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Supplementary Table 1 Survey overview and sample size

Unweigh	ted statistics (Sample)								
Country	Survey Name	Survey Year	Non-agriculture households	Fishing households	Agriculture Households	Total	% of non- agriculture households	% of fishing households	% of agriculture households
Malawi	Fourth Integrated Household Survey	2016-2017	2,096	414	9,937	12,447	16.8%	3.3%	79.8%
Tanzania	National Panel Survey, Wave 4	2014-2015	1,115	136	2,101	3,352	33.3%	4.1%	62.7%
Uganda	National Panel Survey	2010-2011	594	76	2,246	2,916	20.4%	2.6%	77.0%
Total			3,805	626	14,284	18,715	20.3%	3.3%	76.3%
Weighted	d statistics (using probability s	ampling weights)						
Country	Survey Name	Survey Year	Non-agriculture households	Fishing households	Agriculture Households	Total	% of non- agriculture households	% of fishing households	% of agriculture households
Malawi	Fourth Integrated Household Survey	2016-2017	661,378	88,865	3,047,071	3,797,313	17.4%	2.3%	80.2%
Tanzania	National Panel Survey, Wave 4	2014-2015	2,559,630	429,097	7,161,940	10,150,667	25.2%	4.2%	70.6%
Uganda	National Panel Survey	2010-2011	1,325,739	133,244	3,669,974	5,128,957	25.8%	2.6%	71.6%
Total			4,546,746	651,205	13,878,985	19,076,937	23.8%	3.4%	72.8%
Overviev	v of the LSMS surveys used in	the study in Sub	-Saharan Africa						
Country	Survey Name	Survey Year	Total Sample Households ¹	Type of fishing livelihood activities	Number of Fishing Households	Survey livelihood question	Time of year data collected		
Malawi	Fourth Integrated Household Survey	2016-2017	12,447	Harvesting, processing and trade	414	"Did any HH member engage in fishing or fish trading"	Throughout the year		
Tanzania	National Panel Survey, Wave 4	2014-2015	3,352	Harvesting, processing and trade	136	"During the last 12 months, how many of these months did you, or someone in your household, engage in fishing, fish trading, or fish processing activities?"	Throughout the year		
Uganda	National Panel Survey	2010-2011	2,916	Harvesting only	76	"Did anybody in the household practice A: river fishing; B: Natural freshwater pond/lake fishing; C Artificial fishpond fishing; D) swamp fishing"	Throughout the year		
Total			18,715		626				
1	Sample size corresponds to the total number of households inc		=			final number of households including in the prd 2)).	obit regressio	n are slightly le	ss than the

Supplementary Table 1a Estimated probability to be income poor (living below the national poverty line) by quintile of distance to water bodies .

							Pov	erty								
		All co	untries			Mal	awi			Tanz	zania			Uga	anda	
	Nationa	al	Rural		Nationa	al	Rural		Nationa	al	Rural		Nation	al	Rural	i
Quintile of distance to water bodies	Prob. to be poor	Dist.	Prob. to be poor	Dist.	Prob. to be poor	Dist.	Prob. to be poor	Dist.	Prob. to be poor	Dist.	Prob. to be poor	Dist.	Prob. to be poor	Dist.	Prob. to be poor	Dist.
	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km
1	0.339	2.7	0.454	3.3	0.448	4.0	0.465	3.1	0.371	2.2	0.589	3.4	0.193	3.5	0.218	3.6
2	0.288	11.8	0.431	15.7	0.439	20.4	0.536	18.2	0.351	10.5	0.563	17.1	0.121	10.8	0.170	13.1
3	0.373	26.3	0.449	31.3	0.395	35.8	0.546	36.6	0.443	25.5	0.588	32.9	0.206	20.5	0.232	25.9
4	0.427	44.7	0.486	48.3	0.490	50.7	0.537	52.6	0.506	45.5	0.559	50.2	0.233	37.7	0.250	41.7
5	0.491	79.3	0.571	80.9	0.458	74.3	0.501	75.2	0.544	85.9	0.668	88.6	0.303	68.5	0.326	71.6
Mean	0.384	33.1	0.478	36.0	0.446	37.0	0.517	37.1	0.443	33.8	0.593	38.0	0.212	28.5	0.239	31.2
Obs.	18,623	3	14,283	1	12,444	ļ	10,174		3,344		1,978		2,822		2,125	

Note: For each household, the estimated probability to be income poor is calculated as: $Pr(Poor_i = 1) = \Phi(\beta X_i) + e_i$, where Φ is the cumulative normal distribution, X_i is the data vector consisting of observable characteristics for the i-th household, including the distance to water bodies, and β is the vector of coefficient estimates reported in Table 1A. Finally, e_i is the model error term.

Supplementary Table 1b Estimated probability to be food insecure (households with below adequate food consumption scores) by quintile of distance to water bodies.

							Food in	securit	y							
		All co	untries			Mal	lawi			Tanz	zania			Uga	ında	
	Nation	al	Rural		Nation	al	Rural		Nation	al	Rura	l	Nation	al	Rura	.1
Quintile of distance to water bodies	Prob. to be food insecure	Dist.	Prob. to be food insecure	Dist.	Prob. to be food insecure	Dist.	Prob. to be food insecure	Dist.	Prob. to be food insecure	Dist.	Prob. to be food insecure	Dist.	Prob. to be food insecure	Dist.	Prob. to be food insecure	Dist.
	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km	*100	Km
1	0.206	2.7	0.268	3.3	0.609	4.0	0.643	3.1	0.124	2.2	0.156	3.4	0.151	3.5	0.155	3.6
2	0.216	11.8	0.279	15.7	0.533	20.4	0.654	18.2	0.184	10.5	0.219	17.1	0.165	10.8	0.143	13.1
3	0.282	26.3	0.299	31.3	0.479	35.8	0.636	36.6	0.210	25.5	0.254	32.9	0.163	20.5	0.167	25.9
4	0.311	44.7	0.340	48.3	0.577	50.7	0.627	52.6	0.256	45.5	0.287	50.3	0.167	37.7	0.163	41.7
5	0.332	79.3	0.391	80.9	0.550	74.3	0.604	75.2	0.277	85.9	0.326	88.6	0.223	68.5	0.255	71.6
Mean	0.270	33.1	0.315	36.0	0.549	37.0	0.633	37.1	0.210	33.8	0.210	38.0	0.174	28.5	0.177	31.2
Obs.	18,623	3	14,283	3	12,444	1	10,174	ļ	3,344		1,971		2,822	2	2,125	5

Note: For each household, the estimated probability to be food insecure was calculated as: $Pr(Poor_i = 1) = \Phi(\beta X_i) + e_i$, where Φ is the cumulative normal distribution, X_i is the data vector consisting of observable characteristics for the i-th household, including the distance to water bodies, and β is the vector of coefficient estimates reported in Table 1B. Finally, e_i is the model error term.

Supplementary Table 2 Summary (unweighted) statistics for the econometric analysis

Main variabl	es used for the econometric analy	sis (unwe	ighted st	tatistics)					
		Mal	awi	Tanz	ania	Uga	nda	All cou	ıntries
VARIABLES		mean	sd	mean	sd	mean	sd	mean	sd
Indicators	Measure								
Poor household	% of total household	0.447	0.497	0.426	0.495	0.217	0.412	0.408	0.491
Food consumption prof	ile								
Poor	1 poor; 0 otherwise	0.143	0.35	0.0418	0.2	0.0432	0.203	0.109	0.312
Borderline	1 borderline; 0 otherwise	0.385	0.487	0.147	0.354	0.124	0.33	0.302	0.459
Acceptable	1 acceptable; 0 otherwise	0.472	0.499	0.811	0.391	0.832	0.374	0.589	0.492
Rural households	% of total households	0.817	0.386	0.592	0.492	0.746	0.436	0.766	0.423
Age of the head of the household	Age	43.29	16.19	44.42	14.99	45.11	15.22	43.77	15.84
Sex of the head of the household	1 male; 0 female	0.713	0.452	0.715	0.451	0.719	0.45	0.714	0.452
Household size	number of household members	4.329	2.001	4.858	2.849	6.322	3.327	4.734	2.519
Education of the head of the househ	old								
Primary education	1 primary education; 0 otherwi	0.679	0.467	0.232	0.422	0.24	0.427	0.531	0.499
Secondary education	1 Secondary education; 0 other	0.199	0.399	0.553	0.497	0.524	0.5	0.313	0.464
Tertiary education	1 Tertiary education; 0 otherwi	0.104	0.305	0.199	0.4	0.178	0.382	0.133	0.339
Not stated		0.0177	0.132	0.0155	0.124	0.058	0.234	0.0235	0.152
Distance to nearest agriculture markets	Km	22.45	17.26			29.32	20.14	23.76	18.04
Distance to water bodies	Km	41.67	29.34	29.48	32.97	30.39	28.88	37.73	30.46
Wealth index	Score	1.62	2.194	53.63	52.79	1.606	1.259	10.93	30
Total months hh experienced food insecurity	Months per year	3.084	3.096	1.279	2.167	1.659	2.549	2.539	2.972
Household unable to reach food markets	1 unable; 0 otherwise	0.00426	0.0651	0.00239	0.0488	0.0972	0.296	0.0183	0.134
Households with cultivated and/or owned land	1 households with cultivated/or	0.78	0.415	0.624	0.485	0.584	0.493	0.721	0.448
Employed households member	Employed over not employed	0.405	0.307	0.475	0.288	0.508	0.255	0.433	0.299
Household consumed fish in past 7 days	Household reporting to consun	0.731	0.443	0.75	0.433	0.358	0.48	0.677	0.468

Supplementary Table 3a Fish and other animal-source food consumption by proximity to water bodies

			National			Rural			Urban	
					•	Malawi				
Food item	Measure	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
Fish	Kg. per household per week	0.80***	1.59***	0.9	0.62***	1.62***	0.77	1.34	1.47	1.35
Fish	share of HHs who consumed over 7 days (*100)	0.72***	0.89***	0.73	0.67***	0.88***	0.7	0.89	0.93	0.89
Fish	Number of days consumed (out of 7)	1.62***	2.90***	1.77	1.51***	3.00***	1.71	1.97**	2.24**	1.99
Poultry	Kg. per household per week	0.3	0.23	0.29	0.13*	0.23*	0.14	0.50**	0.24**	0.49
Poultry	share of HHs who consumed over 7 days (*100)	0.14***	0.07***	0.13	0.09***	0.05***	0.09	0.31***	0.15***	0.3
Poultry	Number of days consumed (out of 7)	0.09***	0.02***	0.08	0.05***	0.02***	0.05	0.21***	0.06***	0.2
Goat	Kg. per household per week	0.95	0.93	0.95	0.94	0.93	0.94	0.98	0.9	0.97
Goat	share of HHs who consumed over 7 days (*100)	0.14***	0.08***	0.13	0.12***	0.07***	0.11	0.22***	0.14***	0.22
Goat	Number of days consumed (out of 7)	0.28***	0.12***	0.26	0.26***	0.11***	0.24	0.34***	0.17***	0.32
Pork	Kg. per household per week	0.71**	0.96**	0.72	0.69**	0.96**	0.7	0.79	0.95	0.8
Pork	share of HHs who consumed over 7 days (*100)	0.07***	0.02***	0.07	0.07***	0.02***	0.06	0.09***	0.03***	0.08
Pork	Number of days consumed (out of 7)	0.12***	0.02***	0.11	0.12***	0.02***	0.11	0.11**	0.03**	0.1
Beef	Kg. per household per week	1.09	1.12	1.09	1.02	1.11	1.03	1.13	1.13	1.13
Beef	share of HHs who consumed over 7 days (*100)	0.10***	0.06***	0.09	0.05	0.04	0.05	0.31***	0.17***	0.3
Beef	Number of days consumed (out of 7)	0.20***	0.11***	0.19	0.1	0.08	0.1	0.52***	0.27***	0.5
Eggs	Kg. per household per week	0.40**	0.37**	0.4	0.35	0.36	0.35	0.49**	0.40**	0.49
Eggs	share of HHs who consumed over 7 days (*100)	0.32***	0.24***	0.31	0.24**	0.21**	0.23	0.65***	0.43***	0.63
Eggs	Number of days consumed (out of 7)	0.41***	0.23***	0.38	0.32***	0.20***	0.31	0.67***	0.38***	0.65
						Tanzania				
Fish	Kg. per household per week	0.73***	1.82***	0.98	0.71***	2.09***	0.96	0.76***	1.57***	1.03
Fish	share of HHs who consumed over 7 days (*100)	0.68***	0.82***	0.71	0.66***	0.82***	0.68	0.75***	0.83***	0.78
Fish	Number of days consumed (out of 7)	1.65***	3.04***	1.96	1.70***	3.46***	1.99	1.56***	2.64***	1.9
Poultry	Kg. per household per week	1.34*	1.23*	1.32	1.52	1.37	1.5	1.01	1.11	1.04
Poultry	share of HHs who consumed over 7 days (*100)	0.17	0.18	0.17	0.15	0.17	0.16	0.2	0.2	0.2
Poultry	Number of days consumed (out of 7)	0.37	0.36	0.36	0.4	0.36	0.39	0.3	0.35	0.31
Goat	Kg. per household per week	1	1.05	1.01	1.03	1.17	1.05	0.87	0.83	0.86
Goat	share of HHs who consumed over 7 days (*100)	0.13***	0.09***	0.12	0.16*	0.12*	0.15	0.08	0.06	0.07
Goat	Number of days consumed (out of 7)	0.30***	0.14***	0.27	0.37**	0.22**	0.35	0.14**	0.07**	0.12
Pork	Kg. per household per week	0.82	0.95	0.83	0.82	0.5	0.81	0.84	1.2	0.9
Pork	share of HHs who consumed over 7 days (*100)	0.05***	0.01***	0.04	0.05***	0.01***	0.04	0.04**	0.02**	0.03
Pork	Number of days consumed (out of 7)	0.08***	0.02***	0.07	0.10***		0.08	0.05	0.02	0.04
Beef	Kg. per household per week	1.04	1.07	1.04	1.05	1.04	1.05	1.03	1.08	1.04
Beef	share of HHs who consumed over 7 days (*100)	0.39**	0.44**	0.4	0.28	0.28	0.28	0.64**	0.59**	0.63
Beef	Number of days consumed (out of 7)	0.88	0.87	0.87	0.65***	0.46***	0.62	1.37	1.26	1.34
Eggs	Kg. per household per week	0.39	0.44	0.4	0.33	0.38	0.34	0.45	0.47	0.46
Eggs	share of HHs who consumed over 7 days (*100)	0.2	0.2	0.2	0.15	0.14	0.15	0.31*	0.26*	0.29
Eggs	Number of days consumed (out of 7)	0.18	0.16	0.18	0.14	0.1	0.13	0.27	0.22	0.26

