

## REFERENCES

- HEIS. The Zambian Household Expenditure and Incomes Survey. 1991. Iowa State University Publications in 1992 and 1993.
- CSO/FSRP. 2007a. Zambia 2007/2008 Urban Food Consumption/Expenditure Survey: Summary of Organization, Objectives and Key Concepts. FSRP Web Site. [http://www.aec.msu.edu/fs2/zambia/CSO\\_FSRP\\_Urban\\_Food\\_Survey\\_Overview\\_July\\_17\\_2007.pdf](http://www.aec.msu.edu/fs2/zambia/CSO_FSRP_Urban_Food_Survey_Overview_July_17_2007.pdf)
- CSO/FSRP. 2007 b. Urban Food Consumption Survey, August 2007, First Round Survey Instrument. FSRP Web Site. [http://www.aec.msu.edu/fs2/zambia/urban\\_survey\\_instrument.pdf](http://www.aec.msu.edu/fs2/zambia/urban_survey_instrument.pdf)
- CSO/FSRP. 2007c. 2007 Enumerator Manual for the CSO/FSRP Urban Food Consumption Survey 2007/2008. First Round. FSRP Web Site. [http://www.aec.msu.edu/fs2/zambia/urban\\_survey\\_training\\_manual.pdf](http://www.aec.msu.edu/fs2/zambia/urban_survey_training_manual.pdf)
- CSO/FSRP. 2008a. Urban Food Consumption Survey Instrument, February 2008, Second Round. FSRP Web Site: [http://www.aec.msu.edu/fs2/zambia/Round2\\_Urban\\_Survey\\_Instrument.pdf](http://www.aec.msu.edu/fs2/zambia/Round2_Urban_Survey_Instrument.pdf)
- CSO/FSRP. 2008b. Urban Food Consumption Survey. Interviewers Instruction Manual. January 2008, Second Round. FSRP Web Site: [http://www.aec.msu.edu/fs2/zambia/UCS\\_Round2\\_EnumeratorTraining\\_Manual.pdf](http://www.aec.msu.edu/fs2/zambia/UCS_Round2_EnumeratorTraining_Manual.pdf)
- Kabaghe, Chance, M. Hichaambwa, and D. Tschirley. 2009. [Fruit and Vegetable Production, Marketing and Consumption in Zambia: Overview of Empirical Analysis by FSRP.](#) Presented at the ZNFU Fruits and Vegetables Annual General Meeting, Mulungushi International Conference Centre, Lusaka. 13 October 2009
- Mason, Nicole M, and Jayne T.J. 2009. [Staple Food Consumption Patterns in Urban Zambia: Results from the 2007/2008 Urban Consumption Survey.](#) FSRP Working Paper No. 42. November 2009.
- Mason, Nicole M, and Jayne, T.J. 2009. [Staple Food Consumption Patterns in Urban Zambia: Results from the 2007/2008 Urban Consumption Survey.](#) FSRP Policy Brief Number 36, December 2009.
- Mwiinga, Mukwiti and D. Tschirley. 2009. [Comparative Analysis of Price Behavior in Fresh Tomato Markets With Special Reference to Zambia.](#) Presentation (ppt) for the conference on "Socio-Economic research in vegetable production and marketing in Africa". Nairobi, Kenya. 5-6 March, 2009.
- Tschirley, David, M Ayieko, M. Hichaambwa, M. J. Goeb, and W. Loescher. 2009. [Modernizing Africa's Fresh Produce Supply Chains without Rapid Supermarket Takeover: Towards a Definition of Research and Investment Priorities.](#) Presentation (ppt) at the Conference on Agricultural Markets, organized by the CGIAR system and Alliance for a Green Revolution in Africa (AGRA), May 13-15, 2009. Nairobi, Kenya.
- Tschirley, David, M Ayieko, M. Hichaambwa, M. J. Goeb, and W. Loescher. 2009. [Modernizing Africa's Fresh Produce Supply Chains without Rapid Supermarket Takeover: Towards a Definition of Research and Investment Priorities.](#) Paper prepared for the conference "Towards priority actions for market development for African farmers", sponsored by International Livestock Research Institute, Nairobi. May 15-17, 2009.
- Tschirley, David, Hichaambwa, M. and Mwiinga, M. 2009. Assessment of the Tomato, Onion, and Rape Supply Chains Serving Lusaka: Insights for Research and Investment Priorities. FSRP Working Paper 44, forthcoming, 2009.
- Tschirley, David and Hichaambwa, M. The Structure and Behavior of Vegetable Markets Serving Lusaka: Main Report. FSRP Working Paper 45. forthcoming, 2009

## APPENDICES

**Appendix 1: Household per adult equivalent shares of broad food categories by location and gender of head of household**

