

APPENDIX B: LIST OF VILLAGES INCLUDED IN THE STUDY

AFAC DISTRICT

County Kwana

Sub-County Inyanga

Villages: Bai-hak
 Ahk-dingel
 Ategi
 Atai

Sub-County Nambazeu

Acolozole
 Egwer
 Bai-Mogo
 Agwei

County Maruni

Sub-County Ibiye

Villages: Lango-dyang
 Akete
 Aferidwogo
 Congolobn

Sub-County Cherezi

Apoli
 Arvorofoke
 Abwal-8
 Abwal-14

APPENDICES

SOROTI DISTRICT

County Scere

Sub-County Katera

Villages: Okalokalan
 Agur
 Orpe
 Oturickori

Sub-County Olio

Okulonyo
 Igala 1
 Omlai
 Akobei

County Kaberamaido

Sub-County Aba

Villages: Aoya "B"
 Atimg
 Oyo
 Palanu

Sub-County Oshere

Apai
 Awilmon
 Agule
 Awehu

APPENDIX 1: LIST OF VILLAGES INCLUDED IN THE STUDY

APAC DISTRICT

County Kwania

Sub-County Inomo

Villages Bar-Ittek
 Alik-Engel
 Acegi
 Alai

Sub-County Nambieso

Acokoaloo
 Egwor
 Bar-Mogo
 Agwei

County Maruzi

Sub-County Ibutje

Villages Langodyang
 Aketo
 Aberidwogo
 Congolobo

Sub-County Chegere

Apoki
 Arwotoleko
 Abwal "B"
 Aminkec "A"

SOROTI DISTRICT

County Serere

Sub-County Kateta

Villages Okulukulun
 Agurur
 Orupe
 Oburiekori

Sub-County Olio

Okulonyo
 Igola 1
 Obulai
 Akoboi

County Kaberamaido

Sub-County Alwa

Villages Aoya "B"
 Atingi
 Ojony
 Palatau

Sub-County Ocheru

Apai
 Awiimon
 Agule
 Awelu

Appendix 2: The Agro-ecological zones & Their Characteristic Economic Activities

MBALE DISTRICT

Farming System	District	Major crops	Major live-stock, fish & others	Rainfall (mm per year)	Soil type
	County Bubulo				
	<u>Sub-County Bumbo</u>		<u>Sub-County Bugobero</u>		
Villages	Bunanyama		Butsema		
	Bunamonyonyi		Bufumbula		
	Buwantsala		Buwasyeba		
	Bukimuna		Bugobero		
	County Budadiri				
	<u>Sub-County Buyobo</u>				
Villages	Bunabeha				
	Buweri				
	Bumusi				
	Bunabahala				
	County Bulambuli				
	<u>Sub-County Muyembe</u>				
Villages	Buluguya				
	Bunamuje				
	Butta				
	Bumuyoga				

Appendix 2: The Agro-ecological zones & Their Characteristic Economic Activities

Farming System	Districts	Major crops	Major live-stock, fish & others	Rainfall (mm pa.)	Soil Type
Teso	Soroti, Kumi	Millet, sorghum, gnuts, simsim, s.potato, cassava, cotton,	Beef cattle, goats, fish farming, apiary, poultry,	1065 to 1774	Moderate
Banana /coffee	Bundibugyo, parts of Hoima & Luwero Kabarole, Mubende, Mukono, Masaka, Jinja, Mpigi, Iganga, Kampala	R.Coffee, banana, maize, beans, s.potato, gnuts, cassava, tea, horticultural Crops,	Dairy cattle, pigs, apiary, poultry,	940 to 1438	Good to moderate
Banana/ f.millet/ Cotton	Pallisa, Tororo, Kamuli, parts of Masindi & Luwero	Cotton, R.coffee, beans, maize, f.millet	Dairy & beef cattle, poultry, goats, pigs apiary, floriculture	1056 to 1595	Moderate
Northern	Gulu, Lira, Apac, Kitgum	Cotton, tobacco, simsim, gnuts, f.millet, cassava, sorghum	Dairy & beef cattle, pigs, apiary, goats, fish farming, sericulture	1204 to 1822	Moderate to poor
West Nile	Moyo, Arua, Nebbi	Tobacco, cotton, A.Coffee, gnuts, simsim, cassava, fmillet, sorghum	Dairy & beef cattle, goats, piggery, apiary, fish farming, cashew nuts	1246 to 1670	Good to Poor
Montane	Kabale, Kisoro, Rukungiri, Kasese, parts of Mbarara, Mbale, Kapchorwa	A.Coffee, maize, banana, cotton, S & I. Potatoes, rice, beans,	Dairy cattle, goats, poultry, fish farming, Horti/ flori/ seri-culture	809 to 1427	Good to Moderate
Pastoral	Rakai, Kotido, Moroto, parts of Mbarara & Masaka, Luwero, Mpigi, Kiboga, Masindi, Bundibugyo	f.millet, cassava, sorghum, beans, maize	Dairy & beef cattle, goats, poultry, apiary, fish farming & cashew nuts	768 to 1115	Moderate to poor