		7	Vational		I	Rural		I	Urban	
			· · · · · · · · · · · · · · · · · · ·		<u> </u>	Uganda		I	CIDUII	
Food item	Measure	>5 Km	<=5 Km	Total	>5 Km	U	Total	>5 Km.	<=5 Km	Total
Fish	Kg. per household per week	1.47	1.49	1.47	1.44	1.53	1.46	1.52	1.36	1.5
Fish	share of HHs who consumed over 7 days (*100)	0.31***	0.46***	0.33	0.29***		0.31	0.39	0.43	0.4
Fish	Number of days consumed (out of 7)	1.11***	2.31***	1.3	1.15***	2.67***	1.4	1.04**	1.36**	1.09
Poultry	Kg. per household per week	1.67**	1.14**	1.56	1.94**	1.12**	1.74	1.51	1.16	1.45
Poultry	share of HHs who consumed over 7 days (*100)	0.02	0.04	0.03	0.01	0.02	0.01	0.06	0.09	0.07
Poultry	Number of days consumed (out of 7)	0.18	0.17	0.18	0.15	0.17	0.16	0.22	0.18	0.22
Goat	Kg. per household per week	1.09	0.91	1.06	1.09*	0.76*	1.03	1.07**	2.07**	1.16
Goat	share of HHs who consumed over 7 days (*100)	0.04	0.05	0.04	0.04	0.06	0.05	0.04	0.02	0.04
Goat	Number of days consumed (out of 7)	0.12	0.13	0.12	0.14	0.15	0.14	0.09	0.06	0.08
Pork	Kg. per household per week	1.08	0.95	1.06	1.1	0.95	1.08	0.95	1.01	0.96
Pork	share of HHs who consumed over 7 days (*100)	0.06**	0.03**	0.06	0.07*	0.04*	0.06	0.04	0.01	0.03
Pork	Number of days consumed (out of 7)	0.18***	0.07***	0.16	0.21***	0.09***	0.19	0.1	0.03	0.09
Beef	Kg. per household per week	1.42	1.39	1.42	1.3	1.36	1.31	1.65	1.44	1.63
Beef	share of HHs who consumed over 7 days (*100)	0.32***	0.21***	0.3	0.27***	0.18***	0.26	0.46***	0.28***	0.43
Beef	Number of days consumed (out of 7)	1.07***	0.60***	0.99	0.94***	0.53***	0.87	1.34***	0.78***	1.26
Eggs	Kg. per household per week	0.42	0.45	0.43	0.35	0.36	0.35	0.49	0.52	0.5
Eggs	share of HHs who consumed over 7 days (*100)	0.09	0.09	0.09	0.06	0.05	0.06	0.19	0.2	0.19
Eggs	Number of days consumed (out of 7)	0.59	0.53	0.58	0.4	0.27	0.38	1	1.22	1.03
						All countri	ies			
Fish	Kg. per household per week	0.86***	1.74***	1.04	0.79***	1.88***	0.98	1.00***	1.54***	1.15
Fish	share of HHs who consumed over 7 days (*100)	0.59***	0.75***	0.61	0.56***	0.73***	0.58	0.68***	0.77***	0.7
Fish	Number of days consumed (out of 7)	1.54***	2.90***	1.79	1.54***	3.20***	1.8	1.52***	2.49***	1.76
Poultry	Kg. per household per week	1.11	1.16	1.12	1.23	1.24	1.24	0.91***	1.09***	0.96
Poultry	share of HHs who consumed over 7 days (*100)	0.12**	0.14**	0.12	0.1	0.11	0.1	0.18	0.18	0.18
Poultry	Number of days consumed (out of 7)	0.26	0.28	0.27	0.26	0.25	0.26	0.27**	0.32**	0.28
Goat	Kg. per household per week	1	1.02	1	1.02	1.06	1.02	0.93	0.91	0.93
Goat	share of HHs who consumed over 7 days (*100)	0.11***	0.08***	0.1	0.12***		0.11	0.09***	0.06***	0.08
Goat	Number of days consumed (out of 7)	0.26***	0.14***	0.24	0.30***	0.18***	0.28	0.17***	0.08***	0.14
Pork	Kg. per household per week	0.87	0.95	0.87	0.87	0.85	0.87	0.85**	1.15**	0.88
Pork	share of HHs who consumed over 7 days (*100)	0.06***	0.02***	0.05	0.06***		0.05	0.04***	0.02***	0.04
Pork	Number of days consumed (out of 7)	0.11***	0.03***	0.09	0.13***	0.03***	0.11	0.07***	0.02***	0.06
Beef	Kg. per household per week	1.15	1.11	1.15	1.13	1.13	1.13	1.18	1.11	1.16
Beef	share of HHs who consumed over 7 days (*100)	0.31***	0.34***	0.31	0.23**	0.21**	0.22	0.54	0.52	0.54
Beef	Number of days consumed (out of 7)	0.76*	0.72*	0.75	0.57***	0.39***	0.55	1.21	1.16	1.2
Eggs	Kg. per household per week	0.40**	0.43**	0.4	0.34***	0.37***	0.34	0.47	0.47	0.47
Eggs	share of HHs who consumed over 7 days (*100)	0.19*	0.18*	0.19	0.15**	0.13**	0.14	0.33***	0.26***	0.31
Eggs	Number of days consumed (out of 7)	0.31***	0.23***	0.3	0.23***	0.16***	0.22	0.50***	0.34***	0.46

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Supplementary Table 3b Fish and other animal-source food consumption by proximity to water bodies - by poor/non-poor HHs (above and below national poverty lines)

		National			<	=5Km		>	-5Km	
					N	Malawi				
Food item	Measure	Non-poor	Poor	Total	Non-poor	Poor	Total	Non-poor	Poor	Total
Fish	Kg. per household per week	1.08***	0.62***	0.9	1.83***	1.31***	1.59	0.98***	0.50***	0.8
Fish	share of HHs who consumed over 7 days (*100)	0.82***	0.63***	0.73	0.93***	0.85***	0.89	0.81***	0.60***	0.72
Fish	Number of days consumed (out of 7)	1.79*	1.74*	1.77	2.93	2.85	2.9	1.66***	1.56***	1.62
Poultry	Kg. per household per week	0.31***	0.15***	0.29	0.22	0.3	0.23	0.31***	0.14***	0.3
Poultry	share of HHs who consumed over 7 days (*100)	0.21***	0.03***	0.13	0.11***	0.02***	0.07	0.22***	0.03***	0.14
Poultry	Number of days consumed (out of 7)	0.11***	0.02***	0.08	0.03***	0.01***	0.02	0.12***	0.03***	0.09
Goat	Kg. per household per week	0.96**	0.88**	0.95	0.93	0.93	0.93	0.97**	0.88**	0.95
Goat	share of HHs who consumed over 7 days (*100)	0.21***	0.04***	0.13	0.12***	0.03***	0.08	0.22***	0.05***	0.14
Goat	Number of days consumed (out of 7)	0.36***	0.10***	0.26	0.18***	0.05***	0.12	0.38***	0.11***	0.28
Pork	Kg. per household per week	0.74**	0.63**	0.72	0.79**	1.31**	0.96	0.74***	0.60***	0.71
Pork	share of HHs who consumed over 7 days (*100)	0.09***	0.03***	0.07	0.02	0.01	0.02	0.10***	0.03***	0.07
Pork	Number of days consumed (out of 7)	0.14***	0.06***	0.11	0.02	0.02	0.02	0.15***	0.07***	0.12
Beef	Kg. per household per week	1.10***	0.92***	1.09	1.12	1.05	1.12	1.10***	0.91***	1.09
Beef	share of HHs who consumed over 7 days (*100)	0.16***	0.02***	0.09	0.10***	0.01***	0.06	0.17***	0.02***	0.1
Beef	Number of days consumed (out of 7)	0.28***	0.04***	0.19	0.16***	0.04***	0.11	0.30***	0.04***	0.2
Eggs	Kg. per household per week	0.42***	0.31***	0.4	0.38	0.34	0.37	0.42***	0.31***	0.4
Eggs	share of HHs who consumed over 7 days (*100)	0.47***	0.12***	0.31	0.36***	0.11***	0.24	0.48***	0.12***	0.32
Eggs	Number of days consumed (out of 7)	0.50***	0.20***	0.38	0.31***	0.12***	0.23	0.52***	0.21***	0.41
					Ta	anzania				
Fish	Kg. per household per week	1.06***	0.88***	0.98	1.77	1.91	1.82	0.81***	0.61***	0.73
Fish	share of HHs who consumed over 7 days (*100)	0.76***	0.65***	0.71	0.84**	0.79**	0.82	0.74***	0.62***	0.68
Fish	Number of days consumed (out of 7)	1.79***	2.20***	1.96	2.78***	3.50***	3.04	1.49***	1.88***	1.65
Poultry	Kg. per household per week	1.26***	1.50***	1.32	1.16***	1.48***	1.23	1.29***	1.50***	1.34
Poultry	share of HHs who consumed over 7 days (*100)	0.22***	0.10***	0.17	0.23***	0.11***	0.18	0.22***	0.10***	0.17
Poultry	Number of days consumed (out of 7)	0.42***	0.28***	0.36	0.42***	0.25***	0.36	0.42***	0.29***	0.37
Goat	Kg. per household per week	1.06**	0.91**	1.01	1.06	1.03	1.05	1.06**	0.90**	1
Goat	share of HHs who consumed over 7 days (*100)	0.15***	0.10***	0.12	0.10*	0.07*	0.09	0.16***	0.10***	0.13
Goat	Number of days consumed (out of 7)	0.30***	0.21***	0.27	0.16	0.12	0.14	0.35***	0.24***	0.3
Pork	Kg. per household per week	0.86	0.76	0.83	1.01	0.5	0.95	0.84	0.77	0.82
Pork	share of HHs who consumed over 7 days (*100)	0.05***	0.02***	0.04	0.02*	0.00*	0.01	0.06***	0.03***	0.05
Pork	Number of days consumed (out of 7)	0.08*	0.05*	0.07	0.02	0.01	0.02	0.09	0.06	0.08
Beef	Kg. per household per week	1.06	0.99	1.05	1.08	1	1.07	1.05	0.99	1.04
Beef	share of HHs who consumed over 7 days (*100)	0.56***	0.19***	0.4	0.57***	0.21***	0.44	0.56***	0.19***	0.39
Beef	Number of days consumed (out of 7)	1.15***	0.47***	0.88	1.14***	0.39***	0.87	1.15***	0.49***	0.88
Eggs	Kg. per household per week	0.43***	0.26***	0.4	0.46*	0.30*	0.44	0.42***	0.25***	0.38
Eggs	share of HHs who consumed over 7 days (*100)	0.29***	0.08***	0.2	0.28***	0.06***	0.2	0.29***	0.09***	0.2
Eggs	Number of days consumed (out of 7)	0.24***	0.08***	0.18	0.23***	0.05***	0.16	0.24***	0.08***	0.18

					J	Jganda				
Fish	Kg. per household per week	1.57***	0.93***	1.47	1.64***	0.77***	1.49	1.55***	0.98***	1.47
Fish	share of HHs who consumed over 7 days (*100)	0.36***	0.24***	0.34	0.49**	0.37**	0.46	0.34***	0.21***	0.31
Fish	Number of days consumed (out of 7)	1.28	1.44	1.3	2.32	2.26	2.31	1.1	1.24	1.12
Poultry	Kg. per household per week	1.62*	0.89*	1.58	1.28	0.46	1.11	1.7	1.76	1.7
Poultry	share of HHs who consumed over 7 days (*100)	0.03***	0.01***	0.03	0.04	0.04	0.04	0.03***	0.00***	0.02
Poultry	Number of days consumed (out of 7)	0.19***	0.07***	0.17	0.19	0.08	0.17	0.19***	0.06***	0.17
Goat	Kg. per household per week	1.10**	0.57**	1.06	0.93	0.44	0.91	1.14**	0.58**	1.09
Goat	share of HHs who consumed over 7 days (*100)	0.05***	0.02***	0.04	0.06*	0.01*	0.05	0.05***	0.02***	0.04
Goat	Number of days consumed (out of 7)	0.13**	0.06**	0.12	0.15*	0.02*	0.13	0.13	0.06	0.12
Pork	Kg. per household per week	1.10**	0.72**	1.06	0.94	1.09	0.95	1.12**	0.70**	1.07
Pork	share of HHs who consumed over 7 days (*100)	0.06***	0.03***	0.06	0.04	0.01	0.03	0.07***	0.04***	0.06
Pork	Number of days consumed (out of 7)	0.17	0.1	0.16	0.07	0.06	0.07	0.18	0.11	0.18
Beef	Kg. per household per week	1.48***	0.80***	1.42	1.46*	0.89*	1.39	1.48***	0.78***	1.43
Beef	share of HHs who consumed over 7 days (*100)	0.35***	0.12***	0.3	0.23**	0.12**	0.21	0.37***	0.12***	0.32
Beef	Number of days consumed (out of 7)	1.07***	0.46***	0.99	0.65*	0.36*	0.6	1.14***	0.49***	1.07
Eggs	Kg. per household per week	0.43	0.22	0.43	0.46	0.05	0.45	0.43	0.23	0.42
Eggs	share of HHs who consumed over 7 days (*100)	0.11***	0.01***	0.09	0.11***	0.01***	0.09	0.12***	0.01***	0.09
Eggs	Number of days consumed (out of 7)	0.65***	0.08***	0.58	0.63**	0.01**	0.54	0.66***	0.09***	0.59
						countries				
Fish	Kg. per household per week	1.16***	0.82***	1.04	1.75	1.71	1.74	1.00***	0.60***	0.86
Fish	share of HHs who consumed over 7 days (*100)	0.63***	0.59***	0.62	0.75	0.74	0.75	0.61***	0.56***	0.59
Fish	Number of days consumed (out of 7)	1.66***	2.04***	1.79	2.70***	3.29***	2.9	1.42***	1.76***	1.54
Poultry	Kg. per household per week	1.05***	1.36***	1.12	1.10***	1.37***	1.16	1.04***	1.36***	1.11
Poultry	share of HHs who consumed over 7 days (*100)	0.16***	0.07***	0.12	0.16***	0.08***	0.14	0.15***	0.07***	0.12
Poultry	Number of days consumed (out of 7)	0.30***	0.20***	0.27	0.33***	0.19***	0.28	0.29***	0.21***	0.26
Goat	Kg. per household per week	1.04***	0.90***	1	1.02	1.01	1.02	1.04***	0.88***	1
Goat	share of HHs who consumed over 7 days (*100)	0.13***	0.07***	0.1	0.09***	0.05***	0.08	0.13***	0.08***	0.11
Goat	Number of days consumed (out of 7)	0.27***	0.18***	0.24	0.16***	0.10***	0.14	0.30***	0.19***	0.26
Pork	Kg. per household per week	0.91***	0.72***	0.87	0.95	0.96	0.95	0.91***	0.71***	0.86
Pork	share of HHs who consumed over 7 days (*100)	0.06***	0.03***	0.05	0.02***	0.01***	0.02	0.07***	0.03***	0.06
Pork	Number of days consumed (out of 7)	0.11***	0.06***	0.09	0.03**	0.01**	0.03	0.13***	0.07***	0.11
Beef	Kg. per household per week	1.18***	0.96***	1.15	1.14*	0.99*	1.11	1.19***	0.96***	1.15
Beef	share of HHs who consumed over 7 days (*100)	0.42***	0.14***	0.31	0.43***	0.16***	0.34	0.42***	0.14***	0.31
Beef	Number of days consumed (out of 7)	0.95***	0.37***	0.75	0.92***	0.32***	0.72	0.96***	0.38***	0.76
Eggs	Kg. per household per week	0.43***	0.27***	0.4	0.44***	0.31***	0.43	0.42***	0.27***	0.4
Eggs	share of HHs who consumed over 7 days (*100)	0.26***	0.08***	0.19	0.24***	0.06***	0.18	0.26***	0.08***	0.19
Eggs	Number of days consumed (out of 7)	0.40***	0.11***	0.3	0.32***	0.06***	0.23	0.42***	0.12***	0.31

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Number of days consumed (out of 7): average based on households who reported to consume at least some Qt. of any food from animal source

Kg. per household per week: average based on households who reported to consume any food item

Supplementary Table 3c Fish and other animal-source food consumption by proximity to water bodies - by dietary diversity score (food consumption score)