	Lusaka			Kitwe			Mansa			Kasama		
	Overall	Female	Male	Overall	Female	Male	Overall	Female	Male	Overall	Female	Male
Weighted # of Households	268,024	52,999	215,025	74,498	13,587	64,911	9,304	2,447	6,857	20,901	4,044	16,857
Food Items	..... % of Total Monthly Food Expenditures .....											
Cereals & staples	24.0	24.1	24.0	27.2	29.8	26.6	27.9	28.7	27.7	27.1	27.7	26.9
Dairy items	5.2	5.1	5.2	3.5	3.2	3.6	1.7	1.7	1.7	2.0	1.5	2.1
Meat & eggs	16.7	15.6	16.9	15.5	13.5	15.9	12.7	12.5	12.8	14.4	12.2	15.0
Fish	7.6	7.5	7.6	8.3	7.6	8.5	12.3	12.0	12.5	12.4	13.3	12.2
Vegetables	13.6	14.9	13.3	14.9	17.6	14.3	11.4	12.6	11.0	14.2	16.4	13.6
Fruits	3.6	3.7	3.6	4.0	4.5	3.9	3.7	3.9	3.6	4.0	4.0	4.0
Legumes	3.7	3.9	3.6	3.3	3.6	3.3	3.7	4.3	3.5	3.7	4.0	3.6
Sugar & oils	7.9	7.8	7.9	8.9	9.3	8.8	8.5	9.5	8.2	8.7	8.8	8.6
Other foods	4.7	4.9	4.7	4.8	4.9	4.8	4.7	4.9	4.7	6.0	7.1	5.7
Tobacco & alcohol	5.3	3.5	5.7	4.8	2.8	5.3	6.3	3.2	7.5	4.1	1.5	4.8
Food away from home	7.8	8.9	7.5	4.8	3.2	5.1	6.9	6.8	6.9	3.5	3.6	3.4
Total %	100	100	100	100	100	100	100	100	100	100	100	100

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 2: Household per adult equivalent shares of broad food categories by location and category of residential neighborhood expenditure**

	Lusaka				Kitwe				Mansa				Kasama			
	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost
Weighted # of Households	268,023	212,713	23,181	32,129	78,498	67,448	2,378	8,672	9,305	8,009	1,030	266	20,901	15,579	1,171	4,151
Food Items	..... % of Total Monthly Food Expenditures .....															
Cereals & staples	24.0	24.8	19.8	21.9	27.2	28.0	24.1	21.6	27.9	28.4	26.1	21.6	27.1	27.7	25.4	25.4
Dairy items	5.2	5.0	6.0	6.1	3.5	3.3	4.1	5.5	1.7	1.5	2.7	2.8	2.0	1.4	4.0	3.4
Meat & eggs	16.7	16.1	19.0	19.1	15.5	14.6	20.6	21.1	12.7	11.8	16.5	23.3	14.4	13.4	17.4	17.6
Fish	7.6	7.7	6.9	7.2	8.3	8.4	10.4	7.0	12.3	12.6	10.6	10.3	12.4	13.0	10.6	11.0
Vegetables	13.6	14.2	11.0	11.7	14.9	15.7	12.3	9.6	11.4	11.6	10.3	9.5	14.2	14.9	11.9	12.2
Fruits	3.6	3.5	3.8	4.2	4.0	3.9	3.9	4.9	3.7	3.8	3.0	2.6	4.0	4.2	3.3	3.4
Legumes	3.7	3.8	3.0	3.4	3.3	3.4	3.0	2.9	3.7	3.8	3.2	2.6	3.7	3.8	3.4	3.3
Sugar & oils	7.9	8.1	6.2	7.3	8.9	9.2	8.3	6.6	8.5	8.4	9.3	8.1	8.7	8.4	9.5	9.6
Other foods	4.7	4.4	6.1	6.0	4.8	4.5	5.6	6.4	4.7	4.5	6.9	4.5	6.0	5.8	6.5	6.3
Tobacco & alcohol	5.3	5.2	6.0	5.0	4.8	4.7	4.2	6.3	6.3	6.5	6.4	2.7	4.1	4.2	4.4	3.9
Food away from home	7.8	7.2	12.1	8.3	4.8	4.4	3.5	8.1	6.9	7.0	5.0	12.0	3.5	3.4	3.6	3.9
Total %	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 3: Household per adult equivalent shares of staples and other food by location and gender of head of household (% of total monthly expenditure)**

