	
Value of savings – Nominal	28.415	58.603**	54.863**	
Value of savings – Real	54.757	93.606**	37.849*	
Household received transfer in last 12 months	0.624	0.088**	-0.160**	
Value of transfer received in last 12 months	142.295	134.229**	216.403**	
Transfers received amount – Real	274.212	197.253**	124.667**	
Household giving transfer in last 12 months	0.235	0.144**	0.112**	
Value or transfer sent in last 12 months	48.858	32.239**	159.18**	
Transfers sent amount – Real	94.153	44.116*	137.19**	

 Table A.3.2: Change in productive activities and financial assets indicators in treatment households (continued)

	Baseline (2010) Mean	Change at Midline (2012)	Change at Endline (2016)	
Livestock and home enterprises				
Own any sheep/goat/chicken	0.407	0.043	0.131**	
Own any chicken	0.274	0.028	0.138**	
Own any sheep	0.122	-0.009	0.014	
Own any goats	0.195	0.019	0.066**	
Number of chickens	3.850	0.027	-0.151	
Number of sheep	0.689	-0.147	0.001	
Number of goats	1.065	0.090	0.345*	
Owns a non-farm enterprise	0.296	0.001	0.072**	

# Table A.3.2: Change in productive activities and financial assets indicators in treatment households (continued)

Notes: All indicators measured in percent at baseline and percentage point change in 2012 and 2016, unless otherwise indicated. \* indicates that the change between that year and baseline statistically significant at 10 per cent; \*\* indicates change is statistically significant at 1 or 5 per cent.

	Baseline (2010) Mean	Change at Midline (2012)	Change at Endline (2016)	
All children, 5 - 17 years				
Currently enrolled in school	0.878	0.036**	-0.005	
Correct grade for age	0.345	-0.025	-0.046	
Real monthly individual education expenditure	14.399	3.275**	2.022	
Boys, 5 - 17 years				
Currently enrolled in school	0.889	0.041**	-0.013	
Correct grade for age	0.358	-0.039	-0.060*	
Real monthly individual education expenditure	14.448	3.317*	2.118	
Girls, 5 - 17 years				
Currently enrolled in school	0.865	0.031	0.005	
Correct grade for age	0.331 -0.008		-0.029	
Real monthly individual education expenditure	14.347	3.228**	1.931	
All children, 5 - 13 years				
Currently enrolled in school	0.897	0.040**	0.027	
Correct grade for age	0.444	-0.030	-0.048	
Real monthly individual education expenditure	13.041	2.115	1.147	
Boys, 5 - 13 years				
Currently enrolled in school	0.915	0.028	0.012	
Correct grade for age	0.468	-0.055	-0.081*	
Real monthly individual education expenditure	12.882	2.410	1.025	
Girls, 5 - 13 years				
Currently enrolled in school	0.879	0.052**	0.043	
Correct grade for age	0.418	-0.002	-0.013	
Real monthly individual education expenditure	13.206	1.796	1.251	

#### Table A.3.3: Change in education indicators for children in treatment (LEAP) households

	Baseline (2010)	Change at Midline	Change at Endline		
	Mean	(2012)	(2016)		
All children, 13 - 17 years					
Currently enrolled in school	0.825	0.054**	-0.005		
Correct grade for age	0.112	-0.033	-0.028		
Real monthly individual education expenditure	16.030	7.039**	4.277*		
Boys, 13 - 17 years					
Currently enrolled in school	0.833	0.085**	-0.007		
Correct grade for age	0.120	-0.050*	-0.013		
Real monthly individual education expenditure	16.179	7.007**	4.297		
Girls, 13 - 17 years					
Currently enrolled in school	0.816	0.027	-0.002		
Correct grade for age	0.103	-0.014	-0.043		
Real monthly individual education expenditure	15.854	7.102**	4.279*		

# Table A.3.3: Change in education indicators for children in treatment (LEAP) households (continued)

Notes: All indicators measured in percent at baseline and percentage point change in 2012 and 2016, unless otherwise indicated. \* indicates that the change between that year and baseline statistically significant at 10 per cent; \*\* indicates change is statistically significant at 1 or 5 per cent.

Table A.3.4:	Change in	adult health	indicators in	n treatment (	(LEAP)	households
					· /	

	Baseline (2010)	Change at	Change at
	Mean	Midline (2012)	Endline (2016)
Household NHIS enrolment			
HH has at least one member ever NHIS insurance	0.725	0.193**	0.230**
HH with all members ever NHIS insurance	0.411	0.211**	0.255**
HH has at least one member with valid NHIS insurance	0.416	0.217**	0.352**
HH has all members with valid NHIS insurance	0.183	0.112**	0.116**
Individual NHIS current enrolment - all adults (age 18 & a	above)		
Individual enrolment in NHIS	0.552	0.227**	0.280**
Has valid NHIS insurance for current year	0.281	0.203**	0.239**
Number of times used NHIS card in last 12 months	2.8	-0.044	-0.643*
Individual NHIS current enrolment - by age (adults)			
Adults aged 18-54			
Individual ever enrolled in NHIS	0.442	0.273**	0.349**
Has valid NHIS insurance for current year	0.194	0.245**	0.264**
Number of times used NHIS card in last 12 months	2.037	-0.291	-0.309
Adults aged 55 or more			
Individual ever enrolled in NHIS	0.667	0.176**	0.225**
Has valid NHIS insurance for current year	0.373	0.160**	0.231**
Number of times used NHIS card in last 12 months	3.231	0.526	-0.579
Adult self-reported health status			
Self-assessed healthy - Adults aged 18 or higher	0.729	0.104**	-0.006
Can easily carry a heavy load - Adults aged 18 or higher	0.550	0.086**	0.050**
Self-assessed healthy - Adults aged 18-54	0.854	0.096**	0.057**
Can easily carry a heavy load - Adults aged 18-54	0.707	0.237**	0.171**

	Baseline (2010)	Change at	Change at
	Mean	Midline (2012)	Endline (2016)
Self-assessed healthy - Adults aged 55 or older	0.602	0.089**	-0.152**
Can easily carry a heavy load - Adults aged 55 or older	0.401	-0.141**	-0.208**
Self-assessed healthy - Adult females	0.694	0.128**	-0.001
Can easily carry a heavy load - Adult females	0.521	0.079**	0.030
Self-assessed healthy - Adult males	0.788	0.065**	-0.013
Can easily carry a heavy load - Adult males	0.598	0.100**	0.085**
Self-assessed healthy - Adults in 50% poorest households	0.759	0.061**	-0.022
Can easily carry a heavy load - Adults in 50% poorest households	0.585	0.079**	0.049
Self-assessed healthy - Adults in 50% less poor households	0.693	0.158**	0.016
Can easily carry a heavy load - Adults in less poor households	0.507	0.095**	0.056**
Adult morbidity and service use			
Any illness or injury in past four weeks	0.298	-0.055**	-0.025
Sought care if ill or sick	0.467	0.159**	0.199**
Adult hospitalization			
Hospitalized in last 12 months - All adults	0.051	-0.006	0.018*
Hospitalized in last 12 months - Adults 18-54 years	0.031	-0.011	0.017
Hospitalized in last 12 months - Adults 55+ years	0.073	0.003	0.025
Hospitalized in last 12 months - Female adults	0.051	0.003	0.032**
Hospitalized in last 12 months - Male adults	0.05	-0.02*	-0.006
Adult expenditures in health (deflated)			
Health expenditures in last 4 weeks - All adults	5.86	5.81**	5.86**
Health expenditures in last 4 weeks - Adults 18-54 years	4.76	-0.004	1.67
Health expenditures in last 4 weeks - Adults 55+ years	7.06	13.10**	12.41**
Health expenditures in last 4 weeks - Female adults	5.91	8.01**	6.05**
Health expenditures in last 4 weeks - Male adults	5.78	2.07	5.53**

#### Table A.3.4: Change in adult health indicators in treatment (LEAP) households (continued)

Notes: All indicators measured in percent at baseline and percentage point change in 2012 and 2016, unless otherwise indicated. \* indicates that the change between that year and baseline statistically significant at 10 per cent; \*\* indicates change is statistically significant at 1 or 5 per cent.

	Baseline (2010) Mean	Change at Midline (2012)	Change at Endline (2016)
All children, 0 - 17 years			
Ever enrolled in NHIS	0.514	0.215**	0.302**
Valid NHIS insurance for current year	0.234	0.255**	0.339**
Sick/injured last 4 weeks	0.097	0.007	0.068**
Sought curative care if sick/injured	0.605	0.021	0.149**
Sought preventive health services	0.006	0.004	-0.001
Real monthly health expenditures	2.007	-0.175	1.504*
All children, 0 - 5 years			
Ever enrolled in NHIS	0.503	0.199**	0.225**
Valid NHIS insurance for current year	0.251	0.281**	0.353**
Sick/injured last 4 weeks	0.137	0.075*	0.097**
Sought curative care if sick/injured	0.666	0.079	0.089
Sought preventive health services	0.014	0.014	-0.014
Real monthly health expenditures	2.454	1.859*	2.250**
All children, 6 - 17 years			
Ever enrolled in NHIS	0.518	0.219**	0.323**
Valid NHIS insurance for current year	0.228	0.248**	0.335**
Sick/injured last 4 weeks	0.083	-0.011	0.061**
Sought curative care if sick/injured	0.572	-0.049	0.183*
Sought preventive health services	0.003	0.002	0.003
Real monthly health expenditures	1.858	-0.751	1.306
Boys, 0 - 17 years			
Ever enrolled in NHIS	0.518	0.219**	0.323**
Valid NHIS insurance for current year	0.228	0.248**	0.335**
Sick/injured last 4 weeks	0.083	-0.011	0.061**
Sought curative care if sick/injured	0.572	-0.049	0.183*
Sought preventive health services	0.003	0.002	0.003
Real monthly health expenditures	1.858	-0.751	1.306
Girls, 0 - 17 years			
Ever enrolled in NHIS	0.518	0.219**	0.323**
Valid NHIS insurance for current year	0.228	0.248**	0.335**
Sick/injured last 4 weeks	0.083	-0.011	0.061**
Sought curative care if sick/injured	0.572	-0.049	0.183*
Sought preventive health services	0.003	0.002	0.003
Real monthly health expenditures	1.858	-0.751	1.306

Notes: \* 10% significance \*\* 5% significance.

## Appendix A.4 Impacts on consumption and well-being: sub-group and ATT results

#### A.4.1 Sub-group results

Table A.4.1.1: The im	pact of LEAP on h	ousing characteristics.	by sex of the head

Female-headed households					Male-headed households							
Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
Main source of	0.001	0.004	-0.003	0.312	0.635	0.704	0.116	0.219***	-0.103	0.349	0.684	0.604
lighting is	(0.02)	(0.07)	(0.05)				(1.44)	(3.25)	(1.36)			
electricity												
Outer walls of	0.027	0.022	0.005	0.305	0.522	0.574	0.078	0.114**	-0.035	0.283	0.426	0.386
cement	(0.48)	(0.35)	(0.08)				(1.17)	(2.15)	(0.61)			
Floor made of	0.130*	-0.082	0.212***	0.633	0.891	0.894	0.109	0.009	0.100	0.580	0.850	0.790
cement	(1.94)	(-0.96)	(3.36)				(1.32)	(0.13)	(1.59)			
Improved source	0.032	-0.005	0.037	0.800	0.850	0.822	0.016	0.008	0.008	0.733	0.743	0.758
of drinking water	(0.66)	(-0.11)	(0.76)				(0.29)	(0.15)	(0.14)			
Flush or pit toilet	-0.335***	-0.259***	-0.076	0.389	0.307	0.503	-0.197**	-0.151*	-0.045	0.376	0.319	0.439
	(-5.58)	(-3.56)	(0.93)				(-2.35)	(-1.75)	(0.53)			
Ν	2,148	2,148		338	338	378	1,902	1,902		240	240	394

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance; \*\*\* 1% significance.

Small households (4 or fewer members)				Large households (5 or more members)								
Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
Main source of	-0.023	0.007	-0.030	0.313	0.620	0.697	0.097	0.143**	-0.047	0.342	0.694	0.632
lighting is	(-0.33)	(0.11)	(0.54)				(1.34)	(2.41)	(0.65)			
electricity												
Outer walls of	0.050	0.079	-0.028	0.299	0.500	0.572	0.061	0.035	0.026	0.294	0.465	0.427
cement												
	(0.80)	(1.29)	(0.44)				(1.06)	(0.72)	(0.48)			
Floor made of	0.089	-0.124	0.213***	0.661	0.884	0.850	0.170***	0.042	0.128**	0.557	0.864	0.859
cement												
	(1.17)	(-1.46)	(3.09)				(2.99)	(0.66)	(2.50)			
Improved source	-0.010	-0.015	0.005	0.800	0.835	0.849	0.098*	0.035	0.063	0.744	0.775	0.741
of drinking water												
	(-0.21)	(-0.37)	(0.10)				(1.74)	(0.49)	(0.87)			
Flush or pit toilet	-0.322***	-0.317***	-0.006	0.398	0.318	0.530	-0.232***	-0.082	-0.149*	0.368	0.305	0.422
	(-5.13)	(-4.37)	(0.07)				(-2.73)	(-1.06)	(1.77)			
N	1,953	1,953		275	275	376	2,097	2,097		303	303	396

Table A.4.1.2: The impact of LEAP on housing characteristics, by household size

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance; \*\*\* 1% significance.

Poorest households				Less poor households								
Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
Main source of	0.015	0.103	-0.088	0.272	0.631	0.641	0.025	0.024	0.002	0.383	0.679	0.693
lighting is electricity	(0.20)	(1.38)	(1.21)				(0.33)	(0.44)	(0.03)			
Outer walls of	-0.024	-0.030	0.006	0.291	0.415	0.384	0.125*	0.146**	-0.021	0.302	0.552	0.630
cement	(-0.48)	(-0.62)	(0.12)				(1.82)	(2.32)	(0.28)			
Floor made of	0.142**	0.004	0.138***	0.537	0.860	0.844	0.122*	-0.117	0.238***	0.688	0.889	0.865
cement	(2.10)	(0.06)	(2.80)				(1.76)	(-1.33)	(3.24)			
Improved source	0.044	0.018	0.025	0.760	0.791	0.762	0.000	-0.010	0.010	0.786	0.822	0.836
of drinking water	(0.85)	(0.31)	(0.44)				(0.00)	(-0.24)	(0.21)			
Flush or pit toilet	-0.236***	-0.158*	-0.077	0.384	0.286	0.475	-0.319***	-0.271***	-0.048	0.384	0.339	0.481
	(-3.18)	(-1.85)	(0.88)				(-4.25)	(-4.19)	(0.49)			
N	1,956	1,956		292	292	360	2,094	2,094		286	286	412

Table A.4.1.3: The impact of LEAP on housing characteristics, by baseline consumption

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance; \*\*\* 1% significance.

#### A.4.2 ATT results

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control
( unuono	Impuer	Impuot		Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Total real AE monthly	-11.825	-21.193***	9.368	111.111	183.255	197.569
expenditure						
	(-1.43)	(-3.01)	(1.05)			
Total real AE monthly	1.566	-3.304	4.870	64.965	130.547	125.713
food expenditure						
	(0.22)	(-0.65)	(0.66)			
Total real AE monthly	-13.390**	-17.888***	4.498	46.147	52.708	71.855
non-food expenditure						
	(-2.45)	(-3.56)	(0.74)			
Ν	3,834	3,834		497	491	777

Notes: t stats in parentheses. \* 10% significance \*\* 5% significance; \*\*\* 1% significance; cluster fixed effects included

#### Table A.4.2.2: ATT Impact of LEAP on housing characteristics

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Main source of lighting electricity	0.004	-0.042	0.047	0.315	0.647	0.693
	(0.09)	(-0.83)	(0.87)			
Outer walls of cement	0.001	-0.049	0.049	0.296	0.482	0.551
	(0.02)	(-0.95)	(0.82)			
Floor made of cement	0.074	-0.037	0.110*	0.599	0.875	0.874
	(1.13)	(-0.73)	(1.69)			
Improved source of drinking water	-0.066	-0.054	-0.012	0.778	0.802	0.784
drinking water	(-0.93)	(-1.02)	(0.26)			
Flush or pit toilet	-0.187***	-0.171***	-0.016	0.384	0.327	0.337
	(-3.00)	(-3.37)	(0.23)			
Ν	4,050	4,050		518	518	832

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

# Appendix A.5 Impacts on productive activities and financial assets

## A.5.1 Household financial assets - nominal values

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control
	-	-		Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household is owed money	-0.005	-0.013	0.008	0.090	0.112	0.122
or goods	(-0.16)	(-0.43)	(0.27)			
N	4,050	4,050		578	578	772
Principal amount of credit	-6.532	-0.814	-5.719	12.424	52.527	57.233
	(-0.39)	(-0.11)	(0.39)			
Ν	4,050	4,050		578	578	772
Payments on credit in last	-34.209	62.193	-96.402	13.625	54.205	104.853
12 months	(-0.40)	(0.72)	(1.46)			
Ν	471	471		56	67	106
Household has debt	-0.032	-0.054	0.021	0.239	0.349	0.336
	(-0.68)	(-1.29)	(0.50)			
Ν	4,050	4,050		578	578	772
Principal amount of debts	-61.449	8.331	-69.780	43.892	212.917	278.998
	(-1.21)	(0.42)	(1.39)			
Ν	4,050	4,050		578	578	772
Payments on debt in last 12	-98.389	132.962	-231.351**	27.226	165.289	206.247
months	(-1.47)	(1.59)	(2.60)			
Ν	1,071	1,071		139	207	225
Current outstanding debt	-63.764	16.030	-79.794	40.067	185.606	257.675
	(-1.27)	(1.02)	(1.56)			
Ν	4,050	4,050		578	578	772
Household has any savings	0.153**	0.111*	0.042	0.204	0.310	0.298
(at home or at institution)	(2.50)	(1.88)	(0.58)			
Ν	4,050	4,050		578	578	772
Value of savings	-100.777***	-4.682	-96.095**	28.415	83.277	191.396
	(-2.86)	(-0.17)	(2.39)			
Ν	4,050	4,050		578	578	772
Household received	-0.258***	0.002	-0.259***	0.624	0.464	0.596
transfer in last 12 months	(-5.62)	(0.03)	(4.66)			
Ν	4,050	4,050		578	578	772
Value of transfer received	-161.916**	-48.723	-113.193	142.295	358.698	548.658
in last 12 months	(-2.06)	(-1.17)	(1.37)			
Ν	4,050	4,050		578	578	772
Household giving transfer	-0.018	-0.041	0.022	0.235	0.347	0.379
in last 12 months	(-0.43)	(-0.77)	(0.36)			
Ν	4,050	4,050		578	578	772
Value of transfer sent in	-50.447	-50.762**	0.314	48.858	208.038	231.251
last 12 months	(-0.98)	(-2.33)	(0.01)			
Ν	4,050	4,050		578	578	772

#### Table A.5.1.1: Household financial assets - nominal values

### A.5.2 Sub-group results

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household had any members work for pay	0.010 (0.25)	-0.009 (-0.25)	0.019 (0.41)	0.090	0.155	0.163
Hh hired any outside labour for agricultural activities	-0.086 (-1.40)	0.020 (0.40)	-0.105** (2.20)	0.422	0.407	0.430
Hh engaged in agricultural activities last 12 months	-0.047 (-0.84)	-0.068* (-1.86)	0.022 (0.47)	0.587	0.569	0.672
Household used any fertilizer	-0.070	-0.080* (-1.67)	0.010	0.153	0.277	0.391
Household used any seeds	0.062	0.026 (0.52)	0.036	0.488	0.569	0.672
Household used any improved seeds	0.048 (0.99)	0.072 (1.54)	-0.024 (0.94)	0.018	0.035	0.047
Value of seeds	202.633***	-0.521	203.154**	62.158	405.349	167.440
Value of seeds (deflated)	244.176*** (2.98)	7.163 (0.13)	237.013** (2.43)	119.782	450.756	167.440
Total days provided by casual labour	-1.402 (-0.51)	-2.642 (-1.04)	1.240 (0.47)	6.625	5.984	5.862
Total days provided by family labour	12.515* (1.71)	-3.230 (-0.28)	15.745 (1.60)	33.795	26.653	38.704
Days of labour on farm (hired and family labour)	11.113 (1.39)	-5.872 (-0.45)	16.985 (1.47)	40.420	32.637	44.566
Value of crop yield	79.055 (0.44)	5.754 (0.06)	73.301 (0.42)	195.761	736.547	813.160
Crop yield (deflated)	186.860 (1.01)	78.679 (0.54)	108.181 (0.53)	377.245	819.056	813.160
N	1,956	1,956	· · ·	292	292	360

Table A.5.2.1: Labour	productivity - po	orest 50% households
-----------------------	-------------------	----------------------

Notes: t stats in parentheses. \* 10% significance \*\* 5% significance; \*\*\* 1% significance; cluster fixed effects included

#### Table A.5.2.2: Labour productivity - less poor 50% households

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household had any members work for pay	-0.046 (-1.32)	0.015 (0.38)	-0.061 (1.51)	0.079	0.096	0.131
Household hired any outside labour for agricultural activities	-0.039 (-0.54)	-0.030 (-0.41)	-0.009 (0.20)	0.361	0.351	0.445
Hh engaged in agricultural activities last 12 months	-0.016 (-0.24)	-0.193** (-2.51)	0.178*** (2.92)	0.439	0.446	0.501
Household used any fertilizer	0.005 (0.08)	-0.137** (-2.49)	0.143** (2.31)	0.122	0.276	0.333
Household used any seeds	0.165** (2.41)	0.046 (0.63)	0.119** (2.16)	0.308	0.446	0.501