		National				<=5	Km.		>5Km.				
							N	Malawi					
Food item	Measure	Poor	Borderline	Acceptable	Total	Poor	Borderline	Acceptable	Total	Poor	Borderline	Acceptable	Total
Fish	Kg. per household per week	0.40***	0.56***	1.22***	0.9	0.86***	1.09***	2.00***	1.59	0.36***	0.48***	1.10***	0.8
Fish	share of HHs who consumed over 7 days (*10	0.40***	0.71***	0.87***	0.73	0.45***	0.89	0.98***	0.89	0.40***	0.69***	0.86***	0.72
Fish	Number of days consumed (out of 7)	0.73***	1.37***	2.23***	1.77	0.78***	2.21***	3.57***	2.9	0.73***	1.26***	2.04***	1.62
Poultry	Kg. per household per week	0.16	0.14***	0.33***	0.29		0.31	0.21	0.23	0.16	0.12***	0.34***	0.3
Poultry	share of HHs who consumed over 7 days (*10	0.02***	0.05***	0.23***	0.13	0.00***	0.04***	0.10***	0.07	0.02***	0.06***	0.25***	0.14
Poultry	Number of days consumed (out of 7)	0.02***	0.03***	0.13***	0.08	0	0.01	0.03*	0.02	0.02***	0.03***	0.14***	0.09
Goat	Kg. per household per week	0.78**	0.90**	0.97***	0.95	1	0.84	0.94	0.93	0.77**	0.90**	0.97***	0.95
Goat	share of HHs who consumed over 7 days (*10	0.02***	0.07***	0.23***	0.13	0.02***	0.03***	0.12***	0.08	0.02***	0.08***	0.24***	0.14
Goat	Number of days consumed (out of 7)	0.04***	0.12***	0.40***	0.26	0.03*	0.05***	0.18***	0.12	0.04***	0.13***	0.44***	0.28
Pork	Kg. per household per week	0.50***	0.63***	0.78***	0.72		0.97	0.96	0.96	0.50**	0.62***	0.77***	0.71
Pork	share of HHs who consumed over 7 days (*10	0.02***	0.05***	0.09***	0.07	0.00*	0.02	0.03*	0.02	0.02***	0.06***	0.10***	0.07
Pork	Number of days consumed (out of 7)	0.03***	0.08***	0.14***	0.11	0	0.02	0.03	0.02	0.04***	0.09***	0.16***	0.12
Beef	Kg. per household per week	0.77	0.93***	1.12***	1.09	1	0.86***	1.17***	1.12	0.68	0.94***	1.11***	1.09
Beef	share of HHs who consumed over 7 days (*10	0.00***	0.03***	0.18***	0.09	0.01***	0.03***	0.10***	0.06	0.00***	0.03***	0.19***	0.1
Beef	Number of days consumed (out of 7)	0.01***	0.05***	0.32***	0.19	0.02*	0.05***	0.15***	0.11	0.00***	0.05***	0.35***	0.2
Eggs	Kg. per household per week	0.25***	0.30***	0.44***	0.4	0.35	0.27***	0.40***	0.37	0.24***	0.30***	0.44***	0.4
Eggs	share of HHs who consumed over 7 days (*10	0.05***	0.18***	0.51***	0.31	0.05***	0.13***	0.36***	0.24	0.05***	0.19***	0.53***	0.32
Eggs	Number of days consumed (out of 7)	0.08***	0.19***	0.57***	0.38	0.10**	0.10***	0.32***	0.23	0.08***	0.20***	0.61***	0.41
							T	anzania					
Fish	Kg. per household per week	0.33***	0.41***	1.08***	0.98	0.48**	0.69***	1.93***	1.82	0.29***	0.37***	0.80***	0.73
Fish	share of HHs who consumed over 7 days (*10	0.23***	0.56***	0.77***	0.71	0.43***	0.64***	0.86***	0.82	0.20***	0.54***	0.75***	0.68
Fish	Number of days consumed (out of 7)	0.82***	1.20***	2.10***	1.96	0.79***	1.46***	3.22***	3.04	0.82***	1.15***	1.76***	1.65
Poultry	Kg. per household per week	1.51	1.18	1.33	1.32	0.5	0.94*	1.25*	1.23	1.53	1.22	1.36	1.34
Poultry	share of HHs who consumed over 7 days (*10	0.03***	0.09***	0.19***	0.17	0.00**	0.12*	0.20***	0.18	0.03***	0.09***	0.19***	0.17
Poultry	Number of days consumed (out of 7)	0.06**	0.10***	0.41***	0.36	0.02	0.13**	0.38***	0.36	0.06*	0.09***	0.42***	0.37
Goat	Kg. per household per week	0.35	0.64***	1.05***	1.01	•	0.58	1.07	1.05	0.35	0.65***	1.05***	1
Goat	share of HHs who consumed over 7 days (*10	0.00***	0.08***	0.14***	0.12	0	0.03**	0.10***	0.09	0.00***	0.08***	0.15***	0.13
Goat	Number of days consumed (out of 7)	0.00**	0.13***	0.29***	0.27	0	0.03*	0.16**	0.14	0.00**	0.14***	0.34***	0.3
Pork	Kg. per household per week	0.71	1.08	0.82	0.83	•		0.95	0.95	0.71	1.08	0.81	0.82
Pork	share of HHs who consumed over 7 days (*10	0.02	0.01***	0.05***	0.04	0	0	0.01	0.01	0.02	0.01***	0.06***	0.05
Pork	Number of days consumed (out of 7)	0	0.01***	0.08***	0.07	0	0	0.02	0.02	0	0.01***	0.10***	0.08
Beef	Kg. per household per week	0.52	0.67***	1.08***	1.04	1	0.62***	1.10***	1.07	0.5	0.68***	1.07***	1.04
Beef	share of HHs who consumed over 7 days (*10	0.02***	0.20***	0.46***	0.4	0.01***	0.28***	0.47***	0.44	0.03***	0.19***	0.46***	0.39
Beef	Number of days consumed (out of 7)	0.07***	0.25***	1.00***	0.87	0.02**	0.27***	0.94***	0.87	0.08***	0.25***	1.01***	0.88
Eggs	Kg. per household per week	0.19	0.25***	0.41***	0.4	0.19	0.28	0.45	0.44	0.19	0.25***	0.40***	0.39
Eggs	share of HHs who consumed over 7 days (*10	0.01***	0.08***	0.23***	0.2	0.04**	0.11**	0.22***	0.2	0.00***	0.08***	0.24***	0.2
Eggs	Number of days consumed (out of 7)	0.01**	0.06***	0.20***	0.18	0.05	0.05**	0.18***	0.16	0.00**	0.06***	0.21***	0.18

							Ţ	Jganda					
Fish	Kg. per household per week	0.44	0.75***	1.52***	1.47	0.44	0.37**	1.55**	1.49	•	0.83***	1.51***	1.47
Fish	share of HHs who consumed over 7 days (*10	0.00***	0.15***	0.39***	0.34	0.02***	0.24***	0.52***	0.46	0.00***	0.13***	0.37***	0.31
Fish	Number of days consumed (out of 7)	0	0.73***	1.34***	1.3	0	1.12**	2.39**	2.31	0	0.67***	1.15***	1.12
Poultry	Kg. per household per week			1.58	1.58			1.11	1.11			1.7	1.7
Poultry	share of HHs who consumed over 7 days (*10	0.00**	0.00***	0.03***	0.03	0	0	0.05*	0.04	0.00**	0.00***	0.03***	0.02
Poultry	Number of days consumed (out of 7)	0	0.00***	0.19***	0.17	0	0	0.18	0.17	0	0.00***	0.19***	0.17
Goat	Kg. per household per week		0.82	1.06	1.06			0.91	0.91	•	0.82	1.09	1.09
Goat	share of HHs who consumed over 7 days (*10	0.00***	0.01***	0.05***	0.04	0	0	0.06**	0.05	0.00***	0.01***	0.05***	0.04
Goat	Number of days consumed (out of 7)	0	0.03**	0.13**	0.12	0	0	0.14	0.13	0	0.03*	0.13*	0.12
Pork	Kg. per household per week	•	0.69*	1.08*	1.06			0.95	0.95	•	0.69*	1.09*	1.07
Pork	share of HHs who consumed over 7 days (*10	0.00***	0.02***	0.07***	0.06	0	0	0.04*	0.03	0.00***	0.03***	0.07***	0.06
Pork	Number of days consumed (out of 7)	0	0.08	0.17	0.16	0	0	0.08	0.07	0	0.09	0.18	0.18
Beef	Kg. per household per week	•	0.82***	1.45***	1.42		0.82	1.41	1.39	•	0.82***	1.45***	1.43
Beef	share of HHs who consumed over 7 days (*10	0.00***	0.10***	0.36***	0.31	0.00***	0.10*	0.24***	0.21	0.00***	0.10***	0.38***	0.32
Beef	Number of days consumed (out of 7)	0	0.45***	1.03***	0.99	0	0.28	0.62	0.6	0	0.48***	1.11***	1.07
Eggs	Kg. per household per week	0.08	0.35	0.43	0.43		0.82*	0.42*	0.45	0.08	0.23*	0.44**	0.42
Eggs	share of HHs who consumed over 7 days (*10	0.01***	0.04***	0.11***	0.09	0.00*	0.07	0.1	0.09	0.02***	0.03***	0.11***	0.09
Eggs	Number of days consumed (out of 7)	0.8	0.31**	0.60**	0.58	0	0.62	0.53	0.54	1	0.26**	0.61**	0.59
								countries					
Fish	Kg. per household per week	0.38***	0.51***	1.18***	1.04	0.65***	0.87***	1.88***	1.74	0.34***	0.45***	0.98***	0.86
Fish	share of HHs who consumed over 7 days (*10	0.25***	0.55***	0.67***	0.62	0.29***	0.66***	0.79***	0.75	0.25***	0.53***	0.64***	0.59
Fish	Number of days consumed (out of 7)	0.75***	1.25***	1.95***	1.79	0.77***	1.76***	3.11***	2.9	0.75***	1.17***	1.66***	1.54
Poultry	Kg. per household per week	0.98	0.82***	1.16***	1.12	0.5	0.82**	1.18**	1.16	0.98	0.82***	1.15***	1.11
Poultry	share of HHs who consumed over 7 days (*10	0.02***	0.06***	0.15***	0.12	0.00***	0.07***	0.15***	0.14	0.02***	0.06***	0.15***	0.12
Poultry	Number of days consumed (out of 7)	0.03***	0.06***	0.32***	0.27	0.01**	0.07***	0.32***	0.28	0.03***	0.06***	0.32***	0.26
Goat	Kg. per household per week	0.72*	0.76***	1.04***	1	1	0.69*	1.03	1.02	0.70*	0.77***	1.04***	1
Goat	share of HHs who consumed over 7 days (*10	0.01***	0.06***	0.13***	0.11	0.01***	0.03***	0.09***	0.08	0.01***	0.07***	0.13***	0.11
Goat	Number of days consumed (out of 7)	0.03***	0.11***	0.27***	0.24	0.01	0.04***	0.16***	0.14	0.03***	0.13***	0.30***	0.26
Pork	Kg. per household per week	0.59**	0.70***	0.90***	0.87		0.97	0.95	0.95	0.59**	0.70***	0.89***	0.86
Pork	share of HHs who consumed over 7 days (*10	0.01***	0.03***	0.06***	0.05	0	0.01*	0.02**	0.02	0.02***	0.03***	0.07***	0.06
Pork	Number of days consumed (out of 7)	0.02***	0.04***	0.11***	0.09	0	0.01	0.03*	0.03	0.02***	0.05***	0.13***	0.11
Beef	Kg. per household per week	0.55*	0.72***	1.18***	1.15	1	0.65***	1.14***	1.11	0.52*	0.73***	1.19***	1.15
Beef	share of HHs who consumed over 7 days (*10	0.01***	0.12***	0.40***		0.01***	0.16***	0.38***	0.34	0.01***	0.11***	0.40***	0.31
Beef	Number of days consumed (out of 7)	0.03***	0.17***	0.91***	0.75	0.02***	0.18***	0.81***	0.72	0.03***	0.17***	0.93***	0.76
Eggs	Kg. per household per week	0.22***	0.29***	0.42***	0.4	0.27	0.33*	0.44**	0.43	0.22***	0.28***	0.42***	0.4
Eggs	share of HHs who consumed over 7 days (*10	0.03***	0.11***	0.23***	0.19	0.03***	0.11***	0.20***	0.18	0.03***	0.12***	0.24***	0.19
Eggs	Number of days consumed (out of 7)	0.06***	0.14***	0.34***	0.3	0.07	0.11***	0.25***	0.23	0.06***	0.14***	0.37***	0.31

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Supplementary Table 4a Fish consumption - form (dried/fresh) and source (purchased/own production/other) - by proximity to water bodies

				National			Rural		Urban		
							Malawi				
ish consumption by:	Fish consumption	Indicator		<=5 Km		>5 Km.	<=5 Km	Total		<=5 Km	Tota
	Total fish	% of total household	0.72***	0.89***	0.73	0.67***	0.88***	0.7	0.89	0.93	0.89
	Fresh fish	% of total household who consumed fish	0.22***	0.73***	0.28	0.16***	0.74***	0.25	0.38***	0.70***	0.41
	Dried fish	% of total household who consumed fish	0.74***	0.49***	0.71	0.73***	0.49***	0.7	0.77***	0.52***	0.75
Eorm	Other fish	% of total household who consumed fish	0.30***	0.20***	0.28	0.26***	0.19***	0.25	0.40***	0.27***	0.38
Form	Total fish	Kg. per household /per week	0.80***	1.59***	0.9	0.62***	1.62***	0.77	1.34	1.47	1.35
	Fresh fish	Kg. per household /per week ****	1.36**	1.53**	1.42	1.13***	1.56***	1.32	1.67**	1.29**	1.62
	Dried fish	Kg. per household /per week ****	0.49***	0.73***	0.51	0.43***	0.73***	0.46	0.66	0.7	0.66
	Other fish	Kg. per household /per week ****	0.48***	0.60***	0.49	0.46**	0.57**	0.47	0.51**	0.74**	0.53
	From purchased	Kg. per household /per week ****	0.79***	1.29***	0.85	0.61***	1.28***	0.7	1.34	1.36	1.34
	From own production	Kg. per household /per week ****	1.95***	3.27***	2.77	1.97***	3.38***	2.84	1.62	1.83	1.77
Co	From other source (including gift)	Kg. per household /per week ****	0.61***	2.26***	1.23	0.60***	2.23***	1.26	0.66***	2.50***	1.03
Source	From purchased	% of total fish consumed	0.97***	0.86***	0.96	0.97***	0.85***	0.95	0.98***	0.92***	0.98
	From own production	% of total fish consumed	0.00***	0.05***	0.01	0.01***	0.06***	0.01	0.00***	0.03***	0
	From other source (including gift)	% of total fish consumed	0.02***	0.09***	0.03	0.03***	0.09***	0.04	0.02***	0.06***	0.02
							Tanzania				
	Total fish	% of total household	0.68***	0.82***	0.71	0.66***	0.82***	0.68	0.75***	0.83***	0.78
	Fresh fish	% of total household who consumed fish	0.67***	0.87***	0.71	0.64***	0.87***	0.68	0.72***	0.87***	0.77
	Dried fish	% of total household who consumed fish	0.49***	0.36***	0.46	0.52***	0.40***	0.5	0.43***	0.32***	0.4
For	Other fish	% of total household who consumed fish	0.00*	0.00*	0						
Form	Total fish	Kg. per household /per week	0.73***	1.82***	0.98	0.71***	2.09***	0.96	0.76***	1.57***	1.03
	Fresh fish	Kg. per household /per week ****	0.71***	1.77***	1.01	0.68***	2.01***	0.98	0.78***	1.55***	1.07
	Dried fish	Kg. per household /per week ****	0.52***	0.76***	0.56	0.54***	0.83***	0.59	0.46***	0.67***	0.51
	Other fish	Kg. per household /per week ****		0.81	0.81						
	From purchased	Kg. per household /per week ****	0.70***	1.60***	0.9	0.68***	1.87***	0.88	0.75***	1.35***	0.94
	From own production	Kg. per household /per week ****	2.56**	4.16**	3.5	2.79	3.39	3.09	0.50**	5.51**	4.7
Course	From other source (including gift)	Kg. per household /per week ****	1.11***	2.56***	1.86	1.10***	2.54***	1.76	1.15*	2.59*	2.08
Source	From purchased	% of total fish consumed	0.97***	0.89***	0.95	0.97***	0.86***	0.95	0.98***	0.92***	0.96
	From own production	% of total fish consumed	0.01***	0.03***	0.01	0.01***	0.04***	0.01	0.00***	0.02***	0.0
	From other source (including gift)	% of total fish consumed	0.02***	0.08***	0.04	0.03***	0.10***	0.04	0.02***	0.06***	0.03
							Uganda				
	Total fish	% of total household	0.31***	0.46***	0.33	0.29***	0.47***	0.31	0.39	0.43	0.4
	Fresh fish	% of total household who consumed fish	0.44***	0.76***	0.51	0.39***	0.83***	0.49	0.56	0.53	0.55
	Dried fish	% of total household who consumed fish	0.70***	0.42***	0.64	0.71***	0.39***	0.64	0.66*	0.52*	0.64
For	Other fish	% of total household who consumed fish	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Form	Total fish	Kg. per household /per week	1.47	1.49	1.47	1.44	1.53	1.46	1.52	1.36	1.5
					1			I			
	Fresh fish	Kg. per household /per week ****	0.83**	1.01**	0.88	0.83**	1.02**	0.9	0.83	0.96	0.85