	Lusaka			Kitwe			Mansa			Kasama		
	Overall	Female	Male	Overall	Female	Male	Overall	Female	Male	Overall	Female	Male
Weighted Number of Households	268,024	52,999	215,025	74,498	13,587	64,911	9,304	2,447	6,857	20,901	4,044	16,857
Food Items	..... % of Total Monthly Food Expenditures .....											
Maize	9.6	9.8	9.6	12.4	15.5	11.7	12.2	12.9	12.0	12.4	11.8	12.5
Rice	2.1	2.3	2.1	2.4	2.0	2.5	2.3	2.5	2.2	3.3	3.3	3.3
Wheat	9.8	9.6	9.9	9.9	9.5	9.9	5.0	4.2	5.3	4.8	4.2	4.9
Cassava	.2	.1	.2	.5	.6	.5	5.7	6.2	5.5	3.7	5.1	3.4
Other staples	2.4	2.6	2.4	2.2	2.2	2.2	2.8	3.0	2.7	3.1	3.5	3.0
Sugar	3.4	3.4	3.4	3.5	3.5	3.5	3.3	3.5	3.2	3.3	3.3	3.4
Dairy	5.2	5.1	5.3	3.6	3.2	3.7	1.7	1.7	1.7	2.0	1.5	2.1
Animal protein	24.4	23.2	24.7	24.0	21.2	24.5	25.1	24.5	25.3	27.0	25.5	27.4
Fruits & vegetables	17.3	18.9	16.9	19.1	22.1	18.4	15.1	16.4	14.6	18.2	20.3	17.7
Other food prepared at home	18.3	17.0	18.6	18.3	17.1	18.5	20.0	18.4	20.6	19.1	18.0	19.3
Food away from home	7.3	8.0	7.1	4.3	3.1	4.5	6.9	6.8	6.9	3.2	3.6	3.1
Total %	100	100	100	100	100	100	100	100	100	100	100	100

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 4: Household per adult equivalent shares of staples and other food by location and category of residential neighborhood**

	Lusaka				Kitwe				Mansa				Kasama			
	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost
Weighted # of Households	268,023	212,713	23,181	32,129	78,498	67,448	2,378	8,672	9,305	8,009	1,030	266	20,901	15,579	1,171	4,151
Food Items	..... % of Total Monthly Food Expenditures .....															
Maize	9.6	10.3	5.9	7.5	12.4	13.4	8.4	5.8	12.2	12.5	10.6	9.9	12.4	12.7	12.1	11.1
Rice	2.1	2.1	2.1	2.4	2.4	2.5	3.1	2.2	2.3	2.2	2.8	2.4	3.3	3.3	3.1	3.3
Wheat	9.8	9.8	9.6	9.8	9.9	9.6	10.6	11.4	5.0	4.5	8.6	7.9	4.8	4.0	6.2	7.3
Cassava	.2	.2	.2	.1	.5	.6	.2	.2	5.7	6.3	1.9	.7	3.7	4.6	1.2	1.3
Other staples	2.4	2.4	2.1	2.3	2.2	2.2	1.9	2.1	2.8	2.9	2.4	.7	3.1	3.2	2.9	2.7
Sugar	3.4	3.6	2.7	2.9	3.5	3.6	3.1	2.7	3.3	3.2	3.8	3.1	3.3	3.2	3.8	3.7
Dairy	5.2	5.0	6.0	6.1	3.6	3.3	4.1	5.6	1.7	1.5	2.7	2.8	2.0	1.4	4.0	3.4
Animal protein	24.4	23.9	26.1	26.5	24.0	23.2	31.0	28.1	25.1	24.5	27.3	33.6	27.0	26.4	28.1	28.8
Fruits & vegetables	17.3	17.7	14.9	16.1	19.1	19.7	16.2	14.5	15.1	15.4	13.4	12.1	18.2	19.1	15.3	15.7
Other food prepared at home	18.3	18.1	18.5	18.9	18.3	18.1	18.0	19.5	20.0	20.0	21.7	14.8	19.1	18.9	20.1	19.5
Food away from home	7.3	6.7	11.8	7.5	4.3	3.8	3.5	7.9	6.9	7.0	4.9	12.0	3.2	3.1	3.2	3.2
Total %	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 5: Household per adult equivalent shares of fruit and vegetables and other food by location and gender of head of household**