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household used any improved	-0.052	0.036	-0.088**	0.021	0.042	0.146
seeds	(-1.35)	(1.52)	(2.39)			
Value of seeds	-172.146	-9.460	-162.685	71.234	297.052	324.489
	(-0.87)	(-0.26)	(0.89)			
Value of seeds (deflated)	-150.186	14.581	-164.766	137.272	330.328	324.489
	(-0.77)	(0.30)	(0.91)			
Total days provided by casual	7.180*	7.831*	-0.651	9.217	5.151	5.343
labour	(1.73)	(1.80)	(0.46)			
Total days provided by family	47.881***	33.372***	14.508**	20.010	20.119	18.396
labour	(4.96)	(3.01)	(2.17)			
Days of labour on farm (hired	55.060***	41.203***	13.857*	29.227	25.270	23.739
and family labour)	(4.45)	(3.06)	(1.92)			
Value of crop yield	228.325	-22.345	250.669*	201.661	580.411	531.765
	(1.30)	(-0.24)	(1.67)			
Crop yield (deflated)	395.781*	12.014	383.766**	388.614	645.429	531.765
•• • • •	(1.91)	(0.08)	(2.50)			
Ν	2,094	2,094		286	286	412

Table A.5.2.2: Labour productivity - less poor 50% households (continued)

Table A.5.2.3: Labour	productivity -	female headed	households
-----------------------	----------------	---------------	------------

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	T Mean	T Mean	C Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household had any members	-0.034	0.024	-0.058*	0.075	0.109	0.160
work for pay	(-0.96)	(0.73)	(1.77)			
Household hired any outside	-0.071	-0.035	-0.036	0.319	0.336	0.382
labour for agricultural activities	(-1.13)	(-0.69)	(0.74)			
Household engaged in agricultural	-0.026	-0.117*	0.091	0.406	0.440	0.538
activities last 12 months	(-0.41)	(-1.96)	(1.54)			
Household used any fertilizer	-0.012	-0.125**	0.114*	0.074	0.235	0.289
	(-0.25)	(-2.47)	(1.89)			
Household used any seeds	0.098	0.032	0.066	0.300	0.440	0.538
	(1.60)	(0.53)	(1.17)			
Household used any improved	0.009	0.032	-0.022	0.010	0.039	0.082
seeds	(0.23)	(0.95)	(0.87)			
Value of seeds	-5.430	15.848	-21.277	30.907	217.219	141.578
	(-0.04)	(0.67)	(0.17)			
Value of seeds (deflated)	19.060	37.443	-18.383	59.561	241.552	141.578
	(0.14)	(1.06)	(0.15)			
Total days provided by casual	5.809**	5.337*	0.472	3.950	4.659	3.642
labour	(2.05)	(1.78)	(0.30)			
Total days provided by family	24.513***	8.851	15.662**	12.762	17.741	21.181
labour	(3.55)	(0.99)	(2.31)			
Days of labour on farm (hired and	30.322***	14.188	16.134**	16.712	22.401	24.823
family labour)	(3.40)	(1.29)	(2.14)			
Value of crop yield	50.186	-44.542	94.728	85.881	346.151	375.367
	(0.46)	(-0.58)	(0.89)			
Crop yield (deflated)	100.296	-32.327	132.623	165.498	384.926	375.367
	(0.89)	(-0.25)	(0.98)			
N	2,148	2,148		338	338	378

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated	Endline Treated	Endline Control
	(1)	(2)	(3)=(1)-(2)	Mean (4)	Mean (5)	Mean (6)
Household had any members work for pay	0.027 (0.69)	-0.023 (-0.53)	0.050 (0.91)	0.100	0.150	0.127
Household hired any outside labour for agricultural activities	-0.059 (-0.86)	-0.007 (-0.11)	-0.051 (0.98)	0.497	0.443	0.528
Household engaged in agricultural activities last 12 months	-0.009 (-0.17)	-0.178*** (-3.28)	0.169*** (3.75)	0.672	0.608	0.673
Household used any fertilizer	-0.063 (-0.78)	-0.145** (-2.48)	0.082 (1.22)	0.232	0.338	0.484
Household used any seeds	0.138**	-0.001	0.139*** (2.82)	0.544	0.608	0.673
Household used any improved seeds	-0.022 (-0.47)	0.074* (1.70)	-0.096** (2.39)	0.033	0.038	0.116
Value of seeds	96.536 (0.74)	24.346 (0.62)	72.190 (0.51)	93.743	508.035	349.080
Value of seeds (deflated)	136.537 (1.06)	41.729 (0.67)	94.807 (0.64)	180.649	564.945	349.080
Total days provided by casual labour	-1.976 (-0.45)	-4.306 (-1.14)	2.330 (0.62)	13.726	6.910	8.808
Total days provided by family labour	43.452*** (3.16)	23.638 (1.32)	19.814 (1.51)	47.826	31.751	41.434
Days of labour on farm (hired and family labour)	41.477*** (2.65)	19.332 (0.98)	22.145 (1.39)	61.551	38.661	50.242
Value of crop yield	266.143 (1.08)	-18.338 (-0.15)	284.482 (1.13)	364.371	1,118.976	1,167.555
Crop yield (deflated)	509.251* (1.86)	52.909 (0.27)	456.343 (1.62)	702.166	1,244.324	1,167.555
N	1.902	1.902		240	240	394

Т	ab	le	A.	5.	2.	4:	L	abour	pro	ducti	ivitv	-	male	hea	ide	d	house	hol	lds
											· · · ·								

#### Table A.5.2.5: Labour productivity - small households

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household had any members work for pay	0.001 (0.03)	0.020 (0.70)	-0.019 (0.54)	0.049	0.096	0.096
Hh hired any outside labour for agricultural activities	-0.131* (-1.93)	-0.061 (-0.98)	-0.070 (1.51)	0.313	0.323	0.402
Hh engaged in agricultural activities last 12 months	-0.069 (-0.88)	-0.180** (-2.60)	0.111* (1.71)	0.401	0.406	0.424
Hh used any fertilizer	-0.028 (-0.51)	-0.071 (-1.65)	0.043 (0.83)	0.075	0.203	0.308
Household used any seeds	0.098 (1.32)	0.004 (0.06)	0.094 (1.56)	0.268	0.406	0.424
Household used any improved seeds	0.018 (0.62)	0.022 (0.91)	-0.003 (0.12)	0.020	0.053	0.045
Value of seeds	-151.220 (-0.79)	-130.043** (-2.48)	-21.177 (0.11)	36.881	265.296	289.414

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mear	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Value of seeds (deflated)	-104.087	-144.806*	40.719	71.071	295.015	289.414
	(-0.56)	(-1.91)	(0.20)			
Total days provided by	4.623	5.839*	-1.216	3.563	4.762	5.047
casual labour	(1.33)	(1.95)	(0.76)			
Total days provided by	28.482***	18.830**	9.653	10.197	16.627	15.779
family labour	(4.46)	(2.48)	(1.61)			
Days of labour on farm	33.105***	24.669***	8.437	13.760	21.389	20.825
(hired and family labour)	(3.71)	(2.89)	(1.27)			
Value of crop yield	-30.712	-35.878	5.166	100.422	380.172	508.351
	(-0.20)	(-0.59)	(0.04)			
Crop yield (deflated)	58.551	-24.978	83.529	193.520	422.759	508.351
• • · · · · · ·	(0.34)	(-0.24)	(0.59)			
N	1,953	1,953		275	275	376

Table A.5.2.5: I	Labour productivit	y - small households /	(continued)
		·/ ··· ··· ··· ··· ··· ··· ··· ··· ···	( · · · · /

Dependent Variable	Endline Impact (1)	Midline Impact (2)	Impact Diff (EL-ML) (3)=(1)-(2)	Baseline Treated Mean (4)	Endline Treated Mean (5)	Endline Control Mean (6)
Household had any members work for pay	-0.054 (-1.00)	-0.006 (-0.17)	-0.048 (0.79)	0.124	0.158	0.203
Household hired any outside labour for agricultural activities	0.031 (0.45)	0.085 (1.60)	-0.054 (0.93)	0.477	0.440	0.475
Household engaged in agricultural activities last 12 months	0.025 (0.53)	-0.066 (-1.54)	0.091** (2.17)	0.637	0.621	0.768
Household used any fertilizer	-0.004 (-0.05)	-0.153** (-2.36)	0.150* (1.80)	0.207	0.357	0.423
Household used any seeds	0.154***	0.088	0.066	0.542	0.621	0.768
Household used any improved seeds	-0.036	0.093	-0.129***	0.019	0.023	0.150
Value of seeds	(-0.49) 178.740*** (2.80)	(1.63) 51.658** (2.32)	(3.27) 127.082** (2.09)	81.228	424.778	197.454
Value of seeds (deflated)	219.719***	88.037** (2.46)	131.681* (1.94)	156.531	472.362	197.454
Total days provided by casual labour	2.881 (0.69)	1.229 (0.26)	1.652 (0.54)	12.670	6.458	6.224
Total days provided by family labour	41.920*** (2.98)	18.100 (1.03)	23.819** (2.10)	45.329	30.851	43.132
Days of labour on farm (hired and family labour)	44.801*** (2.69)	19.329 (0.93)	25.471* (1.94)	57.999	37.309	49.355
Value of crop yield	424.780**	-5.468 (-0.04)	430.248**	306.305	964.775	860.562
Crop yield (deflated)	611.454** (2.53)	82.860 (0.38)	528.595** (2.18)	590.270	1,072.850	860.562
N	2,097	2,097	× /	303	303	396

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Any agricultural asset	0.034	0.010	0.024	0.793	0.808	0.886
ownership	(1.10)	(0.22)	(0.56)			
Any specific asset owners	hip:					
Hoes	-0.153**	-0.009	-0.144**	0.625	0.617	0.735
	(-2.55)	(-0.18)	(2.39)			
Axes	-0.054	-0.103	0.049	0.317	0.264	0.347
	(-0.80)	(-1.35)	(0.73)			
Rakes	0.010	-0.109***	0.119**	0.032	0.059	0.032
	(0.51)	(-2.63)	(2.53)			
Shovels	-0.081**	-0.037	-0.044	0.045	0.080	0.175
	(-2.04)	(-1.16)	(1.18)			
Picks	-0.097***	-0.014	-0.083**	0.058	0.060	0.134
	(-2.85)	(-0.56)	(2.56)	0.000	0.000	01101
Sickles	-0.008	0.088**	-0.097***	0.032	0.033	0.128
	(-0.14)	(2.07)	(2,79)	0.002	0.000	01120
Cutlasses	0.046	0.013	0.033	0.725	0 795	0.872
Cuttusses	(1.18)	(0.31)	(0.71)	0.725	0.775	0.072
Spraving machines	_0.092**	-0.013	-0.079*	0.043	0.174	0.280
Spraying machines	(2.28)	(0.34)	(1.60)	0.045	0.174	0.200
	(-2.20)	(-0.34)	(1.0))			
Number of specific assets	owned:					
Hoes	-0.368*	-0.147	-0.220	1.978	1.871	1.980
	(-1.81)	(-0.67)	(0.79)			
Axes	-0.120	-0.345**	0.225	0.471	0.344	0.429
	(-1.46)	(-2.36)	(1.55)			
Rakes	0.006	-0.149**	0.155**	0.042	0.062	0.033
	(0.29)	(-2.60)	(2.59)			
Shovels	-0.133	-0.025	-0.108	0.054	0.111	0.297
	(-1.60)	(-0.59)	(1.49)			
Picks	-0.129**	-0.032	-0.097*	0.073	0.084	0.172
	(-2.43)	(-1.01)	(1.72)			
Sickles	0.026	0.159**	-0.133***	0.058	0.041	0.200
	(0.29)	(2.09)	(3.01)			
Cutlasses	-0.359**	-0.319	-0.040	1.631	1.645	2.159
	(-2.53)	(-1.65)	(0.21)			
Spraving machines	-0.065	-0.030	-0.035	0.046	0.242	0.336
~	(-1.17)	(-0.52)	(0.55)	0.0.0		0.000
Ν	1,956	1,956	(	292	292	360

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated	Endline Treated	Endline Control
				Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Any agricultural	0.196***	0.068**	0.128**	0.697	0.787	0.821
asset ownership	(3.79)	(1.99)	(2.54)			
Any specific asset (	wnershin:					
Hoes	0.087	0.033	0.054	0.531	0.600	0.557
	(1.62)	(0.63)	(1.04)			
Axes	0.006	0.034	-0.028	0.231	0.237	0.179
	(0.13)	(0.67)	(0.63)			
Rakes	-0.087***	-0.059***	-0.028	0.077	0.047	0.064
	(-3.30)	(-2.63)	(1.05)			
Shovels	-0.049*	-0.047	-0.003	0.079	0.101	0.165
	(-1.68)	(-1.41)	(0.08)			
Picks	0.001	0.017	-0.016	0.073	0.080	0.142
	(0.03)	(0.41)	(0.53)			
Sickles	-0.010	-0.040	0.030	0.040	0.050	0.068
	(-0.30)	(-1.43)	(1.06)			
Cutlasses	0.225***	0.135***	0.089	0.623	0.724	0.774
	(4.23)	(3.54)	(1.59)			
Spraying	0.013	0.010	0.003	0.031	0.157	0.190
machines	(0.30)	(0.30)	(0.06)			
Number of specific	assets owned:					
Hoes	0.161	-0.032	0.193	1.484	1.918	1.375
	(0.48)	(-0.16)	(0.61)			
Axes	-0.030	0.002	-0.032	0.301	0.303	0.263
	(-0.48)	(0.02)	(0.42)			
Rakes	-0.114***	-0.088***	-0.026	0.083	0.053	0.080
	(-3.60)	(-2.96)	(0.75)			
Shovels	-0.117*	-0.083	-0.034	0.115	0.132	0.285
	(-1.97)	(-1.60)	(0.46)			
Picks	0.004	0.037	-0.033	0.089	0.099	0.177
	(0.09)	(0.75)	(0.75)			
Sickles	-0.018	-0.078*	0.060	0.071	0.106	0.097
	(-0.33)	(-1.68)	(1.13)			
Cutlasses	0.104	0.080	0.024	1.218	1.337	1.617
	(0.53)	(0.54)	(0.12)			
Spraying	-0.094	0.027	-0.120	0.040	0.208	0.334
machines	(-1.08)	(0.65)	(1.31)			
N	2,094	2,094	× /	286	286	412

Table A.5.2.8: Productive assets - less poor 50% households

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	_
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	
Any agricultural	0.160***	0.067	0.093*	0.682	0.758	0.802	_
asset ownership	(3.54)	(1.53)	(1.84)				
Any specific asset of	ownership:						_
Hoes	-0.048	0.051	-0.099	0.482	0.533	0.606	
	(-0.74)	(1.05)	(1.61)				
		0.012	-0.013	0.025	0.229	0.222	0.242
Axes							
	(0.22)	(-0.23)	(0.51)				
Rakes	-0.038**	-0.101***	0.063	0.044	0.036	0.038	
	(-2.47)	(-2.72)	(1.61)				
Shovels	-0.025	-0.038	0.013	0.028	0.055	0.129	
	(-0.92)	(-1.51)	(0.46)				
Picks	-0.001	0.041	-0.042*	0.023	0.036	0.091	
	(-0.02)	(1.35)	(1.73)				
Sickles	-0.003	0.015	-0.018	0.014	0.019	0.051	
	(-0.09)	(0.48)	(0.91)				
Cutlasses	0.198***	0.110***	0.088*	0.594	0.708	0.762	
	(3.94)	(2.80)	(1.69)				
Spraying	-0.015	-0.022	0.007	0.015	0.091	0.123	
machines							
	(-0.40)	(-0.87)	(0.16)				
Cutlasses							
Number of specific	assets owned:						
Hoes	0.107	-0.268	0.376	1.095	1.484	1.288	
	(0.29)	(-1.50)	(0.92)				
Avec			0.002	-0.165*	0.167*	0.288	0.272
плез		( 1.50)	(1.00)				
D 1	(0.03)	(-1.73)	(1.89)	0.050	0.020	0.020	
Rakes	-0.059***	-0.119***	0.060	0.058	0.038	0.039	
<b>C1</b> 1	(-2.95)	(-3.12)	(1.51)	0.000	0.067	0.001	
Shovels	-0.052	-0.055	0.003	0.036	0.067	0.201	
D' 1	(-1.41)	(-1.28)	(0.06)	0.000	0.040	0.110	
Picks	-0.000	0.049	-0.050	0.026	0.048	0.112	
a	(-0.01)	(1.39)	(1.40)	0.015	0.00	0.050	
Sickles	-0.023	0.014	-0.038	0.017	0.026	0.073	
~ .	(-0.47)	(0.44)	(1.04)				
Cutlasses	0.001	-0.253	0.254	0.996	1.232	1.603	
a .	(0.00)	(-1.63)	(1.57)	0.010	0.45	0.1=1	
Spraying	-0.042	-0.029	-0.012	0.018	0.126	0.176	
machines		(0.00)					
<b>C</b> 1	(-0.78)	(-0.86)	(0.24)				
Cutlasses							_
Ν	2,148	2,148		338	338	378	

Table A.5.2.9: Productive assets - female headed households

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Any agricultural	0.019	0.004	0.015	0.838	0.856	0.939
asset ownership	(0.56)	(0.10)	(0.30)			
Any specific asset	ownership:					
Hoes	-0.044	-0.069	0.025	0.721	0.720	0.719
	(-0.87)	(-1.08)	(0.52)			
Axes	-0.086*	-0.061	-0.025	0.342	0.292	0.305
	(-1.67)	(-0.89)	(0.37)			
Rakes	-0.047	-0.088***	0.041	0.068	0.078	0.064
	(-1.20)	(-2.95)	(1.18)			
Shovels	-0.117**	-0.064	-0.053	0.111	0.143	0.238
	(-2.41)	(-1.35)	(1.02)			
Picks	-0.114**	-0.067*	-0.047	0.128	0.119	0.214
	(-2.48)	(-1.80)	(0.95)			
Sickles	0.001	0.060	-0.059	0.068	0.074	0.177
	(0.02)	(1.37)	(1.14)			
Cutlasses	0.021	0.017	0.004	0.793	0.835	0.927
	(0.50)	(0.35)	(0.07)			
Spraying	-0.070	0.013	-0.082	0.069	0.274	0.421
machines	(-1.33)	(0.23)	(1.33)			
Number of specifi	c assets owned	1:				
Hoes	-0.083	0.111	-0.194	2.670	2.495	2.337
	(-0.31)	(0.38)	(0.74)			
Axes	-0.190**	-0.200	0.010	0.532	0.400	0.424
	(-2.42)	(-1.42)	(0.07)			
Rakes	-0.058	-0.155***	0.097	0.068	0.086	0.084
	(-1.14)	(-2.62)	(1.47)			
Shovels	-0.228**	-0.099	-0.129	0.156	0.201	0.437
	(-2.20)	(-1.52)	(1.27)			
Picks	-0.129*	-0.087	-0.043	0.163	0.156	0.276
	(-1.81)	(-1.53)	(0.54)			
Sickles	0.103	0.134	-0.031	0.135	0.143	0.275
	(1.10)	(1.43)	(0.39)			
Cutlasses	-0.319	-0.042	-0.276	2.060	1.874	2.374
	(-1.33)	(-0.20)	(1.32)			
Spraying	-0.125	0.007	-0.131	0.081	0.372	0.593
machines	(-1.31)	(0.09)	(1.20)			
N	1,902	1,902		240	240	394

Table A.5.2.10: Productive assets - male headed households

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated	Endline Treated	Endline Control
		L.		Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Any agricultural	0.149***	0.063	0.086	0.632	0.718	0.793
asset ownership	(2.61)	(1.44)	(1.41)			
Any specific asset (	ownersnip:	0 127**	0.140**	0.440	0.524	0 572
Hoes	-0.022	0.127	$-0.149^{**}$	0.449	0.524	0.575
A	(-0.54)	(2.20)	(2.38)	0.104	0.200	0.150
Axes	0.004	-0.054	0.058	0.184	0.208	0.156
D .1	(0.10)	(-1.20)	(1.24)	0.022	0.046	0.022
Rakes	-0.010	-0.082**	$0.072^{*}$	0.032	0.046	0.022
C1 1	(-0.49)	(-2.30)	(1.76)	0.020	0.000	0.127
Shovels	-0.020	-0.070**	0.050	0.038	0.089	0.137
	(-0.59)	(-2.26)	(1.61)			
Picks	0.006	0.000	0.006	0.033	0.064	0.103
	(0.17)	(0.00)	(0.23)			
Sickles	-0.029	-0.016	-0.013	0.021	0.038	0.086
	(-0.87)	(-0.70)	(0.44)			
Cutlasses	0.143**	0.076	0.067	0.575	0.668	0.756
	(2.06)	(1.58)	(1.01)			
Spraying	-0.018	0.021	-0.039	0.012	0.108	0.186
machines	(-0.51)	(0.65)	(1.13)			
Number of specific assets owned:						
Hoes	0 070	0.234*	-0.165	0 984	1 175	1 211
11005	(0.42)	(1.71)	(0.96)	0.901	1.175	1.211
Axes	-0.016	-0 181***	0.165*	0.236	0.257	0.187
I IACO	(-0.27)	(-2.62)	(1.89)	0.230	0.237	0.107
Rakes	-0.013	-0.115**	0 102**	0.035	0.049	0.023
Rakes	(-0.59)	(-2, 53)	(2.10)	0.055	0.047	0.025
Shovels	0.031	0.000**	0.068	0.050	0.116	0.252
5110 VC15	(0.43)	(2.08)	(1 01)	0.050	0.110	0.232
Dicks	(-0.43)	0.010	(1.01)	0.030	0.070	0.144
I ICK5	(0.41)	(0.23)	(0.10)	0.039	0.070	0.144
Sieldes	(-0.41)	(-0.23)	(0.19)	0.020	0.062	0.124
SICKIES	-0.030	(0.45)	(0.012)	0.039	0.002	0.134
Cutlagaa	(-0.00)	(-0.43)	(0.27)	0.062	1 165	1 520
Cuttasses	-0.033	$-0.227^{\circ}$	0.1/4	0.903	1.100	1.330
C	(-0.38)	(-1.84)	(1.03)	0.010	0 1 4 2	0.072
Spraying	-0.055	0.023	-0.0//	0.019	0.143	0.273
macnines	(-0.90)	(0.45)	(1.27)		255	25.6
N	1,953	1,953		275	275	376