	Other fish	Kg. per household /per week ****	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
	From purchased	Kg. per household /per week ****	1.46	1.37	1.45	1.42	1.38	1.41	1.55	1.37	1.52
	From own production	Kg. per household /per week ****	1.24	1.77	1.59	1.08	1.77	1.54	3.54		3.54
Source	From other source (including gift)	Kg. per household /per week ****	1.43	1.61	1.49	1.65	1.65	1.65	0.88	0.71	0.87
Source	From purchased	% of total fish consumed	0.94***	0.84***	0.92	0.93***	0.79***	0.9	0.95	0.99	0.96
	From own production	% of total fish consumed	0.01***	0.09***	0.03	0.02***	0.11***	0.04	0	0	0
	From other source (including gift)	% of total fish consumed	0.05*	0.08*	0.05	0.05**	0.10**	0.06	0.05	0.01	0.04
						Al	l countries				
	Total fish	% of total household	0.59***	0.75***	0.61	0.56***	0.73***	0.58	0.68***	0.77***	0.7
	Fresh fish	% of total household who consumed fish	0.52***	0.83***	0.58	0.47***	0.83***	0.53	0.63***	0.84***	0.68
	Dried fish	% of total household who consumed fish	0.59***	0.39***	0.55	0.61***	0.42***	0.57	0.54***	0.35***	0.49
Form	Other fish	% of total household who consumed fish	0.08***	0.03***	0.07	0.07***	0.04***	0.07	0.08***	0.02***	0.07
FOIII	Total fish	Kg. per household /per week	0.86***	1.74***	1.04	0.79***	1.88***	0.98	1.00***	1.54***	1.15
	Fresh fish	Kg. per household /per week ****	0.80***	1.64***	1.04	0.74***	1.74***	1.01	0.90***	1.50***	1.1
	Dried fish	Kg. per household /per week ****	0.69***	0.90***	0.72	0.68***	0.97***	0.72	0.73	0.79	0.74
	Other fish	Kg. per household /per week ****	0.48***	0.61***	0.49	0.46***	0.58***	0.48	0.51**	0.71**	0.52
	From purchased	Kg. per household /per week ****	0.83***	1.52***	0.97	0.76***	1.65***	0.91	1.00***	1.35***	1.09
	From own production	Kg. per household /per week ****	2.09***	3.24***	2.8	2.17**	2.76**	2.51	1.30***	5.24***	4.39
Caumaa	From other source (including gift)	Kg. per household /per week ****	1.07***	2.37***	1.65	1.10***	2.30***	1.61	0.97***	2.55***	1.76
Source	From purchased	% of total fish consumed	0.97***	0.88***	0.95	0.96***	0.85***	0.94	0.98***	0.93***	0.96
	From own production	% of total fish consumed	0.01***	0.04***	0.01	0.01***	0.06***	0.02	0.00***	0.02***	0.01
	From other source (including gift)	% of total fish consumed	0.03***	0.08***	0.04	0.03***	0.10***	0.04	0.02***	0.05***	0.03

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Kg. per household per week : average based on households who reported to consume fish

^{****} averaged among households who reported to consume a given form or source of fish. 0 are not included in the calculation value is missing if insufficient observations for statistically significant average

Supplementary Table 4b Fish consumption - form (dried/fresh) and source (purchased/own production/other) - by proximity to water bodies and poor/non-poor HHs (above and below national poverty lines)

			N	ational			<=5Km		>5Km				
							Malawi						
sh consumption by:	Fish consumption	Indicator	Non-poor	Poor	Total		Poor	Total	Non-poor	Poor	Tota		
	Total fish	% of total household	0.82***	0.63***	0.73	0.93***	0.85***	0.89	0.81***	0.60***	0.72		
	Fresh fish	% of total household who consumed fish	0.32***	0.22***	0.28	0.75*	0.70*	0.73	0.27***	0.13***	0.22		
	Dried fish	% of total household who consumed fish	0.71	0.71	0.71	0.52**	0.45**	0.49	0.73**	0.76**	0.74		
Form	Other fish	% of total household who consumed fish	0.32***	0.22***	0.28	0.22**	0.17**	0.2	0.34***	0.23***			
TOIM	Total fish	Kg. per household /per week	1.08***	0.62***	0.9	1.83***	1.31***	1.59	0.98***	0.50***	0.8		
	Fresh fish	Kg. per household /per week ****	1.54***	1.11***	1.42	1.70***	1.29***	1.53	1.48***	0.94***	1.36		
	Dried fish	Kg. per household /per week ****	0.58***	0.41***	0.51	0.77	0.66	0.73	0.56***	0.38***	0.4		
	Other fish	Kg. per household /per week ****	0.53***	0.40***	0.49	0.63	0.55	0.6	0.52***	0.38***	0.4		
	From purchased	Kg. per household /per week ****	1.03***	0.57***	0.85	1.44***	1.10***	1.29	0.98***	0.48***	0.7		
	From own production	Kg. per household /per week ****	3.18**	2.26**	2.77	3.82**	2.47**	3.27	1.91	1.99	1.9		
Course	From other source (including gift)	Kg. per household /per week ****	1.40**	0.98**	1.23	2.82***	1.58***	2.26	0.64	0.56	0.6		
Source	From purchased	% of total fish consumed	0.96	0.95	0.96	0.86	0.86	0.86	0.97	0.97	0.9		
	From own production	% of total fish consumed	0.01	0.01	0.01	0.06	0.05	0.05	0.00**	0.01**	0		
	From other source (including gift)	% of total fish consumed	0.03	0.03	0.03	0.08	0.09	0.09	0.02	0.02	0.0		
						Т	anzania						
	Total fish	% of total household	0.76***	0.65***	0.71	0.84**	0.79**	0.82	0.74***	0.62***	0.6		
	Fresh fish	% of total household who consumed fish	0.73*	0.69*	0.71	0.87	0.87	0.87	0.68	0.65	0.6		
	Dried fish	% of total household who consumed fish	0.47	0.45	0.46	0.35	0.37	0.36	0.51	0.47	0.4		
	Other fish	% of total household who consumed fish	0	0	0	0	0	0	0	0	0		
Form	Total fish	Kg. per household /per week	1.06***	0.88***	0.98	1.77	1.91	1.82	0.81***	0.61***	0.7		
	Fresh fish	Kg. per household /per week ****	1.09***	0.91***	1.02	1.71	1.87	1.77	0.81***	0.57***	0.7		
	Dried fish	Kg. per household /per week ****	0.57	0.55	0.56	0.75	0.76	0.76	0.53	0.51	0.5		
	Other fish	Kg. per household /per week ****	0.5	1.5	0.81								
	From purchased	Kg. per household /per week ****	0.97***	0.79***	0.9	1.55	1.69	1.6	0.79***	0.58***	0.		
	From own production	Kg. per household /per week ****	3.73	3.21	3.5	4.66	3.64	4.16	2.66	2.4	2.5		
	From other source (including gift)	Kg. per household /per week ****	2.30**	1.52**	1.86	3.38***	1.97***	2.56	1.23	1.01	1.1		
Source	From purchased	% of total fish consumed	0.96***	0.94***	0.95	0.92***	0.84***	0.89	0.98	0.96	0.9		
	From own production	% of total fish consumed	0.01	0.01	0.01	0.02	0.04	0.03	0.01	0	0.0		
	From other source (including gift)	% of total fish consumed	0.03***	0.05***	0.04	0.05***	0.12***	0.08	0.02*	0.03*	0.0		
	· • • • • • • • • • • • • • • • • • • •					1	Uganda						
	Total fish	% of total household	0.36***	0.24***	0.34	0.49**	0.37**	0.46	0.34***	0.21***	0.3		
	Fresh fish	% of total household who consumed fish	0.52***	0.40***	0.51	0.74	0.85	0.76	0.47***	0.26***	0.4		
	Dried fish	% of total household who consumed fish	0.64	0.67	0.64	0.46**	0.26**	0.42	0.68**	0.80**	0.		
	Other fish	% of total household who consumed fish	0	0	0	0	0	0	0	0	(
					-								
Form	Total fish	Kg. per household /per week	1.57***	0.93***	1.47	1.64***	0.77***	1.49	1.55***	0.98***	1.4		

	Dried fish	Kg. per household /per week ****	1.69***	1.06***	1.6	1.83**	0.68**	1.71	1.67***	1.10***	1.58
	Other fish	Kg. per household /per week ****									
	From purchased	Kg. per household /per week ****	1.54***	0.92***	1.45	1.52**	0.77**	1.38	1.54***	0.97***	1.47
	From own production	Kg. per household /per week ****	1.71	0.45	1.59	1.83	0.22	1.77	1.43	0.54	1.24
	From other source (including gift)	Kg. per household /per week ****	1.54	1.18	1.49	1.68	0.44	1.61	1.46	1.28	1.43
Source	From purchased	% of total fish consumed	0.92	0.93	0.92	0.81**	0.97**	0.84	0.94	0.92	0.94
	From own production	% of total fish consumed	0.03	0.02	0.03	0.10**	0.00**	0.09	0.01	0.02	0.01
	From other source (including gift)	% of total fish consumed	0.05	0.06	0.05	0.09	0.03	0.08	0.05	0.06	0.05
						Al	l countries				
	Total fish	% of total household	0.63***	0.59***	0.62	0.75	0.74	0.75	0.61***	0.56***	0.59
	Fresh fish	% of total household who consumed fish	0.59***	0.56***	0.58	0.83	0.83	0.83	0.53***	0.49***	0.52
	Dried fish	% of total household who consumed fish	0.56***	0.53***	0.55	0.39	0.38	0.39	0.60***	0.56***	0.59
	Other fish	% of total household who consumed fish	0.07***	0.06***	0.07	0.03	0.04	0.03	0.09***	0.06***	0.08
Form	Total fish	Kg. per household /per week	1.16***	0.82***	1.04	1.75	1.71	1.74	1.00***	0.60***	0.86
	Fresh fish	Kg. per household /per week ****	1.12***	0.91***	1.05	1.61	1.69	1.64	0.91***	0.59***	0.8
	Dried fish	Kg. per household /per week ****	0.82***	0.54***	0.72	0.98***	0.74***	0.9	0.80***	0.51***	0.69
	Other fish	Kg. per household /per week ****	0.53***	0.40***	0.49	0.63	0.58	0.61	0.52***	0.38***	0.48
	From purchased	Kg. per household /per week ****	1.09***	0.74***	0.97	1.53	1.5	1.52	0.98***	0.57***	0.83
	From own production	Kg. per household /per week ****	2.82	2.74	2.8	3.24	3.24	3.24	2.14	2.01	2.09
	From other source (including gift)	Kg. per household /per week ****	1.86***	1.39***	1.65	2.83***	1.88***	2.37	1.16*	0.94*	1.07
Source	From purchased	% of total fish consumed	0.95***	0.94***	0.95	0.89***	0.85***	0.88	0.97	0.96	0.97
	From own production	% of total fish consumed	0.01	0.01	0.01	0.04	0.04	0.04	0.01	0.01	0.01
	From other source (including gift)	% of total fish consumed	0.03***	0.05***	0.04	0.06***	0.11***	0.08	0.02*	0.03*	0.03

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Kg. per household per week : average based on households who reported to consume fish

^{****} averaged among households who reported to consume a given form or source of fish. 0 are not included in the calculation value is missing if insufficient observations for statistically significant average

Supplementary Table 5 Fish consumption - quantity - by quintile and proximity to water bodies

				National			Rural			Urban	
		Quintile	>5 Km	<=5Km	Total	>5 Km	<=5Km	Total	>5 Km	<=5Km	Total
Fish consumption	Indicator						Malawi				•
Total fish	Kg. per household /per week	First	0.42***	1.18***	0.54***	0.42***	1.18***	0.53***	0.56***	1.26	0.69***
Total fish	Kg. per household /per week	Second	0.50***	1.39**	0.63***	0.47***	1.42*	0.60***	0.84***	1.15	0.91***
Total fish	Kg. per household /per week	Third	0.69***	1.57	0.82***	0.67*	1.61	0.81	0.80***	1.31	0.87***
Total fish	Kg. per household /per week	Fourth	0.86**	1.99***	1.01***	0.73***	2.05***	0.92***	1.22*	1.68	1.26
Total fish	Kg. per household /per week	Fifth	1.27***	1.82*	1.31***	0.88***	1.87*	1.00***	1.61***	1.7	1.61***
Total fish	Kg. per household /per week	Total	0.8	1.59	0.9	0.62	1.62	0.77	1.34	1.47	1.35
							Tanzania				
Total fish	Kg. per household /per week	First	0.53***	1.37***	0.69***	0.53***	1.44***	0.68***	0.49	1.1	0.82
Total fish	Kg. per household /per week	Second	0.65**	2.11**	0.95	0.67	2.11	0.94	0.49***	2.11*	1.01
Total fish	Kg. per household /per week	Third	0.77	2.34***	1.12***	0.80*	2.54**	1.13***	0.68	2.01**	1.1
Total fish	Kg. per household /per week	Fourth	0.83***	1.89	1.08**	0.86**	2.49*	1.15***	0.79	1.54	1.01
Total fish	Kg. per household /per week	Fifth	0.84***	1.43***	1.01	0.84	1.49	0.94	0.84**	1.42*	1.04
Total fish	Kg. per household /per week	Total	0.73	1.82	0.98	0.71	2.09	0.96	0.76	1.57	1.03
							Uganda				
Total fish	Kg. per household /per week	First	0.99***	0.78**	0.94***	0.95***	0.78**	0.90***	1.26	0.85	1.2
Total fish	Kg. per household /per week	Second	1.21**	1.08	1.19***	1.24*	1.09	1.21**	0.94*	0.8	0.93*
Total fish	Kg. per household /per week	Third	1.5	1.16	1.42	1.53	1.23	1.45	1.4	0.86	1.29
Total fish	Kg. per household /per week	Fourth	1.51	2.42***	1.66**	1.56	2.86***	1.80***	1.42	0.93	1.37
Total fish	Kg. per household /per week	Fifth	1.87***	1.84	1.86***	2.14***	1.95	2.10***	1.72**	1.75**	1.73***
Total fish	Kg. per household /per week	Total	1.47	1.49	1.47	1.45	1.53	1.46	1.52	1.36	1.5
						A	ll countrie				
Total fish	Kg. per household /per week	First	0.56***	1.24***	0.69***	0.55***	1.27***	0.67***	0.73**	1.09*	0.88**
Total fish	Kg. per household /per week	Second	0.69***	1.84	0.91***	0.70***	1.82	0.90***	0.62***	1.92*	0.98**
Total fish	Kg. per household /per week	Third	0.85	2.01***	1.09**	0.87***	2.07**	1.10***	0.80***	1.85**	1.09
Total fish	Kg. per household /per week	Fourth	0.95***	1.98***	1.16***	0.95***	2.45***	1.20***	0.95	1.51	1.09
Total fish	Kg. per household /per week	Fifth	1.13***	1.52***	1.22***	1.07***	1.73	1.17***	1.17***	1.46	1.25***
Total fish	Kg. per household /per week	Total	0.86	1.74	1.04	0.79	1.88	0.98	1	1.54	1.15

Supplementary Table 6 Fishing HHs vs non-fishing HHs - fish consumption, dietary diversity and multiple poverty indicators for Malawi