	Lusaka			Kitwe			Mansa			Kasama		
	Overall	Female	Male	Overall	Female	Male	Overall	Female	Male	Overall	Female	Male
Weighted Number of Households	268,024	52,999	215,025	74,498	13,587	64,911	9,304	2,447	6,857	20,901	4,044	16,857
Food Items	..... % of Total Monthly Food Expenditures .....											
Rape	4.0	4.5	3.9	4.7	5.5	4.6	2.8	2.8	2.8	4.1	4.7	4.0
Tomato	3.5	3.7	3.5	3.8	4.2	3.7	2.9	3.0	2.8	3.6	4.4	3.4
Onion	1.6	1.7	1.5	1.9	2.1	1.8	1.2	1.3	1.2	1.4	1.4	1.4
Cabbage	.7	.8	.6	.5	.6	.5	.7	.6	.7	.7	.8	.7
Local leaves	2.2	2.6	2.1	2.8	3.6	2.6	2.8	3.6	2.5	2.8	3.3	2.7
Other vegetables	1.6	1.8	1.6	1.3	1.7	1.2	1.1	1.3	1.1	1.6	1.7	1.5
Banana	1.1	1.1	1.1	1.0	1.3	.9	.7	.7	.7	.7	.6	.7
Oranges / tangerines	.7	.7	.7	.7	.7	.7	.5	.5	.5	.4	.3	.4
Apple	.5	.5	.5	.5	.4	.5	.2	.2	.2	.2	.1	.2
Other fruit	1.3	1.4	1.3	1.9	2.1	1.9	2.3	2.6	2.2	2.8	2.9	2.7
Cereals & staples	24.1	24.3	24.1	27.4	29.8	26.9	28.0	28.7	27.7	27.2	27.7	27.1
Animal protein	24.4	23.2	24.7	24.0	21.2	24.5	25.1	24.5	25.3	27.0	25.5	27.4
Other food prepared at home	26.9	25.5	27.3	25.3	23.8	25.7	25.0	23.5	25.5	24.4	22.8	24.8
Food away from home	7.3	8.0	7.1	4.3	3.1	4.5	6.9	6.8	6.9	3.2	3.6	3.1
Total %	100	100	100	100	100	100	100	100	100	100	100	100

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 6: Household per adult equivalent shares of fruit and vegetables and other food by location and category of residential neighborhood**

	Lusaka				Kitwe				Mansa				Kasama			
	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost	Overall	Low cost	Medium cost	High cost
Weighted # of Households	268,023	212,713	23,181	32,129	78,498	67,448	2,378	8,672	9,305	8,009	1,030	266	20,901	15,579	1,171	4,151
Food Items	..... % of Total Monthly Food Expenditures .....															
Rape	4.0	4.3	3.3	3.1	4.7	5.0	3.7	2.7	2.8	2.7	3.0	3.4	4.1	4.3	3.5	3.5
Tomato	3.5	3.6	3.2	3.2	3.8	4.0	3.4	2.7	2.9	2.9	2.9	2.0	3.6	3.8	3.0	3.2
Onion	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.4	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.3
Cabbage	.7	.7	.4	.6	.5	.6	.6	.4	.7	.7	.5	.9	.7	.7	.6	.6
Local leaves	2.2	2.4	1.5	1.8	2.8	3.0	1.5	1.3	2.8	3.0	1.7	1.2	2.8	3.0	2.3	2.4
Other vegetables	1.6	1.7	1.1	1.5	1.3	1.4	1.2	1.1	1.1	1.2	1.0	.7	1.6	1.7	1.3	1.3
Banana	1.1	1.1	1.2	1.3	1.0	.9	.8	1.5	.7	.7	.8	1.2	.7	.7	.7	.7
Oranges / tangerines	.7	.7	.6	.9	.7	.7	.8	.8	.5	.5	.4	1.1	.4	.4	.5	.5
Apple	.5	.4	.6	.8	.5	.4	.6	1.0	.2	.2	.4	.0	.2	.1	.3	.3
Other fruit	1.3	1.3	1.4	1.3	1.9	2.0	1.6	1.6	2.3	2.5	1.4	.2	2.8	3.1	1.8	2.0
Cereals & staples	24.1	24.9	19.9	22.1	27.4	28.2	24.1	21.7	28.0	28.4	26.3	21.6	27.2	27.8	25.4	25.6
Animal protein	24.4	23.9	26.1	26.5	24.0	23.2	31.0	28.1	25.1	24.5	27.3	33.6	27.0	26.4	28.1	28.8
Other food prepared at home	26.9	26.7	27.3	27.8	25.3	25.0	25.2	27.8	25.0	24.7	28.2	20.7	24.4	23.5	27.9	26.7
Food away from home	7.3	6.7	11.8	7.5	4.3	3.8	3.5	7.9	6.9	7.0	4.9	12.0	3.2	3.1	3.2	3.2
Total %	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 7: Most commonly grown crops and location of plots by urban area excluding fields and gardens outside of town**

