Dependent: Moderate or Severe Household Hunger Independent Variables	Total (Pseudo R ² = .07)		Northern Karamoja (Pseudo R ² = .07)		Southern Karamoja $(R^2 = .12)$	
	Odds ratio (95% CI)	p-value	Odds ratio (95% CI)	p-value	Odds ratio (95% CI)	p-value
Household Composition						
Number of prime-aged adults (15-49)	0.98 (0.91 - 1.06)	0.63	1.01 (0.91 - 1.12)	0.81	0.93 (0.83 - 1.04)	0.21
Number of elder dependents (50 or older)	1.43 (1.08 - 1.88)	0.01*	1.08 (0.73 - 1.60)	0.70	1.70 (1.17 - 2.46)	0.01**
Number of young dependents (0-14)	1.04 (0.99 - 1.09)	0.13	1.02 (0.95 - 1.10)	0.53	1.06 (1.00 - 1.13)	0.07
Age of head of HH	0.99 (0.98 - 1.00)	0.02*	0.99 (0.97 - 1.01)	0.19	0.98 (0.97 - 1.00)	0.02*
Sex of head of HH (Female)	0.80 (0.60 - 1.06)	0.12	0.72 (0.54 - 0.96)	0.03*	1.02 (0.64 - 1.62)	0.93
Education level of head of HH (Primary vs. None)	1.00 (0.78 - 1.27)	0.98	0.99 (0.70 - 1.41)	0.96	1.07 (0.75 - 1.52)	0.72
Education level of head of HH (Secondary vs. None)	0.64 (0.41 - 1.02)	0.06	0.69 (0.38 - 1.24)	0.21	0.44 (0.24 - 0.82)	0.01*
Education level of head of HH (Higher vs. None)	0.80 (0.39 - 1.63)	0.54	1.06 (0.34 - 3.34)	0.91	0.48 (0.23 - 0.99)	0.05*
Household Consumption						
Living below the poverty line	0.93 (0.65 - 1.31)	0.66	1.03 (0.72 - 1.48)	0.88	0.73 (0.39 - 1.38)	0.34
Daily per capita food consumption (log)	1.28 (0.97 - 1.68)	0.08	1.73 (1.16 - 2.59)	0.01**	0.88 (0.61 - 1.27)	0.49
Household Agricultural Status						
Raised crops in the last 12 months	1.85 (1.41 - 2.42)	0.00**	1.05 (0.71 - 1.55)	0.80	3.45 (2.34 - 5.09)	0.00**
Number of farmers in the household	0.76 (0.61 - 0.95)	0.02*	0.74 (0.55 - 1.01)	0.06	0.86 (0.64 - 1.17)	0.34
Used at least 2 sustainable livestock practices	1.18 (0.84 - 1.67)	0.34	1.38 (0.75 - 2.54)	0.30	0.99 (0.69 - 1.43)	0.96
Used at least 2 sustainable crop practices	0.70 (0.53 - 0.93)	0.01*	0.68 (0.43 - 1.08)	0.10	0.66 (0.47 - 0.93)	0.02*
Used at least one sustainable NRM practice	0.80 (0.54 - 1.17)	0.24	0.79 (0.46 - 1.35)	0.39	0.84 (0.46 - 1.53)	0.58
Practiced value chain activities	0.87 (0.63 - 1.21)	0.41	1.38 (0.92 - 2.05)	0.12	0.54 (0.37 - 0.79)	0.00**
Using improved storage practices	0.76 (0.54 - 1.07)	0.12	0.80 (0.45 - 1.4)	0.43	0.65 (0.44 - 0.95)	0.03*
District ¹						
District: Kotido	2.24 (1.53 - 3.29)	0.00**	2.51 (1.71 - 3.68)	0.00**	N/A	-
District: Abim	3.51 (1.68 - 7.33)	0.00**	3.18 (1.33 - 7.6)	0.01*	N/A	-
District: Moroto	2.58 (1.07 - 6.22)	0.04*	N/A	-	2.12 (0.79 - 5.7)	0.13
District: Napak	1.36 (0.92 - 2.01)	0.12	N/A	-	N/A	-
District: Nakapiripirit	1.19 (0.82 - 1.73)	0.35	N/A	-	0.88 (0.61 - 1.23)	0.49
District: Amudat	0.55 (0.31 - 0.96)	0.04*	N/A	-	0.56 (0.32 - 0.96)	0.05*
(Constant)	1.77 (0.69 - 4.55)	0.23	0.89 (0.24 - 3.30)	0.86	5.93 (1.56 - 22.6)	0.01*
Number of households in final model	4,603		2,325		2,278	

¹ The reference district is Kaabong for the total sample and the Northern Karamoja models, and Napak for the Southern Karamoja model.