Supplementary Table 6 Fishing Hris vs non-fishing Hris	, , , , , , , , , , , , , , , , , , , ,		Iouseholo			g Househ	olds	Non-fishi	ng Hous	sehold
					`	wi: Natio			_	
Indicator	Measure	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	ı Tota
Fish consumption	Kg. per household /per week	0.80***	1.59***	0.9	1.40***	3.36***	2.37	0.79***	1.38***	0.86
Fish consumption from own-production	% of total fish consumed	0.00***	0.05***	0.01	0.17***	0.41***	0.29	0.00***	0.01***	. 0
Poor household	% of total households	0.44	0.46	0.45	0.37	0.42	0.39	0.45	0.47	0.45
Wealth index	Score (PCA)	1.46	1.51	1.47	1.67	1.46	1.58	1.46	1.51	1.46
Food insecurity	Total months hh experienced food insecuri	i 3.11*	3.28*	3.13	3.02	2.63	2.84	3.11**	3.35**	3.14
Household with an acceptable FC profile	% of total household	0.62***	0.73***	0.63	0.68**	0.79**	0.73	0.62***	0.73***	0.63
Education of the head of the household	% with no education	0.69***	0.73***	0.7	0.65**	0.77**	0.71	0.69***	0.73***	0.7
Education of the head of the household	% with primary education	0.19	0.19	0.19	0.25	0.2	0.23	0.19	0.19	0.19
Education of the head of the household	% with secondary education	0.10***	0.07***	0.09	0.08**	0.03**	0.06	0.10***	0.07***	0.1
Education of the head of the household	% with tertiary education	0.02**	0.01**	0.02	0.01*	0.00*	0.01	0.02*	0.01*	0.02
Distance to nearest agricultural markets	Km.	21.76***	27.42***	22.4	22.11***	33.99***	27.5	21.75***	26.70***	* 22.2
Distance to nearest water bodies	Km.	44.63***	2.04***	40.1	36.25***	1.89***	20.6	44.75***	2.05***	40.5
Households with owned or cultivated land	%	0.79	0.78	0.79	0.79***	0.56***	0.69	0.79	0.8	0.79
					•	awi: Rur				
Fish consumption	Kg. per household /per week	0.62***	1.62***	0.77	1.15***	3.33***	2.33	0.61***	1.39***	0.72
Fish consumption from own-production	% of total fish consumed	0.01***	0.06***	0.01	0.21***	0.42***	0.33	0.00***	0.01***	0
Poor household	% of total households	0.52**	0.49**	0.52	0.47	0.43	0.45	0.52	0.5	0.52
Wealth index	Score (PCA)	1.17***	1.33***	1.19	1.36	1.3	1.33	1.16***	1.34***	1.18
Food insecurity	Total months hh experienced food insecuri	i 3.53**	3.29**	3.5	3.64***	2.57***	3.1	3.53	3.37	3.51
Household with an acceptable FC profile	% of total household	0.55***	0.72***	0.57	0.59***	0.79***	0.69	0.55***	0.71***	0.56
Education of the head of the household	% with no education	0.77	0.76	0.77	0.75	0.76	0.76	0.77	0.76	0.77
Education of the head of the household	% with primary education	0.17	0.18	0.17	0.24	0.21	0.22	0.17	0.18	0.17
Education of the head of the household	% with secondary education	0.05	0.05	0.05	0.01	0.03	0.02	0.05	0.06	0.05
Education of the head of the household	% with tertiary education	0	0	0	0	0	0	0	0	0
Distance to nearest agricultural markets	Km.	25.16***	30.83***	25.8	26.71***	35.67***	31.2	25.13***	30.26***	* 25.7
Distance to nearest water bodies	Km.	42.84***	1.89***	38.2	29.23***	1.88***	15.6	43.03***	1.89***	38.7
Households with owned or cultivated land	%	0.91***	0.80***	0.9	0.91***	0.55***	0.73	0.91***	0.82***	0.9
					Mala	awi: Urba	an			
Fish consumption	Kg. per household /per week	1.34	1.47	1.35	2.15**	3.66**	2.57	1.33	1.3	1.33
Fish consumption from own-production	% of total fish consumed	0.00***	0.03***	0	0.04***	0.31***	0.11	0	0	0
Poor household	% of total households	0.13***	0.31***	0.14	0.03***	0.35***	0.11	0.13***	0.31***	0.14
Wealth index	Score (PCA)	2.66	2.62	2.66	2.71	3.03	2.79	2.66	2.59	2.65
Food insecurity	Total months hh experienced food insecuri	i 1.43***	3.25***	1.57			1.54	1.43***		1.57
	% of total household	0.91***	0.81***	0.91	1.00***	0.77***	0.94	0.91***	0.82***	0.9
Household with an acceptable FC profile	70 Of total flousefield									
Household with an acceptable FC profile Education of the head of the household	% with no education	0.37***	0.58***	0.38	0.32***	0.87***	0.46	0.37***	0.56***	0.38
• •		0.37*** 0.28*	0.58*** 0.22*	0.38 0.28	0.32*** 0.29	0.87*** 0.12	0.46 0.25	0.37*** 0.28	0.56*** 0.23	0.38

Education of the head of the household	% with tertiary education	0.07*	0.03*	0.07	0.06	0	0.05	0.07*	0.03*	0.07
Distance to nearest agricultural markets	Km.	7.92***	5.86***	7.76	6.82***	17.50***	9.51	7.93***	5.02***	7.72
Distance to nearest water bodies	Km.	51.88***	2.96***	48.1	59.61***	2.06***	45.1	51.75***	3.03***	48.2
Households with owned or cultivated land	%	0.30***	0.65***	0.32	0.40**	0.71**	0.48	0.29***	0.65***	0.32

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Kg. per household per week : average based on households who reported to consume fish value is missing if insufficient observations for statistically significant average

Supplementary Table 6 Fishing HHs vs non-fishing HHs - fish consumption, dietary diversity and multiple poverty indicators for Tanzania

	s - isn consumption, decary diversity and manapic pove	_	Iousehold			Househ	olds	Non-fishi	ng Hous	eholds
					Tanza	nia: Natio	onal			
Indicator	Measure			Total	>5 Km.	<=5 Km	Total			Total
Fish consumption	Kg. per household /per week		1.82***	0.98	1.36***	2.99***	2.24	0.71***		
Fish consumption from own-production	% of total fish consumed	0.01***	0.03***	0.01	0.17	0.18	0.18	0.00***	0.01***	0
Poor household	% of total households	0.46***	0.37***	0.44	0.4	0.4	0.4	0.46***	0.37***	0.45
Wealth index	Score (PCA)	54.2	57.78	54.9	70.3	60.02	65	53.78	57.51	54.5
Food insecurity	Total months hh experienced food insecuri	1.46	1.37	1.44	1.13	1.45	1.3	1.47	1.36	1.45
Household with an acceptable FC profile	% of total household	0.87***	0.94***	0.89	0.95	0.99	0.97	0.87***	0.93***	0.88
Education of the head of the household	% with no education	0.24**	0.20**	0.23	0.18	0.15	0.16	0.24*	0.21*	0.24
Education of the head of the household	% with primary education	0.61**	0.56**	0.6	0.71	0.77	0.74	0.60***	0.53***	0.59
Education of the head of the household	% with secondary education	0.14***	0.21***	0.16	0.11	0.08	0.1	0.14***	0.23***	0.16
Education of the head of the household	% with tertiary education	0.01***	0.02***	0.01	0	0	0	0.01***	0.03***	0.01
Distance to nearest agricultural markets	Km.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Distance to nearest water bodies	Km.	41.85***	2.19***	33.8	34.99***	1.36***	17.5	42.02***	2.29***	34.5
Households with owned or cultivated land	%	0.75***	0.52***	0.7	0.81**	0.61**	0.71	0.75***	0.50***	0.7
	Tanzania: Rural									
Fish consumption	Kg. per household /per week	0.71***	2.09***	0.96	1.42***	2.86***	2.06	0.68***	1.93***	0.88
Fish consumption from own-production	% of total fish consumed	0.01***	0.04***	0.01	0.17	0.16	0.17	0.00***	0.01***	0
Poor household	% of total households	0.59	0.6	0.59	0.45	0.51	0.48	0.6	0.62	0.6
Wealth index	Score (PCA)	44.63	45.67	44.8	58.35	59.67	58.9	44.19	43.44	44.1
Food insecurity	Total months hh experienced food insecuri	1.55	1.58	1.55	1.28	1.55	1.4	1.56	1.58	1.56
Household with an acceptable FC profile	% of total household	0.85***	0.92***	0.86	0.95	0.98	0.97	0.85**	0.91**	0.86
Education of the head of the household	% with no education	0.29	0.28	0.28	0.21	0.12	0.17	0.29	0.3	0.29
Education of the head of the household	% with primary education	0.63	0.62	0.63	0.71	0.79	0.75	0.63	0.59	0.62
Education of the head of the household	% with secondary education	0.08	0.1	0.08	0.08	0.09	0.08	0.08	0.1	0.08
Education of the head of the household	% with tertiary education	0	0	0	0	0	0	0	0	0
Distance to nearest agricultural markets	Km.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A
Distance to nearest water bodies	Km.	44.38***	2.06***	38.1	34.89***	1.32***	20.4	44.69***	2.17***	39
Households with owned or cultivated land	%	0.91***	0.83***	0.9	0.86	0.79	0.83	0.91***	0.83***	0.9
						nia: Urb				
Fish consumption	Kg. per household /per week	0.76***	1.57***	1.03	0.89*	3.22*	2.76	0.76***	1.40***	0.96
Fish consumption from own-production	% of total fish consumed	0.00***	0.02***	0.01	0.19	0.21	0.2	0	0	0
Poor household	% of total households	0.15	0.15	0.15	0.08	0.21	0.18	0.15	0.14	0.15
Wealth index	Score (PCA)	77.50*	69.28*	75	159.17**	60.59**	82.4	76.65	70.05	74.7
Food insecurity	Total months hh experienced food insecuri	1.24	1.17	1.22	0.00*	1.29*	1.01	1.26	1.16	1.23
Household with an acceptable FC profile	% of total household	0.93*	0.95*	0.93	0.92	1	0.98	0.93	0.95	0.93
Education of the head of the household	% with no education	0.13	0.13	0.13	0	0.19	0.14	0.13	0.13	0.13
Education of the head of the household	% with primary education	0.55*	0.50*	0.53	0.69	0.74	0.73	0.55**	0.48**	0.53
Education of the head of the household	% with secondary education	0.3	0.32	0.3	0.31*	0.08*	0.13	0.3	0.34	0.31

Education of the head of the household	% with tertiary education	0.02**	0.04**	0.03	0	0	0	0.02***	0.05***	0.03
Distance to nearest agricultural markets	Km.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Distance to nearest water bodies	Km.	35.67***	2.32***	25.4	35.70***	1.43***	9	35.67***	2.39***	25.9
Households with owned or cultivated land	%	0.35***	0.22***	0.31	0.39	0.33	0.34	0.35***	0.21***	0.31

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Kg. per household per week : average based on households who reported to consume fish value is missing if insufficient observations for statistically significant average

Supplementary Table 6 Fishing HHs vs non-fishing HHs - fish consumption, dietary diversity and multiple poverty indicators for Uganda

All Households Fishing Households N						Non-fishi	ng Hous	eholds		
						da: Natio				
Indicator	Measure	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
Fish consumption	Kg. per household /per week	1.47	1.49	1.47	1.74	1.49	1.58	1.46	1.48	1.47
Fish consumption from own-production	% of total fish consumed	0.01***	0.09***	0.03	0.26	0.36	0.32	0.01***	0.03***	0.01
Poor household	% of total households	0.2	0.22	0.21	0.17	0.13	0.14	0.2	0.23	0.21
Wealth index	Score (PCA)	1.54	1.49	1.54	1.62	1.92	1.81	1.54	1.44	1.53
Food insecurity	Total months hh experienced food insecuri	1.42	1.46	1.42	1.09	1.47	1.34	1.42	1.46	1.42
Household with an acceptable FC profile	% of total household	0.89	0.91	0.89	0.96	0.84	0.88	0.89	0.91	0.89
Education of the head of the household	% with no education	0.28	0.25	0.28	0.40***	0.02***	0.16	0.28	0.28	0.28
Education of the head of the household	% with primary education	0.49*	0.54*	0.5	0.41***	0.90***	0.73	0.49	0.49	0.49
Education of the head of the household	% with secondary education	0.17	0.18	0.17	0.17	0.08	0.11	0.17	0.19	0.17
Education of the head of the household	% with tertiary education	0.06**	0.03**	0.06	0.02	0	0.01	0.06*	0.04*	0.06
Distance to nearest agricultural markets	Km.	27.07***	* 33.96***	28.1	33.82***	* 49.94***	44.2	27.00***	31.90***	27.7
Distance to nearest water bodies	Km.	32.62***	* 2.57***	28.2	21.99***	* 2.00***	9.11	32.74***	2.64***	28.7
Households with owned or cultivated land	%	0.53***	0.41***	0.52	0.49	0.5	0.5	0.53***	0.40***	0.52
					Uga	nda: Rur	al	•		
Fish consumption	Kg. per household /per week	1.44	1.53	1.46	1.92	1.54	1.67	1.43	1.52	1.45
Fish consumption from own-production	% of total fish consumed	0.02***	0.11***	0.04	0.32	0.39	0.37	0.01***	0.04***	0.01
Poor household	% of total households	0.24	0.25	0.24	0.19	0.13	0.15	0.24	0.27	0.24
Wealth index	Score (PCA)	1.4	1.4	1.4	1.51	1.95	1.8	1.4	1.31	1.39
Food insecurity	Total months hh experienced food insecuri	1.64	1.7	1.65	1.28	1.55	1.46	1.65	1.72	1.66
Household with an acceptable FC profile	% of total household	0.9	0.91	0.9	0.95	0.83	0.87	0.9	0.93	0.9
Education of the head of the household	% with no education	0.28	0.24	0.27	0.30***	0.02***	0.11	0.28	0.28	0.28
Education of the head of the household	% with primary education	0.54**	0.61**	0.55	0.48***	0.90***	0.76	0.54	0.56	0.54
Education of the head of the household	% with secondary education	0.14	0.13	0.14	0.2	0.08	0.12	0.14	0.13	0.14
Education of the head of the household	% with tertiary education	0.04*	0.02*	0.03	0.02	0	0.01	0.04	0.02	0.04
Distance to nearest agricultural markets	Km.	30.84***	*38.80***	32	33.96***	*49.11***	44.1	30.80***	37.03***	31.6
Distance to nearest water bodies	Km.	35.82***	* 2.55***	31	23.96***	* 1.96***	9.28	35.97***	2.65***	31.7
Households with owned or cultivated land	%	0.65***	0.54***	0.63	0.57	0.53	0.54	0.65***	0.54***	0.63
					Ugai	nda: Urba	an			
Fish consumption	Kg. per household /per week	1.52	1.36	1.5				1.53	1.39	1.51
Fish consumption from own-production	% of total fish consumed	0	0	0				0	0	0
Poor household	% of total households	0.1	0.12	0.11				0.1	0.13	0.11
Wealth index	Score (PCA)	1.97	1.75	1.94				1.97	1.76	1.94
Food insecurity	Total months hh experienced food insecuri	0.73	0.8	0.74				0.73	0.81	0.74
Household with an acceptable FC profile	% of total household	0.85	0.88	0.85				0.85	0.88	0.85
Education of the head of the household	% with no education	0.3	0.27	0.29				0.29	0.28	0.29
Education of the head of the household	% with primary education	0.34	0.33	0.33				0.34	0.31	0.33
Education of the head of the household	% with secondary education	0.23*	0.31*	0.24				0.23**	0.32**	0.25
	•							•		

Education of the head of the household	% with tertiary education	0.14 0.08 0.13	0.14 0.09 0.13
Distance to nearest agricultural markets	Km.	15.59** 20.10** 16.3	15.48* 19.03* 16
Distance to nearest water bodies	Km.	22.88*** 2.63*** 19.8	22.96*** 2.63*** 19.9
Households with owned or cultivated land	%	0.20*** 0.04*** 0.17	0.20*** 0.04*** 0.17