 Table A.5.2.11: Productive assets - small households
International (1)       (2)       (3)=(1)-(2)       (4)       (5)       (6)         Any agricultural       0.071**       0.018       0.053       0.868       0.885       0.922         asset ownership       (2.17)       (0.48)       (1.40)       0.721       0.702       0.732
Any agricultural         0.071**         0.018         0.053         0.868         0.885         0.922           asset ownership         (2.17)         (0.48)         (1.40)         0.702         0.732           Any specific asset ownership:         Hoes         -0.079         -0.116**         0.037         0.721         0.702         0.732
asset ownership(2.17)(0.48)(1.40)Any specific asset ownership: Hoes-0.079-0.116**0.0370.7210.7020.732
Any specific asset ownership:         0.0116**         0.037         0.721         0.702         0.732
Hoes -0.079 -0.116** 0.037 0.721 0.702 0.732
(-1.42) (-2.56) (0.70)
Axes -0.042 0.042 -0.084 0.374 0.297 0.385
(-0.60) (0.51) (1.39)
Rakes -0.088*** -0.085*** -0.003 0.078 0.060 0.075
(-2.63) (-3.67) (0.09)
Shovels -0.096** 0.004 -0.100* 0.088 0.093 0.206
(-2.08) (0.10) (1.96)
Picks -0.114** 0.006 -0.120** 0.102 0.077 0.176
(-2.29) $(0.18)$ $(2.53)$
Sickles 0.012 0.070 -0.058* 0.052 0.046 0.112
(0.20) $(1.25)$ $(1.79)$
Cutlasses 0.114*** 0.064* 0.050 0.783 0.859 0.899
(3.22) $(1.82)$ $(1.34)$
Spraving -0.067 -0.028 -0.039 0.064 0.228 0.292
machines (-1.36) (-0.63) (0.59)
Number of specific assets owned:
Hoes -0.194 -0.342 0.148 2.553 2.681 2.205
(-0.45) $(-1.00)$ $(0.29)$
Axes $-0.138$ $-0.043$ $-0.095$ $0.552$ $0.396$ $0.524$
(-1.48) $(-0.31)$ $(0.74)$
$R_{akes} = -0.119^{***} = -0.109^{***} = -0.009 = -0.091 = -0.067 = 0.091$
(-2.83) $(-4.15)$ $(0.26)$ $(0.001 - 0.007 - 0.007)$
Shovels $-0.181**$ $0.010$ $-0.191**$ $0.122$ $0.127$ $0.333$
(-2, 32) $(0, 18)$ $(2, 27)$ $(0, 18)$ $(2, 27)$
Picks $-0.103$ $0.017$ $-0.120*$ $0.127$ $0.116$ $0.207$
(-1.51) $(0.37)$ $(1.75)$
Sickles $0.036$ $0.103$ $-0.067$ $0.092$ $0.085$ $0.167$
(0.37) $(1.08)$ $(1.26)$
Cutlasses $-0.211$ $0.031$ $-0.242$ $1.935$ $1.851$ $2.296$
(-0.98) (0.11) (1.01)
Spraving $-0.103$ $-0.016$ $-0.087$ $0.070$ $0.315$ $0.403$
machines $(-1.40)$ $(-0.27)$ $(1.02)$
$\frac{N}{2007} = \frac{2007}{2007} =$

 Table A.5.2.12: Productive assets - large households

Table A.5.2.13	: Savings	and	transfers	by	sub-group
----------------	-----------	-----	-----------	----	-----------

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Poorest 50% households						
Household has any savings	0.178**	0.213**	-0.036	0.156	0.270	0.299
(at home or at institution)	(2.39)	(2.59)	(0.39)			
Household received transfer	-0.287***	-0.081	-0.206***	0.589	0.421	0.520
in last 12 months	(-5.36)	(-1.43)	(2.85)			
Household giving transfer in	-0.036	-0.130*	0.094	0.231	0.297	0.341
last 12 months	(-0.74)	(-1.91)	(1.25)			
N	1,956	1,956		292	292	360
Less poor 50% households						
Household has any savings	0.134*	0.004	0.130*	0.253	0.350	0.297
(at home or at institution)	(1.85)	(0.06)	(1.79)			
Household received transfer	-0.206***	0.052	-0.257***	0.660	0.507	0.677
in last 12 months	(-2.98)	(0.93)	(3.76)			
Household giving transfer in	-0.008	0.055	-0.064	0.239	0.398	0.420
last 12 months	(-0.13)	(1.15)	(0.91)			
N	2,094	2,094		286	286	412
Famala haadad hausahalds						
Household has any savings	0 178**	0.070	0 108	0.178	0 322	0.255
(at home or at institution)	(2 33)	(1.05)	(1.29)	0.170	0.522	0.233
Household received transfer	-0 232***	-0.001	-0 231***	0.676	0 493	0.671
in last 12 months	(-4.22)	(-0.01)	(3.04)	0.070	0.475	0.071
Household giving transfer in	0.016	0.000	0.016	0 163	0.316	0 358
last 12 months	(0.28)	(0,00)	(0.20)	0.105	0.010	0.000
N	2.148	2.148	(0120)	338	338	378
Mala baadad bawaabalda	2,110	2,110			000	0.10
Male headed households	0.097	0.129	0.041	0.242	0.202	0.269
Household has any savings	(1.20)	(1.52)	-0.041	0.245	0.292	0.368
(at nome of at institution)	(1.20)	(1.32)	(0.31)	0 5 4 7	0.420	0 472
Household received transfer	$-0.315^{***}$	-0.012	$-0.302^{****}$	0.547	0.420	0.475
In fast 12 months	(-3.07)	(-0.17)	(3.11)	0.240	0.202	0.414
lost 12 months	-0.033	-0.117	(0.80)	0.540	0.392	0.414
	(-0.83)	(-1.40)	(0.80)	240	240	204
19	1,902	1,902		240	240	394
Small households						
Household has any savings	0.159**	0.132**	0.027	0.149	0.289	0.313
(at home or at institution)	(2.15)	(2.04)	(0.29)			
Household received transfer	-0.205***	0.042	-0.247***	0.749	0.541	0.708
in last 12 months	(-3.63)	(0.79)	(4.66)			
Household giving transfer in	-0.048	-0.049	0.000	0.143	0.297	0.337
last 12 months	(-0.78)	(-0.81)	(0.01)			
N	1,953	1,953		275	275	376
Large households						
Household has any savings	0.185**	0.139	0.046	0.265	0.333	0.283
(at home or at institution)	(2.52)	(1.58)	(0.49)			
Household received transfer	-0.247***	0.020	-0.267***	0.487	0.379	0.474
in last 12 months	(-4.19)	(0.28)	(3.01)			
Household giving transfer in	0.015	-0.009	0.024	0.335	0.402	0.425
last 12 months	(0.24)	(-0.12)	(0.31)			
N	2,097	2,097		303	303	396

Dependent Variable	Endline	Midline	Impact Diff	Baseline	Endline	Endline
v allable	mpact	mpact	(LL-ML)	Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household is owed money	0.016	0.005	0.011	0.064	0.108	0.112
or goods	(0.35)	(0.12)	(0.29)	0.000	01100	01112
N	1,956	1,956		292	292	360
Credit amount	13.953	-1.441	15.394	8.467	53.784	53.026
	(0.57)	(-0.10)	(0.71)			
Ν	1,956	1,956		292	292	360
Credit paid amount	115.349	591.195**	-475.846*	11.249	67.076	93.145
	(1.00)	(2.06)	(1.78)			
Ν	192	192		20	33	50
Household has debt	-0.033	-0.061	0.029	0.253	0.370	0.343
	(-0.43)	(-1.12)	(0.41)			
Ν	1,956	1,956		292	292	360
Debt amount	-75.026	10.839	-85.865	62.921	222.653	287.553
	(-0.97)	(0.28)	(0.98)			
Ν	1,956	1,956		292	292	360
Debt paid amount	-219.122**	117.572	-336.694**	11.980	186.430	141.327
	(-2.23)	(0.94)	(2.11)			
Ν	515	515		72	110	105
Outstanding debt amount	-106.273	12.413	-118.686	61.325	202.024	303.375
	(-1.32)	(0.43)	(1.35)			
Ν	1,956	1,956		292	292	360
Household has any savings	0.178**	0.213**	-0.036	0.156	0.270	0.299
(at home or at institution)	(2.39)	(2.59)	(0.39)			
N	1,956	1,956		292	292	360
Savings amount	-34.352	49.062	-83.415	32.278	86.224	164.421
	(-0.63)	(0.80)	(1.32)			
Ν	1,956	1,956		292	292	360
Household received transfer	-0.287***	-0.081	-0.206***	0.589	0.421	0.520
in last 12 months	(-5.36)	(-1.43)	(2.85)			
N	1,956	1,956		292	292	360
Transfers received amount	-145.856	-37.767	-108.090	233.257	368.278	500.610
	(-1.25)	(-0.40)	(1.22)			
N	1,956	1,956		292	292	360
Household gave transfer in	-0.036	-0.130*	0.094	0.231	0.297	0.341
last 12 months	(-0.74)	(-1.91)	(1.25)	202	202	2.50
N	1,956	1,956	00.101	292	292	360
I ransfers sent amount	-46.083	-126.189**	80.106	49.276	188.002	225.447
	(-0.74)	(-2.55)	(0.99)			0.40
Ν	1,956	1,956		292	292	360

Table A.5.2.14: Ho	ousehold financial	assets - real value	s - poorest 50% households
--------------------	--------------------	---------------------	----------------------------

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated	Endline Treated	Endline Control
	(1)	(2)	(3)=(1)-(2)	Mean (4)	Mean (5)	Mean (6)
Household is owed money	-0.029	-0.014	-0.015	0.116	0.116	0.132
or goods	(-0.66)	(-0.40)	(0.41)	0.110	0.110	0.152
N	2.094	2.094	(0.11)	286	286	412
Credit amount	-16.848	-3.848	-13.000	39.700	63.122	61.741
	(-0.55)	(-0.17)	(0.62)	0,11,00	001122	0117 11
Ν	2.094	2.094	(0.0-)	286	286	412
Credit paid amount	-221.177	39.978	-261.155	34.673	53.868	115.512
Ī	(-1.34)	(0.32)	(1.66)			
Ν	279	279		36	34	56
Household has debt	-0.015	-0.038	0.023	0.224	0.329	0.329
	(-0.25)	(-0.63)	(0.42)			
Ν	2,094	2,094		286	286	412
Debt amount	-43.091	13.299	-56.390	106.643	251.142	269.833
	(-0.50)	(0.26)	(0.76)			
Ν	2,094	2,094		286	286	412
Debt paid amount	-180.259	260.845	-441.104***	98.933	180.799	278.621
	(-1.35)	(1.45)	(3.34)			
Ν	556	556		67	97	120
Outstanding debt amount	-33.038	31.872	-64.910	93.387	210.850	208.716
	(-0.39)	(0.78)	(0.80)			
Ν	2,094	2,094		286	286	412
Household has any savings	0.134*	0.004	0.130*	0.253	0.350	0.297
(at home or at institution)	(1.85)	(0.06)	(1.79)			
Ν	2,094	2,094		286	286	412
Savings amount	-118.324**	-50.739	-67.584	77.647	99.105	220.295
	(-2.06)	(-0.78)	(0.94)			
Ν	2,094	2,094		286	286	412
Household received transfer	-0.206***	0.052	-0.257***	0.660	0.507	0.677
in last 12 months	(-2.98)	(0.93)	(3.76)			
N	2,094	2,094		286	286	412
Transfers received amount	-28.576	-50.432	21.856	315.917	430.041	600.133
	(-0.28)	(-0.34)	(0.14)			
N	2,094	2,094		286	286	412
Household gave transfer in	-0.008	0.055	-0.064	0.239	0.398	0.420
last 12 months	(-0.13)	(1.15)	(0.91)	•	<b>2</b> 0 4	
N	2,094	2,094	0.754	286	286	412
Transfers sent amount	-17.753	-16.998	-0.756	139.851	275.477	237.470
λ.γ	(-0.19)	(-0.37)	(0.01)	007	007	412
/N	7.094	7.094		286	286	417

Table A.5.2.15: Household financial assets - real values - less poor 50% households

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated	Endline Treated	Endline Control
			()	Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household is owed money	-0.034	-0.063*	0.029	0.094	0.113	0.097
or goods	(-0.95)	(-1.82)	(0.72)			
N	2,148	2,148		338	338	378
Credit amount	-21.582	-23.602	2.019	23.331	44.808	35.851
	(-1.04)	(-1.56)	(0.10)			
Ν	2,148	2,148		338	338	378
Credit paid amount	-132.206	215.463	-347.668***	33.993	19.287	50.405
-	(-0.78)	(1.52)	(2.76)			
Ν	232	232		34	39	48
Household has debt	-0.099	-0.069	-0.030	0.237	0.363	0.398
	(-1.61)	(-1.24)	(0.48)			
Ν	2,148	2,148		338	338	378
Debt amount	-183.374**	22.922	-206.296***	58.309	187.015	358.718
	(-2.30)	(0.49)	(2.65)			
Ν	2,148	2,148		338	338	378
Debt paid amount	5.439	482.887***	-477.448**	42.184	167.690	237.607
-	(0.03)	(2.73)	(2.28)			
Ν	580	580		82	124	114
Outstanding debt amount	-185.225**	33.391	-218.616***	52.274	146.998	331.404
	(-2.28)	(1.01)	(2.62)			
Ν	2,148	2,148		338	338	378
Household has any savings	0.178**	0.070	0.108	0.178	0.322	0.255
(at home or at institution)	(2.33)	(1.05)	(1.29)			
Ν	2,148	2,148		338	338	378
Savings amount	-69.616*	-34.063	-35.553	47.060	81.342	117.472
	(-1.89)	(-0.83)	(0.68)			
Ν	2,148	2,148		338	338	378
Household received	-0.232***	-0.001	-0.231***	0.676	0.493	0.671
transfer in last 12 months	(-4.22)	(-0.01)	(3.04)			
Ν	2,148	2,148		338	338	378
Transfers received amount	11.308	24.445	-13.136	270.001	391.860	523.312
	(0.11)	(0.29)	(0.11)			
Ν	2,148	2,148		338	338	378
Household gave transfer in	0.016	0.000	0.016	0.163	0.316	0.358
last 12 months	(0.28)	(0.00)	(0.20)			
Ν	2,148	2,148		338	338	378
Transfers sent amount	-10.088	-29.405	19.317	73.051	206.826	170.944
	(-0.15)	(-0.67)	(0.27)			
N	2.148	2.148		338	338	378

Table A.5.2.16: Household financial assets - real values - female headed household
--

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated	Endline Treated	Endline Control
v unuole	impuor	Impuer		Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household is owed money	0.040	0.087*	-0.047	0.085	0.111	0.163
or goods	(0.61)	(1.72)	(0.99)			
N	1,902	1,902		240	240	394
Credit amount	36.687	46.171	-9.484	24.840	78.390	91.952
	(0.82)	(1.57)	(0.29)			
Ν	1,902	1,902		240	240	394
Credit paid amount	-193.029*	409.730**	-602.759***	13.661	121.821	157.636
-	(-1.87)	(2.47)	(3.56)			
Ν	239	239		22	28	58
Household has debt	0.116*	-0.027	0.143***	0.241	0.330	0.235
	(1.68)	(-0.41)	(2.79)			
Ν	1,902	1,902		240	240	394
Debt amount	137.798*	-10.848	148.645*	123.175	309.846	149.560
	(1.81)	(-0.23)	(1.73)			
Ν	1,902	1,902		240	240	394
Debt paid amount	34.589	275.084	-240.495	67.294	209.812	119.887
	(0.20)	(1.14)	(0.95)			
Ν	491	491		57	83	111
Outstanding debt amount	112.589	5.786	106.803	113.838	293.643	137.965
-	(1.51)	(0.15)	(1.39)			
Ν	1,902	1,902		240	240	394
Household has any savings	0.087	0.128	-0.041	0.243	0.292	0.368
(at home or at institution)	(1.20)	(1.52)	(0.51)			
Ν	1,902	1,902		240	240	394
Savings amount	-88.205	51.198	-139.403	66.063	109.151	311.423
	(-1.16)	(0.65)	(1.59)			
Ν	1,902	1,902		240	240	394
Household received	-0.315***	-0.012	-0.302***	0.547	0.420	0.473
transfer in last 12 months	(-3.67)	(-0.17)	(3.11)			
Ν	1,902	1,902		240	240	394
Transfers received amount	-328.275**	-160.331	-167.945	280.398	409.190	589.810
	(-2.33)	(-1.59)	(1.32)			
Ν	1,902	1,902		240	240	394
Household gave transfer in	-0.053	-0.117	0.064	0.340	0.392	0.414
last 12 months	(-0.83)	(-1.46)	(0.80)			
Ν	1,902	1,902		240	240	394
Transfers sent amount	-78.339	-142.368**	64.029	125.148	267.353	329.169
	(-1.03)	(-2.05)	(0.62)			
N	1 902	1 902		240	240	394

Table A.5.2.17: Household financial assets - real values - male headed households

Dependent Variable	Endline Impact	Midline	Impact Diff	Baseline Treated	Endline Treated	Endline
v arrable	Impact	Impact	(LL-IVIL)	Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Household is owed money	0.054	0.040	0.014	0.070	0.007	0.151
or goods	(1.20)	(1.18)	(0.36)	0.079	0.097	0.131
N	1 953	1 953	(0.50)	275	275	376
Credit amount	-1 457	-6 741	5 285	21 255	52 498	57 427
	(-0.05)	(-0.40)	(0.19)	21.255	52.470	57.427
Ν	1 953	1 953	(0.1))	275	275	376
Credit paid amount	-228.109	378.363*	-606.473**	37.104	80.105	66.757
crean pula amount	(-1.31)	(1.79)	(2.52)	57.101	001102	00.727
Ν	220	220	(2.52)	24	27	53
Household has debt	-0.104*	-0.116**	0.012	0.215	0.307	0.275
	(-1.95)	(-2.01)	(0.22)	0.210	0.007	0.270
Ν	1.953	1.953	(**==)	275	275	376
Debt amount	-84.925	-0.961	-83.964	59.390	155.414	215.278
	(-1.35)	(-0.02)	(1.45)			
Ν	1.953	1.953		275	275	376
Debt paid amount	93.605	680.184***	-586.579***	42.841	84.724	254.708
I T T T T T	(0.47)	(2.67)	(3.79)			
Ν	436	436		59	86	97
Outstanding debt amount	-58.275	-12.016	-46.260	47.468	135.616	178.059
C	(-1.02)	(-0.49)	(0.75)			
Ν	1,953	1,953		275	275	376
Household has any savings	0.159**	0.132**	0.027	0.149	0.289	0.313
(at home or at institution)	(2.15)	(2.04)	(0.29)			
Ν	1,953	1,953		275	275	376
Savings amount	-62.641	-53.521	-9.120	27.565	97.154	193.299
-	(-1.28)	(-1.45)	(0.16)			
Ν	1,953	1,953		275	275	376
Household received	-0.205***	0.042	-0.247***	0.749	0.541	0.708
transfer in last 12 months	(-3.63)	(0.79)	(4.66)			
Ν	1,953	1,953		275	275	376
Transfers received amount	-120.060	-100.101	-19.959	317.975	457.525	698.726
	(-1.00)	(-1.00)	(0.14)			
Ν	1,953	1,953		275	275	376
Household gave transfer in	-0.048	-0.049	0.000	0.143	0.297	0.337
last 12 months	(-0.78)	(-0.81)	(0.01)			
Ν	1,953	1,953		275	275	376
Transfers sent amount	-37.160	5.525	-42.685	46.088	150.408	180.140
	(-0.60)	(0.15)	(0.73)			
N	1,953	1,953		275	275	376