Crop	Lusaka						Kitwe						Mansa						Kasama					
	Inside plot		Inside this residential area		Inside this town		Inside plot		Inside this residential area		Inside this town		Inside plot		Inside this residential area		Inside this town		Inside plot		Inside this residential area		Inside this town	
	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field
	..... % of Households Planting Indicated Crops .....																							
Maize	9.1	41.1	18.1	37.4	30.5	44.8	.9	27.8	7.7	23.0	17.4	35.0	1.1	16.1	2.0	21.0	9.7	22.9	.9	12.9	8.5	20.4	5.3	24.6
Sorghum	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	2.5
Rice	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
Millet	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.7
Sunflower	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
Groundnuts	.3	6.7	1.9	4.0	5.1	11.0	.6	13.5	4.5	20.8	8.4	22.6	.8	13.1	1.5	24.7	12.4	26.3	.0	2.2	.0	7.1	.0	12.9
Soyabeans	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.9	.0	1.7	.0	.0	.0	.0	.1	.0	.0	3.0	.0	2.0
Irish potatoes	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mixed beans	.6	.0	.0	9.5	4.0	7.6	.1	.0	3.3	6.2	3.6	5.4	.4	15.4	.0	1.5	.0	6.2	.2	6.7	.0	6.7	.0	4.3
Bambara nuts	.0	.0	.0	.0	.0	.7	.0	.0	.0	1.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
Cowpeas	.0	.0	.0	4.0	6.3	2.8	.1	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
Sweet potatoes	.3	.0	.0	.0	5.1	5.5	.3	.8	1.4	7.7	.0	12.2	.2	3.9	.0	4.7	7.7	10.3	.1	10.4	.4	15.4	2.0	15.7
Cassava tuber	.1	.0	3.8	.0	.0	.0	.2	3.2	1.4	2.9	6.9	5.8	.2	31.6	.0	33.9	20.1	26.7	.0	4.0	.5	13.3	.4	15.0
Pineapple	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Other crop	.2	6.7	1.4	.0	.0	1.9	.1	.0	1.0	.4	.0	.9	.1	1.6	.0	1.7	.0	.0	.1	.0	1.9	.2	.0	.3
Tangerines	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0
Grapefruit	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0

Bananas	1.2	.0	.0	.0	.0	.0	1.3	.0	1.1	.0	.7	.0	1.2	.0	.0	.0	.0	.0	3.1	2.2	3.3	.2	6.0	.8
Paw paws	5.1	.0	2.9	.0	.0	.0	2.2	.0	1.4	.0	.0	.0	3.9	.0	.0	.0	.0	.0	3.8	.0	1.0	.0	.0	.0
Avocado	8.0	.0	4.0	3.0	.0	.0	7.9	4.9	2.1	.0	.0	.2	3.7	.0	1.0	.0	.0	.0	8.6	.5	4.8	.0	3.2	.2
Watermelon	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mangoes	11.8	.0	4.0	3.0	.0	.0	18.1	3.4	5.2	.0	4.1	.0	19.1	2.7	4.2	2.2	2.5	.0	15.6	3.5	13.0	.3	1.8	.4
Oranges	2.3	6.5	.0	6.5	.0	.0	1.7	.0	1.4	.0	.0	.0	2.1	3.4	.6	.0	.0	.0	2.3	.7	.6	.2	.0	.0
Lemons	5.0	.0	3.2	5.9	.0	.0	6.0	.9	2.9	.7	2.8	.0	1.5	.0	.0	.0	.0	.0	2.5	1.6	.0	.0	1.2	.1
Other fruits	2.4	.0	.9	8.9	.0	.0	.5	4.5	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.4	2.7	.0	.0	.0	.0
Cabbage	.8	.0	.0	.0	.0	.0	.7	.0	.6	.0	2.8	.0	.6	.0	.7	1.5	.0	.0	.0	.0	.0	.0	.9	.4
Rape	5.7	.0	3.6	.0	3.6	.0	3.4	.0	6.6	.6	9.9	.4	2.1	.0	16.1	.0	3.9	.0	5.9	.0	10.1	.1	7.2	.2
Spinach	1.0	.0	.7	.0	.0	.0	1.4	.0	.4	.0	.0	.0	.1	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
Tomato	2.0	.0	1.4	.0	3.4	.4	2.0	1.4	2.0	.6	8.6	.4	1.9	.0	12.7	.0	9.8	.0	1.9	.0	3.5	.3	6.8	.2
Onion	3.0	.0	.9	.0	.0	.0	6.4	1.4	2.1	.0	4.2	.2	2.7	.0	11.3	.0	2.0	.0	1.4	.0	.0	.0	.9	.0
Okra	.5	.0	.0	.0	.0	.0	1.1	1.6	2.4	1.6	4.7	1.1	1.4	.0	2.0	.0	.0	.0	.4	.6	2.7	.8	.0	.3
Eggplant	.6	.0	.0	.0	.0	.0	.4	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.5	.0	1.1	.0	.0	.0
Pumpkin	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.8	.2	.0	.0	.0	.0	.0	.4	1.8	.0	2.6	.0	1.2
Chilies	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
Chomolia	.1	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Cauliflower	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0
Carrots	.3	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Lettuce	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
Green beans	.0	.0	.0	.0	.0	.0	.1	3.7	.0	.8	.0	.0	.4	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
Green maize	1.0	.0	1.5	2.5	5.1	.9	3.1	.0	6.7	3.5	1.9	.5	1.3	.0	1.7	.0	.0	.0	1.5	.9	3.5	1.4	2.6	.7