Source: Uganda – Ministry of Finance & Economic Planning, 1996

Appendix 3: Variable Dictionary

Variables ¹¹	Definition	Unit
AGEFE_Q2	Dummy for age of the female 1= 26-35 yrs, 0 = others	Years
AGEFE_Q3	Dummy for age of the female 1= 36-45 yrs, 0 = others	
AGEFE_Q4	Dummy for age of the female 1 ≥46 yrs, 0 = others	
AGE_HHH	Age of the head of the household	Years
AFETO_IN	Ratio of average monthly female controlled income to total household income	
AVCALAE	Average daily calories available per adult equivalent	Calories
AVCATT_D	Dummy variable for owing cattle = 1, otherwise = 0	
AVGOATS	Average number of goats owned by the household	Number
AVHCI	Average quantity of food sold to that produced	
AVLSINC	Average income generated from livestock sales	Shillings
AV_NFEXP	Average monthly non-food expenditure	Shillings
AVNFINC	Average monthly income from non-farm activities	Shillings
BAN_MZD	Dummy variable for crop combination, Bananas & maize = 1, otherwise = 0	
CALAV_HH	Calories available for consumption after sales and losses	Calories
CALBUY_1	Sum of calories bought for consumption	Calories
CALORIAE	Daily calories available per adult equivalent	Calories
CALPROD1	Sum of calories produced	Calories
CALSLD_1	Sum of calories sold	Calories
CALSTO	Calories available as household stocks	Calories
CAS_CERD	Dummy variable for crop combination: Cassava & cereals = 1, otherwise = 0	
CCRP_INC	Sum of income generated from non-food cash crops	Shillings
CCRP_IND	Dummy variable for household generating income from non-food cash crops = 1, otherwise =0	
CHI_SIX	Children six years old or less	Number
CHISIX_D	Dummy variable for households with preschoolers = 1, others =0 Children attending primary school	
CHI_PS	Children attending post primary school	Number
CHI_SS	Dummy variable for households with children attending post primary education = 1, otherwise = 0	Number
CHISES_D		

¹¹ A variable that has the number 1,2 or 3 as part of the variable name indicates whether it is with respect to the first, second or third surveys, respectively.