Table A.5.2.18: Household financial assets - real values - small households

VariableImpactIm	Dependent Voriable	Endline	Midline	Impact Diff	Baseline	Endline	Endline
InitialInitialInitial(1)(2) $(3)=(1)-(2)$ (4)(5)(6)Household is owed money0.0500.0200.0300.1020.1280.091or goods(1.25)(0.45)(0.68) $N$ 2,097303303396Credit amount7.9158.982-1.06626.88564.88757.023(0.28)(0.44)(0.04) $N$ 2,0972,097303303396Credit paid amount-57.31941.163-98.48117.05843.829173.358(-0.86)(0.43)(0.89) $N$ 251251324053Household has debt0.025-0.0180.0430.2650.3950.402	v al lable	Impact	mpact	(EL-IVIL)	Mean	Mean	Mean
Household is owed money $0.050$ $0.020$ $0.030$ $0.102$ $0.128$ $0.091$ or goods $(1.25)$ $(0.45)$ $(0.68)$ $0.020$ $0.030$ $0.102$ $0.128$ $0.091$ N $2,097$ $2,097$ $303$ $303$ $396$ Credit amount $7.915$ $8.982$ $-1.066$ $26.885$ $64.887$ $57.023$ $(0.28)$ $(0.44)$ $(0.04)$ $0.043$ $0.033$ $303$ $396$ Credit paid amount $-57.319$ $41.163$ $-98.481$ $17.058$ $43.829$ $173.358$ $(-0.86)$ $(0.43)$ $(0.89)$ $0.043$ $0.265$ $0.395$ $0.402$		(1)	(2)	(3) - (1) - (2)	(4)	(5)	(6)
Household is owed money $0.050$ $0.020$ $0.030$ $0.102$ $0.128$ $0.091$ or goods $(1.25)$ $(0.45)$ $(0.68)$ N $2,097$ $2,097$ $303$ $303$ $396$ Credit amount $7.915$ $8.982$ $-1.066$ $26.885$ $64.887$ $57.023$ $(0.28)$ $(0.44)$ $(0.04)$ $0.043$ $0.033$ $303$ $396$ Credit paid amount $-57.319$ $41.163$ $-98.481$ $17.058$ $43.829$ $173.358$ $(-0.86)$ $(0.43)$ $(0.89)$ $0.043$ $0.265$ $0.395$ $0.402$		(1)	(2)	(3)=(1)=(2)	(4)	(5)	(0)
or goods $(1.25)$ $(0.45)$ $(0.68)$ N $2,097$ $2,097$ $303$ $303$ $396$ Credit amount $7.915$ $8.982$ $-1.066$ $26.885$ $64.887$ $57.023$ $(0.28)$ $(0.44)$ $(0.04)$ $0.04)$ $0.04$ $0.04$ N $2,097$ $2,097$ $303$ $303$ $396$ Credit paid amount $-57.319$ $41.163$ $-98.481$ $17.058$ $43.829$ $173.358$ $(-0.86)$ $(0.43)$ $(0.89)$ $0.043$ $0.265$ $0.395$ $0.402$	Household is owed money	0.050	0.020	0.030	0.102	0.128	0.091
N       2,097       2,097       303       303       396         Credit amount $7.915$ $8.982$ $-1.066$ $26.885$ $64.887$ $57.023$ N $2,097$ $2,097$ $303$ $303$ $396$ N $2,097$ $2,097$ $303$ $303$ $396$ Credit paid amount $-57.319$ $41.163$ $-98.481$ $17.058$ $43.829$ $173.358$ (-0.86)       (0.43)       (0.89) $32$ $40$ $53$ Household has debt $0.025$ $-0.018$ $0.043$ $0.265$ $0.395$ $0.402$	or goods	(1.25)	(0.45)	(0.68)			
Credit amount7.915 $8.982$ $-1.066$ $26.885$ $64.887$ $57.023$ (0.28)(0.44)(0.04)N $2,097$ $2,097$ $303$ $303$ $396$ Credit paid amount $-57.319$ $41.163$ $-98.481$ $17.058$ $43.829$ $173.358$ (-0.86)(0.43)(0.89) $0.251$ $32$ $40$ $53$ Household has debt $0.025$ $-0.018$ $0.043$ $0.265$ $0.395$ $0.402$	N	2,097	2,097		303	303	396
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Credit amount	7.915	8.982	-1.066	26.885	64.887	57.023
N       2,097       2,097 $303$ $303$ $396$ Credit paid amount       -57.319 $41.163$ -98.481 $17.058$ $43.829$ $173.358$ (-0.86)       (0.43)       (0.89)       0.890       0.043       0.265       0.395       0.402		(0.28)	(0.44)	(0.04)			
Credit paid amount $-57.319$ $41.163$ $-98.481$ $17.058$ $43.829$ $173.358$ (-0.86)(0.43)(0.89)N251251324053Household has debt0.025 $-0.018$ 0.0430.2650.3950.402	Ν	2,097	2,097		303	303	396
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Credit paid amount	-57.319	41.163	-98.481	17.058	43.829	173.358
N         251         251         32         40         53           Household has debt         0.025         -0.018         0.043         0.265         0.395         0.402		(-0.86)	(0.43)	(0.89)			
Household has debt 0.025 -0.018 0.043 0.265 0.395 0.402	Ν	251	251		32	40	53
	Household has debt	0.025	-0.018	0.043	0.265	0.395	0.402
(0.32) (-0.28) (0.56)		(0.32)	(-0.28)	(0.56)			
N 2,097 2,097 303 303 396	Ν	2,097	2,097		303	303	396
Debt amount -32.611 38.195 -70.806 112.177 325.870 348.110	Debt amount	-32.611	38.195	-70.806	112.177	325.870	348.110
(-0.39) (0.73) (0.76)		(-0.39)	(0.73)	(0.76)			
N 2,097 2,097 303 303 396	Ν	2,097	2,097	. ,	303	303	396
Debt paid amount -67.454 6.816 -74.270 61.030 268.200 170.310	Debt paid amount	-67.454	6.816	-74.270	61.030	268.200	170.310
(-0.39) (0.06) (0.44)	I	(-0.39)	(0.06)	(0.44)			
N 635 635 80 121 128	Ν	635	635		80	121	128
Outstanding debt amount -65.053 53.773 -118.826 109.786 283.919 344.028	Outstanding debt amount	-65.053	53.773	-118.826	109.786	283.919	344.028
(-0.78) (1.14) (1.37)	C	(-0.78)	(1.14)	(1.37)			
N 2.097 2.097 303 303 396	Ν	2.097	2.097		303	303	396
Household has any savings 0.185** 0.139 0.046 0.265 0.333 0.283	Household has any savings	0.185**	0.139	0.046	0.265	0.333	0.283
(at home or at institution) $(2.52)$ $(1.58)$ $(0.49)$	(at home or at institution)	(2.52)	(1.58)	(0.49)			
N 2.097 2.097 303 303 396	N	2.097	2.097		303	303	396
Savings amount -61.480 120.140 -181.621** 84.539 87.625 189.332	Savings amount	-61.480	120.140	-181.621**	84.539	87.625	189.332
(-0.97) (1.56) (2.18)		(-0.97)	(1.56)	(2.18)	0.11007	07.020	107.002
N 2.097 2.097 303 303 396	Ν	2.097	2.097	(2010)	303	303	396
Household received $-0.247***$ $0.020$ $-0.267***$ $0.487$ $0.379$ $0.474$	Household received	-0 247***	0.020	-0 267***	0.487	0 379	0 474
transfer in last 12 months $(-4.19)$ $(0.28)$ $(3.01)$	transfer in last 12 months	(-4.19)	(0.28)	(3.01)	0.107	0.577	0.171
N = 2.097 = 2.097 = 303 = 303 = 396	N	2 097	2 097	(5.01)	303	303	396
Transfers received amount _33 174 87 205 _120 379 226 282 334 648 385 890	Transfers received amount	-33 174	87 205	-120 379	226 282	334 648	385 890
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Transfers feeerved amount	(-0.36)	(1.03)	(1.21)	220.202	554.040	505.070
N = 2.097 = 2.097 = 303 = 303 = 396	N	2 097	2 097	(1.21)	303	303	396
Household gave transfer in $0.015 = -0.009 = 0.024 = 0.335 = 0.402 = 0.425$	Household gave transfer in	0.015	-0.009	0.024	0.335	0.402	0.425
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	last 12 months	(0.24)	(0.10)	(0.024)	0.555	0.402	0.423
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		(0.24)	(-0.12)	(0.31)	303	303	306
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Transfors sont amount	2,097	2,071 157 026**	145 010	146 706	303	220 286 607
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ransiers sein amount	-12.220	(2.47)	(1.27)	140./90	519.905	200.007
$\frac{(-0.12)}{1.27} (-2.477) (1.27) (1.27)$	λ	2 007	2.007	(1.27)	303	303	306

Table A.5.2.19: Household financial assets - real values - large households

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Own any	-0.117	-0.139**	0.022	0.481	0.525	0.598
sheep/goat/chicken	(-1.40)	(-2.28)	(0.28)			
Own any chicken	-0.040	-0.178***	0.138	0.304	0.383	0.480
-	(-0.66)	(-2.96)	(1.63)			
Own any sheep	-0.018	-0.056*	0.038	0.153	0.165	0.075
• •	(-0.54)	(-1.77)	(1.32)			
Own any goats	0.013	-0.007	0.020	0.232	0.260	0.239
	(0.17)	(-0.11)	(0.29)			
Number of chickens	-1.095	-0.561	-0.534	4.231	3.869	5.567
	(-0.95)	(-0.43)	(0.51)			
Number of sheep	-0.320	-0.378	0.058	0.797	0.862	0.649
-	(-1.04)	(-1.31)	(0.25)			
Number of goats	0.284	-0.288	0.572	1.024	1.401	1.214
_	(0.73)	(-0.83)	(1.18)			
Own a non-farm	-0.108*	-0.080	-0.029	0.244	0.326	0.359
enterprise	(-1.91)	(-1.53)	(0.41)			
N	1,956	1,956		292	292	360

 Table A.5.2.20: Livestock and home enterprises - poorest 50% households

Dependent Variable	EndlineMidlineImpact DiffImpactImpact(EL-ML)		Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Own any	0.106	-0.047	0.153**	0.331	0.551	0.453
sheep/goat/chicken	(1.41)	(-0.96)	(2.25)			
Own any chicken	0.041	-0.078	0.119*	0.243	0.440	0.379
	(0.65)	(-1.59)	(1.72)			
Own any sheep	0.003	0.016	-0.013	0.090	0.107	0.100
	(0.10)	(0.56)	(0.37)			
Own any goats	0.102	-0.072	0.174***	0.158	0.262	0.218
	(1.49)	(-1.57)	(3.37)			
Number of chickens	-3.150***	-3.060**	-0.090	3.463	3.527	5.545
	(-2.66)	(-2.32)	(0.07)			
Number of sheep	0.020	0.210	-0.190	0.578	0.514	0.611
	(0.07)	(0.68)	(0.91)			
Number of goats	0.296	-0.398	0.694**	1.106	1.418	1.245
	(0.73)	(-1.59)	(2.10)			
Own a non-farm	-0.177***	-0.042	-0.135**	0.349	0.411	0.489
enterprise	(-3.12)	(-1.17)	(2.08)			
N	2,094	2,094		286	286	412

Table A.5.2.21: Livestock and home enterprises - less poor 50% households

Dependent Variable	Endline Impact	EndlineMidlineImpact DiffImpactImpact(EL-ML)		Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Own any	-0.044	-0.176***	0.133*	0.344	0.512	0.476
sheep/goat/chicken	(-0.55)	(-3.68)	(1.69)			
Own any chicken	0.044	-0.172***	0.216**	0.202	0.393	0.366
	(0.66)	(-3.39)	(2.52)			
Own any sheep	0.007	-0.040	0.048	0.100	0.122	0.054
	(0.25)	(-1.34)	(1.44)			
Own any goats	0.024	-0.074	0.098	0.163	0.221	0.219
	(0.32)	(-1.43)	(1.36)			
Number of chickens	-1.334	-2.500**	1.166	2.606	2.981	3.778
	(-1.46)	(-2.04)	(0.92)			
Number of sheep	-0.237	-0.278*	0.040	0.456	0.514	0.347
	(-1.27)	(-1.92)	(0.24)			
Number of goats	0.404	-0.610**	1.014***	0.621	1.254	1.011
	(1.13)	(-2.39)	(2.89)			
Own a non-farm	-0.105*	-0.051	-0.054	0.304	0.416	0.474
enterprise	(-1.71)	(-0.98)	(0.66)			
N	2,148	2,148		338	338	378

Table A.5.2.22: Livestock and home enterprises - female headed households

Dependent	Endline	Midline	Impact	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Own any	0.025	0.019	0.005	0.499	0.575	0.612
sheep/goat/chicken	(0.40)	(0.34)	(0.08)			
Own any chicken	-0.065	-0.091	0.026	0.379	0.438	0.537
-	(-0.98)	(-1.42)	(0.41)			
Own any sheep	-0.030	0.013	-0.043	0.155	0.157	0.141
	(-0.83)	(0.35)	(0.97)			
Own any goats	0.088	0.032	0.057	0.242	0.320	0.244
	(1.38)	(0.66)	(0.87)			
Number of chickens	-3.051	-1.134	-1.917	5.678	4.756	8.444
	(-1.64)	(-0.64)	(1.60)			
Number of sheep	-0.072	0.087	-0.159	1.031	0.947	1.092
	(-0.20)	(0.25)	(0.46)			
Number of goats	0.192	0.117	0.076	1.715	1.638	1.583
	(0.42)	(0.25)	(0.13)			
Own a non-farm	-0.218***	-0.091**	-0.127**	0.284	0.296	0.337
enterprise	(-3.75)	(-2.31)	(2.33)			
N	1,902	1,902		240	240	394

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Own any	0.021	-0.072	0.093	0.282	0.456	0.449
sheep/goat/chicken	(0.31)	(-1.51)	(1.25)			
Own any chicken	0.094	-0.092**	0.186**	0.170	0.345	0.322
	(1.36)	(-2.05)	(2.34)			
Own any sheep	0.025	0.019	0.006	0.076	0.116	0.064
	(0.88)	(0.80)	(0.17)			
Own any goats	0.023	-0.070*	0.093	0.111	0.211	0.235
	(0.32)	(-1.69)	(1.25)			
Number of chickens	-1.411*	-2.690**	1.280	2.201	2.569	3.937
	(-1.76)	(-2.40)	(1.06)			
Number of sheep	0.110	0.332	-0.222	0.408	0.506	0.475
	(0.44)	(1.31)	(0.90)			
Number of goats	0.178	-0.496*	0.674*	0.552	1.038	1.108
	(0.46)	(-1.93)	(1.77)			
Own a non-farm	-0.232***	-0.070	-0.162**	0.237	0.341	0.477
enterprise	(-3.60)	(-1.52)	(2.01)			
N	1,953	1,953		275	275	376

Table A.5.2.24: Livestock and home enterprises - small households

Table A.5.2.25: L	ivestock and ho	me enterprises -	large households
-------------------	-----------------	------------------	------------------

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Own any	-0.016	-0.069	0.053	0.543	0.627	0.613
sheep/goat/chicken	(-0.20)	(-1.60)	(0.65)			
Own any chicken	-0.083	-0.143**	0.059	0.388	0.484	0.549
	(-1.15)	(-2.30)	(0.82)			
Own any sheep	-0.045	-0.051	0.006	0.172	0.159	0.112
	(-1.10)	(-1.14)	(0.16)			
Own any goats	0.088	0.009	0.079	0.287	0.316	0.222
	(1.20)	(0.14)	(1.23)			
Number of chickens	-2.478	-0.386	-2.092	5.657	4.939	7.313
	(-1.46)	(-0.24)	(1.51)			
Number of sheep	-0.635*	-0.509	-0.126	0.997	0.891	0.800
	(-1.85)	(-1.44)	(0.47)			
Number of goats	0.413	0.217	0.195	1.626	1.816	1.360
	(0.96)	(0.61)	(0.38)			
Own a non-farm	-0.048	-0.081*	0.033	0.360	0.397	0.362
enterprise	(-0.89)	(-1.73)	(0.53)			
Ν	2,097	2,097		303	303	396

# Appendix A.6 Impacts on education and child's work: sub-group and ATT results A.6.1 Sub-group results

Table A.o.1.1: The	праст ог 1	LEAP ON S	school enrol	ment, by s	sex of the f	ieau, nouse	enola size a	and dasen	ne consump	uon (chila)	ren 5 – 17 g	years)
Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
		ŀ	Female-heade	d househol	ds		Male-headed households					
Current enrolment	-0.066	-0.051	-0.015	0.868	0.860	0.894	0.022	0.003	0.018	0.889	0.890	0.834
	(-1.30)	(-0.97)	(0.38)				(0.42)	(0.08)	(0.40)			
Ν	2,791	2,791		469	460	445	2,902	2,902		417	377	529
		Small	households (	4 or less me	embers)			Large l	nouseholds (5	or more m	embers)	
Current enrolment	0.023	0.094	-0.071	0.813	0.850	0.902	-0.040	-0.065	0.026	0.888	0.885	0.862
	(0.30)	(1.36)	(1.02)				(-0.99)	(-1.52)	(0.75)			
Ν	1,125	1,125		109	257	267	4,568	4,568		777	580	707
			Poorest ho	ouseholds					Less poor h	nouseholds		
Current enrolment	-0.062	-0.073	0.011	0.865	0.853	0.850	0.023	0.061	-0.038	0.904	0.896	0.910
	(-1.27)	(-1.39)	(0.30)				(0.54)	(1.49)	(0.88)			
Ν	3,391	3,391		593	457	540	2,302	2,302		293	380	434

Table A.6.1.1: The impact of LEAP on school enrolment, by sex of the head, household size and baseline consumption (children 5 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Endline Treated Mean	Endline Control Mean	Endline Impact Endline Treated Mean		Endline Control Mean		
	(1)	(2)	(3)	(4)	(5)	(6)		
	Fe	emale-headed househol	ds	Male-headed households				
Missed any school	-0.012	0.078	0.079	-0.055	0.082	0.115		
	(-0.42)			(-1.23)				
Ν	667	343	324	626	276	350		
	Small h	nouseholds (4 or less me	embers)	Large h	ouseholds (5 or more m	embers)		
Missed any school	-0.016	0.066	0.055	-0.032	0.086	0.104		
	(-0.43)			(-0.95)				
Ν	372	182	190	921	437	484		
		Poorest households			Less poor households			
Missed any school	-0.000	0.075	0.075	-0.056	0.085	0.115		
	(-0.00)			(-1.52)				
Ν	688	326	362	605	293	312		

Table A.6.1.2: The impact of LEAP on school attendance, by sex of head, household size and baseline consumption (children 5 – 17 years)

Notes: Estimations use cross-sectional modelling at endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
Female-headed households									Male-headed	household	8	
Grade for age	0.028	0.060	-0.033	0.337	0.280	0.453	-0.201***	-0.067	-0.134***	0.355	0.324	0.409
	(0.49)	(1.02)	(0.57)				(-4.13)	(-1.37)	(2.70)			
Ν	2,402	2,402		395	379	366	2,436	2,436		359	318	401
		Small	households (4	4 or less me	embers)			Large l	households (5	or more m	embers)	
Grade for age	0.096	0.019	0.076	0.311	0.344	0.288	-0.125***	-0.007	-0.118**	0.350	0.277	0.499
	(0.99)	(0.21)	(0.89)				(-2.75)	(-0.17)	(2.51)			
Ν	948	948		83	209	221	3,890	3,890		671	488	546
			Poorest ho	ouseholds					Less poor h	nouseholds		
Grade for age	-0.011	0.008	-0.019	0.331	0.298	0.467	-0.115*	0.044	-0.160**	0.373	0.301	0.394
	(-0.20)	(0.18)	(0.46)				(-1.75)	(0.73)	(2.48)			
Ν	2,829	2,829		496	370	420	2,009	2,009		258	327	347

Table A.6.1.3: The impact of LEAP on grade for age, by sex of head, household size and baseline consumption (children 5 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
		F	emale-heade	d househol	ds			]	Male-headed	household	8	
Schooling	-18.313*	-6.075	-12.238	14.701	16.680	44.704	-6.660*	-13.506***	6.846	14.050	16.092	22.628
expenditures	(-1.81)	(-1.57)	(1.34)				(-1.91)	(-2.76)	(1.36)			
Ν	2,791	2,791		469	460	445	2,902	2,902		417	377	529
		Small I	households (4	4 or less me	embers)		Large households (5 or more members)					
Schooling	0.679	10.806	-10.128	12.696	17.206	33.760	-22.383**	-11.512***	· -10.871	14.662	16.011	37.983
expenditures	(0.06)	(1.08)	(1.38)				(-2.05)	(-3.22)	(0.93)			
Ν	1,125	1,125		109	257	267	4,568	4,568		777	580	707
			Poorest ho	ouseholds					Less poor h	nouseholds		
Schooling	-24.588**	-11.707***	-12.881	9.615	12.962	38.609	-2.257	-3.823	1.566	24.204	20.353	33.839
expenditures	(-2.27)	(-3.28)	(1.13)				(-0.32)	(-0.68)	(0.33)			
Ν	3,391	3,391		593	457	540	2,302	2,302		293	380	434

Table A.6.1.4: The impact of LEAP on schooling expenditures, by sex of head, household size and baseline consumption (children 5 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance.

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control
				Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Children 7 – 12 years						
Paid work last 7 days	0.000	0.006	-0.006	0.002	0.005	0.000
	(0.02)	(0.89)	(0.78)			
Weeks worked (job last 7	0.124	0.057	0.068	0.027	0.195	0.003
days)	(0.55)	(0.87)	(0.34)			
Ν	2,740	2,740		424	380	475
Children 13 – 17 years						
Paid work last 7 days	0.004	-0.001	0.005	0.012	0.028	0.024
	(0.31)	(-0.09)	(0.38)			
Weeks worked (job last 7	0.486	-0.075	0.561	0.266	0.561	0.253
days)	(1.34)	(-0.38)	(1.56)			
Ν	2,199	2,199		345	370	364
Boys 7 – 17 years						
Paid work last 7 days	-0.004	-0.012**	0.008	0.010	0.017	0.016
	(-0.37)	(-2.07)	(0.83)			
Weeks worked (job last 7	0.267	-0.161	0.429*	0.166	0.429	0.185
days)	(1.02)	(-1.43)	(1.66)			
Ν	2,609	2,609		402	378	461
Girls 7 – 17 years						
Paid work last 7 days	-0.000	0.013	-0.013	0.003	0.017	0.003
	(-0.02)	(1.31)	(1.07)			
Weeks worked (job last 7	0.029	0.107	-0.078	0.101	0.324	0.010
days)	(0.10)	(0.70)	(0.27)			
Ν	2,330	2,330		367	372	378

Table A.6.1.5: The impact of LEAP on children's work in the last 7 days, by age group and se
--

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean		
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)		
		F	Female-heade	d household	ls				Male-headed	households	8			
Paid work last 7	0.011	0.010	0.000	0.005	0.021	0.013	-0.027*	-0.018	-0.010	0.009	0.011	0.005		
days	(0.78)	(0.91)	(0.02)				(-1.89)	(-1.61)	(0.96)					
Weeks worked	0.412	0.070	0.341	0.028	0.405	0.154	-0.495	-0.530	0.034	0.257	0.341	0.017		
(job last 7 days)	(1.30)	(0.48)	(1.08)				(-1.26)	(-1.65)	(0.15)					
Ν	2,441	2,441		404	414	382	2,498	2,498		365	336	457		
Small households (4 or less members)							Large l	nouseholds (5	or more m	embers)	457 0.004			
Paid work last 7	-0.060**	-0.006	-0.054	0.009	0.016	0.023	-0.000	-0.001	0.000	0.006	0.017	0.004		
days	(-2.07)	(-0.31)	(1.46)				(-0.04)	(-0.09)	(0.04)					
Weeks worked	-0.569*	0.190	-0.759	0.108	0.177	0.182	0.202	-0.086	0.288	0.139	0.479	0.070		
(job last 7 days)	(-1.92)	(0.54)	(1.65)				(0.78)	(-0.63)	(1.22)					
Ν	986	986		96	226	232	3,953	3,953		673	524	607		
			Poorest ho	ouseholds					Less poor h	ouseholds				
Paid work last 7	0.002	-0.011*	0.012	0.008	0.025	0.012	-0.015	0.023	-0.038*	0.004	0.007	0.007		
days	(0.13)	(-1.80)	(1.17)				(-1.19)	(1.23)	(1.97)					
Weeks worked	0.444	-0.206	0.651**	0.178	0.700	0.089	-0.360	0.161	-0.521**	0.045	0.010	0.127		
(job last 7 days)	(1.33)	(-1.24)	(2.26)				(-1.52)	(0.78)	(1.98)					
Ν	2,937	2,937		516	410	463	2,002	2,002		253	340	376		

Table A.6.1.6: The impact of LEAP on children's work, by sex of the head, household size and baseline consumption (children 7 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance.