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Kg. per household per week : average based on households who reported to consume fish value is missing if insufficient observations for statistically significant average

Supplementary Table 6 Fishing HHs vs non-fishing HHs - fish consumption, dietary diversity and multiple poverty indicators for all countries

Supplementary Table 6 Fishing 1111s vs non-fishing 1111s	in company dealy diversity and multiple po	All Households		Non-fishing Households
			All countries: Nationa	Ü
Indicator	Measure	>5 Km. <=5 Km Tot	tal >5 Km. <=5 Km Tota	al >5 Km. <=5 Km Total
Fish consumption	Kg. per household /per week	0.86*** 1.74*** 1.0	1.42*** 2.76*** 2.15	0.84*** 1.58*** 0.98
Fish consumption from own-production	% of total fish consumed	0.01*** 0.04*** 0.0	0.18* 0.24* 0.22	0.00*** 0.01*** 0
Poor household	% of total households	0.39*** 0.35*** 0.3	88 0.36 0.33 0.35	0.39*** 0.35*** 0.38
Wealth index	Score (PCA)	28.39*** 37.52*** 29.	.9 48.51* 38.97* 43.4	28.00*** 37.35*** 29.5
Food insecurity	Total months hh experienced food insect	euri 1.80*** 1.63*** 1.7	7 1.43 1.59 1.52	1.81*** 1.64*** 1.78
Household with an acceptable FC profile	% of total household	0.82*** 0.90*** 0.8	34 0.91 0.93 0.92	0.82*** 0.90*** 0.83
Education of the head of the household	% with no education	0.35*** 0.28*** 0.3	34 0.29*** 0.19*** 0.24	0.35*** 0.29*** 0.34
Education of the head of the household	% with primary education	0.49** 0.51** 0.4	9 0.59*** 0.74*** 0.6	0.48 0.48 0.48
Education of the head of the household	% with secondary education	0.14*** 0.19*** 0.1	5 0.11 0.08 0.09	0.14*** 0.20*** 0.15
Education of the head of the household	% with tertiary education	0.03 0.02 0.0	0.01 0 0	0.03 0.03 0.03
Distance to nearest agricultural markets	Km.	24.75*** 31.66*** 25	.7 27.91***44.82*** 37.5	5 24.71*** 30.05*** 25.3
Distance to nearest water bodies	Km.	39.89*** 2.26*** 33	.6 33.15*** 1.58*** 16.2	2 40.02*** 2.34*** 34.2
Households with owned or cultivated land	%	0.70*** 0.52*** 0.6	0.75*** 0.58*** 0.66	0.70*** 0.52*** 0.67
			All countries: Rural	•
Fish consumption	Kg. per household /per week	0.79*** 1.88*** 0.9	08 1.45*** 2.61*** 2.03	0.77*** 1.73*** 0.92
Fish consumption from own-production	% of total fish consumed	0.01*** 0.06*** 0.0	0.20* 0.26* 0.23	0.00*** 0.02*** 0
Poor household	% of total households	0.48 0.48 0.4	8 0.41 0.38 0.4	0.48 0.49 0.48
Wealth index	Score (PCA)	22.45*** 24.62*** 22	.8 41.29* 32.89* 37.3	22.02 23.34 22.2
Food insecurity	Total months hh experienced food insect	euri 2.03* 1.93* 2.0	2 1.62 1.7 1.66	
Household with an acceptable FC profile	% of total household	0.80*** 0.88*** 0.8	81 0.9 0.91 0.9	0.79*** 0.88*** 0.8
Education of the head of the household	% with no education	0.40*** 0.36*** 0.3	9 0.30*** 0.18*** 0.24	0.4 0.38 0.4
Education of the head of the household	% with primary education	0.50*** 0.54*** 0.5	5 0.61*** 0.74*** 0.67	0.5 0.51 0.5
Education of the head of the household	% with secondary education	0.09 0.1 0.0	9 0.09 0.08 0.08	0.09 0.1 0.09
Education of the head of the household	% with tertiary education	0.01** 0.01** 0.0	0 0 0	0.01 0.01 0.01
Distance to nearest agricultural markets	Km.	28.27*** 35.72*** 29	.2 30.50***44.92*** 39.2	2 28.24*** 34.34*** 29
Distance to nearest water bodies	Km.	41.63*** 2.17*** 36	.1 32.37*** 1.61*** 17.1	41.83*** 2.26*** 36.9
Households with owned or cultivated land	%	0.84*** 0.74*** 0.8	0.82*** 0.67*** 0.75	0.84*** 0.75*** 0.82
			All countries: Urban	
Fish consumption	Kg. per household /per week	1.00*** 1.54*** 1.1		
Fish consumption from own-production	% of total fish consumed	0.00*** 0.02*** 0.0		7 0.00* 0.00* 0
Poor household	% of total households	0.13 0.15 0.1	4 0.05* 0.21* 0.16	0.13 0.15 0.14
Wealth index	Score (PCA)	45.42*** 56.41*** 48.	.1 92.62 55.45 67	44.92*** 56.48*** 47.6
Food insecurity	Total months hh experienced food insect	euri 1.14 1.21 1.1	5 0.25*** 1.31*** 0.98	3 1.15 1.2 1.16
Household with an acceptable FC profile	% of total household	0.90*** 0.93*** 0.9	0.95 0.99 0.98	0.90*** 0.93*** 0.91
Education of the head of the household	% with no education	0.21*** 0.17*** 0.5		0.21*** 0.17*** 0.2
Education of the head of the household	% with primary education	0.45 0.46 0.4	5 0.47** 0.72** 0.65	0.45 0.44 0.45

Education of the head of the household	% with secondary education	0.28**	0.31**	0.29	0.26***	0.07***	0.13	0.28***	0.33***	0.29
Education of the head of the household	% with tertiary education	0.06	0.05	0.06	0.02	0	0.01	0.06	0.05	0.06
Distance to nearest agricultural markets	Km.	12.66***	16.93***	13.2	16.77***	43.45***	25.2	12.62***	16.02***	13
Distance to nearest water bodies	Km.	34.93***	2.39***	27.1	37.89***	1.51***	12.8	34.90***	2.46***	27.5
Households with owned or cultivated land	%	0.30***	0.21***	0.28	0.33	0.33	0.33	0.30***	0.20***	0.28

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Kg. per household per week : average based on households who reported to consume fish value is missing if insufficient observations for statistically significant average

Supplementary Table 7 Dietary diversity (food consumption score) by proximity to water bodies

	ľ	Vational			Rural		Urban		
	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
					Malawi				
Food consumption score	43.63	43.65	43.63	39.41***	43.15***	39.83	60.83***	46.81***	59.75
Food consumption profile==poor	0.16***	0.10***	0.16	0.20***	0.11***	0.19	0.03	0.05	0.03
Food consumption profile==borderline	0.39	0.38	0.39	0.45***	0.39***	0.45	0.15***	0.33***	0.16
Food consumption profile==acceptable/food secure	0.44***	0.52***	0.45	0.35***	0.50***	0.37	0.82***	0.62***	0.81
Total months hh experienced food insecurity	3.11*	3.28*	3.13	3.53**	3.29**	3.5	1.43***	3.25***	1.57
				7	Γanzania				
	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
Food consumption score	56.03***	61.54***	57.15	54.39***	59.10***	55.09	60.03***	63.85***	61.21
Food consumption profile==poor	0.05***	0.02***	0.05	0.06*	0.03*	0.05	0.03	0.02	0.03
Food consumption profile==borderline	0.18***	0.10***	0.17	0.21***	0.10***	0.19	0.11	0.1	0.11
Food consumption profile==acceptable/food secure	0.77***	0.88***	0.79	0.73***	0.87***	0.75	0.85	0.89	0.86
Total months hh experienced food insecurity	1.46	1.37	1.44	1.55	1.58	1.55	1.24	1.17	1.22
					Uganda				
	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
Food consumption score	58.65	58.13	58.58	57.41	57.68	57.45	62.48	59.41	62.01
Food consumption profile==poor	0.06	0.07	0.06	0.04**	0.07**	0.05	0.11	0.07	0.11
Food consumption profile==borderline	0.13**	0.09**	0.12	0.14**	0.10**	0.14	0.09	0.08	0.09
Food consumption profile==acceptable/food secure	0.81	0.84	0.82	0.82	0.83	0.82	0.8	0.86	0.81
Total months hh experienced food insecurity	1.42	1.46	1.42	1.64	1.7	1.65	0.73	0.8	0.74
					l countries				
	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
Food consumption score		58.48***		51.76***	55.75***	52.32	60.80**	62.47**	61.2
Food consumption profile==poor	0.08***	0.04***	0.07	0.09***	0.06***	0.08	0.05***	0.03***	0.05
Food consumption profile==borderline	0.21***	0.13***	0.2	0.25***	0.15***	0.23	0.11	0.1	0.11
Food consumption profile==acceptable/food secure	0.71***	0.82***	0.73	0.67***	0.79***	0.68	0.83***	0.87***	0.84
Total months hh experienced food insecurity	1.80***	1.63***	1.77	2.03*	1.93*	2.02	1.14	1.21	1.15

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

Supplementary Table 8 Multiple poverty indicators by proximity to water bodies

Supplementary Table 6 Municiple poverty indicators by proximity to wa	-	National			Rural			Urban	
	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
				N	Ialawi				
Poor household % of total househods	0.44	0.46	0.45	0.52**	0.49**	0.52	0.13***	0.31***	0.14
Wealth index Score (PCA)	1.46	1.51	1.47	1.17***	1.33***	1.19	2.66	2.62	2.66
Per-capita expenditure International US\$	2.93	2.86	2.92	2.08***	2.84***	2.17	6.37	2.97	6.11
Distance to nearest agricultural markets Km.	21.76***	27.42***	22.37	25.16***	30.83***	25.8	7.92***	5.86***	7.76
Education of the head of the household % with no education	0.69***	0.73***	0.7	0.77	0.76	0.77	0.37***	0.58***	0.38
Education of the head of the household % with primary educa-	ation 0.19	0.19	0.19	0.17	0.18	0.17	0.28*	0.22*	0.28
Education of the head of the household % with secondary edu	ocation 0.10***	0.07***	0.09	0.05	0.05	0.05	0.28***	0.17***	0.27
Education of the head of the household % with tertiary educa	tion 0.02**	0.01**	0.02	0	0	0	0.07*	0.03*	0.07
Households with cultivated and/or owned land % of total househods	0.79	0.78	0.79	0.91***	0.80***	0.9	0.30***	0.65***	0.32
				Та	ınzania				
Poor household % of total househods	0.46***	0.37***	0.44	0.59	0.6	0.59	0.15	0.15	0.15
Wealth index Score (PCA)	54.2	57.78	54.93	44.63	45.67	44.79	77.50*	69.28*	74.96
Per-capita expenditure International US\$	3.70***	4.66***	3.89	2.74	2.58	2.72	6.03**	6.63**	6.22
Distance to nearest agricultural markets Km.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Education of the head of the household % with no education	0.24**	0.20**	0.23	0.29	0.28	0.28	0.13	0.13	0.13
Education of the head of the household % with primary education	ation 0.61**	0.56**	0.6	0.63	0.62	0.63	0.55*	0.50*	0.53
Education of the head of the household % with secondary edu		0.21***	0.16	0.08	0.1	0.08	0.3	0.32	0.3
Education of the head of the household % with tertiary educa	tion 0.01***	0.02***	0.01	0	0	0	0.02**	0.04**	0.03
Households with cultivated and/or owned land % of total househods	0.75***	0.52***	0.7	0.91***	0.83***	0.9	0.35***	0.22***	0.31
				U	ganda				
Poor household % of total househods	0.2	0.22	0.21	0.24	0.25	0.24	0.1	0.12	0.11
Wealth index Score (PCA)	1.54	1.49	1.54	1.4	1.4	1.4	1.97	1.75	1.94
Per-capita expenditure International US\$	3.10***	3.74***	3.2	2.47*	2.85*	2.53	5.05**	6.26**	5.23
Distance to nearest agricultural markets Km.	27.07***	33.96***	28.08	30.84***	38.80***	31.99	15.59**	20.10**	16.27
Education of the head of the household % with no education	0.28	0.25	0.28	0.28	0.24	0.27	0.3	0.27	0.29
Education of the head of the household % with primary education		0.54*	0.5	0.54**	0.61**	0.55	0.34	0.33	0.33
Education of the head of the household % with secondary edu		0.18	0.17	0.14	0.13	0.14	0.23*	0.31*	0.24
Education of the head of the household % with tertiary educa		0.03**	0.06	0.04*	0.02*	0.03	0.14	0.08	0.13
Households with cultivated and/or owned land % of total househods	0.54***	0.41***	0.52	0.65***	0.54***	0.63	0.20***	0.04***	0.17
					countries				
Poor household % of total househods	0.39***	0.35***	0.38	0.48	0.48	0.48	0.13	0.15	0.14
Wealth index Score (PCA)	28.39***	37.52***	29.93	22.45***	24.62***	22.75	45.42***	56.41***	48.07
Per-capita expenditure International US\$	3.37***	4.21***	3.51	2.51	2.71	2.54	5.83	6.42	5.97
Distance to nearest agricultural markets Km.	24.75***	31.66***	25.65	28.27***	35.72***	29.24	12.66***		13.19
Education of the head of the household % with no education	0.35***	0.28***	0.34	0.40***	0.36***	0.39	0.21***	0.17***	0.2
Education of the head of the household % with primary education		0.51**	0.49	0.50***	0.54***	0.5	0.45	0.46	0.45
Education of the head of the household % with secondary edu	ication 0.14***	0.19***	0.15	0.09	0.1	0.09	0.28**	0.31**	0.29

0.01** Education of the head of the household % with tertiary education 0.03 0.02 0.02 0.01** 0.01 0.06 0.05 0.06 Households with cultivated and/or owned land % of total househods 0.70*** 0.52*** 0.67 0.84*** 0.74*** 0.82 0.30*** 0.21*** 0.28

Supplementary Table 9 Estimated fish consumption - in KG / per capita / year - compared to FAO Supply Data, and scenario for increasing 1% fish supply

		Baseli	ne	
Country	Malawi	Tanzania	Uganda	Total
Survey Year	2017	2015	2011	
Sample number (households)	12447.0	3352.0	2916.0	18,715.0
Population from the survey	16,307,880	48,152,272	29,345,544	93,805,695
Size(household), weighted stats	4.3	4.7	5.7	5.0
Sample population	53,398	15,888	18,594	87,880
Fish cons.(household/per week)	0.9	1.0	1.5	1.0
Fish cons.(per capita/per week)*	0.21	0.20	0.25	0.2
grams per day	30	29	36	31
Fish cons.(per capita/per year)*, assuming 52.14 week per year	11.0	10.4	13.0	11.1
FAO Fish Supply Data Year	2017	2015	2014	
FAO Fish Supply (kg/capita/year)	9.5	7.2	14.5	
Difference Supply/Consumption	-1.5	-3.2	1.5	

*This is calculated by:

For each household in the survey, total household fish consumption is divided by the corresponding multiplying 1) * 52 weeks (annualized pc fish consumption) weighted avearge of 2)

Supplementary Table 10 Prices of animal source foods purchased by households (adjusted to constant 2010 international US\$)