* p <.05

** p <.01

Table A9.2., Multiple Logistic Regression Model of Moderate or Severe Household Hunger for Southern Karamoia. including interaction terms Southern Karamoja Dependent: Moderate or Severe Household Hunger $(R^2 = .12)$ Odds ratio Independent Variables p-value (95% CI) **Household Composition** Number of prime-aged adults (15-49) 0.94 (0.84 - 1.05) 0.24 0.00** Number of elder dependents (50 or older) 1.71 (1.18 - 2.46) Number of young dependents (0-14) 1.06 (1.00 - 1.12) 0.07 0.01* Age of head of HH 0.98(0.97 - 1.00)Sex of head of HH (Female) 1.02 (0.65 - 1.62) 0.92 Education level of head of HH (Primary vs. None) 0.85 1.04 (0.72 - 1.50) Education level of head of HH (Secondary vs. None) 0.39(0.22 - 0.69)0.00** 0.05* Education level of head of HH (Higher vs. None) 0.47(0.22 - 0.98)**Household Consumption** Living below the poverty line 0.69(0.37 - 1.30)0.25 Daily per capita food consumption (log) 0.89 (0.62 - 1.29) 0.54 Household Agricultural Status 0.00** Raised crops in the last 12 months 4.01 (2.45 - 6.58) Number of farmers in the household 0.72 (0.48 - 1.10) 0.13 Used at least 2 sustainable livestock practices 0.22 1.81 (0.70 - 4.66) 0.02* Used at least 2 sustainable crop practices 0.65(0.46 - 0.93)Used at least one sustainable NRM practice 0.21 (0.03 - 1.48) 0.12 Practiced value chain activities 2.17 (1.01 - 4.66) 0.05* Using improved storage practices 1.55 (0.51 - 4.65) 0.43 Agricultural Interaction Terms¹ Raised crops*Number of farmers 1.22 (0.78 - 1.93) 0.38 Raised crops*Sustainable livestock 0.52 (0.16 - 1.68) 0.27 4.64 (0.62 - 34.7) 0.13 Raised crops*Sustainable NRM 0.00** 0.22(0.10 - 0.47)Raised crops*Value chain 0.09 Raised crops*Improved storage 0.39(0.13 - 1.17)District 2 District: Moroto 0.11 2.3 (0.83 - 6.13) District: Nakapiripirit 0.91(0.62 - 1.32)0.63 District: Amudat 0.05* 0.56(0.32 - 0.97)(Constant) 5.56 (1.30 - 23.7) 0.02* Number of households in final model 2,278

The "Raised crops" Sustainable crop practices" interaction term is ommitted because of collinearity

² The reference district is Napak

^{*} p <.05

^{**} p <.01

Dependent: Height for Age Z-score	Total (R ² = .05)		Northern Karamoja $(R^2 = .06)$		Southern Karamoja $(R^2 = .05)$	
Independent Variables	β	p-value	β	p-value	β	p-value
Child Characteristics	0.10	0.24	0.06	0.70	0.20	0.02*
Sex (Female) Age in months	0.18 -0.01	0.2 4 0.13	0.06 -0.02	0.78 0.09	0.38 -0.01	0.02 0.50
Age in months squared	0.00	0.73 0.79	0.02	0.09	0.00	0.30
Sex*age interaction	0.00	0.79	0.00	0.30 0.18	0.00	0.26
Child had diarrhea in the last 2 weeks	-0.26	0.02*	-0.27	0.78	-0.31	0.70
Household Composition	-0.20	0.02	-0.21	0.07	-0.51	0.02
Number of prime-aged adults (15-49)	0.01	0.83	-0.03	0.40	0.09	0.03*
Number of elder dependents (50 or older)	0.17	0.34	0.21	0.37	0.09	0.54
Number of young dependents (5-14)	0.04	0.31	0.10	0.05*	-0.05	0.13
Number of children (0-4)	0.04	0.46	0.02	0.70	0.04	0.52
Age of head of HH	-0.01	0.25	-0.02	0.22	0.00	0.81
Sex of head of HH (Female)	-0.24	0.20	-0.40	0.13	0.01	0.93
Education level of primary caretaker (Primary vs. None)	-0.39	0.06	-0.47	0.07	0.00	1.00
Education level of primary caretaker (Secondary vs. None)	0.30	0.07	0.29	0.14	-0.11	0.66
Education level of primary caretaker (Higher vs. None)	0.56	0.00**	0.60	0.00**	0.98	0.10
Household Socioeconomic Status						
Moderate or Severe Hunger	-0.17	0.14	-0.24	0.09	-0.06	0.67
Living below the poverty line	-0.25	0.16	-0.37	0.09	0.07	0.68
Daily per capita food consumption (log)	-0.05	0.43	0.02	0.87	-0.20	0.03*
Household Water and Sanitation	0.00		0.00		0.00	
Improved source of drinking water	-0.08	0.30	0.03	0.73	-0.20	0.08
Water treatment prior to drinking	0.15	0.22	0.22	0.20	0.08	0.49
Improved, not shared sanitation facility	0.16	0.20	0.23	0.13	-0.05	0.85
Cleansing agent and water available at handwashing station	0.43	0.08	0.47	0.06	0.10	0.74
Household Agricultural Status Raised crops in the last 12 months	-0.09	0.52	0.02	0.90	-0.27	0.03*
Used at least two sustainable crop practices (past 12 months)	0.01	0.94	-0.09	0.55	0.29	0.10
Used at least two sustainable livestock practices (past 12 months)	0.09	0.46	0.08	0.61	0.04	0.80
Used at least one sustainable NRM practice (past 12 months)	0.32	0.02*	0.57	0.00**	-0.05	0.76
Practiced the value chain activities	0.01	0.96	-0.06	0.60	0.08	0.52
Used improved storage practices (past 12 months)	0.00	0.98	0.03	0.77	-0.10	0.43
Number of farmers in the household	-0.13	0.20	-0.20	0.14	-0.01	0.94
District ¹						
District: Kotido	0.07	0.64	0.11	0.47	N/A	-
District: Abim	0.36	0.05*	0.42	0.03*	N/A	-
District: Moroto	-0.18	0.12	N/A	-	0.13	0.28
District: Napak	-0.31	0.00**	N/A	-	N/A	-
District: Nakapiripirit	0.00	0.98	N/A	-	0.30	0.00**
District: Amudat	0.28	0.40	N/A	-	0.50	0.09
(Constant)	-0.1	0.84	0.04	0.95	-0.76	0.10
Number of children (0-59 months) in final model	4,749		2,524		2,225	

¹ The reference district is Kaabong for the total sample and the Northern Karamoja models, and Napak for the Southern Karamoja model.

^{*} p <.05 ** p <.01