## A.6.2 ATT results

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control
	1	1	· · · ·	Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
All children 5 - 17 yea	irs					
Current enrolment	0.034	-0.037	0.071**	0.873	0.886	0.851
	(1.05)	(-1.17)	(2.08)			
Ν	5,693	5,693		836	758	1,053
Boys 5 - 17 years						
Current enrolment	0.062	-0.031	0.092*	0.878	0.890	0.848
	(1.34)	(-0.67)	(1.82)			
Ν	2,984	2,984		442	366	587
Girls 5 - 17 years						
Current enrolment	0.026	-0.036	0.062*	0.867	0.882	0.855
	(0.62)	(-1.03)	(1.76)			
Ν	2,709	2,709		394	392	466
All children 5 - 13 yea	irs					
Current enrolment	0.036	-0.063**	0.099***	0.888	0.934	0.852
	(0.81)	(-2.22)	(2.65)			
Ν	3,930	3,930		585	493	724
Boys 5 - 13 years						
Current enrolment	0.031	-0.077*	0.108*	0.898	0.934	0.853
	(0.43)	(-1.65)	(1.85)			
Ν	2,029	2,029		300	233	396
Girls 5 - 13 years						
Current enrolment	0.097**	-0.000	0.097**	0.878	0.935	0.851
	(2.22)	(-0.00)	(2.39)			
N	1,901	1,901		285	260	328
All children 13 - 17 ye	ears					
Current enrolment	0.060	0.052	0.008	0.829	0.833	0.873
	(1.13)	(1.36)	(0.17)			
Ν	2,199	2,199		324	330	404
Boys 13 - 17 years						
Current enrolment	0.083	0.060	0.023	0.828	0.847	0.868
	(1.27)	(0.96)	(0.37)			
Ν	1,181	1,181		182	163	233
Girls 13 - 17 years						
Current enrolment	-0.029	-0.025	-0.004	0.830	0.820	0.883
	(-0.45)	(-0.42)	(0.08)			
Ν	1,018	1,018		142	167	171

Table A.6.2.1: The ATT impact of LEAP on school enrolment

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. Sex/age group sub-groups use region fixed effects instead of cluster fixed effects. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent	Endline	Endline	Endline
Variable	Impact	Treated Mean	Control Mean
	(1)	(2)	(3)
All children 5 - 17 years			
Missed any school	-0.076	0.079	0.143
	(-1.58)		
Ν	1,293	572	721
Boys 5 - 17 years			
Missed any school	-0.087	0.080	0.135
	(-1.56)		
Ν	666	276	390
Girls 5 - 17 years			
Missed any school	-0.090	0.079	0.159
	(-1.51)		
N	627	296	331
All children 5 - 13 years			
Missed any school	-0.142**	0.076	0.197
	(-1.98)		
N D	932	401	531
Boys 5 - 13 years	0.1.45%	0.000	0.001
Missed any school	-0.145*	0.080	0.201
27	(-1.85)	100	292
N Circle 5 12 manual	470	188	282
GIRIS 5 - 13 years Missed any school	0 124*	0.072	0 101
wiisseu ally school	$-0.134^{\circ}$	0.075	0.191
N	462	213	249
All children 13 - 17 vears	702	213	<u> </u>
Missed any school	0.017	0.079	0.030
	(0.86)		0.020
Ν	478	232	246
Boys 13 - 17 years		-	-
Missed any school	0.011	0.083	0.018
-	(0.39)		
Ν	254	116	138
Girls 13 - 17 years			
Missed any school	0.023	0.075	0.061
	(0.65)		
Ν	224	116	108

Table A.6.2.2: The ATT in	pact of LEAP on	school attendance
---------------------------	-----------------	-------------------

Notes: Estimations use cross-sectional modelling at endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control
				Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
All children 5 - 17 year	'S					
Grade for age	-0.128**	-0.022	-0.105**	0.344	0.297	0.402
	(-2.54)	(-0.63)	(2.19)			
Ν	4,838	4,838		708	644	820
Boys 5 - 17 years						
Grade for age	-0.120	0.008	-0.128*	0.352	0.268	0.390
	(-1.60)	(0.17)	(1.71)			
Ν	2,536	2,536		377	309	452
Girls 5 - 17 years						
Grade for age	-0.095	-0.044	-0.051	0.335	0.324	0.423
	(-1.52)	(-0.81)	(0.86)			
Ν	2,302	2,302		331	335	368
All children 5 - 13 year	'S					
Grade for age	-0.125*	-0.006	-0.119**	0.444	0.392	0.493
	(-1.89)	(-0.12)	(2.06)			
Ν	3,478	3,478		510	448	604
Boys 5 - 13 years						
Grade for age	-0.102	0.002	-0.104	0.470	0.352	0.456
	(-1.09)	(0.04)	(1.09)			
Ν	1,790	1,790		265	209	327
Girls 5 - 13 years						
Grade for age	-0.047	-0.005	-0.043	0.415	0.427	0.548
	(-0.57)	(-0.07)	(0.60)			
Ν	1,688	1,688		245	239	277
All children 13 - 17 yea	ars					
Grade for age	-0.178***	-0.019	-0.160**	0.105	0.087	0.201
	(-2.79)	(-0.38)	(2.56)			
Ν	1,757	1,757		255	259	283
Boys 13 - 17 years						
Grade for age	-0.254***	-0.073	-0.181**	0.105	0.095	0.223
	(-3.05)	(-1.56)	(2.29)			
Ν	955	955		143	129	164
Girls 13 - 17 years						
Grade for age	-0.021	0.019	-0.040	0.104	0.080	0.154
	(-0.34)	(0.24)	(0.62)			
N	802	802		112	130	119

Table A.6.2.3: The ATT impact of LEAP on grade for age

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. Sex/age group sub-groups use region fixed effects instead of cluster fixed effects. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

VariableImpactImpactDiffIreatedIreatedControl(EL-ML)MeanMeanMeanMean(1)(2)(3)=(1)-(2)(4)(5)(6)All children 5 - 17 yearsReal monthly schooling $-12.477^*$ $-6.844^{***}$ $-5.633$ $13.839$ $15.815$ $30.983$ expenditures(-1.96)(-3.08)(0.90) $N$ $5,693$ $5,693$ $836$ $758$ $1,053$ Boys 5 - 17 yearsReal monthly schooling $-10.356^*$ $-6.966^{**}$ $-3.390$ $13.902$ $15.560$ $32.906$ expenditures(-1.72)(-2.15)(0.71) $V$ $V$ $V$ $V$ $V$ $V$ $V$ N $2.984$ $2.984$ $442$ $366$ $587$ $S7$	Dependent	Endline	Midline	Impact	Baseline	Endline	Endline
(EL-ML)MeanMeanMeanMean(1)(2)(3)=(1)-(2)(4)(5)(6)All children 5 - 17 years-12.477*-6.844***-5.63313.83915.81530.983expenditures(-1.96)(-3.08)(0.90) $N$ $5,693$ $5,693$ $836$ $758$ $1,053$ Boys 5 - 17 yearsReal monthly schooling-10.356*-6.966**-3.39013.90215.56032.906expenditures(-1.72)(-2.15)(0.71) $N$ $2,984$ $2,984$ $442$ $366$ $587$ Girls 5 - 17 yearsReal monthly schooling-7.070* $-8.062^{**}$ $0.991$ 13.76916.049 $27.889$	Variable	Impact	Impact		Treated	Treated	Control
All children 5 - 17 years(1)(2)(3)-(1)-(2)(4)(3)(6)All children 5 - 17 yearsReal monthly schooling $-12.477^*$ $-6.844^{***}$ $-5.633$ $13.839$ $15.815$ $30.983$ expenditures(-1.96)(-3.08)(0.90) $N$ $836$ $758$ $1,053$ N $5,693$ $5,693$ $836$ $758$ $1,053$ Boys 5 - 17 yearsReal monthly schooling $-10.356^*$ $-6.966^{**}$ $-3.390$ $13.902$ $15.560$ $32.906$ expenditures(-1.72)(-2.15)(0.71) $V$ $V$ $V$ $V$ N $2,984$ $2,984$ $442$ $366$ $587$ Girls 5 - 17 yearsReal monthly schooling $-7.070^*$ $-8.062^{**}$ $0.991$ $13.769$ $16.049$ $27.889$		(1)	(2)	(EL-ML)	Mean (4)	Mean (5)	Mean
All children 5 - 17 yearsReal monthly schooling $-12.477^*$ $-6.844^{***}$ $-5.633$ $13.839$ $15.815$ $30.983$ expenditures $(-1.96)$ $(-3.08)$ $(0.90)$ $N$ $836$ $758$ $1,053$ N $5,693$ $5,693$ $836$ $758$ $1,053$ Boys 5 - 17 years $V$ $V$ $V$ $V$ $V$ Real monthly schooling $-10.356^*$ $-6.966^{**}$ $-3.390$ $13.902$ $15.560$ $32.906$ expenditures $(-1.72)$ $(-2.15)$ $(0.71)$ $V$ $V$ $V$ N $2,984$ $2,984$ $442$ $366$ $587$ Girls 5 - 17 years $V$ $V$ $V$ $V$ $V$ Real monthly schooling $-7.070^*$ $-8.062^{**}$ $0.991$ $13.769$ $16.049$ $27.889$		(1)	(2)	(3)=(1)-(2)	(4)	(3)	(0)
Real monthly schooling expenditures $-12.477^*$ $(-1.96)$ $-6.844^{***}$ $(-3.08)$ $-5.633$ $(0.90)$ $13.839$ $15.815$ $(0.90)$ $30.983$ N $5,693$ $5,693$ $6.963$ $836$ $758$ $1,053$ Boys 5 - 17 yearsReal monthly schooling expenditures $-10.356^*$ $(-1.72)$ $-6.966^{**}$ $(-2.15)$ $-3.390$ $(0.71)$ $13.902$ $15.560$ $32.906$ N $2,984$ $2,984$ $2422$ $366$ $366$ $587$ Girls 5 - 17 yearsReal monthly schooling $-7.070^*$ $-8.062^{**}$ $0.991$ $13.769$ $16.049$ $27.889$	All children 5 - 17 years						
expenditures $(-1.96)$ $(-3.08)$ $(0.90)$ N5,6935,6938367581,053Boys 5 - 17 yearsexpendituresReal monthly schooling $-10.356^*$ $-6.966^{**}$ $-3.390$ 13.90215.56032.906expenditures $(-1.72)$ $(-2.15)$ $(0.71)$ $0.71$ $0.71$ $0.71$ N2,9842,984442366587Girls 5 - 17 yearsReal monthly schooling $-7.070^*$ $-8.062^{**}$ $0.991$ 13.76916.04927.889	Real monthly schooling	-12.477*	-6.844***	-5.633	13.839	15.815	30.983
N $5,693$ $5,693$ $836$ $758$ $1,053$ Boys 5 - 17 years $-10.356^*$ $-6.966^{**}$ $-3.390$ $13.902$ $15.560$ $32.906$ expenditures $(-1.72)$ $(-2.15)$ $(0.71)$ $0.71$ $0.71$ $0.71$ $0.71$ N $2,984$ $2,984$ $442$ $366$ $587$ Girls 5 - 17 years $0.991$ $13.769$ $16.049$ $27.889$	expenditures	(-1.96)	(-3.08)	(0.90)			
Boys 5 - 17 years         Real monthly schooling       -10.356*       -6.966**       -3.390       13.902       15.560       32.906         expenditures       (-1.72)       (-2.15)       (0.71)       0.71)       0.71         N       2,984       2,984       442       366       587         Girls 5 - 17 years       8.062**       0.991       13.769       16.049       27.889	Ν	5,693	5,693		836	758	1,053
Real monthly schooling expenditures       -10.356*       -6.966**       -3.390       13.902       15.560       32.906         N       (-1.72)       (-2.15)       (0.71)       0.71)       0.710       0.	Boys 5 - 17 years						
expenditures $(-1.72)$ $(-2.15)$ $(0.71)$ N2,9842,984442366587Girls 5 - 17 yearsReal monthly schooling $-7.070^*$ $-8.062^{**}$ 0.99113.76916.04927.889	Real monthly schooling	-10.356*	-6.966**	-3.390	13.902	15.560	32.906
N       2,984       2,984       442       366       587         Girls 5 - 17 years       Real monthly schooling       -7.070*       -8.062**       0.991       13.769       16.049       27.889	expenditures	(-1.72)	(-2.15)	(0.71)			
Girls 5 - 17 years           Real monthly schooling         -7.070*         -8.062**         0.991         13.769         16.049         27.889	Ν	2,984	2,984		442	366	587
Real monthly schooling         -7.070*         -8.062**         0.991         13.769         16.049         27.889	Girls 5 - 17 years						
	Real monthly schooling	-7.070*	-8.062**	0.991	13.769	16.049	27.889
expenditures (-1.79) (-2.53) (0.28)	expenditures	(-1.79)	(-2.53)	(0.28)			
N 2,709 2,709 394 392 466	Ν	2,709	2,709		394	392	466
All children 5 - 13 years	All children 5 - 13 years						
Real monthly schooling -13.271** -12.317*** -0.954 12.406 13.962 29.150	Real monthly schooling	-13.271**	-12.317***	-0.954	12.406	13.962	29.150
expenditures	expenditures						
(-2.07) (-4.72) (0.20)	•	(-2.07)	(-4.72)	(0.20)			
N 3,930 3,930 585 493 724	Ν	3,930	3,930		585	493	724
Boys 5 - 13 years	Boys 5 - 13 years						
Real monthly schooling -15.278* -5.835** -9.442 12.236 13.053 34.544	Real monthly schooling	-15.278*	-5.835**	-9.442	12.236	13.053	34.544
expenditures (-1.86) (-2.20) (1.27)	expenditures	(-1.86)	(-2.20)	(1.27)			
N 2,029 2,029 300 233 396	N	2,029	2,029		300	233	396
Girls 5 - 13 years	Girls 5 - 13 years						
Real monthly schooling -3.856 -12.932*** 9.076** 12.584 14.761 21.008	Real monthly schooling	-3.856	-12.932***	9.076**	12.584	14.761	21.008
expenditures $(-1.34)$ $(-3.87)$ $(2.53)$	expenditures	(-1.34)	(-3.87)	(2.53)			
N 1.901 1.901 285 260 328	N	1.901	1.901		285	260	328
All children 13 - 17 years	All children 13 - 17 years	7	7				
Real monthly schooling -10.097 -1.136 -8.961 15.487 19.767 32.039	Real monthly schooling	-10.097	-1.136	-8.961	15.487	19.767	32.039
expenditures $(-1.47)$ $(-0.24)$ $(1.36)$	expenditures	(-1.47)	(-0.24)	(1.36)			
N 2.199 2.199 324 330 404	N	2.199	2.199	(	324	330	404
Boys 13 - 17 years	Boys 13 - 17 years	_,	_,		021	000	
Real monthly schooling -6.834 -11.663** 4.829 15.672 19.845 26.476	Real monthly schooling	-6.834	-11.663**	4.829	15.672	19.845	26.476
expenditures (-0.98) (-2.20) (0.71)	expenditures	(-0.98)	(-2,20)	(0.71)	10.072	1710.0	
N 1 181 1 181 182 163 233	N	1 181	1 181	(0112)	182	163	233
Girls 13 - 17 years	Girls 13 - 17 vears	1,101	1,101		102	100	235
Real monthly schooling -17 511** -0.834 -16 677* 15 255 19 693 42 534	Real monthly schooling	-17 511**	-0.834	-16 677*	15 255	19 693	42,534
expenditures (-1.98) (-0.12) (1.87)	expenditures	(-1.98)	(-0.12)	(1.87)	10.200	17.075	12.331
N 1.018 1.018 142 167 171	N	1.018	1.018	(1.57)	142	167	171

Table A.6.2.4: The ATT impact of LEAP on schooling expenditures

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. Sex/age group sub-groups use region fixed effects instead of cluster fixed effects. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean			
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)			
Female-headed households								Male-headed	households	5					
Current enrolment	-0.015	-0.027	0.011	0.862	0.862	0.928	0.159***	-0.043	0.202***	0.888	0.917	0.714			
	(-0.37)	(-0.61)	(0.34)				(3.65)	(-1.07)	(3.50)						
Ν	2,791	2,791		484	426	479	2,902	2,902		352	332	574			
		Small	households (4	4 or less me	embers)			Large l	nouseholds (5	or more m	nore members)				
Current enrolment	-0.067	-0.049	-0.018	0.818	0.852	0.847	0.030	-0.044	0.074*	0.880	0.899	0.855			
	(-0.93)	(-0.68)	(0.27)				(0.78)	(-1.15)	(1.89)						
Ν	1,125	1,125		93	196	328	4,568	4,568		743	562	725			
			Poorest ho	ouseholds					Less poor h	ouseholds					
Current enrolment	-0.004	-0.037	0.033	0.857	0.862	0.856	0.052	-0.011	0.064	0.906	0.913	0.845			
	(-0.09)	(-0.82)	(0.74)				(1.59)	(-0.26)	(1.42)						
Ν	3,391	3,391		562	423	574	2,302	2,302		274	335	479			

Table A.6.2.5: The ATT im	pact of LEAP on school	enrolment, by sex o	of the head, age	group and sex
				<b>H</b>

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Endline Treated Mean	Endline Control Mean	Endline Impact	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)	(4)	(5)	(6)
	Fe	emale-headed househol	ds	1	Male-headed household	S
Missed any school	-0.015	0.082	0.083	-0.264**	0.075	0.283
	(-0.56)			(-2.04)		
Ν	667	326	341	626	246	380
	Small h	ouseholds (4 or less me	embers)	Large h	ouseholds (5 or more m	embers)
Missed any school	-0.020	0.063	0.084	-0.100*	0.085	0.187
	(-0.48)			(-1.95)		
Ν	372	141	231	921	431	490
		Poorest households			Less poor households	
Missed any school	0.035	0.087	0.051	-0.200**	0.071	0.268
	(1.38)			(-2.55)		
Ν	688	303	385	605	269	336

Table A.6.2.6: The ATT im	nact of LEAP on school attend	ance, by sex of head.	household size and baselin	e consumption (	children 5 – 17 v	vears)
	pact of EERI on School attend	unce, by sea of neau,	nousenoiu size and basem	ic consumption (	cilluren 5 17 y	cars

Notes: Estimations use cross-sectional modelling at endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean				
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)				
Female-headed households								Male-headed	households	5						
Grade for age	-0.092	0.041	-0.134**	0.340	0.270	0.363	-0.207***	-0.068*	-0.139**	0.350	0.331	0.495				
	(-1.47)	(0.81)	(1.98)				(-3.15)	(-1.66)	(2.20)							
Ν	2,402	2,402		406	355	390	2,436	2,436		302	289	430				
		Small	households (4	4 or less me	embers)			Large l	nouseholds (5	or more m	embers)	rs)				
Grade for age	-0.127	0.010	-0.137	0.318	0.327	0.330	-0.157***	-0.035	-0.122**	0.347	0.285	0.457				
	(-1.56)	(0.13)	(1.49)				(-3.19)	(-0.97)	(2.56)							
Ν	948	948		72	162	268	3,890	3,890		636	482	552				
			Poorest ho	ouseholds					Less poor h	nouseholds						
Grade for age	-0.063	-0.031	-0.032	0.327	0.297	0.378	-0.197***	0.022	-0.219***	0.376	0.297	0.432				
	(-1.20)	(-0.67)	(0.70)				(-3.71)	(0.59)	(3.83)							
Ν	2,829	2,829		466	349	441	2,009	2,009		242	295	379				

Table A.6.2.7: The ATT impact of LEAP on grade progression, by sex of head, household size and baseline consumption (children 5 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
		F	emale-heade	d household	ds				Male-headed	households	5	
Schooling	-15.280*	-7.424**	-7.856	13.854	16.089	35.345	-10.615**	-7.762***	-2.853	13.816	15.448	23.229
expenditures	(-1.68)	(-2.41)	(0.87)				(-2.19)	(-2.89)	(0.58)			
Ν	2,791	2,791		484	426	479	2,902	2,902		352	332	574
		Small	households (4	4 or less me	embers)			Large h	ouseholds (5	or more m	embers)	
Schooling	0.534	0.561	-0.027	12.359	16.291	21.510	-18.101**	-6.649***	-11.452	14.042	15.623	38.381
expenditures	(0.07)	(0.08)	(0.01)				(-2.22)	(-2.62)	(1.32)			
Ν	1,125	1,125		93	196	328	4,568	4,568		743	562	725
			Poorest ho	ouseholds					Less poor h	ouseholds		
Schooling	-18.888**	-6.135**	-12.752	9.344	12.631	30.996	-5.793	-6.695	0.901	23.026	19.596	30.968
expenditures	(-2.05)	(-2.07)	(1.37)				(-0.75)	(-1.30)	(0.19)			
Ν	3,391	3,391		562	423	574	2,302	2,302		274	335	479

Table A.6.2.8: The ATT impact of LEAP on schooling expenditures, by sex of head, household size and baseline consumption (children 5 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance.

