

MARKET **S**URVEYS

Barotse Floodplain System

2015

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Introduction

The aim of the CGIAR Research Program on Aquatic Agricultural Systems (AAS) is to improve livelihoods and food security by enhancing the productivity and diversity of aquatic and agricultural systems.¹ The AAS program in the Barotse floodplain of Zambia, which is being implemented in ten communities including; Kabula, Kapanda Lealui, Mapungu, Mwandi, Nalitoya, Nembwele, Senanga, Sifuna and Situlu in December 2014, in Nanikelako in April 2015 and in Mwandi, evaluates changes in seasonal flooding patterns and the availability of natural resources to strengthen the productivity of aquatic agricultural management practices and improve the livelihoods of the poor and vulnerable.²

It is essential to understand the current food and nutrition security situation in the Barotse floodplain in order to support the AAS program objective. Food availability in the Barotse is highly seasonal; it becomes limited from August or September to January, during which time food and nutrition insecurity worsens.³ It is therefore necessary to identify opportunities to promote sustainable and diverse dietary options. This narrative provides an explanation of how the market research was conducted and some preliminary results. Overall, our research indicates that poor market access is a significant constraint in the Barotse floodplain, inhibiting AAS community members from securing proper nutrition and food.

Methodology

Market sampling was conducted in 2014 to assess AAS community members' access to food items in markets as well as record seasonal price trends. In total, ten markets frequented by community members in AAS research sites were surveyed. Markets sampled in the city of Mongu, located in Mongu District in Western Province, included the Black and Green Markets, Main Market, Harbor Market, Mandanga Market, Kapulanga Market and Mbuywana Market. Additional market sampling in Mongu District was conducted in the community of Lealui, located 20 to 30 minutes from the city of Mongu by vehicle, at the Lealui Market. The remaining markets sampled in Western Province included the Senanga Main Market, Mapungu Shops and Old Lukulu Market. Coordinates for each market were recorded using a GPS device.

Vendors were interviewed on the food items sold, daily profit, and prices and availability of food items. They were encouraged to share information on changes in prices and availability, as well as on the origin of the food items. High and low seasons of availability were identified as well as fluctuations in prices based on seasonal changes. Approximately 20-30 food items were surveyed in each market. A nutritionist, nutrition officer or extension officer from the Ministry of Agriculture and Livestock participated in the sampling of markets.

The ten completed market surveys were then organized into one comprehensive document in order to observe trends and differences in food prices and availability across markets. Food items were organized into the categories of "energy," "protective" and "body-building." Annex 1 illustrates seasonal trends in food prices and availability across all markets.

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¹ CGIAR Research Program on Aquatic Agricultural Systems, 2014

² Longley & Thilsted, 2012

³ Baidu-Forson, Phiri, Ngu'ni, Mulele, Simainga, Situmo, Ndiyoi, Wahl, Gambone, Mulanda, & Syatwinda, 2014

Discussion

Market characteristics

A total of 89 food items were surveyed across 10 markets. The greatest number of food items were surveyed in Old Lukulu Market (39), followed by the Black and Green Markets in Mongu (31), Mongu Main Market (30), Kapulanga Market (27), Mandanga Market (25), Lealui Market (24), Mbuywana Market and Senanga Main Market (23), Harbor Market (19) and Mapungu Shops (11). Figure 1 indicates the number of food items surveyed in each market, organized into five categories.

			Mongu	MARKETS	5					
FOOD CATEGORY	Black & Green Markets	Main Market	Harbor Market	Mandanga Market	Kapulanga Market	Mbuywana Market	Lealui Market	Mapungu Shops	Senanga Main Market	Old Lukulu Market
ENERGY CEREALS AND OTHER STARCHY										
STAPLES	5	5	4	7	4	7	9	2	0	9
PROTECTIVE										
FRUITS AND VEGETABLES	18	15	11	14	17	13	11	5	13	19
BODY-BUILDING Animal-source: Types of fish	10	8	4	6	1	3	2	1	7	11
BODY-BUILDING Animal-source: Other	1	1	1	3	2	2	3	1	0	3
BODY-BUILDING Legumes, seeds, beans & nuts	2	2	3	1	6	3	3	1	2	3
OTHER	1	4	1	1	1	2	6	3	1	3
TOTAL	31	30	19	25	27	23	24	11	23	39

LEGEND	Greatest number of items surveyed per food category
	Least number of items surveyed per food category

Figure 1. Number of food items surveyed by market

As the figure indicates, the greatest number of items per category were often surveyed in Old Lukulu Market while the least number of food items were surveyed in Mapungu shops. Variations in the number of food items observed may be attributed to differences in the research methods undertaken in each market. However, in Mapungu the lowest number of food items was found although all open shops had been surveyed. It was also observed that the majority of vendors in Mapungu sold the same items. There is therefore a clear lack of diversity in terms of food items that provide energy, protection and protein in the Mapungu shops, also compared to other markets. Community members in Mapungu stated that other products, like vegetables and fish, are cultivated by community members and households and then traded within the community without a formal market. The shops therefore do not appear to be a diverse source of food for community members. Community members in

Mapungu, as well as those living in Mwandi, also frequent the market in Kalabo. There is no market in Mwandi.