			National			Rural		Urban		
						Malawi				
Food item	Measure	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total	>5 Km.	<=5 Km	Total
Fish	Constant 2010 prices per Kg (in international US\$)	1.39***	1.23***	1.37	1.34***	1.18***	1.32	1.54	1.56	1.54
Fresh fish	Constant 2010 prices per Kg (in international US\$)	1.60***	1.24***	1.49	1.32***	1.18***	1.26	1.95**	1.58**	1.9
Dried fish	Constant 2010 prices per Kg (in international US\$)	1.34***	1.19***	1.33	1.33***	1.14***	1.31	1.36	1.44	1.37
Other fish	Constant 2010 prices per Kg (in international US\$)	1.43***	1.08***	1.4	1.37***	1.03***	1.33	1.55	1.3	1.54
Poultry	Constant 2010 prices per Kg (in international US\$)	3.39	2.64	3.37	2.62	2.1	2.57	3.49	3.7	3.49
Goat	Constant 2010 prices per Kg (in international US\$)	2.5	2.31	2.49	2.49	2.3	2.48	2.53**	2.35**	2.52
Pork	Constant 2010 prices per Kg (in international US\$)	2.63	2.19	2.61	2.68	2.18	2.66	2.47	2.2	2.47
Beef	Constant 2010 prices per Kg (in international US\$)	2.61***	2.43***	2.6	2.48	2.51	2.48	2.69***	2.29***	2.67
Eggs	Constant 2010 prices per Kg (in international US\$)	2.16	2.14	2.15	2.18	2.21	2.18	2.13**	1.95**	2.12
						•				
Fish	Constant 2010 prices per Kg (in international US\$)	4.13***	3.56***	4	3.87***	2.85***	3.7	4.71***	4.21***	4.55
Fresh fish	Constant 2010 prices per Kg (in international US\$)	4.22***	3.45***	4.02	3.90***	2.66***	3.64	4.82***	4.13***	4.57
Dried fish	Constant 2010 prices per Kg (in international US\$)	4.00***	3.48***	3.91	3.85***	2.99***	3.73	4.42	4.18	4.36
Other fish	Constant 2010 prices per Kg (in international US\$)									
Poultry	Constant 2010 prices per Kg (in international US\$)	6.3	8.22	6.91	6.33	7.52	6.58	6.26	8.58	7.26
Goat	Constant 2010 prices per Kg (in international US\$)	5.44	7.18	5.64	5.44	8.07	5.68	5.44	5.67	5.49
Pork	Constant 2010 prices per Kg (in international US\$)	4.49	5.08	4.52	4.17	4.02	4.17	5.49	5.53	5.49
Beef	Constant 2010 prices per Kg (in international US\$)	5.72	5.7	5.71	5.01	5.7	5.11	6.45	5.71	6.23
Eggs	Constant 2010 prices per Kg (in international US\$)	4.57	4.49	4.55	4.61	3.67	4.49	4.55	4.61	4.57
						Uganda				
Fish	Constant 2010 prices per Kg (in international US\$)	4.29	4.17	4.26	3.94	3.96	3.95	4.84	4.63	4.81
Fresh fish	Constant 2010 prices per Kg (in international US\$)	4.69	4.29	4.58	4.38	3.99	4.24	5.04	5.59	5.11
Dried fish	Constant 2010 prices per Kg (in international US\$)	4.06	4.06	4.06	3.73	3.86	3.74	4.65	4.28	4.59
Other fish	Constant 2010 prices per Kg (in international US\$)									
Poultry	Constant 2010 prices per Kg (in international US\$)	5.59*	4.02*	5.24	5.82	4.75	5.56	5.45*	3.47*	5.03
Goat	Constant 2010 prices per Kg (in international US\$)	5.34	5.34	5.34	5.17	5.29	5.19	5.94	5.72	5.92
Pork	Constant 2010 prices per Kg (in international US\$)	4.4	4.68	4.42	4.24	4.54	4.27	5.25	5.83	5.28
Beef	Constant 2010 prices per Kg (in international US\$)	5.15	5.21	5.16	4.98	4.99	4.98	5.47	5.63	5.49
Eggs	Constant 2010 prices per Kg (in international US\$)	4.11	4.26	4.13	4.3	3.98	4.26	3.93***	4.45***	4.02
T1 1	G	2.251.1	2.221.1	221		l countries		2.00	4.00	4.04
Fish	Constant 2010 prices per Kg (in international US\$)	3.36**	3.23**	3.34	3.09***	2.54***	3	3.98	4.09	4.01
Fresh fish	Constant 2010 prices per Kg (in international US\$)	3.96***	3.21***	3.75	3.67***	2.48***	3.38	4.45***	4.06***	4.32
Dried fish	Constant 2010 prices per Kg (in international US\$)	2.99	3.03	3	2.87***	2.52***	2.82	3.33***	3.93***	3.44
Other fish	Constant 2010 prices per Kg (in international US\$)	1.43**	1.62**	1.44	1.37***	1.04***	1.33	1.55***	3.64***	1.68
Poultry	Constant 2010 prices per Kg (in international US\$)	5.21**	6.58**	5.5	5.82	6.2	5.9	4.83**	6.82**	5.26
Goat	Constant 2010 prices per Kg (in international US\$)	4.54***	5.99***	4.69	4.62***	6.31***	4.79	4.25***	5.25***	4.38
Pork	Constant 2010 prices per Kg (in international US\$)	3.94**	4.49**	3.98	3.79	4.02	3.8	4.50*	5.33*	4.58
Beef	Constant 2010 prices per Kg (in international US\$)	5.34	5.56	5.38	4.89*	5.39*	4.95	5.88	5.65	5.83
Eggs	Constant 2010 prices per Kg (in international US\$)	3.46***	3.98***	3.55	3.29*	3.01*	3.26	3.59***	4.39***	3.75

^{*} significant at 10%; ** significant at 5%; *** significant at 1%

value is missing if insufficient observations for statistically significant average

Supplementary Table 11 Variable description

All variables are obtained from the LSMS-ISA household survey, except for proximity to fishing grounds where geospatial data was obtained from the Global Lakes and Wetlands Database (GLWD) (Lehner & Döll, 2004), and the European Space Agency GlobCover databases for coastlines (ESA, 2009).

Variable	Description
	Description
Demographic Rural households	Household living in rural areas (as defined by the survey)
Urban households	Household living in ruran areas (as defined by the survey)
	Total number of household members
Household size	
Employment	Share of household members in employment over total household members
Age	Age of the head of the household
Male-headed household	Sex of the head of the household
Education of the head of the household: no	Education level attained by the head of the household: no education, primary, secondary or tertiary.
education, primary, secondary or tertiary	
Food Environments – physical and economic a	
Proximity to fishing grounds (km)	Distance to water bodies (km) where small-scale fisheries are known to occur; calculated as the shortest distance from the household location to any point of the nearest open water body (km). Anonymity was maintained by applying a 5km buffer around the household locations.
Distance to nearest agriculture market (km)	Distance to agriculture markets
Households unable to reach food market	Households who self-reported to be unable to reach the food market
Livelihoods: small-scale fishing households	Household with at least one member who engaged in small-scale fisheries (fishing, harvesting, processing and/or trading) in the past 12 months. In Uganda only households engaging in harvesting of fish were defined as fishing households, while in Malawi and Tanzania the definition of fishing household extends to also processing and trading. Households defined as fishing households were engaged in small-scale fisheries because the survey excluded commercial businesses, and livelihood activities were characterised by family labour inputs and a small volume of production.
Livelihoods: agriculture households	Household with at least one member who engaged in agriculture (non-fishing) in the past 12 months.
-	Household with no members who engaged in agriculture or fishing in the past 12 months.
Average prices (constant 2010 in international US\$) of household purchased food item per kg	Price of food item [fish, fresh fish, dried fish, other fish, poultry, goat, pork, beef, eggs] purchased and consumed over past 7 days based on average prices (constant 2010 in international US\$) per kg.
Socio-economic Impacts - poverty	
Capital assets - wealth index	Total number of assets owned by the household (durable goods - radio, bicycle, TV; utilities and infrastructure – access to protected water source and electricity) with an index developed using principal component analysis
Households with cultivated and/or owned land	Household with land
Per-capita monthly expenditure (local currency unit)	Monthly total expenditure by the household (divided by the total household members)
Share of households living below the national poverty line (local currency unit)	Percentage of households with per-capita monthly expenditure below the national poverty line based on cost of food and non-food basic needs (calculated by national authority) (World Bank, 2020).
Food Security – diets and seasonality of subject	tive food insecurity
Share (%) of households who consumed animal- source foods over the past 7 days	Percentage of households who self-reported to consume animal-source foods [fish, poultry, goat, pork, beef, eggs] at least once over 7 days.
Share (%) of households who consumed dried, fresh or other form of fish over the past 7 days	Percentage of households who self-reported to consume dried, fresh or other form of fish over 7 days.
Share (%) of households who consumed fish over the past 7 days from purchased, own production or other source (including gifts).	The share of households who obtained fish for consumption over the past 7 days via purchases, own production or other sources, including gifts.
Number of days households consumed fish over the past 7 days	Frequency of fish (general, dried, fresh and other) consumed over 7 days

Quantity of fish (general, dried, fresh and other) consumed over the past 7 days (kg/per week/per household)	Quantity of fish consumed; general and by form (dried, fresh and other), by the households acquired from purchased, own consumption or gifts
Food consumption score (FCS)	An index capturing food consumption profiles at the household level. Based on the diversity and frequency of food groups consumed over a 7-day recall period, with weights given to groups based on nutritional value. Validated as a proxy for energy sufficiency (quantity of food) (Leroy et al., 2015; World Food Programme, 2008).
Food consumption profile: poor, borderline, acceptable	Household with a food consumption score that is defined according to World Food Programme (2008) universal classification as poor (FCS<28), borderline (FCS>=28 and <41) or acceptable (FCS>=41), where acceptable represents food secure households.
Food insecure household over the past 12 months	Subjective food insecurity defined as households who have experienced a situation in the last 12 months when they did not have enough food to feed the household.
Total months household self-reported food insecurity over the past 12 months	The number of months during over the past 12 months that a household reported not having enough food to feed the household

Supplementary Table 12 Nutrient content of fish species caught from small-scale fisheries in the region and other animal source foods (per 100g edible food). Bold highlights the food items that contain the top three nutrient values for each nutrient. Data source: (FishBase, 2021; FAO et al, forthcoming; MAFOODS, 2019).

Food name / Fish species	Calcium	Iron	Selenium	Zinc		Vitamin A	Omega_3	Protein
(with local name)	(mg)	(mg)	(mcg)	(mg)		(mcg, RAE)	(DHA+EPA) (g)	(g)
Small* freshwater fish (fresh)								
Rastrineobola argentea (Dagaa)	836.85	3	32.2	5	2.78	82.22	0.59	18.03
Engraulicypris sardella (Usipa)	735.89	7.0	08 59.2	4	2.21	49.13	0.32	17.17
Stolothrissa tanganicae (Kapenta)	540.42	4.	13 46.3	7	2.96	25.11	0.45	17.91
Copadichromis virginalis (Utaka)	246.02	1.0	66 45.6	9	2.5	59.27	0.39	17.99
Protomelas similis	226.11	2.0	52.2	4	3.08	24.39	0.3	17.61
Limnothrissa miodon (Kapenta)	309.78	4.5	57 51.	9	2.8	10.39	0.51	18.09
Dried small freshwater fish								
Engraulicypris breianalis (Usipa)	1453	6	.2	-	25.4	66	-	67.2
Engraulicypris sardella (Usipa)	451	40	.6	-	-	-	-	45.7
Rhamphochromis esox (Mcheni)	1884	20	.3	-	-	-	-	39.8
Copadichromis inornatus (Utaka)	451	40	.6	-	-	-	-	45.7
Large* freshwater fish (fresh)								
Lates niloticus (Nile perch, mbuta)	133.57	1.	74 195.5	2	0.94	13.86	0.29	20
Oreochromis niloticus (Nile tilapia)	25.93	1.	79 74.2	2	1.91	3.77	0.41	17.34
Oreochromis karongae (Chambo)	19.93	1.	79 59.5	3	2.36	12.29	0.26	17.52
Clarias gariepinus (Catfish, Mlamba)	20.16	1	.6 73.3	1	0.55	32.3	0.25	17.34
Other animal-source foods								
Beef	1	7	.5	-	1.77	-	-	20.5
Beef (liver)	7	8	.8	-	3.5	4970	-	19.4
Goat	11	. 2	.4	-	3.45	0	-	17.5
Pork	10	1	.4	-	3.6	0	-	16.8
Chicken meat (with skin)	8	}	1	-	1.6	7	-	21.1
Chicken egg	39	1	.8	-	1.15	67	-	12.6
Cow's milk	120	0	.1	-	0.38	44	-	2.9

^{*}Fresh water fish species (small and large) are those most commonly caught from small-scale fisheries in Malawi, Tanzania and Uganda and are defined as small (maximum length <25cm) and large (maximum length >25cm). Their nutrient values are derived from FishBase and a nutrition modelling study. Data source: (FishBase, 2021; FAO et al., n.d.).

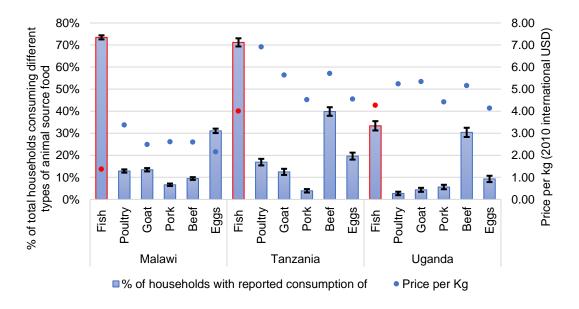
Note: Dried small freshwater fish and other animal-source foods and their nutrient values are derived from Malawi's Food Composition Table. Data source: (MAFOODS, 2019). Due to the different data sources and methods used in calculating the nutritional value of dried fish compared with fresh, no direct comparisons can be made between the two. Note that Engralicypris breianalis is the same species as E. sardella, and taxonomically E. breianalis is a misnomer. In addition, Utaka is a common local name for a mixture of many small pelagic cichlids from Lake Malawi.

FAO, Duke University, & WorldFish. (n.d.). Illuminating Hidden Harvests: The contribution of small-scale fisheries to sustainable development. FishBase. 2021. FishBase. www.fishbase.org. Accessed June 30, 2021 MAFOODS. (2019). *Malawian Food Composition Table 2019*.

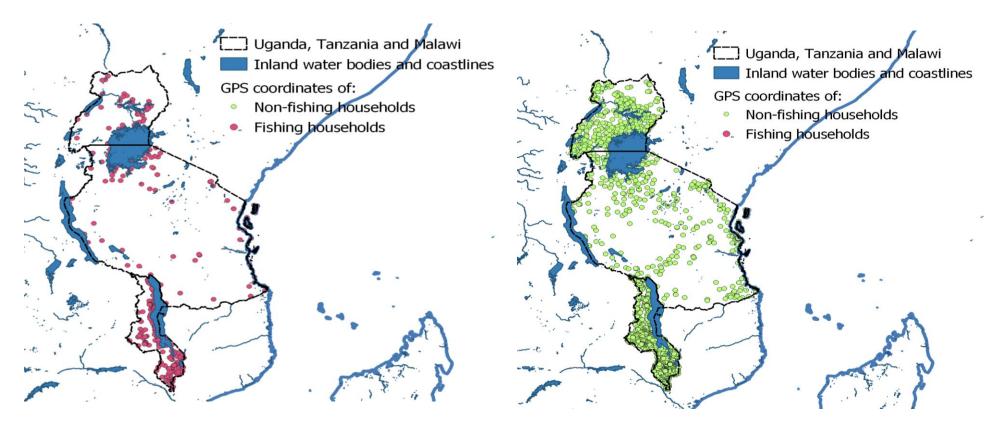
			% of l	households that c	onsumed:				Price per Kg		
		Mean	Std. Err.	Margin of error	[95% Conf.	Interval]	Mean	Std. Err.	Margin of error	[95% Conf.	Interval]
	Fish	73%	0.004729	0.009269232	72.55%	74.40%	1.37	0.011363	0.022271284	1.3501	1.3946
	Poultry	13%	0.003744	0.00733824	12.14%	13.61%	3.37	0.082527	0.161753116	3.2114	3.5350
Malawi	Goat	13%	0.003833	0.007513072	12.69%	14.20%	2.49	0.054781	0.107370564	2.3851	2.5999
Maiawi	Pork	7%	0.002855	0.005595996	6.07%	7.19%	2.61	0.136818	0.2681623	2.3455	2.8819
	Beef	9%	0.003197	0.006265924	8.84%	10.09%	2.60	0.01761	0.03451462	2.5671	2.6361
	Eggs	31%	0.005114	0.010022656	30.08%	32.09%	2.15	0.009829	0.01926484	2.1343	2.1729
	Fish	71%	0.009424	0.018471432	69.35%	73.05%	4.00	0.052562	0.103020736	3.9019	4.1080
	Poultry	17%	0.007613	0.014922068	15.41%	18.40%	6.91	0.637946	1.250373572	5.6635	8.1649
т::-	Goat	12%	0.007072	0.01386112	11.10%	13.87%	5.64	0.415386	0.814157148	4.8269	6.4557
Tanzania	Pork	4%	0.00396	0.007762384	3.13%	4.68%	4.52	0.134093	0.2628213	4.2618	4.7876
	Beef	40%	0.009908	0.0194187	37.92%	41.80%	5.71	0.221904	0.434932232	5.2793	6.1494
	Eggs	20%	0.008046	0.015769572	18.05%	21.20%	4.55	0.164774	0.32295606	4.2262	4.8723
	Fish	33%	0.010765	0.021099008	31.26%	35.48%	4.26	0.137479	0.26945786	3.9950	4.5342
	Poultry	3%	0.00401	0.007860384	1.91%	3.48%	5.24	0.436139	0.854831852	4.3868	6.0975
TT	Goat	4%	0.004623	0.009060884	3.43%	5.24%	5.34	0.091639	0.179613224	5.1608	5.5203
Uganda	Pork	6%	0.005172	0.010137904	4.60%	6.63%	4.42	0.080342	0.157469928	4.2650	4.5802
	Beef	30%	0.010684	0.020940444	28.30%	32.49%	5.16	0.032035	0.062788012	5.0955	5.2211
	Eggs	9%	0.007314	0.014334852	7.85%	10.71%	4.13	0.056921	0.11156516	4.0233	4.2465