Cassava leaves	2.5	6.4	1.9	.0	.0	1.9	4.6	7.7	5.5	5.4	3.3	3.4	1.9	1.6	2.7	8.8	12.4	4.4	1.1	2.7	.4	5.5	2.3	6.5
Sweet potato leaves	9.8	32.7	5.3	.0	24.3	.9	8.7	4.6	6.4	2.4	5.5	2.2	13.0	.0	13.1	.0	7.7	1.6	12.8	10.4	12.8	5.5	15.1	2.6
Pumpkin leaves	8.7	.0	26.3	5.5	12.6	10.6	8.3	9.6	17.3	9.1	8.6	3.0	21.9	2.9	14.6	.0	4.3	.8	11.9	17.4	9.8	6.9	12.7	2.9
Cowpea leaves	.2	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
Impwa	.4	.0	.0	.0	.0	.0	1.6	.0	3.0	.7	1.9	1.1	.3	.0	2.3	.0	.0	.0	.8	.8	3.2	.4	2.9	.0
Other vegetables	.4	.0	.0	.0	.0	.9	.5	.0	1.5	.0	.0	.0	.2	.0	1.9	.0	.0	.0	6.0	2.1	3.5	.0	9.0	.3
Guavas	10.7	.0	3.1	3.6	.0	.0	9.6	5.1	3.0	.0	.0	.0	8.0	.0	.0	.0	2.5	.0	6.1	4.3	5.3	.4	5.7	.4
Chinese cabbage	2.5	.0	.9	.0	.0	.0	2.9	1.4	.5	.0	.0	.0	2.3	.0	3.8	.0	2.5	.0	2.2	.0	4.7	.0	3.0	.0
Bean leaves	1.6	.0	9.3	2.3	.0	9.2	2.2	4.5	5.7	6.3	2.0	1.8	4.9	3.2	2.7	.0	.0	.0	3.7	9.7	3.0	4.0	8.2	3.9
Bondwe	.7	.0	2.2	.0	.0	.9	2.1	.0	1.6	2.6	.0	.6	2.4	1.1	3.6	.0	.0	.8	1.5	1.6	2.4	1.1	.6	.0

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 8: Most commonly grown crops and location of plots by urban area including plots outside of town in Lusaka and Kitwe**

