Table 1: Summary Statistics

Variables Count (N) Mean SD Min Max CSI* 132 19.659 13.516 0 56 Lacked Funds for Food (1/0) 132 0.902 0.299 0 1 Insufficient Food Past Year (1/0) 132 0.894 0.309 0 1 Youth (1/0) (24 years and below=1) 132 0.182 0.387 0 1 Age of Respondent (1/0) 1 20.008 0.087 0 1 15-19 years 132 0.008 0.087 0 1 20-24 years 132 0.174 0.381 0 1 20-24 years 132 0.470 0.501 0 1 Asset Index (Binary) 132 0.500 0.502 1 2 Wealth Quintiles (1/0) 132 0.500 0.502 1 2 Wealth Quintile 3 132 0.144 0.352 0 1 Wealth Quintile 4 132 0.197 0.399
Lacked Funds for Food (1/0) 132 0.902 0.299 0 1 Insufficient Food Past Year (1/0) 132 0.894 0.309 0 1 Youth (1/0) (24 years and below=1) 132 0.182 0.387 0 1 Age of Respondent (1/0) 1 15-19 years 132 0.008 0.087 0 1 20-24 years 132 0.174 0.381 0 1 25-39 years 132 0.470 0.501 0 1 25-39 years 132 0.470 0.501 0 1 Asset Index (Binary) 132 1.500 0.502 1 2 Wealth Quintiles (1/0) 1 1 1 2 0.258 0.439 0 1 Wealth Quintile 1 132 0.258 0.439 0 1 1 Wealth Quintile 3 132 0.197 0.399 0 1 Wealth Quintile 6 132 0.197 0.399 0
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Youth (1/0) (24 years and below=1) 132 0.182 0.387 0 1 Age of Respondent (1/0) 15-19 years 132 0.008 0.087 0 1 15-19 years 132 0.174 0.381 0 1 20-24 years 132 0.348 0.478 0 1 ≥-39 years 132 0.348 0.478 0 1 ≥-40 years 132 0.470 0.501 0 1 Asset Index (Binary) 132 1.500 0.502 1 2 Wealth Quintiles (1/0) Wealth Quintiles (1/0) Use (1/0) Use (1/0) Use (1/0) Use (1/0) 0.258 0.439 0 1 1 Wealth Quintile 2 132 0.144 0.352 0 1 1 1 0.205 0.405 0 1 1 0.205 0.405 0 1 0 1 0.205 0 1 0 1 0.205 0 1 0 1 0 1 0 1 0 1 0 1
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Average Time Water (Minutes) 132 21.398 18.663 1 124 Water Cost (MWK) 132 156.212 457.837 0 3,900
Water Cost (MWK) 132 156.212 457.837 0 3,900
Access to Farm/Arable Land (1/0) 132 0.947 0.225 0 1
Size of Owned Land (Acres) 132 1.372 1.176 0 5
Finance Assistance from Anyone (1/0) 132 0.227 0.421 0 1
Food Assistance from a Church (1/0) 132 0.227 0.421 0 1
Government Food Aid Participation (1/0) 132 0.144 0.352 0 1
Religion affects Food Eaten (1/0) 132 0.417 0.495 0 1
Tradition affects Food Eaten (1/0) 132 0.341 0.476 0 1

Notes: a The CSI represents the coping strategy index (ranging from 0 to 56) – which aggregates the number of

coping strategies used by households to reduce the food problem. (1/0) means the variable (or set of variables below it) is binary taking 1 for yes and 0 for no.

Table 2: Wilcoxon-Mann-Whitney Tests of Food Security Measures by Gender and Wealth

Variable	Obs	Rank Sum	Expected	Z	Prob > z	Exact Prob	
Lacked Funds			•				
Female	104	6800	6916	-1.251	0.2109	0.3764	
Male	28	1978	1862	-1.231	0.2109	0.3704	
Insufficient Food							
Female	104	6918	6916	0.021	0.9833	1.0000	
Male	28	1860	1862	0.021	0.9633	1.0000	
CSI							
Female	104	7289.5	6916	2.080**	0.0375	0.0371	
Male	28	1488.5	1862	2.000	0.0373	0.0371	
Lacked Funds							
Asset Index = 1	66	4686	4389	2.619***	0.0088	0.0164	
Asset Index = 2	66	4092	4389	2.017	0.0088	0.0104	
Insufficient Food							
Asset Index = 1	66	4521	4389	1.126	0.2600	0.3973	
Asset Index = 2	66	4257	4389	1.120	0.2000	0.3373	
CSI							
Asset Index = 1	66	4560	4389	0.779	0.4361	0.4380	
Asset Index = 2	66	4218	4389		0.4301		

Notes: Null hypotheses are H_0 : Dependent Variable (Gender==Female) = Dependent Variable (Gender==Male) and H_0 : Dependent Variable (Asset Index==1) = Dependent Variable (Asset Index==2). Asset index is a 2-quantile variable derived from the PCA. * p < 0.10, ** p < 0.05, *** p < 0.01

Table 3: Number of Respondents who Expressed Lack (Cross-Tabulations / Chi-squares)