Note: Confidence interval around the mean are calculated as: mean +/- margin of error

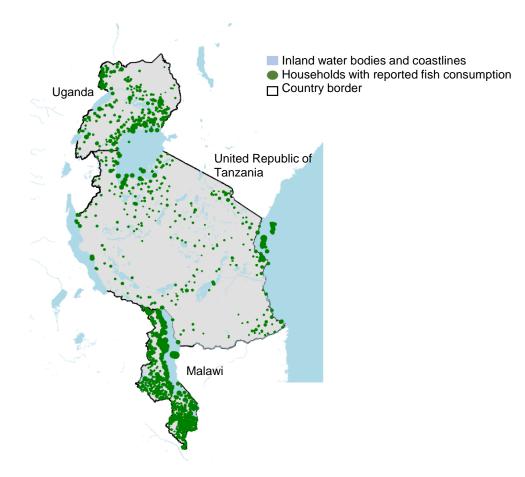
The confidence interval indicate that we are 95 % confident that the real mean of each calculated statstics is comprised which is the lower



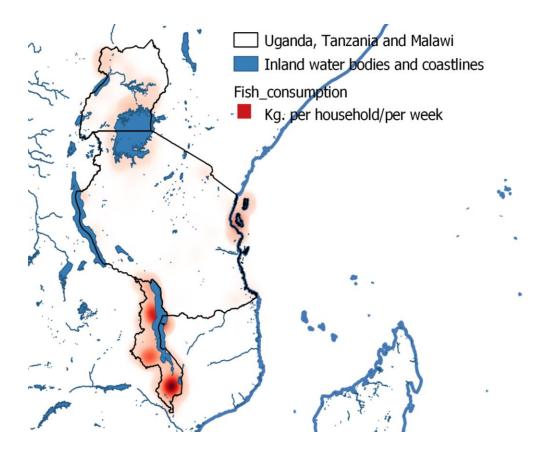
Supplementary Fig 1. Share of households (% of total) consuming animal source foods and prices of purchased food (average price per kilogram in international US\$). Red highlights fish. Lines show 95 % confidence interval (mean +/-1.96*standard error).



Spatial distribution of fishing households (red dots) and non-fishing households (green dots) by open inland water bodies (≥0.1 km2) and coastlines for Uganda, Tanzania and Malawi.



Supplementary Fig 2. Spatial distribution of households reporting any fish consumption (green dots) by open inland water bodies (≥0.1 km2) and coastlines for Uganda, Tanzania and Malawi. Analysis is of 18,715 households and approximately 87,879 people; a sample framed to be representative of the total population of each country (93.8 million population in total for all three countries). Data source: the World Bank's Living Standards Measurement Surveys and Integrated Surveys on Agriculture (LSMS-ISA) for Malawi (2016–17), Tanzania (2014–15) and Uganda (2010–11); Global Lakes and Wetlands Database (GLWD) (Lehner & Döll, 2004), and the European Space Agency GlobCover databases for coastlines (ESA, 2009).



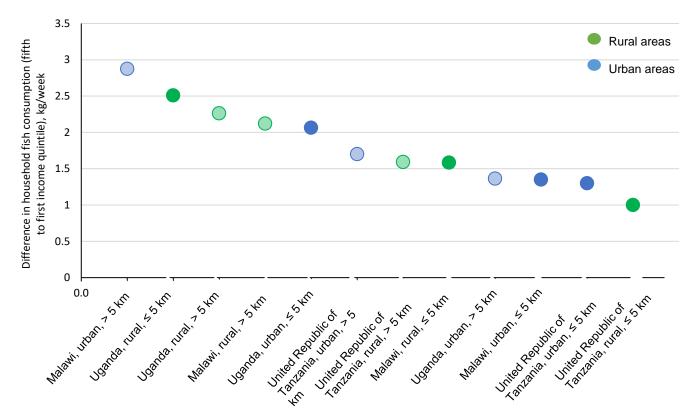
Spatial distribution of fish consumption (kg/household/week) by open inland water bodies (\geq 0.1 km2) and coastlines for Uganda, Tanzania and Malawi.

			Nat	ional	Ru	ral	Urban	
	Distance	Quintile	Mean fish consumption	Std. Err.	Mean fish consumption	Std. Err.	Mean fish consumption	Std. Err.
	>5 Km		1 0.42	0.0168263	0.42	0.015819	0.56	0.1545944
Molovvi	>3 Kili		5 1.27	0.0413091	0.88	0.0478636	1.61	0.0625937
Malawi	V		1 1.18	0.1113746	1.18	0.1133232	1.26	0.5340947
	<=5 Km		5 1.82	0.1798429	1.87	0.2289092	1.70	0.2123266
	>5 Km		1 0.53	0.0373447	0.53	0.0389429	0.49	0.0645484
Tanzania	>3 Kili		5 0.84	0.0484187	0.84	0.1118638	0.84	0.0508833
Tanzama	<=5 Km		1 1.37	0.1503724	1.44	0.170413	1.10	0.3123995
	<=3 Km		5 1.43	0.113695	1.49	0.197979	1.42	0.1264895
	>5 Km		1 0.99	0.0903261	0.95	0.08404	1.26	0.3843559
II	>3 Kili		5 1.87	0.176383	2.14	0.373277	1.72	0.1772149
Uganda	V		1 0.78	0.1040492	0.78	0.1064047	0.85	0.4708359
	<=5 Km		5 1.84	0.2872595	1.95	0.4264442	1.75	0.3863968
	>5 Km		1 0.56	0.027457	0.55	0.0278337	0.73	0.1405518
All countries	>3 Kili		5 1.13	0.0414617	1.07	0.082919	1.17	0.0454528
All coulities	<=5 Km		1 1.24	0.1028901	1.27	0.1105637	1.09	0.2735713
	<=3 Kill		5 1.52	0.0978253	1.73	0.1648694	1.46	0.1168233
		Ma	lawi graph (3) fish consum	otion				
			Rural		Urban			
		>5km	<=5 Km	>5km	<=5 Km			
	First quintile	0.42	1.18	0.56	1.26			
First	Std error	0.02	0.11	0.15	0.53			
Fifth	Fifth quintile	0.88	1.87	1.61	1.70			
FIIIII	Std error	0.05	0.23	0.06	0.21			
		Tan	zania graph (3) fish consum	ption				
			Rural	Urban				

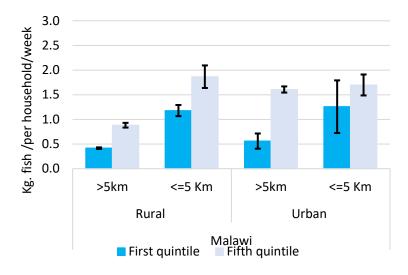
	r not quintino	***		0.00					
First	Std error	0.02	0.11	0.15	0.53				
E:AL	Fifth quintile	0.88	1.87	1.61	1.70				
Fifth	Std error	0.05	0.23	0.06	0.21				
	Tanzania graph (3) fish consumption								
		R	ural	U	Irban				
		>5km	<=5 Km	>5km	<=5 Km				
First	First quintile	0.53	1.44	0.49	1.10				
	Std error	0.04	0.17	0.06	0.31				
Fifth	Fifth quintile	0.84	1.49	0.84	1.42				
	Std error	0.11	0.20	0.05	0.13				
		Uganda	graph (3) fish consumpti	on					
		R	ural	U	Irban				
		>5km	<=5 Km	>5km	<=5 Km				
First	First quintile	0.95	0.78	1.26	0.85				
	Std error	0.08	0.11	0.38	0.47				
Fifth	Fifth quintile	2.14	1.95	1.72	1.75				
	Std error	0.37	0.43	0.18	0.39				

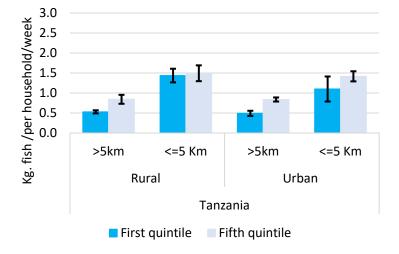
Data for Graph 4

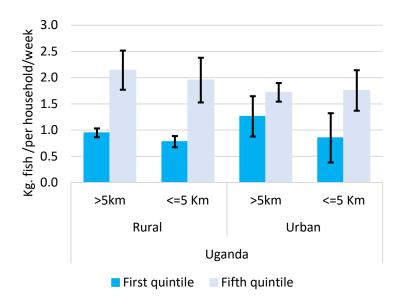
Uganda rural ≤5	Uganda rural >5 km	Malawi rural >5 km	Uganda urban ≤5 km	Tanzania urban >5 km
km				
2.5	2.3	2.1	2.1	1.7
Malawi urban	Tanzania urban ≤5 km	Tanzania rural ≤5 km	Tanzania rural >5 km	Malawi rural ≤5 km
≤5 km				
1.4	1.3	1	1.6	1.6
	km 2.5 Malawi urban ≤5 km	2.5 2.3 Malawi urban Tanzania urban ≤5 km ≤5 km	km 2.5 2.3 2.1 Malawi urban Tanzania urban ≤5 km Tanzania rural ≤5 km	km 2.5 2.3 2.1 2.1 Malawi urban Tanzania urban ≤5 km Tanzania rural ≤5 km Tanzania rural >5 km



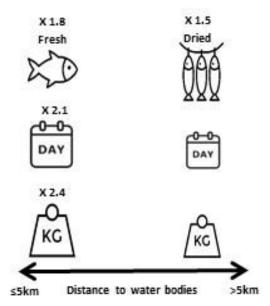
Supplementary Fig 4. Difference in the quantities of fish consumed (kg/household/week) between richest (fifth quintile) and poorest (first quintile) households, by rural and urban areas and proximate (<5km) or distant (>5km) from water bodies in Malawi, Tanzania and Uganda. Graph depicts greater inequalities in consumption of fish in contexts on the left, and lower inequalities on the right. Green represents rural areas, and blue urban, whilst solid colours represent proximate to fishing grounds, and faded distant.







Supplementary Fig 3. Fish consumption (kg/household/week) by richest (fifth quintile) and poorest (first quintile) households, in rural and urban areas that are proximate (<5km) or distant (>5km) from water bodies in Malawi, Tanzania and Uganda.



Supplementary Fig 5. Fish consumption by proximity to water bodies across rural Malawi, Tanzania and Uganda. Representing the average difference in the share of total households consuming dried and fresh fish, quantity of fish consumed (kg/household/week) and frequency (number of days out of 7 days).

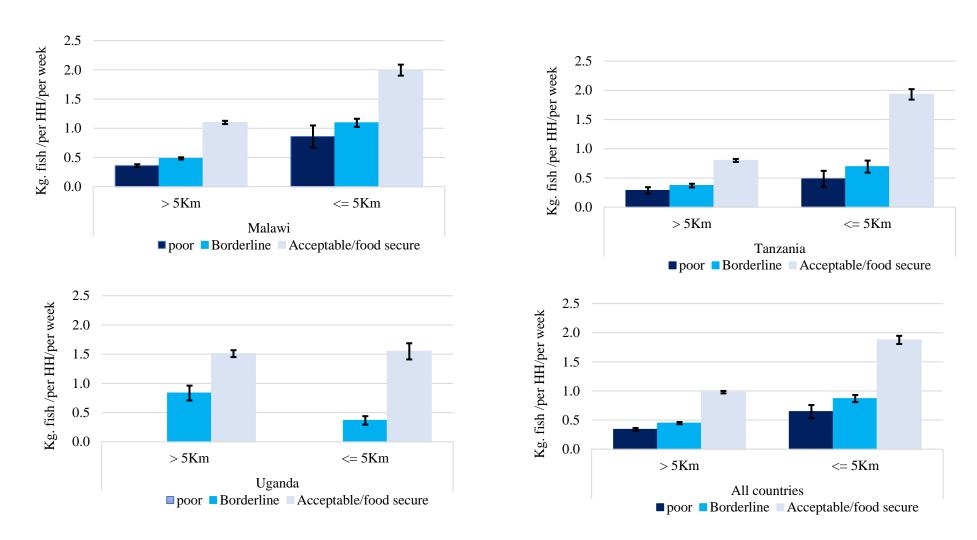
Malawi fish consumption

		Ma	Malawi	
		> 5Km	<= 5Km	
	poor	0.36	0.86	
Poor	Std error	0.02	0.19	
	Borderline	0.48	1.09	
Borderline	Std error	0.02	0.07	
	Acceptable/food secure	1.10	2.00	
Acceptable/food secure	Std error	0.03	0.09	

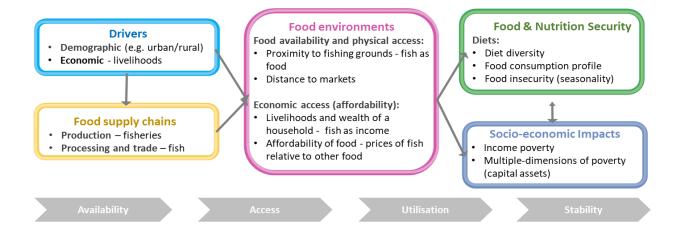
Tanzania fish consumption					
		Tar	Tanzania		
		> 5Km	<= 5Km		
	poor	0.29	0.48		
Poor	Std error	0.06	0.14		
	Borderline	0.37	0.69		
Borderline	Std error	0.03	0.10		
	Acceptable/food secure	0.80	1.93		
Acceptable/food secure	Std error	0.03	0.09		

Uganda fish consumption				
		Ug	Uganda	
		> 5Km	> 5Km <= 5Km	
	poor			
Poor	Std error			
	Borderline	0.83	0.37	
Borderline	Std error	0.13	0.07	
	Acceptable/food secure	1.51	1.55	
Acceptable/food secure	Std error	0.06	0.14	

All countries fish consumption					
		All c	ountries		
		> 5Km	<= 5Km		
	poor	0.34	0.65		
Poor	Std error	0.02	0.11		
	Borderline	0.45	0.87		
Borderline	Std error	0.02	0.06		
	Acceptable/food secure	0.98	1.88		
Acceptable/food secure	Std error	0.02	0.07		



Supplementary Fig 6. Fish consumption (average kg/household/week) by food consumption prome and proximity to water bodies. Note: food consumption profile is based on the household Food Consumption Score (FCS), which measures frequency and diversity of food groups con



Supplementary Fig 7. Conceptual framework. (Adapted from the Food Systems Framework (HLPE, 2017) with permission). Boxes and arrows represent the components and relationships analysed in the study.