Crop	Lusaka								Kitwe							
	Inside plot		Inside this residential area		Inside this town		Outside town		Inside plot		Inside this residential area		Inside this town		Outside town	
	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field
	..... % of Households Planting Indicated Crops .....															
Maize	9.1	41.1	18.1	37.4	30.5	44.8	6.1	45.4	.9	27.8	7.7	23.0	17.4	35.0	11.6	27.3
Sorghum	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
Rice	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0
Millet	.0	.0	.0	4.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.1
Groundnuts	.3	6.7	1.9	4.0	5.1	11.0	3.1	10.3	.6	13.5	4.5	20.8	8.4	22.6	11.8	11.3
Soyabeans	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.4	.0	.9	.0	.5
Seed cotton	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
Irish potatoes	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1.2	.0	.0	.2	.0	.2
Mixed beans	.6	.0	.0	9.5	4.0	7.6	3.1	2.6	.1	.0	3.3	6.2	3.6	5.4	.0	5.1
Bambara nuts	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	1.4	.0	.6	.0	.3
Cowpeas	.0	.0	.0	4.0	6.3	2.8	.0	.7	.1	.0	.0	.0	.0	.9	.0	.2
Velvet beans	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.3
Sweet potatoes	.3	.0	.0	.0	5.1	5.5	.0	5.8	.3	.8	1.4	7.7	.0	12.2	1.5	11.4
Cassava tuber	.1	.0	3.8	.0	.0	.0	.0	1.2	.2	3.2	1.4	2.9	6.9	5.8	.0	13.3
Other crop	.2	6.7	1.4	.0	.0	1.9	.0	.7	.1	.0	1.0	.4	.0	.9	.0	.6
Tangerines	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Grapefruit	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Bananas	1.2	.0	.0	.0	.0	.0	3.1	.4	1.3	.0	1.1	.0	.7	.0	.0	.3
Paw paws	5.1	.0	2.9	.0	.0	.0	.0	.0	2.2	.0	1.4	.0	.0	.0	.0	.1
Avocado	8.0	.0	4.0	3.0	.0	.0	3.1	.0	7.9	4.9	2.1	.0	.0	.2	.0	.1
Watermelon	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
Mangoes	11.8	.0	4.0	3.0	.0	.0	5.8	.0	18.1	3.4	5.2	.0	4.1	.0	.0	.2
Oranges	2.3	6.5	.0	6.5	.0	.0	6.4	.0	1.7	.0	1.4	.0	.0	.0	.0	.1
Lemons	5.0	.0	3.2	5.9	.0	.0	.0	.9	6.0	.9	2.9	.7	2.8	.0	1.9	.1
Other fruits	2.4	.0	.9	8.9	.0	.0	6.4	.0	.5	4.5	.0	.0	.0	.0	1.5	.0
Cabbage	.8	.0	.0	.0	.0	.0	3.1	.0	.7	.0	.6	.0	2.8	.0	4.3	.0
Rape	5.7	.0	3.6	.0	3.6	.0	6.2	.4	3.4	.0	6.6	.6	9.9	.4	8.1	.7
Spinach	1.0	.0	.7	.0	.0	.0	.0	.0	1.4	.0	.4	.0	.0	.0	2.2	.0
Tomato	2.0	.0	1.4	.0	3.4	.4	.0	1.0	2.0	1.4	2.0	.6	8.6	.4	2.1	.3
Onion	3.0	.0	.9	.0	.0	.0	.0	.0	6.4	1.4	2.1	.0	4.2	.2	6.2	.3
Okra	.5	.0	.0	.0	.0	.0	7.5	4.0	1.1	1.6	2.4	1.6	4.7	1.1	7.8	1.0
Eggplant	.6	.0	.0	.0	.0	.0	7.5	.0	.4	.0	.1	.0	.0	.0	4.3	.0
Pumpkin	.1	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.5	.0	.8	1.0	1.0
Chilies	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Chomolia	.1	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
Carrots	.3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.8	.0	2.2	.3
Lettuce	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Green beans	.0	.0	.0	.0	.0	.0	.0	.4	.1	3.7	.0	.8	.0	.0	4.3	.2
Green maize	1.0	.0	1.5	2.5	5.1	.9	.0	.7	3.1	.0	6.7	3.5	1.9	.5	.0	.4
Cassava leaves	2.5	6.4	1.9	.0	.0	1.9	.0	.9	4.6	7.7	5.5	5.4	3.3	3.4	5.8	9.2

Sweet potato leaves	9.8	32.7	5.3	.0	24.3	.9	14.6	1.9	8.7	4.6	6.4	2.4	5.5	2.2	2.1	5.1
Pumpkin leaves	8.7	.0	26.3	5.5	12.6	10.6	10.1	8.0	8.3	9.6	17.3	9.1	8.6	3.0	4.3	5.3
Cowpea leaves	.2	.0	2.3	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
Impwa	.4	.0	.0	.0	.0	.0	3.1	1.5	1.6	.0	3.0	.7	1.9	1.1	10.9	.8
Other vegetables	.4	.0	.0	.0	.0	.9	.0	.5	.5	.0	1.5	.0	.0	.0	.0	.0
Guavas	10.7	.0	3.1	3.6	.0	.0	3.1	.9	9.6	5.1	3.0	.0	.0	.0	.0	.2
Chinese cabbage	2.5	.0	.9	.0	.0	.0	3.1	1.2	2.9	1.4	.5	.0	.0	.0	2.1	.0
Bean leaves	1.6	.0	9.3	2.3	.0	9.2	.0	4.2	2.2	4.5	5.7	6.3	2.0	1.8	2.4	3.5
Bondwe	.7	.0	2.2	.0	.0	.9	4.6	.4	2.1	.0	1.6	2.6	.0	.6	1.6	.2

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008

**Appendix 9: Most commonly grown crops and location of plots by urban area in Mansa and Kasama**

Crop	Mansa								Kasama							
	Inside plot		Inside this residential area		Inside this town		Outside town		Inside plot		Inside this residential area		Inside this town		Outside town	
	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field	Garden	Field
	..... % of Households Planting Indicated Crops .....															
Maize	1.1	16.1	2.0	21.0	9.7	22.9	4.9	15.9	.9	12.9	8.5	20.4	5.3	24.6	1.0	27.9
Sorghum	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	.0	2.5	.0	1.4
Rice	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0
Millet	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	.0	.7	.0	.4
Sunflower	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0
Groundnuts	.8	13.1	1.5	24.7	12.4	26.3	3.8	17.7	.0	2.2	.0	7.1	.0	12.9	1.1	12.9
Soyabeans	.0	1.7	.0	.0	.0	.0	.0	.2	.1	.0	.0	3.0	.0	2.0	.0	.8
Irish potatoes	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
Mixed beans	.4	15.4	.0	1.5	.0	6.2	4.3	8.6	.2	6.7	.0	6.7	.0	4.3	.0	11.3
Bambara nuts	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0
Cowpeas	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.4
Sweet potatoes	.2	3.9	.0	4.7	7.7	10.3	.0	5.8	.1	10.4	.4	15.4	2.0	15.7	3.0	13.7
Cassava tuber	.2	31.6	.0	33.9	20.1	26.7	2.0	23.6	.0	4.0	.5	13.3	.4	15.0	.0	12.3
Pineapple	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Cashew nut	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
Paprika	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
Other crop	.1	1.6	.0	1.7	.0	.0	.0	.3	.1	.0	1.9	.2	.0	.3	2.3	.1