		Gender			Married		Wealth			Religion		
Variable	Male	Female	Chi2	No	Yes	Chi2	Poorer	Wealthier	Chi2	Muslim	Christian	Chi2
Lacked Funds	27	92	0.298 †	50	69	1.000 [†]	64	55	0.016** †	62	57	0.242 †
for Food												
Insufficient	25	93	1.000	52	66	0.152 †	61	57	0.397 †	62	56	0.156 [†]
Food Past 12												
Months												
CSI ^a	28	104	0.883 †	55	77	0.572 †	66	66	0.021** †	66	66	0.524 †
Total	28	104		55	77		66	66		66	66	
Respondents												

Notes: † means reported value is p-value from Fisher's exact test instead of chi-square statistic (the Fisher's exact test was used in place of the chi-square test when one of the cells in the cross-tabulation has expected frequency of five or less. Fisher's exact test has no "test statistic"; rather computes the p-value directly).

^a CSI has 0 to 56 categories and hence, for lack of space, here we just indicate the overall cross-tabulations by the respective binary variables Wealth is defined by the asset index, derived at by computing 2 quantile categories from principal component analysis. CSI not included in table because it is a continuous variable.

^{*} p < 0.10, ** p < 0.05, *** p < 0.01

Table 4: Religious Beliefs and Food

	Does your religious belief affect the kind of food you eat?				
Religious Group	No	Yes	Total		
Christian	56 (72.73)	10 (18.18)	66 (50.00)		
Islam	21 (27.27)	45 (81.82)	66 (50.00)		
Total	77 (100.00)	55 (100.00)	132 (100.00)		
Po	earson Chi-Square = 38.1818**	* Probability = 0.0	000		

Notes: Cell values are frequencies (with column percentages in parentheses) p < 0.10, p < 0.05, p < 0.01

Table 5: Traditional Beliefs and Ethnicity

	Does your tra	Does your traditional belief affect food eaten?				
Ethnicity	No	Yes	Total			
Yao	34 (39.08)	36 (80.00)	70 (53.03)			
Others	53 (60.92)	9 (20.00)	62 (46.97)			
Total	87 (100.00)	45 (100.00)	132 (100.00)			
	Pearson Chi-Square = 19.937	78^{***} Probability = 0.00	00			

Notes: Cell values are frequencies (with column percentages in parentheses). "Others" includes Ngoni, Chewa, Lhomwe and others.

^{*} p < 0.10, *** p < 0.05, *** p < 0.01

Table 6: Logistic and Tobit Regression Estimation Results

Table V. Logistic and Tobit Regressi	Lack of Funds for Food	Inadequate Food	CSI
	(1)	(2)	(3)
Religion (Christianity=1, Islam=0)	0.000***	0.000***	7.103**
Ethnicity (Yao=1, 0=Other)	0.000^{***}	0.000^{***}	6.265**
Christian × YAO	901,681.225***	794,742.295***	-8.638
Asset Index (Quantile 1 =1)	0.188^{*}	0.777	-1.610
Gender (Male =1, Female=0)	25.539***	1.964	-5.251*
Youth $(1/0)$ (24 years and below=1)	0.371	0.608	-4.650
Highest Education Level (Base Catego	ory =None)		
Primary/Adult Literacy	3.560	3.254	-0.148
Secondary	2.034	6.790^{*}	-2.247
Household Size	0.946	1.215	-0.293
Average Time Water (Minutes)	1.018	1.003	0.179^{*}
Water Cost (MWK)	1.001	1.004	0.001
Land Owned (Acres)	0.562**	0.511***	-0.476
Outside Financial Assistance (1\0)	0.317	0.572	-2.687
Government Food Aid (1\0)	0.077^{***}	0.085^{**}	-4.204
Church Food Assistance (1\0)	43.467**	20.356^{**}	9.284**
const	223,000,000***	5,738,242***	15.723**
chi2 (Logistic) / F (Tobit)	508.955***	770.495***	2.223***
p	0.000	0.000	0.009
N	132	132	132

Notes: Columns 1-2 show exponentiated coefficients (odds ratios) from the Logistic model. _const estimates baseline odds. Column 3 shows regular coefficients from the Tobit model censored both sides (CSI ranges between 0 and 56). All models employ robust standard errors.

^(1/0) means the variable is binary taking 1 for yes and 0 for no – in which case the reference category is 0. $^*p < 0.10, ^{**}p < 0.05, ^{***}p < 0.01$

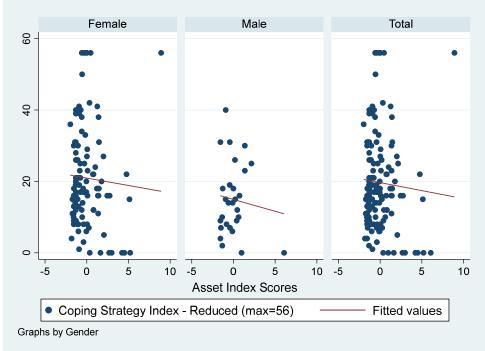


Figure 1: Coping Strategy Index (CSI) and Asset Index Scores, by Gender