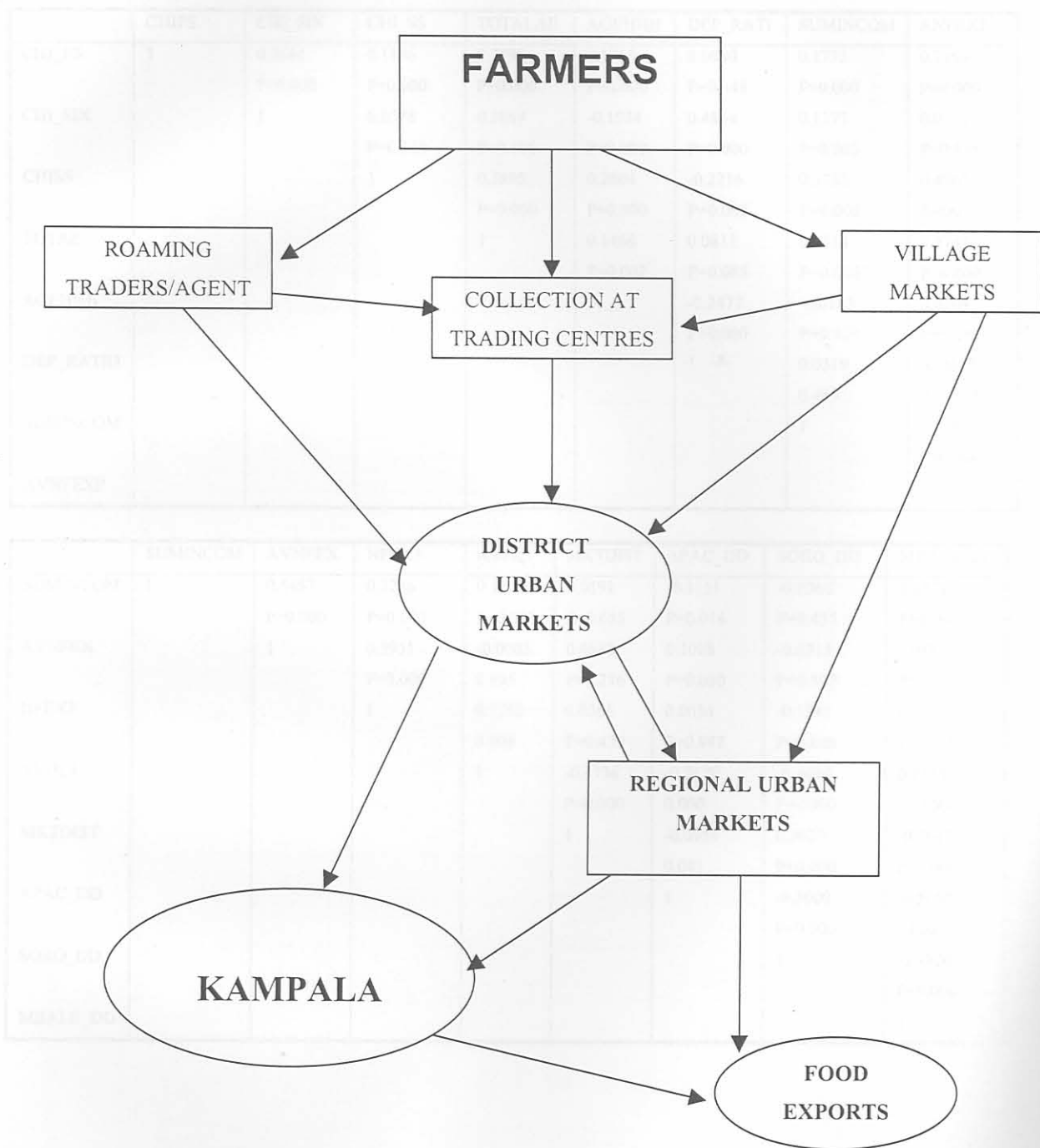
Appendix 3 cont.

APPENDIX 4: FOOD TRADE PATHWAYS

Variables	Definition	Unit
EDPP_HHD	Dummy variable for level of education attained by the head of the household: post-primary = 1, otherwise = 0	
EDPR_HHD	Dummy variable for level of education attained by the head of the household: primary = 1, otherwise = 0	
FEDU_PPR	Dummy variable for level of female education: 1 = post primary Education, 0 = others	
FEDU_PR	Dummy variable for level of female education: 1 = primary education, 0 = others	
FSSTAT1	Measure of food available to household	Calories
GEN_HHH	Gender of the head of the household, male = 1, female = 0	
HCI_1	Ratio of food sales to sum of food produced	
LND_USED	Area of farm land under production	Acres
MKT_DIST	Average distance to markets which household frequents	Km
OCC_FARM	Main occupation of the head of the household, farmer = 1, otherwise = 0	
SUMINCOM	Sum of traditional cash crop and non-farm income	Shillings



APPENDIX 4: FOOD TRADE PATHWAYS



Appendix 5: Bivariate correlations:

	CHIPS	CHI_SIX	CHI_SS	TOTALAE	AGEHHH	DEP_RATI	SUMINCOM	ANFEXP
CHI_PS	1	0.2641 P=0.000	0.1886 P=0.000	0.7593 P=0.000	0.1766 P=0.000	0.0680 P=0.148	0.1773 P=0.000	0.2169 P=0.000
CHI_SIX		1	0.0578 P=0.219	0.3869 P=0.000	-0.1934 P=0.000	0.4864 P=0.000	0.1377 P=0.003	0.0711 P=0.131
CHISS			1	0.3895 P=0.000	0.2604 P=0.000	-0.2216 P=0.000	0.3732 P=0.000	0.4762 0.000
TOTAE				1	0.1466 P=0.002	0.0811 P=0.085	0.2814 P=0.000	0.2741 P=0.000
AGEHHH					1	-0.2477 P=0.000	-0.0163 P=0.729	0.0509 P=0.280
DEP_RATIO						1	0.0319 0.498	-0.0657 P=0.163
SUMINCOM							1	0.5457 P=0.000
AVNFEXP								1

	SUMINCOM	AVNFEX	NFEX3	AVHCI	MKTDIST	APAC_DD	SORO_DD	MBALE_DD
SUMINCOM	1	0.5457 P=0.000	0.3236 P=0.000	0.1027 P=0.029	0.0191 P=0.685	-0.1151 P=0.014	-0.0368 P=0.435	0.1521 P=0.001
AVNFEX		1	0.3951 P=0.000	-0.0003 0.995	0.0582 P=0.216	0.1018 P=0.030	-0.0313 P=0.507	-0.0710 P=0.131
NFEX3			1	0.1252 0.008	0.0365 P=0.439	0.0034 P=0.942	-0.1241 P=0.008	0.1202 P=0.010
AVHCI				1	-0.1736 P=0.000	-0.2679 0.000	-0.4640 P=0.000	0.7313 P=0.000
MKTDIST					1	-0.0959 0.041	0.3620 P=0.000	-0.2645 P=0.000
APAC_DD						1	-0.5000 P=0.000	-0.5050 0.000
SORO_DD							1	-0.4950 P=0.000
MBALE_DD								1

Appendix 6: Socio-economic and demographic characteristics of the cluster groupings

CLUSTER GROUPS	High Production / Low Sales		Average Production / Low Sales				High Production / High Sales			Average Production / High Sales			Low Production / Low Sales		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cluster Number	4	35	85	15	185	10	4	6	4	5	10	5	24	4	47
N	4	35	85	15	185	10	4	6	4	5	10	5	24	4	47
AGEHHH (years)	50	47	41	41	43	41	49	37	59	54	58	51	52	46	45
CHI_SIX (no)	2.3	1.6	2.0	1.7	1.6	2.2	1.7	3.2	1.3	3	2.1	1.6	1.2	1.5	1.7
CHI_PS (no)	2.8	2.6	2.4	2.6	1.8	2.5	2.6	3.5	4.2	3.4	2.5	3.8	2.6	2.3	1.9
CHI_SS (no)	1.8	0.4	0.3	0.3	0.2	0.3	0.3	0.5	1.8	1.2	0.9	0	0.3	0.5	0.4
LND_USED (acres)	7.8	4.5	4.2	4.3	3.1	4.6	5.4	4.3	5.1	5.1	4.7	3.5	4.2	2.6	3.6
GOAT_NO (no)	8.3	5.1	4.1	2.7	2.7	2.9	2.5	5.2	1.8	3.6	3.0	1.6	2.8	3.3	2.0
CATT_NO (no)	17.3	2.5	1.2	1.7	0.7	1.5	6.8	3.8	2	3.2	2.6	4.0	3.1	2.6	1.6
AVNFEXP (*000 shs)	114	38	23	47	10	67	43	46	12	25	14	34	12	61	12
% Spent on health	6	16	17	15	23	15	8	5	8	19	12	7	18	13	16
% spent on education	64	22	18	22	12	30	39	27	29	29	39	15	23	39	15
% spent on leisure	19	32	31	25	31	27	33	37	30	23	25	60	33	33	40
APAC	3	13	32	4	75	3	0	3	0	0	0	0	1	2	13
SOROTI	1	14	41	7	80	4	0	0	0	0	0	0	0	0	1
MBALE	0	8	12	4	30	3	4	3	4	5	10	5	23	2	33

AGEHHH = age of the head of the household

CHI_SIX = number of children six years old or less

CHI_PS = number of children in primary school

CHI_SS = number of children in post-primary education

LND_USED = cultivated area

GOAT_NO = no. of goats

CATT_NO = no. of cattle

AVNFEXP = non-food expense