Variable         Impact         Impact         (EL-ML)         Treated Mean         Treated Mean         Control Mean           (1)         (2)         (3)=(1)-(2)         (4)         (5)         (6)           Children 7 - 17 years         (1.26)         (0.015**         -0.005         0.003         0.014         0.009           (1.26)         (2.31)         (0.70)         (0.70)         0.076         0.016         0.0418***         0.222**         0.196         0.048         0.377         0.076           (job last 7 days)         (2.78)         (2.01)         (1.37)         -         -         -         -           N         4,939         4,939         -0.003         0.000         0.005         0.002           (job last 7 days)         (0.17**         0.020**         -0.003         0.000         0.215         0.002           (job last 7 days)         (1.93)         (2.36)         (0.98)         -         -         -           N         2,740         2,740         3948         343         512         -           Children 13 - 17         -         -         -         -         -         -           Years         -         -         0	Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
MeanMeanMean(1)(2)(3)=(1)-(2)(4)(5)(6)Children 7 - 17 years0.0100.015**-0.0050.0030.0140.009(1.26)(2.31)(0.70) $(0.70)$ $(0.70)$ $(0.70)$ $(0.70)$ Weeks worked0.418***0.222**0.1960.0480.3770.076(job last 7 days)(2.78)(2.01)(1.37) $(0.70)$ $(0.70)$ $(0.70)$ N4.9394.939722673916Children 7 - 12 years $(2.04)$ (2.41)(0.49) $(0.20)$ $(0.20)$ Weeks worked0.363*0.207**0.1560.0000.2150.002(job last 7 days)(1.93)(2.36)(0.98) $(0.24)$ $(0.24)$ $(0.92)$ $(0.43)$ N2,7402,740398343512512Children 13 - 17years $(0.24)$ $(0.92)$ $(0.43)$ $(0.54)^2$ $(0.160)$ Weeks worked0.547*0.220 $0.327$ $0.106$ $0.544$ $0.160$ (job last 7 days)(1.135)(1.16) $(0.24)$ $(0.32)$ $(0.29)$ $324$ $330$ $404$ Bays 7 - 17 yearsPaid work last 7 days $(1.78)$ $(1.06)$ $(1.27)$ $(1.78)$ $(1.62)$ $(1.34)$ $(0.32)$ Weeks worked $0.425^*$ $0.197$ $0.229$ $0.092$ $0.411$ $0.111$ (job last 7 days) $(1.78)$ $(1.06)$ $(1.27)$ $(0$	Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control
(1)         (2)         (3)=(1)-(2)         (4)         (5)         (6)           Children 7 - 17 years           Paid work last 7 days         0.010         0.015**         -0.005         0.003         0.014         0.009           Weeks worked         0.418***         0.222**         0.196         0.048         0.377         0.076           (job last 7 days)         (2.78)         (2.01)         (1.37)         -         -           N         4.939         4.939         722         673         916           Children 7 - 12 years         -         -         -         -         -         0.000         0.005         0.000           (2.04)         (2.41)         (0.49)         -         -         -         0.002         (job last 7 days)         (1.93)         (2.36)         (0.98)         -         -         -         0.002         0.002         0.019         0.019         0.023         0.019         -         -         0.23         0.019         0.241         (0.92)         (0.43)         -         -         0.241         0.022         0.023         0.019         0.166         0.160         0.160         0.161         0.160         0.161 <td< td=""><td></td><td></td><td><i></i></td><td></td><td>Mean</td><td>Mean</td><td>Mean</td></td<>			<i></i>		Mean	Mean	Mean
Children 7 - 17 years           Paid work last 7 days         0.010         0.015**         -0.005         0.003         0.014         0.009           Weeks worked         0.418***         0.222**         0.196         0.048         0.377         0.076           (job last 7 days)         (2.78)         (2.01)         (1.37)         722         673         916           Children 7 - 12 years         Paid work last 7 days         0.017**         0.020**         -0.003         0.000         0.005         0.000           (2.04)         (2.41)         (0.49)         0.017         0.020**         0.156         0.000         0.215         0.002           (job last 7 days)         (1.93)         (2.36)         (0.98)         0.017         0.026         0.023         0.019           Weeks worked         0.547*         0.220         0.327         0.106         0.544         0.160           (job last 7 days)         (1.93)         (1.35)         (1.16)         0.009         0.015         0.009           (job last 7 days)         (0.17)         0.002         0.006         0.015         0.009           (job last 7 days)         (1.93)         (1.35)         (1.16)         111         0.		(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Paid work last 7 days       0.010       0.015**       -0.005       0.003       0.014       0.009         Weeks worked       0.418***       0.222**       0.196       0.048       0.377       0.076         (job last 7 days)       (2.78)       (2.01)       (1.37)       0.076       0.015**       -0.003       0.000       0.005       0.000         N       4,939       4,939       -0.003       0.000       0.005       0.000         Children 7 - 12 years       0.017**       0.020**       -0.003       0.000       0.005       0.000         Weeks worked       0.363*       0.207**       0.156       0.000       0.215       0.002         (job last 7 days)       (1.93)       (2.36)       (0.98)	Children 7 – 17 years						
$(1.26)$ $(2.31)$ $(0.70)$ Weeks worked $0.418***$ $0.222**$ $0.196$ $0.048$ $0.377$ $0.076$ $(job last 7 days)$ $(2.78)$ $(2.01)$ $(1.37)$ $722$ $673$ $916$ Children 7 - 12 years $0.017**$ $0.020**$ $-0.003$ $0.000$ $0.005$ $0.000$ Weeks worked $0.363*$ $0.20^{**}$ $-0.003$ $0.000$ $0.005$ $0.000$ Weeks worked $0.363*$ $0.20^{**}$ $0.156$ $0.000$ $0.215$ $0.002$ (job last 7 days) $(1.93)$ $(2.36)$ $(0.98)$ $0.005$ $0.006$ $0.023$ $0.019$ N $2,740$ $2,740$ $398$ $343$ $512$ $512$ Children 13 - 17years $V$ $V$ $V$ $V$ $V$ Paid work last 7 days $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ $(0.24)$ $(0.92)$ $(0.43)$ $V$ $V$ $V$ Weeks worked $0.547*$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ $(job last 7 days)$ $(1.93)$ $(1.35)$ $(1.16)$ $V$ $V$ $V$ N $2,199$ $2,199$ $324$ $330$ $404$ Boys 7 - 17 yearsPaid work last 7 days $0.019$ $0.017$ $0.002$ $0.092$ $0.411$ $0.111$ $(job last 7 days)$ $(1.78)$ $(1.06)$ $(1.27)$ $V$ $V$ $V$ $V$ N $2,609$ <th< td=""><td>Paid work last 7 days</td><td>0.010</td><td>0.015**</td><td>-0.005</td><td>0.003</td><td>0.014</td><td>0.009</td></th<>	Paid work last 7 days	0.010	0.015**	-0.005	0.003	0.014	0.009
Weeks worked $0.418^{***}$ $0.222^{**}$ $0.196$ $0.048$ $0.377$ $0.076$ (job last 7 days)         (2.78)         (2.01)         (1.37)         .         .           N         4,939         4,939         722         673         916           Children 7 - 12 years         .         .         .         .         .           Paid work last 7 days $0.017^{**}$ $0.020^{**}$ -0.003 $0.000$ $0.005$ $0.000$ Weeks worked $0.363^*$ $0.207^{**}$ $0.156$ $0.000$ $0.215$ $0.002$ (job last 7 days) $(1.93)$ $(2.36)$ $(0.98)$ .         .         .           N         2,740         2,740         398         343         512           Children 13 - 17         .         .         .         .         .         .           years         .         .         .         .         .         .         .           Paid work last 7 days         0.003         0.008         .         .         .         .         .           N         2,199         2,190<		(1.26)	(2.31)	(0.70)			
	Weeks worked	0.418***	0.222**	0.196	0.048	0.377	0.076
N         4,939         4,939         722         673         916           Children 7 – 12 years         Paid work last 7 days         0.017**         0.020**         -0.003         0.000         0.005         0.000           Weeks worked         0.363*         0.207**         0.156         0.000         0.215         0.002           (job last 7 days)         (1.93)         (2.36)         (0.98)	(job last 7 days)	(2.78)	(2.01)	(1.37)			
Children 7 – 12 years         Paid work last 7 days $0.017^{**}$ $0.020^{**}$ $-0.003$ $0.000$ $0.005$ $0.000$ (2.04)       (2.41)       (0.49)       (0.49)       (0.49)       (0.215) $0.002$ Weeks worked $0.363^{**}$ $0.207^{**}$ $0.156$ $0.000$ $0.215$ $0.002$ (job last 7 days)       (1.93)       (2.36)       (0.98)       (0.24) $398$ $343$ $512$ Children 13 – 17         years         Paid work last 7 days $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ (0.24)       (0.92)       (0.43)       Weeks worked $0.547^{*}$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ (job last 7 days)       (1.93)       (1.35)       (1.16) $1.52$ $(1.34)$ $(0.32)$ Weeks worked $0.425^{*}$ $0.197$ $0.229$ $0.092$ $0.411$ $0.111$ (job last 7 days) $(1.78)$ $(1.06)$ $(1.27)$ $1.2609$ $2.609$ $2.609$ $2.609$ $2.609$ $2.60$	Ν	4,939	4,939		722	673	916
Paid work last 7 days $0.017^{**}$ $0.020^{**}$ $-0.003$ $0.000$ $0.005$ $0.000$ Weeks worked $0.363^*$ $0.207^{**}$ $0.156$ $0.000$ $0.215$ $0.002$ (job last 7 days) $(1.93)$ $(2.36)$ $(0.98)$ $0.000$ $0.215$ $0.002$ N $2,740$ $2,740$ $398$ $343$ $512$ Children 13 – 17yearsPaid work last 7 days $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ $(0.24)$ $(0.92)$ $(0.43)$ $0.160$ $0.544$ $0.160$ (job last 7 days) $(1.93)$ $(1.35)$ $(1.16)$ $0.006$ $0.015$ $0.009$ N $2,199$ $2,199$ $324$ $330$ $404$ Boys 7 - 17 yearsPaid work last 7 days $0.019$ $0.017$ $0.002$ $0.006$ $0.015$ $0.009$ (1.52) $(1.34)$ $(0.32)$ $0.092$ $0.411$ $0.111$ (job last 7 days) $(1.78)$ $(1.06)$ $(1.27)$ $N$ $2,609$ $2,609$ $383$ $327$ $512$ Girls 7 - 17 yearsPaid work last 7 days $0.009$ $0.017^{**}$ $-0.008$ $0.000$ $0.014$ $0.010$ $(0.77)$ $(2.02)$ $(0.53)$ $N$ $2,330$ $2,330$ $339$ $346$ $404$	Children 7 – 12 years						
(2.04) $(2.41)$ $(0.49)$ Weeks worked $0.363*$ $0.207**$ $0.156$ $0.000$ $0.215$ $0.002$ $(job last 7 days)$ $(1.93)$ $(2.36)$ $(0.98)$ $0.000$ $0.215$ $0.002$ $N$ $2,740$ $2,740$ $2,740$ $398$ $343$ $512$ Children 13 – 17years $V$ $V$ $V$ $V$ $V$ $V$ gain work last 7 days $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ $(0.24)$ $(0.92)$ $(0.43)$ $V$ $V$ $V$ $V$ Weeks worked $0.547*$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ $(job last 7 days)$ $(1.93)$ $(1.35)$ $(1.16)$ $V$ $V$ $N$ $2,199$ $2,199$ $324$ $330$ $404$ Boys 7 – 17 yearsPaid work last 7 days $0.019$ $0.017$ $0.002$ $0.006$ $0.015$ $0.009$ $(1.52)$ $(1.34)$ $(0.32)$ $V$ $V$ $V$ $V$ $N$ $2,609$ $2,609$ $383$ $327$ $512$ Girls 7 – 17 years $V$ $V$ $V$ $V$ $V$ $V$ $V$ $N$ $2,609$ $0.007$ $0.008$ $0.000$ $0.014$ $0.010$ $V$ <td>Paid work last 7 days</td> <td>0.017**</td> <td>0.020**</td> <td>-0.003</td> <td>0.000</td> <td>0.005</td> <td>0.000</td>	Paid work last 7 days	0.017**	0.020**	-0.003	0.000	0.005	0.000
Weeks worked (job last 7 days) $0.363^*$ $0.207^{**}$ $0.156$ $0.000$ $0.215$ $0.002$ $N$ $2,740$ $2,740$ $398$ $343$ $512$ Children 13 – 17years $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ $(0.24)$ $(0.92)$ $(0.43)$ $0.006$ $0.544$ $0.160$ Weeks worked $0.547^*$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ (job last 7 days) $(1.93)$ $(1.35)$ $(1.16)$ $N$ $2,199$ $324$ $330$ $404$ Boys 7 – 17 yearsPaid work last 7 days $0.019$ $0.017$ $0.002$ $0.006$ $0.015$ $0.009$ $(1.52)$ $(1.34)$ $(0.32)$ $0.015$ $0.009$ $0.017$ $0.002$ $0.006$ $0.015$ $0.009$ $(1.52)$ $(1.34)$ $(0.32)$ $0.011$ $0.111$ $0.111$ $0.111$ $0.111$ $0.011$ $0.017$ $0.002$ $0.000$ $0.011$ $0.111$ $(job last 7 days)$ $(1.78)$ $(1.06)$ $(1.27)$ $N$ $2,609$ $383$ $327$ $512$ Girls 7 - 17 yearsPaid work last 7 days $0.009$ $0.017^{**}$ $-0.008$ $0.000$ $0.014$ $0.010$ $(0.77)$ $(2.02)$ $(0.53)$ $N$ $0.326$ $0.015$ $N$ Weeks worked $0.494^*$ $0.321^{**}$ $0.173$ $0.000$ $0.346$ $0.015$ $N$ $2,330$ <td></td> <td>(2.04)</td> <td>(2.41)</td> <td>(0.49)</td> <td></td> <td></td> <td></td>		(2.04)	(2.41)	(0.49)			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Weeks worked	0.363*	0.207**	0.156	0.000	0.215	0.002
N2,7402,7402,740398343512Children 13 – 17yearsPaid work last 7 days0.0030.008 $-0.005$ 0.0060.0230.019(0.24)(0.92)(0.43)0.1600.5440.160(job last 7 days)(1.93)(1.35)(1.16)0.0020.0060.0150.009N2,1992,199324330404Boys 7 – 17 yearsPaid work last 7 days0.0190.0170.0020.0060.0150.009(1.52)(1.34)(0.32)0.0920.4110.111(job last 7 days)(1.78)(1.06)(1.27)0.0920.4110.111M2,6092,609383327512Girls 7 - 17 yearsPaid work last 7 days0.0090.017**-0.0080.0000.0140.010N2,6092,609383327512Weeks worked0.494*0.321**0.1730.0000.3460.015(job last 7 days)(1.82)(2.32)(0.54)NN2,3302,330339346404	(job last 7 days)	(1.93)	(2.36)	(0.98)			
Children 13 – 17         years $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ $(0.24)$ $(0.92)$ $(0.43)$ $0.006$ $0.544$ $0.160$ Weeks worked $0.547^*$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ (job last 7 days) $(1.93)$ $(1.35)$ $(1.16)$ $0.005$ $0.006$ $0.015$ $0.009$ N $2,199$ $2,199$ $324$ $330$ $404$ Boys 7 – 17 years $0.019$ $0.017$ $0.002$ $0.006$ $0.015$ $0.009$ Weeks worked $0.425^*$ $0.197$ $0.229$ $0.092$ $0.411$ $0.111$ (job last 7 days) $(1.78)$ $(1.06)$ $(1.27)$ $N$ $2,609$ $2,609$ $383$ $327$ $512$ Girls 7 – 17 years $V$ $V$ $0.009$ $0.017^{**}$ $-0.008$ $0.000$ $0.014$ $0.010$ Weeks worked $0.494^*$ $0.321^{**}$ $0.173$ $0.000$ $0.346$ $0.015$ (job las	N	2,740	2,740		398	343	512
yearsPaid work last 7 days $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ $(0.24)$ $(0.92)$ $(0.43)$ $(0.43)$ $(0.544)$ $0.160$ Weeks worked $0.547*$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ $(job last 7 days)$ $(1.93)$ $(1.35)$ $(1.16)$ $(1.60)$ $(1.93)$ $(1.35)$ $(1.16)$ N $2,199$ $2,199$ $324$ $330$ $404$ Boys 7 - 17 years $(1.52)$ $(1.34)$ $(0.32)$ $(0.32)$ Weeks worked $0.425*$ $0.197$ $0.229$ $0.092$ $0.411$ $0.111$ $(job last 7 days)$ $(1.78)$ $(1.06)$ $(1.27)$ $(1.27)$ $(1.78)$ $(1.06)$ $(1.27)$ N $2,609$ $2,609$ $2,609$ $383$ $327$ $512$ Girls 7 - 17 years $(0.77)$ $(2.02)$ $(0.53)$ $(0.000)$ $0.014$ $0.010$ Weeks worked $0.494*$ $0.321**$ $0.173$ $0.000$ $0.346$ $0.015$ Weeks worked $0.494*$ $0.321**$ $0.173$ $0.000$ $0.346$ $0.015$ $N$ $2,330$ $2,330$ $2,330$ $339$ $346$ $404$	Children 13 – 17						
Paid work last 7 days $0.003$ $0.008$ $-0.005$ $0.006$ $0.023$ $0.019$ $(0.24)$ $(0.92)$ $(0.43)$ $(0.43)$ $(0.547*$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ $(job last 7 days)$ $(1.93)$ $(1.35)$ $(1.16)$ $(1.16)$ $N$ $2,199$ $324$ $330$ $404$ Boys 7 - 17 yearsPaid work last 7 days $0.019$ $0.017$ $0.002$ $0.006$ $0.015$ $0.009$ $(1.52)$ $(1.34)$ $(0.32)$ $(0.32)$ $(0.92)$ $0.411$ $0.111$ $(job last 7 days)$ $(1.78)$ $(1.06)$ $(1.27)$ $N$ $2,609$ $2,609$ $383$ $327$ $512$ Girls 7 - 17 yearsPaid work last 7 days $0.009$ $0.017^{**}$ $-0.008$ $0.000$ $0.014$ $0.010$ $(0.77)$ $(2.02)$ $(0.53)$ $(0.53)$ $N$ $2,330$ $2,330$ $339$ $346$ $404$	years						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Paid work last 7 days	0.003	0.008	-0.005	0.006	0.023	0.019
Weeks worked $0.547^*$ $0.220$ $0.327$ $0.106$ $0.544$ $0.160$ (job last 7 days)(1.93)(1.35)(1.16) $324$ $330$ $404$ <b>Boys 7 - 17 years</b> $324$ $330$ $404$ <b>Boys 7 - 17 years</b> $152$ $(1.34)$ $(0.02)$ $0.006$ $0.015$ $0.009$ (1.52)(1.34)(0.32) $0.092$ $0.411$ $0.111$ (job last 7 days) $(1.78)$ $(1.06)$ $(1.27)$ $N$ $2,609$ $2,609$ $383$ $327$ $512$ <b>Girls 7 - 17 years</b> $V$ $V$ $0.009$ $0.017^{**}$ $-0.008$ $0.000$ $0.014$ $0.010$ (0.77) $(2.02)$ $(0.53)$ $V$ $V$ $V$ $V$ $V$ $V$ Weeks worked $0.494^*$ $0.321^{**}$ $0.173$ $0.000$ $0.346$ $0.015$ $M$ $2,330$ $2,330$ $339$ $346$ $404$		(0.24)	(0.92)	(0.43)			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Weeks worked	0.547*	0.220	0.327	0.106	0.544	0.160
N2,1992,199324330404Boys 7 - 17 years9aid work last 7 days0.0190.0170.0020.0060.0150.009(1.52)(1.34)(0.32)0.0920.4110.111(job last 7 days)(1.78)(1.06)(1.27)383327512 $N$ 2,6092,609383327512Girls 7 - 17 years9aid work last 7 days0.0090.017**-0.0080.0000.0140.010(0.77)(2.02)(0.53)0.0000.3460.0150.015Weeks worked0.494*0.321**0.1730.0000.3460.015(job last 7 days)(1.82)(2.32)(0.54)339346404	(job last 7 days)	(1.93)	(1.35)	(1.16)			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	N	2,199	2,199		324	330	404
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Boys 7 – 17 years						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Paid work last 7 days	0.019	0.017	0.002	0.006	0.015	0.009
Weeks worked $0.425^*$ $0.197$ $0.229$ $0.092$ $0.411$ $0.111$ (job last 7 days) $(1.78)$ $(1.06)$ $(1.27)$ $383$ $327$ $512$ N $2,609$ $2,609$ $383$ $327$ $512$ Girls 7 - 17 yearsPaid work last 7 days $0.009$ $0.017^{**}$ $-0.008$ $0.000$ $0.014$ $0.010$ $(0.77)$ $(2.02)$ $(0.53)$ $0.000$ $0.346$ $0.015$ Weeks worked $0.494^*$ $0.321^{**}$ $0.173$ $0.000$ $0.346$ $0.015$ (job last 7 days) $(1.82)$ $(2.32)$ $(0.54)$ $0.339$ $346$ $404$	·	(1.52)	(1.34)	(0.32)			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Weeks worked	0.425*	0.197	0.229	0.092	0.411	0.111
N2,6092,609383 $327$ $512$ Girls 7 - 17 years90.0090.017**-0.0080.0000.0140.010(0.77)(2.02)(0.53)0.0000.3460.015Weeks worked0.494*0.321**0.1730.0000.3460.015(job last 7 days)(1.82)(2.32)(0.54) $339$ $346$ $404$	(job last 7 days)	(1.78)	(1.06)	(1.27)			
Girls 7 – 17 yearsPaid work last 7 days $0.009$ $0.017^{**}$ $-0.008$ $0.000$ $0.014$ $0.010$ $(0.77)$ $(2.02)$ $(0.53)$ Weeks worked $0.494^*$ $0.321^{**}$ $0.173$ $0.000$ $0.346$ $0.015$ (job last 7 days) $(1.82)$ $(2.32)$ $(0.54)$ $0.339$ $346$ $404$	N	2,609	2,609		383	327	512
Paid work last 7 days       0.009       0.017**       -0.008       0.000       0.014       0.010         (0.77)       (2.02)       (0.53)       0.000       0.346       0.015         Weeks worked       0.494*       0.321**       0.173       0.000       0.346       0.015         (job last 7 days)       (1.82)       (2.32)       (0.54)       0.54       0.015         N       2,330       2,330       339       346       404	Girls 7 – 17 years						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Paid work last 7 days	0.009	0.017**	-0.008	0.000	0.014	0.010
Weeks worked0.494*0.321**0.1730.0000.3460.015(job last 7 days)(1.82)(2.32)(0.54)7100010001000N2,3302,330339346404		(0.77)	(2.02)	(0.53)			
(job last 7 days) (1.82) (2.32) (0.54) N 2,330 2,330 339 346 404	Weeks worked	0.494*	0.321**	0.173	0.000	0.346	0.015
N 2,330 2,330 339 346 404	(job last 7 days)	(1.82)	(2.32)	(0.54)			
	N	2,330	2,330		339	346	404