Tangerines	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0
Grapefruit	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1.3	.0	.0	.0
Bananas	1.2	.0	.0	.0	.0	.0	12.0	.3	3.1	2.2	3.3	.2	6.0	.8	6.3	.7	
Paw paws	3.9	.0	.0	.0	.0	.0	.0	.0	3.8	.0	1.0	.0	.0	.0	.0	.0	
Avocado	3.7	.0	1.0	.0	.0	.0	2.4	.0	8.6	.5	4.8	.0	3.2	.2	.0	.0	
Watermelon	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
Mangoes	19.1	2.7	4.2	2.2	2.5	.0	25.9	.1	15.6	3.5	13.0	.3	1.8	.4	2.9	.0	
Oranges	2.1	3.4	.6	.0	.0	.0	2.4	.3	2.3	.7	.6	.2	.0	.0	1.3	.4	
Lemons	1.5	.0	.0	.0	.0	.0	.0	.3	2.5	1.6	.0	.0	1.2	.1	.0	.0	
Other fruits	.2	.0	.0	.0	.0	.0	.0	.0	3.4	2.7	.0	.0	.0	.0	.0	.0	
Cabbage	.6	.0	.7	1.5	.0	.0	.0	.1	.0	.0	.0	.0	.9	.4	4.3	.0	
Rape	2.1	.0	16.1	.0	3.9	.0	8.5	.3	5.9	.0	10.1	.1	7.2	.2	16.6	.0	
Spinach	.1	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
Tomato	1.9	.0	12.7	.0	9.8	.0	4.9	.6	1.9	.0	3.5	.3	6.8	.2	20.8	.0	
Onion	2.7	.0	11.3	.0	2.0	.0	2.9	.2	1.4	.0	.0	.0	.9	.0	5.1	.0	
Okra	1.4	.0	2.0	.0	.0	.0	.0	.4	.4	.6	2.7	.8	.0	.3	5.9	.6	
Eggplant	.1	.0	.0	.0	.0	.0	.0	.0	.5	.0	1.1	.0	.0	.0	.0	.0	
Pumpkin	.2	.0	.0	.0	.0	.0	.0	.9	.4	1.8	.0	2.6	.0	1.2	.0	.0	
Chilies	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
Cauliflower	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
Lettuce	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	
Green beans	.4	.0	.0	.0	.0	.0	.0	.1	.8	.0	.0	.0	.0	.0	.0	.3	
Green maize	1.3	.0	1.7	.0	.0	.0	.0	.2	1.5	.9	3.5	1.4	2.6	.7	1.3	.3	

Cassava leaves	1.9	1.6	2.7	8.8	12.4	4.4	2.9	12.7	1.1	2.7	.4	5.5	2.3	6.5	1.3	5.2
Sweet potato leaves	13.0	.0	13.1	.0	7.7	1.6	2.1	5.1	12.8	10.4	12.8	5.5	15.1	2.6	5.8	3.6
Pumpkin leaves	21.9	2.9	14.6	.0	4.3	.8	6.2	2.4	11.9	17.4	9.8	6.9	12.7	2.9	4.3	3.0
Cowpea leaves	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
Impwa	.3	.0	2.3	.0	.0	.0	4.9	.4	.8	.8	3.2	.4	2.9	.0	2.1	.0
Other vegetables	.2	.0	1.9	.0	.0	.0	.0	.8	6.0	2.1	3.5	.0	9.0	.3	1.6	.0
Guavas	8.0	.0	.0	.0	2.5	.0	7.2	.1	6.1	4.3	5.3	.4	5.7	.4	1.1	.2
Chinese cabbage	2.3	.0	3.8	.0	2.5	.0	2.9	.2	2.2	.0	4.7	.0	3.0	.0	9.3	.0
Bean leaves	4.9	3.2	2.7	.0	.0	.0	.0	1.8	3.7	9.7	3.0	4.0	8.2	3.9	2.4	4.0
Bondwe	2.4	1.1	3.6	.0	.0	.8	.0	.0	1.5	1.6	2.4	1.1	.6	.0	.0	.0

Source: CSO/MACO/FSRP Urban Consumption Survey, 2007-2008