Table A.6.2.9: The ATT impact of LEAP on children's work in the last 7 days, by age and sex

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated	Endline Control	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated	Endline Control
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
	(1)	-/ Fe	emale-heade	d househol	ds	(0)		(0)	Male-headed	household	(11) S	(1-)
Paid work last 7 days	0.014	0.032**	-0.018*	0.002	0.015	0.012	-0.003	-0.004	0.001	0.004	0.013	0.003
	(1.02)	(2.58)	(1.70)				(-0.32)	(-0.80)	(0.12)			
Weeks worked (job	0.414	0.448***	-0.034	0.000	0.364	0.109	0.164	-0.170	0.335	0.117	0.396	0.011
last 7 days)	(1.46)	(2.69)	(0.13)				(0.60)	(-1.26)	(1.45)			
Ν	2,441	2,441		417	381	415	2,498	2,498		305	292	501
		Small h	ouseholds (4	4 or less me	embers)			Large h	ouseholds (5	or more m	embers)	
Paid work last 7 days	-0.002	0.071**	-0.073**	0.000	0.006	0.016	0.011*	0.003	0.008	0.003	0.018	0.003
	(-0.05)	(2.54)	(2.55)				(1.89)	(0.51)	(1.07)			
Weeks worked (job	0.297	1.090**	-0.793**	0.000	0.083	0.103	0.384**	0.033	0.352**	0.055	0.495	0.053
last 7 days)	(0.67)	(2.26)	(2.26)				(2.27)	(0.47)	(2.06)			
Ν	986	986		81	172	286	3,953	3,953		641	501	630
			Poorest ho	ouseholds					Less poor h	nouseholds		
Paid work last 7 days	0.010	-0.006*	0.016**	0.004	0.024	0.008	0.006	0.019	-0.013	0.000	0.004	0.010
	(1.37)	(-1.81)	(2.46)				(0.42)	(0.99)	(0.76)			
Weeks worked (job	0.408**	-0.078	0.486**	0.072	0.694	0.079	0.016	0.240	-0.224	0.000	0.007	0.072
last 7 days)	(2.01)	(-1.18)	(2.59)				(0.09)	(0.91)	(1.09)			
Ν	2,937	2,937		486	374	499	2,002	2,002		236	299	417

Table A.6.2.10: The ATT impact of LEAP on children's work, by sex of the head, household size and baseline consumption (children 7 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. Sex and age group subgroups use region fixed effects instead of cluster fixed effects. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

# Appendix A.7 Adult health impacts: sub-group and ATT results

# A.7.1 NHIS enrolment, ever and current- adults

Table A.7.1.1: NHIS enrolmen	t - by sex	of the he	ead of hou	sehold
------------------------------	------------	-----------	------------	--------

			Female heade	d household	ls				Male headed	households	5	
Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control	Impact	Impact	(EL-ML)	Treated	Treated	Control
				Mean	Mean	Mean				Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
HH has at least	0.062	0.123**	-0.061*	0.715	0.959	0.907	0.047	0.037	0.010	0.741	0.950	0.864
one member ever	(1.15)	(2.17)	(1.66)				(0.73)	(0.82)	(0.17)			
NHIS insurance												
HH with all	0.137**	0.105**	0.032	0.424	0.664	0.572	0.120*	-0.026	0.146**	0.393	0.668	0.507
members ever	(2.21)	(2.39)	(0.67)				(1.78)	(-0.38)	(2.46)			
NHIS insurance		× ,					, , ,	× ,				
HH has at least	0.194***	0.185**	0.009	0.402	0.778	0.741	0.161**	0.133*	0.029	0.437	0.755	0.649
one member with valid NHIS insurance	(3.21)	(2.58)	(0.12)				(2.27)	(1.97)	(0.42)			
HH has all	0.078	0.061	0.017	0.195	0.301	0.343	-0.030	0.012	-0.042	0.166	0.296	0.299
members with	(1.35)	(1.27)	(0.29)	01170	01001	01010	(-0.48)	(0.17)	(0.61)	01100	0.200	0//
valid NHIS insurance												
HH with member	0.079	0.166***	-0.087	0.524	0.893	0.853	0.085	0.122*	-0.037	0.556	0.872	0.785
who ever	(1.22)	(3.10)	(1.65)				(1.19)	(1.74)	(0.65)			
benefitted from												
NHIS												
N	2,148	2,148		338	338	378	1,902	1,902		240	240	394

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance: \*\*\* 1% significance.

			Small ho	useholds					Large ho	useholds		
Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control	Impact	Impact	(EL-ML)	Treated	Treated	Control
				Mean	Mean	Mean				Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
HH has at least	0.016	-0.005	0.021	0.702	0.944	0.884	0.103*	0.191***	-0.088*	0.750	0.968	0.897
one member ever	(0.34)	(-0.11)	(0.50)				(1.86)	(3.15)	(1.77)			
NHIS insurance												
HH with all	0.128*	0.052	0.076	0.508	0.674	0.621	0.109*	0.071	0.038	0.305	0.656	0.467
members ever	(1.69)	(1.04)	(1.18)				(1.67)	(1.25)	(0.64)			
NHIS insurance												
HH has at least	0.093	0.020	0.073	0.410	0.721	0.707	0.264***	0.330***	-0.067	0.424	0.820	0.704
one member with	(1.43)	(0.27)	(0.87)				(4.07)	(4.58)	(1.29)			
valid NHIS												
insurance												
IIII has all	0.054	0.026	0.019	0.265	0.220	0.401	0.010	0.001	0.071	0.004	0.255	0.245
HH has all	0.054	(0.036)	0.018	0.265	0.339	0.401	0.010	(1, (2))	-0.071	0.094	0.255	0.245
members with	(0.70)	(0.57)	(0.26)				(0.21)	(1.03)	(1.20)			
insurance												
insurance												
HH with member	0 138**	0 185***	-0.046	0 466	0.858	0.828	0.023	0 116**	-0.092**	0.614	0.913	0.826
who ever	(2.44)	(3 30)	(1.07)	0.100	0.050	0.020	(0.39)	(1.97)	(2.05)	0.011	0.715	0.020
benefitted from	(2)	(5.50)	(1.07)				(0.07)	(1.77)	(2.00)			
NHIS												
N	1.953	1.953		275	275	376	2.097	2.097		303	303	396

#### Table A.7.1.2: NHIS enrolment – by household size

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance: \*\*\* 1% significance.

			50% poorest	households					50% less poo	r household	S	
Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control	Impact	Impact	(EL-ML)	Treated	Treated	Control
				Mean	Mean	Mean				Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
HH has at least	0.064	0.111**	-0.047	0.720	0.944	0.903	0.055	0.074	-0.020	0.731	0.967	0.876
one member ever NHIS insurance	(1.23)	(2.04)	(0.99)				(1.00)	(1.44)	(0.47)			
HH with all	0.138**	0.030	0.107**	0.334	0.613	0.529	0.122*	0.061	0.061	0.490	0.719	0.567
members ever	(2.15)	(0.52)	(2.14)				(1.70)	(1.29)	(1.04)			
NHIS Insurance												
HH has at least	0.212***	0.259***	-0.047	0.376	0.760	0.751	0.159**	0.083	0.076	0.458	0.777	0.657
one member with	(3.99)	(3.45)	(0.73)				(2.28)	(1.03)	(1.01)			
insurance												
HH has all	0.028	0.057	-0.029	0.110	0.260	0.368	0.050	0.034	0.016	0.257	0.338	0.282
members with	(0.55)	(1.17)	(0.54)				(0.62)	(0.63)	(0.22)			
insurance												
HH with member	0.042	0.121**	-0.079**	0.534	0.868	0.844	0.119*	0.178***	-0.059	0.540	0.901	0.810
who ever	(0.95)	(2.32)	(2.06)				(1.71)	(2.79)	(1.12)			
benefitted from												
NHIS												
Ν	1.956	1.956		292	292	360	2.094	2.094		286	286	412

#### Table A.7.1.3: NHIS enrolment – by baseline consumption

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance: \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
HH has at least one member ever NHIS insurance	-0.035 (-0.66)	-0.013 (-0.25)	-0.022 (-0.70)	0.742	0.957	0.901
HH with all members ever NHIS insurance	0.004 (0.07)	-0.051 (-0.83)	0.055 (1.22)	0.418	0.676	0.628
HH has at least one member with valid NHIS insurance	0.091* (1.77)	0.137** (2.52)	-0.046 (0.93)	0.435	0.784	0.708
HH has all members with valid NHIS insurance	0.016 (0.39)	0.047 (1.08)	-0.031 (0.61)	0.191	0.302	0.312
HH with member who ever benefitted from NHIS	-0.087 (-1.57)	-0.041 (-0.80)	-0.047 (1.37)	0.583	0.883	0.839
Ν	4,050	4,050		518	518	832

Table A.7.1.4: ATT impact of LEAP on household-level NHIS enrolment

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	n Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
All adults						
Individual ever enrolled	-0.080	-0.092	0.012	0.570	0.844	0.813
in NHIS	(-1.04)	(-1.18)	(0.36)			
Ν	9,055	9,055		1,126	1,273	1,885
Has valid NHIS	-0.027	0.038	-0.064			
insurance for current vear	(-0.51)	(0.72)	(1.55)	0.298	0.529	0.572
N	9,055	9,055		1,126	1,273	1,885
Number of times used	-0.903**	-0.175	-0.728*	2.812	2.301	2.205
NHIS card in last 12	(-2.13)	(-0.38)	(1.96)			
months						
Ν	3,788	3,788		341	687	879
Adults 18 – 54 years						
Individual ever enrolled	-0.062	-0.079	0.018	0.464	0.806	0.775
in NHIS	(-0.54)	(-0.68)	(0.43)			
Ν	5,530	5,530		599	747	1,223
Has valid NHIS	0.025	0.054	0.090*			
insurance for current	-0.033	(0.034)	-0.089	0.214	0.460	0.550
year	(-0.49)	(0.71)	(1.74)			
Ν	5,530	5,530		599	747	1,223

Table A.7.1.5: ATT impact on individual NHIS current enrolment – by age §	group
---	-------

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	n Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Adults 18 – 54 years						
(cont'd)						
Number of times used NHIS	-0.042	0.188	-0.230	1.969	1.827	1.390
card in last 12 months	(-0.08)	(0.33)	(0.78)			
Ν	1,949	1,949		130	350	495
Adults 55+ years						
Individual ever enrolled in	-0.087*	-0.070	-0.017	0.683	0.895	0.894
NHIS	(-1.89)	(-01.48)	(0.44)			
Ν	3,525	3,525		527	526	662
Has valid NHIS insurance	0.030	0.033	-0.004	0 297	0.624	0 6 1 7
for current year	(0.58)	(0.58)	(0.06)	0.587	0.624	0.017
Ν	3,525	3,525		527	526	662
Number of times used NHIS	-1.371**	0.013	-1.384*	3.306	2.778	3.754
card in last 12 months	(-2.51)	(0.02)	(1.89)			
N	1,839	1,839		211	337	384

Table A.7.1.5: ATT impact on individual NHIS current enrolment – by age group (continued)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

## A.7.2 Self-reported health status- adults

|--|

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated	Endline Treated	Endline Control
	(1)	(2)	(3)=(1)-(2)	Mean (4)	Mean (5)	Mean (6)
Self-assessed	0.003	0.116***	-0.113***	0.736	0.714	0.824
health	(0.12)	(3.82)	(3.38)			
Ν	8,965	8,965		1,066	1,272	1,882
Can easily carry	0.102***	0.058*	0.044	0.561	0.583	0.691
a heavy load	(3.47)	(1.95)	(1.54)			
Ν	8,890	8,890		1,011	1,272	1,882

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

			Adults ag	ed 18-54			Adults aged 55 or older						
Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline	Endline	Midline	Impact Diff	Baseline	Endline	Endline	
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control	Impact	Impact	(EL-ML)	Treated	Treated	Control	
				Mean	Mean	Mean				Mean	Mean	Mean	
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)	
Self-assessed	0.058**	0.106***	-0.047*	0.853	0.911	0.942	-0.014	0.140**	-0.154**	0.616	0.446	0.572	
healthy	(2.47)	(5.16)	(1.94)				(-0.30)	(2.36)	(2.47)				
Ν	5,466	5,466		563	746	1,220	3,499	3,499		503	526	662	
Can easily carry	0.180***	0.173***	0.007	0.706	0.879	0.905	0.030	-0.027	0.057	0.416	0.179	0.237	
a heavy load	(4.72)	(4.34)	(0.24)				(0.60)	(-0.45)	(1.18)				
Ν	5,414	5,414		525	746	1,220	3,476	3,476		486	526	662	

### Table A.7.2.2: ATT impact on self-reported health status, by adult age group

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

#### Table A.7.2.3: ATT impact on self-reported health status, by sex

			Adult fe	emales			Adult males						
Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline	Endline	Midline	Impact Diff	Baseline	Endline	Endline	
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control	Impact	Impact	(EL-ML)	Treated	Treated	Control	
				Mean	Mean	Mean				Mean	Mean	Mean	
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)	
Self-assessed	0.026	0.145***	-0.119***	0.707	0.685	0.791	-0.053	0.060*	-0.113***	0.785	0.764	0.876	
healthy	(0.72)	(3.62)	(2.86)				(-1.59)	(1.91)	(3.13)				
Ν	5,515	5,515		663	804	1,119	3,450	3,450		403	468	763	
Can easily carry	0.122***	0.055	0.068*	0.544	0.538	0.619	0.086**	0.064*	0.022	0.589	0.660	0.808	
a heavy load	(3.30)	(1.52)	(1.74)				(2.40)	(1.68)	(0.77)				
N	5,469	5,469		628	804	1,119	3,421	3,421		383	468	763	

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance: \*\*\* 1% significance.

#### A.7.3 Morbidity and service use-adults

Table A.7.3.1: Adult morbidity and service use, by age

	Adults 18 – 54 years							Adults 55+ years					
Dependent	Endline	Midline	Midline	Midline	Endline	Endline	Endline	Midline	Midline	Midline	Endline	Endline	
Variable	Impact	Impact	Treated	Control	Treated	Control	Impact	Impact	Treated	Control	Treated	Control	
			Mean	Mean	Mean	Mean			Mean	Mean	Mean	Mean	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
Any illness or injury	-0.025	-0.009	0.122	0.118	0.185	0.207	-0.048	-0.027	0.391	0.475	0.403	0.453	
in past four weeks	(-1.01)	(-0.38)					(-1.13)	(-0.51)					
Ν	1,970	1,892	772	1,120	850	1,120	1,188	1,184	582	602	557	631	
Sought care if ill or	0.050	-0.125*	0.526	0.702	0.688	0.674	0.093	0.144**	0.663	0.538	0.651	0.606	
sick	(0.71)	(-1.73)					(1.25)	(2.31)					
Ν	369	229	95	134	154	215	501	438	214	224	219	282	

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

#### Table A.7.3.2: Adult morbidity and service use, by sex

	Females							Males					
Dependent	Endline	Midline	Midline	Midline	Endline	Endline	Endline	Midline	Midline	Midline	Endline	Endline	
Variable	Impact	Impact	Treated	Control	Treated	Control	Impact	Impact	Treated	Control	Treated	Control	
			Mean	Mean	Mean	Mean			Mean	Mean	Mean	Mean	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
Any illness or injury	-0.067*	-0.044	0.277	0.319	0.314	0.385	0.016	0.006	0.185	0.162	0.205	0.165	
in past four weeks	(-1.86)	(-1.25)					(0.55)	(0.16)					
Ν	1,925	1,889	847	1,042	873	1,052	1,233	1,187	507	680	534	699	
Sought care if ill or	0.047	0.098	0.647	0.562	0.688	0.659	0.114	-0.102	0.570	0.652	0.610	0.514	
sick	(0.72)	(1.51)					(1.29)	(-1.17)					
Ν	627	475	221	254	267	360	243	192	88	104	106	137	

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Midline Treatment Mean	Midline Control Mean	Endline Treated Mean	Endline Control Mean
	(1)	(2)	(3)	(4)	(5)	(6)
Any illness or injury in past four weeks	-0.053** (-2.21)	-0.055** (-1.99)	0.234	0.266	0.272	0.286
N	3,158	3,076	1,217	1,859	1,273	1,885
Sought care if ill or	0.050	-0.025	0.621	0.642	0.671	0.678
sick	(0.83)	(-0.39)				
Ν	870	667	269	398	334	536

Table A.7.3.3: ATT impact on adult morbidity and service use

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

		Adults 18 – 54 years							Adults 55+ years					
Dependent	Endline	Midline	Midline	Midline	Endline	Endline	Endline	Midline	Midline	Midline	Endline	Endline		
Variable	Impact	Impact	Treated	Control	Treated	Control	Impact	Impact	Treated	Control	Treated	Control		
			Mean	Mean	Mean	Mean			Mean	Mean	Mean	Mean		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		
Any illness or injury	-0.054**	-0.009	0.120	0.132	0.174	0.214	-0.042	-0.071	0.370	0.478	0.406	0.440		
in past four weeks	(-2.44)	(-0.40)					(-0.93)	(-1.49)						
Ν	1,970	1,892	682	1,210	747	1,223	1,188	1,184	535	649	526	662		
Sought care if ill or	0.038	-0.188**	0.543	0.680	0.712	0.706	0.096	0.062	0.652	0.626	0.647	0.648		
sick	(0.62)	(-2.01)					(1.37)	(1.02)						
Ν	369	229	82	147	127	242	501	438	187	251	207	294		

#### Table A.7.3.4: ATT impact on adult morbidity and service use, by age

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance

### Table A.7.3.5: ATT impact on adult morbidity and service use, by sex

			Fem	ales			Males					
Dependent	Endline	Midline	Midline	Midline	Endline	Endline	Endline	Midline	Midline	Midline	Endline	Endline
Variable	Impact	Impact	Treated	Control	Treated	Control	Impact	Impact	Treated	Control	Treated	Control
			Mean	Mean	Mean	Mean			Mean	Mean	Mean	Mean
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Any illness or injury	-0.066*	-0.042	0.269	0.297	0.314	0.329	-0.029	-0.066*	0.173	0.213	0.199	0.218
in past four weeks	(-1.70)	(-1.11)					(-0.80)	(-1.68)				
Ν	1,925	1,889	768	1,121	804	1,121	1,233	1,187	449	738	469	764
Sought care if ill or	0.036	-0.021	0.638	0.648	0.687	0.699	0.053	0.020	0.577	0.629	0.629	0.626
sick	(0.59)	(-0.27)					(0.68)	(0.24)				
Ν	627	475	197	278	244	383	243	192	72	120	90	153

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.
Dependent	Endline	Midline	Midline	Midline	Endline	Endline
Variable	Impact	Impact	Treatment	Control	Treated	Control
			Mean	Mean	Mean	Mean
	(1)	(2)	(3)	(4)	(5)	(6)
All adults						
Hospitalized in last 12	-0.024	-0.039**	0.043	0.074	0.070	0.082
months	(-1.54)	(-2.24)				
Ν	3,158	3,077	1,218	1,859	1,273	1,885
Adults 18 – 54 years						
Hospitalized in last 12	0.007	-0.027*	0.017	0.049	0.048	0.032
months	(0.37)	(-1.78)				
Ν	1,970	1,892	682	1,210	747	1,223
Adults 55+ years						
Hospitalized in last 12	-0.085**	-0.043	0.075	0.113	0.100	0.187
months	(-2.47)	(-1.57)				
Ν	1,188	1,185	536	649	526	662
Female adults						
Hospitalized in last 12	-0.031	-0.010	0.054	0.055	0.081	0.104
months	(-1.65)	(-0.64)				
Ν	1,925	1,890	769	1,121	804	1,121
Male adults						
Hospitalized in last 12	-0.012	-0.101***	0.024	0.107	0.051	0.046
months	(-0.64)	(-3.25)				
Ν	1,233	1,187	449	738	469	764

Table A.7.3.6: ATT impact on adult hospitalization

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff (EL-ML)	Baseline Treated Mean	Endline Treated	Endline Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
All adults						
Health	-5.703**	-5.941	0.238	5.907	12.418	15.526
expenditures in	(-2.25)	(-1.35)	(0.05)			
(deflated)						
(deffated)	9.055	9.055		1 1 2 6	1 273	1 885
Adults 18 – 54	2,055	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1,120	1,275	1,005
vears						
Health	-7.047***	-2.329	-4.718**	4.821	6.281	11.570
expenditures in	(-2.99)	(-1.03)	(2.10)			
last 4 weeks						
(deflated)						
N	5,530	5,530		599	747	1,223
Adults 55+						
years	2.062	9.440	5 496	7.057	20.709	22.041
Health	-2.963	-8.449	5.486	7.057	20.798	23.941
last 4 weeks	(-0.00)	(-0.83)	(0.31)			
(deflated)						
N	3.525	3.525		527	526	662
Female adults	-,	-,				
Health	-8.852***	0.902	-9.754***	5.923	11.905	17.161
expenditures in	(-2.82)	(0.23)	(2.88)			
last 4 weeks						
(deflated)						
Ν	5,573	5,573		700	804	1,121
Male adults	1 (00) (	20.062*	10.044	<b>7</b> 001	12 200	10.005
Health	-1.698 (-	-20.063*	18.364	5.881	13.308	12.905
expenditures in	0.42)	(-1.75)	(1.35)			
(deflated)						
N	3,482	3,482		426	469	764

Table A.7.3.7: ATT impact of LEAP on expenditures in health

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

## Appendix A.8 Impacts on child health: sub-group and ATT results

## A.8.1 NHIS enrolment, ever and current- children

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean		
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)		
	Female-headed households								Male-headed households					
Individual enrolment	0.051	0.247***	-0.196**	0.522	0.803	0.737	0.220**	0.118*	0.101	0.505	0.832	0.637		
in NHIS	(0.59)	(2.97)	(2.48)				(2.11)	(1.69)	(1.27)					
Valid NHIS insurance	-0.032	0.163*	-0.195**	0.262	0.554	0.544	0.229**	0.210***	0.019	0.201	0.596	0.451		
for current year	(-0.37)	(1.94)	(2.10)				(2.43)	(2.80)	(0.22)					
Ν	3,404	3,404		581	553	547	3,729	3,729		533	458	691		
Small households (4 or less members)								Large h	ouseholds (5	or more m	embers)			
Individual enrolment	0.093	0.116	-0.023	0.467	0.798	0.737	0.213**	0.236***	-0.024	0.521	0.825	0.683		
in NHIS	(1.01)	(1.13)	(0.27)				(2.44)	(3.74)	(0.35)					
Valid NHIS insurance	-0.148*	-0.035	-0.113	0.278	0.570	0.562	0.155*	0.223***	-0.068	0.227	0.573	0.487		
for current year	(-1.68)	(-0.35)	(0.96)				(1.93)	(3.40)	(0.99)					
Ν	1,446	1,446		127	320	362	5,687	5,687		987	691	876		
			Poorest ho	ouseholds					Less poor h	nouseholds		<u> </u>		
Individual enrolment	0.226***	0.292***	-0.065	0.476	0.779	0.682	0.094	0.061	0.034	0.589	0.858	0.724		
in NHIS	(2.63)	(4.45)	(0.90)				(1.09)	(0.74)	(0.55)					
Valid NHIS insurance	0.147*	0.280***	-0.133*	0.197	0.540	0.518	0.093	0.013	0.080	0.306	0.609	0.495		
for current year	(1.87)	(3.99)	(1.79)				(1.05)	(0.16)	(1.01)					
Ν	4,287	4,287		737	548	707	2,846	2,846		377	463	531		

Table A.8.1.1: Impact of LEAP on children's NHIS enrolment, by sex of the head, household size and baseline consumption (0 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. Sex and age group subgroups use region fixed effects instead of cluster fixed effects. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance;

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated	Treated	Control
	_	-		Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
<b>Children 0 – 17 years</b> (N	(=7,133)					
Individual enrolment	0.000	0.057	-0.056	0.535	0.815	0.767
in NHIS	(0.00)	(0.74)	(1.31)			
Valid NHIS insurance	-0.003	0.150***	-0.153***	0.244	0.556	0.625
for current year	(-0.05)	(2.64)	(2.86)			
<b>Children 0 – 5 years</b> ( <i>N</i> =	:1,791)					
Individual enrolment	0.152	0.223*	-0.071	0.503	0.732	0.705
in NHIS	(1.30)	(1.89)	(0.88)			
Valid NHIS insurance	0.131	0.200*	-0.069	0.256	0.593	0.640
for current year	(1.35)	(1.71)	(0.72)			
<b>Children 6 – 17 years</b> ( <i>N</i>	(=5,342)					
Individual enrolment	-0.022	0.025	-0.047	0.546	0.839	0.786
in NHIS	(-0.25)	(0.34)	(0.98)			
Valid NHIS insurance	-0.024	0.140**	-0.164***	0.240	0.546	0.620
for current year	(-0.34)	(2.47)	(2.95)			
<b>Boys 0 – 17 years</b> ( <i>N</i> =3,7	714)					
Individual enrolment	0.049	0.043	0.006	0.539	0.798	0.751
in NHIS	(0.53)	(0.46)	(0.11)			
Valid NHIS insurance	0.055	0.161**	-0.107*	0.241	0.517	0.616
for current year	(0.75)	(2.19)	(1.65)			
<b>Girls 0 – 17 years</b> ( <i>N</i> =3,4	419)					
Individual enrolment	-0.038	0.059	-0.097*	0.530	0.831	0.789
in NHIS	(-0.37)	(0.72)	(1.71)			
Valid NHIS insurance	-0.032	0.133**	-0.165**	0.248	0.592	0.637
for current year	(-0.43)	(2.03)	(2.45)			

Table A.8.1.2: ATT impact of LEAP on children's NHIS enrolment, by age and sex

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

Dependent Variable	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	Endline Impact	Midline Impact	Impact Diff	Baseline Treated Mean	Endline Treated Mean	Endline Control Mean	
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)	
	Female-headed households							Male-headed households					
Individual enrolment in NHIS	-0.006	0.085	-0.091	0.541	0.798	0.795	0.012	0.042	-0.030	0.527	0.837	0.717	
	(-0.07)	(0.82)	(1.17)				(0.14)	(0.77)	(0.41)				
Valid NHIS insurance for	-0.054	0.147**	-0.202**	0.257	0.527	0.656	0.020	0.139**	-0.119*	0.227	0.594	0.570	
current year	(-0.61)	(2.09)	(1.98)				(0.27)	(2.54)	(1.71)				
Ν	3,404	3,404		600	508	592	3,729	3,729		456	409	740	
Small households (4 or less members)								Large h	ouseholds (5	or more m	embers)		
Individual enrolment in NHIS	-0.111	-0.142	0.031	0.500	0.808	0.819	0.038	0.084	-0.045	0.539	0.818	0.725	
	(-1.15)	(-1.17)	(0.40)				(0.39)	(1.08)	(0.84)				
Valid NHIS insurance for	-0.247***	-0.047	-0.200*	0.321	0.535	0.685	0.024	0.145**	-0.121**	0.235	0.565	0.576	
current year	(-2.78)	(-0.50)	(1.70)				(0.29)	(2.11)	(2.26)				
Ν	1,446	1,446		107	245	437	5,687	5,687		949	672	895	
			Poorest ho	ouseholds					Less poor h	nouseholds			
Individual enrolment in NHIS	0.095	0.179**	-0.084	0.502	0.786	0.755	-0.041	-0.043	0.002	0.600	0.850	0.783	
	(1.16)	(2.36)	(1.26)				(-0.53)	(-0.60)	(0.04)				
Valid NHIS insurance for	0.035	0.241***	-0.206***	0.205	0.520	0.629	-0.023	0.013	-0.035	0.323	0.599	0.620	
current year	(0.48)	(3.87)	(2.79)				(-0.33)	(0.21)	(0.55)				
Ν	4,287	4,287		706	504	751	2,846	2,846		350	413	581	

Table A.8.1.3: ATT impact of LEAP on children's NHIS enrolment, by sex of the head, household size and baseline consumption (0 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

## A.8.2 Morbidity and service use- children

Dependent	Endline	Midline	Midline	Midline	Endline	Endline	Endline	Midline	Midline	Midline	Endline	Endline	
Variable	Impact	Impact	Treated	Control	Treated	Control	Impact	Impact	Treated	Control	Treated	Control	
	1	1	Mean	Mean	Mean	Mean		1	Mean	Mean	Mean	Mean	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
			Female-head	ed household	1		Male-headed household						
Children 0 – 17 years													
Sick/injured last 4	0.027	0.003	0.106	0.134	0.172	0.211	0.067**	0.016	0.101	0.096	0.155	0.106	
weeks	(0.64)	(0.10)					(2.18)	(0.57)					
Sought preventive	-0.001	-0.020	0.009	0.023	0.002	0.002	0.000	0.002	0.012	0.002	0.008	0.005	
health services	(-0.33)	(-1.54)					(0.02)	(0.33)					
Ν	1,100	1,070	511	559	553	547	1,149	1,204	474	730	458	691	
Small households (4 or less members)								Large l	nouseholds (	5 or more me	embers)		
Children 0 – 17 year	S												
Sick/injured last 4	0.004	-0.023	0.175	0.208	0.168	0.186	0.037	0.022	0.085	0.101	0.162	0.165	
weeks	(0.08)	(-0.45)					(0.96)	(1.25)					
Sought preventive	-0.004	-0.000	0.006	0.008	0.000	0.005	0.003	-0.005	0.011	0.016	0.007	0.002	
health services	(-1.53)	(-0.02)					(0.87)	(-0.85)					
Ν	682	425	182	243	320	362	1,567	1,849	803	1,046	691	876	
			Poorest h	ouseholds					Less poor l	households			
Children 0 – 17 year	S												
Sick/injured last 4	0.040	0.007	0.083	0.102	0.173	0.160	0.027	-0.004	0.136	0.152	0.155	0.189	
weeks	(0.98)	(0.36)					(0.66)	(-0.11)					
Sought preventive	0.004	-0.016*	0.007	0.020	0.007	0.001	-0.006*	0.013	0.015	0.005	0.002	0.006	
health services	(1.19)	(-1.83)					(-1.69)	(1.27)					
Ν	1,255	1,366	596	770	548	707	994	908	389	519	463	531	

## Table A.8.2.1: Impact of LEAP on child morbidity and use of health services, by sex of the head, household size and baseline consumption (0 – 17 years)

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance.

Dependent	Endline	Midline	Midline	Midline	Endline	Endline
Variable	Impact	Impact	Treatment	Control	Treated	Control
			Mean	Mean	Mean	Mean
	(1)	(2)	(3)	(4)	(5)	(6)
Children 0 – 17 years						
Sick/injured last 4	-0.003	0.046***	0.115	0.090	0.147	0.161
weeks	(-0.11)	(2.99)				
Ν	2,249	2,274	894	1,380	917	1,332
Sought curative care if	0.171**	-0.005	0.616	0.547	0.754	0.676
sick/injured	(2.21)	(-0.05)				
Ν	345	240	103	137	133	212
Sought preventive	0.003	-0.001	0.011	0.011	0.004	0.002
health services	(1.14)	(-0.17)				
Ν	2,249	2,274	894	1,380	917	1,332
Children 0 – 5 years						
Sick/injured last 4	0.016	0.168***	0.218	0.079	0.207	0.263
weeks	(0.25)	(4.01)				
Ν	549	544	209	335	200	349
Sought curative care if	0.052	-0.031	0.718	0.624	0.754	0.725
sick/injured	(0.43)	(-0.26)				
N	133	93	46	47	41	92
Sought preventive	-0.000	-0.023	0.030	0.032	0.000	0.005
health services	(-0.13)	(-0.77)				
Ν	549	544	209	335	200	349
Children 6 – 17 vears						
Sick/injured last 4	0.003	0.015	0.084	0.093	0.129	0.129
weeks	(0.11)	(0.86)				
Ν	1,700	1,730	685	1,045	717	983
Sought curative care if	0.155*	-0.104	0.536	0.527	0.753	0.644
sick/injured	(1.87)	(-0.92)				
N	212	147	57	90	92	120
Sought preventive	0.005	0.001	0.005	0.005	0.005	0.001
health services	(1.44)	(0.28)				
Ν	1,700	1,730	685	1,045	717	983
Boys 0 – 17 years						
Sick/injured last 4	-0.023	0.053***	0.108	0.070	0.119	0.142
weeks	(-0.67)	(2.83)				
Ν	1,182	1,197	456	741	441	741
Sought curative care if	0.132	0.083	0.658	0.606	0.736	0.640
sick/injured	(1.04)	(0.82)				
N	168	127	49	78	52	116
Sought preventive	0.001	0.010	0.016	0.007	0.002	0.002
health services	(0.34)	(1.22)				
Ν	1,182	1,197	456	741	441	741
Girls 0 – 17 years						
Sick/injured last 4	0.007	0.040*	0.123	0.110	0.172	0.187
weeks	(0.17)	(1.97)				
Ν	1,067	1,077	438	639	476	591
Sought curative care if	0.076	0.110	0.579	0.506	0.765	0.714
sick/injured	(0.89)	(0.88)				
Ň	177	113	54	59	81	96
Sought preventive	0.005*	-0.012	0.006	0.015	0.006	0.002
health services	(1.71)	(-0.97)				
Ν	1,067	1,077	438	639	476	591

Table A.8.2.2: ATT Impact of LEAP on child morbidity and use of health services, by age and sex

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

	-			-		-						
Dependent	Endline	Midline	Midline	Midline	Endline	Endline	Endline	Midline	Midline	Midline	Endline	Endline
Variable	Impact	Impact	Treated	Control	Treated	Control	Impact	Impact	Treated	Control	Treated	Control
			Mean	Mean	Mean	Mean			Mean	Mean	Mean	Mean
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		]	Female-head	ed household	1				Male-heade	d household		
Children 0 – 17 yea	rs											
Sick/injured last 4	-0.042	0.057**	0.108	0.086	0.152	0.196	0.051	0.050	0.125	0.094	0.140	0.099
weeks	(-1.06)	(2.31)					(1.44)	(1.58)				
Sought preventive	-0.001	-0.016	0.009	0.019	0.002	0.001	0.006	0.008	0.014	0.001	0.007	0.004
health services	(-0.42)	(-1.06)					(1.03)	(1.23)				
Ν	1,100	1,070	499	571	508	592	1,149	1,204	395	809	409	740
Small households (4 or less members)								Large l	nouseholds (	5 or more me	mbers)	
Children 0 – 17 yea	rs											
Sick/injured last 4	-0.068	0.109***	0.204	0.177	0.127	0.176	0.033	0.052***	0.098	0.063	0.155	0.148
weeks	(-1.35)	(2.66)					(0.94)	(3.07)				
Sought preventive	0.000	0.000	0.008	0.004	0.000	0.002	0.005	-0.000	0.012	0.013	0.006	0.002
health services	(0.03)	(0.03)					(1.18)	(-0.05)				
Ν	682	425	137	288	245	437	1,567	1,849	757	1,092	672	895
			Poorest h	ouseholds					Less poor	households		
Children 0 – 17 yea	rs											
Sick/injured last 4	0.026	0.054**	0.101	0.065	0.158	0.149	-0.051	0.029	0.137	0.126	0.134	0.176
weeks	(0.75)	(2.38)					(-1.52)	(1.14)				
Sought preventive	0.005	-0.014	0.008	0.016	0.006	0.001	0.001	0.012	0.016	0.003	0.002	0.003
health services	(1.08)	(-1.38)					(0.28)	(1.65)				
Ν	1.255	1.366	547	819	504	751	994	908	347	561	413	581

Table A.8.2.3: ATT Impact of LEAP on child morbidity and use of health services, by sex of the head, household size and baseline consumption (0 – 17 years)

Notes: Estimations use cross-sectional modelling at midline and endline among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance

Dependent	Endline	Midline	Impact	Baseline	Endline	Endline	Endline	Midline	Impact	Baseline	Endline	Endline	
Variable	Impact	Impact	Diff	Treated	Treated	Control	Impact	Impact	Diff	Treated	Treated	Control	
				Mean	Mean	Mean				Mean	Mean	Mean	
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)	
Female-headed household								Male-headed household					
Children 0 – 17 years	5												
Real monthly	-1.645	-7.213**	5.568*	2.015	3.277	4.295	3.012	-0.596	3.609**	1.999	3.809	2.355	
health expenditures	(-0.87)	(-2.26)	(1.69)				(1.29)	(-0.36)	(2.19)				
Ν	3,404	3,404		581	553	547	3,729	3,729		533	458	691	
		Small	households (4	4 or less mer	nbers)			Large	households (5	or more me	mbers)		
Children 0 – 17 years	5												
Real monthly	-0.847	-8.857	8.010	4.986	3.610	3.785	1.322	-1.809	3.131*	1.586	3.457	3.461	
health expenditures	(-0.46)	(-1.63)	(1.47)				(0.87)	(-1.43)	(1.77)				
Ν	1,446	1,446		127	320	362	5,687	5,687		987	691	876	
			Poorest ho	ouseholds					Less poor h	ouseholds			
Children 0 – 17 years	5												
Real monthly	1.143	-1.771	2.914	1.056	3.487	2.927	-1.633	-7.714**	6.081*	3.892	3.541	4.530	
health expenditures	(0.81)	(-1.05)	(1.49)				(-0.59)	(-2.46)	(1.88)				
$\overline{N}$	4,287	4,287		737	548	707	2,846	2,846		377	463	531	

Table A.8.2.4: Impact of LEAP on child health expenditures, by sex of the head, household size and baseline consumption (0 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance

Dependent	Endline	Midline	Impact Diff	Baseline	Endline	Endline
Variable	Impact	Impact	(EL-ML)	Treated Mean	Treated Mean	Control Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)
Children 0 – 17 years						
Real monthly health	-0.687	-2.426*	1.739	2.020	3.368	3.010
expenditures	(-0.59)	(-1.73)	(1.13)			
-	7,133	7,133		1,056	917	1,332
Children 0 – 5 years						
Real monthly health	1.739	-0.241	1.980	2.438	4.168	4.243
expenditures	(1.16)	(-0.10)	(0.69)			
	1,791	1,791		268	200	349
Children 6 – 17 years						
Real monthly health	-1.190	-2.600*	1.410	1.878	3.137	2.625
expenditures	(-0.94)	(-1.87)	(0.90)			
-	5,342	5,342		788	717	983
Boys 0 – 17 years						
Real monthly health	0.289	-3.017	3.306	1.860	3.686	2.987
expenditures	(0.17)	(-1.45)	(1.43)			
-	3,714	3,714		540	441	741
Girls 0 – 17 years						
Real monthly health	-1.640	-0.907	-0.733	2.186	3.073	3.044
expenditures	(-1.22)	(-0.83)	(0.58)			
	3,419	3,419		516	476	591

Table A.8.2.5: ATT impact of LEAP on children's health expenditures (in GH¢), by age and sex

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance \*\* 5% significance; \*\*\* 1% significance.

	=				-						-	
Dependent	Endline	Midline	Impact	Baseline	Endline	Endline	Endline	Midline	Impact	Baseline	Endline	Endline
Variable	Impact	Impact	Diff	Treated	Treated	Control	Impact	Impact	Diff	Treated	Treated	Control
	-	_		Mean	Mean	Mean	_	_		Mean	Mean	Mean
	(1)	(2)	(3)=(1)-(2)	(4)	(5)	(6)	(7)	(8)	(9)=(7)-(8)	(10)	(11)	(12)
Female-headed household							Male-headed household					
Children 0 – 17 years	S											
Real monthly	-3.364*	-6.961**	3.597	1.827	2.784	3.684	2.422	0.996	1.426	2.281	4.124	1.828
health expenditures	(-1.83)	(-2.24)	(1.28)				(1.15)	(0.52)	(0.69)			
Ν	3,404	3,404		600	508	592	3,729	3,729		456	409	740
		Small	households (	4 or less men	mbers)			Large	households (5	or more me	mbers)	
Children 0 – 17 years	S											
Real monthly	-1.306	-3.511	2.205	4.711	2.872	3.019	0.697	-1.609	2.306	1.686	3.581	3.004
health expenditures	(-0.74)	(-1.38)	(0.76)				(0.53)	(-1.08)	(1.37)			
Ν	1,446	1,446		107	245	437	5,687	5,687		949	672	895
			Poorest ho	ouseholds					Less poor h	nouseholds		
Children 0 – 17 years	S											
Real monthly	1.052	-1.204	2.256	1.127	3.680	2.302	-3.170	-5.915**	2.745	3.815	3.000	3.939
health expenditures	(0.73)	(-0.58)	(0.97)				(-1.23)	(-2.00)	(0.98)			
N	4,287	4,287		706	504	751	2,846	2,846		350	413	581

Table A.8.2.6: ATT Impact of LEAP on child health expenditures, by sex of the head, household size and baseline consumption (0 – 17 years)

Notes: Estimations use difference-in-differences, cluster fixed effects modelling among panel households and coefficients for binary outcomes are estimated based on a linear probability model. All estimations control for gender, age, baseline head of household's characteristics (age in years, sex, indicator of any schooling, widowhood), presence of an exclusive cooking room at baseline, household demographic composition and size at baseline, baseline presence of cluster-level shocks interacted with age of head. All control variables are also interacted with dummies for wave 2 and wave 3. Robust t-statistics were obtained by clustering at the different levels of the sampling design and are shown in parenthesis. \* 10% significance: \*\*\* 1% significance.

Livelihood Empowerment Against Poverty Programme Endline Impact Evaluation Appendixes

Carolina Population Center University of North Carolina at Chapel Hill 211 B West Cameron Street/ Campus Box 8120 / Chapel Hill, North Carolina 27516-2524