The AAS communities located in Mongu district frequent the markets of the provincial capital, Mongu. Crops are often sold within the communities or taken to the markets in Mongu. There is no market in Situlu or Nanikelako. However, households in Lealui have access to a market located in their community. The Lealui market includes a number of vendors who display their products outdoors in stalls or on mats on the ground. There are also a number of stores that sell processed food like maheu (a processed drink made from maize mealie meal, milk, and sugar), soft drinks and biscuits, as well as other food products like eggs and groundnuts. Due to recent road construction and the presence of construction workers in the area, the demand for food items in the Lealui market has increased. Community members explained that this has led vendors to increase their prices, which has caused concerns among local people since not all are able to afford the new prices. Vendors also explained that sales grow annually in July. Since water levels decrease during the dry season, there is an increase in travel between Mongu and Kalabo by road and therefore an increase in consumers that pass by the Lealui market.

Community members in Lealui also explained that Mongu is the main market for selling and buying fish. Markets in Mongu include the Black and Green markets, Main market, Harbor market, Kapulanga market, Mandanga market and Mbuywana market. While the AAS team was conducting the market survey in the Kapulanga market, they found that some vendors were not willing to give information because previous surveys on food safety had already been undertaken in the area and vendors did not find it necessary to answer additional questions. In contrast, vendors in the Mandanga market were willing to give information. However, it was difficult for some to calculate their daily profits for each food item since they combine the money earned from all food items. Vendors in the Mandanga market also stated that fish is the most frequently purchased food item that is a rich source of animal-based protein. Consumers begin purchasing other sources of protein, such as beans, kapenta and eggs, when fish is less available during the fishing ban that lasts from December to March. As the demand for these products increases, so do the prices. Since local consumers are easily affected by price changes, vendors often keep prices constant but reduce the quantity sold at that price. In the Mbuywana market, which is small with few vendors, vendors stated that they ordered most of the food items from the Main market in Mongu, which is fairly large and accessible by bus.

Since there are no markets in Kabula or Kapanda, community members frequent the Old and New Lukulu markets. While many sell vegetables door to door in their communities, the lack of market access inhibits individuals from selling crops outside of the community.⁶ Similarly, there are no markets in Nalitoya, Nembwele or Sifuna. The closest markets are in the town of Senanga. During focus group discussions, community members stated that the primary market for fish products is in Senanga, where they can set higher prices.⁷

Throughout the ten markets surveyed, prices normally increase during the low season or when a food item is in high demand. Figure 2 illustrates the seasonal changes in price for a variety of food items.

⁴ Dierksmeier, Cole, & Teoh, 2015

⁵ Dierksmeier et al., 2015

⁶ Dierksmeier et al., 2015

⁷ Dierksmeier et al., 2015

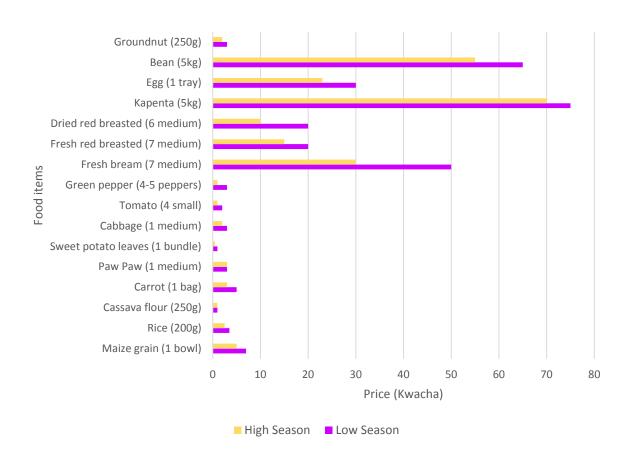


Figure 2. Food items with seasonal price changes

Some items, which do not vary in seasonal availability, maintain constant prices throughout the year, as illustrated in Figure 3.

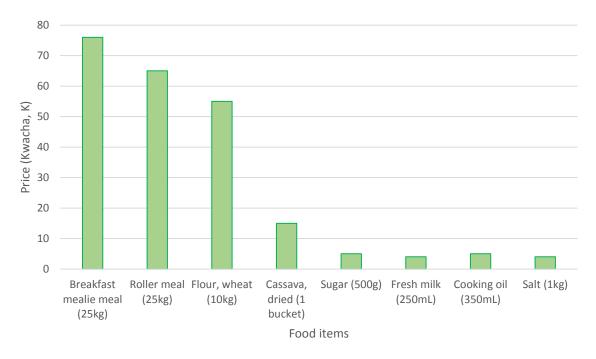


Figure 3. Food items with constant prices over the seasons

Trends in prices and availability

Energy

Maize "mealie meal" is commonly purchased to make *nshima*, a thick porridge eaten with vegetables, fish or meat. The price for a 25 kg bag of breakfast mealie meal ranges across markets from K58 in the Mandanga market to the highest price of K76 in the Lealui market. However, it is more common for consumers to purchase smaller quantities of breakfast mealie meal than a 25 kg bag. Quantities are measured in local containers and prices span from K1 to K15, depending on the amount purchased. Overall, vendors stated that breakfast mealie meal is available year round and that the price remains constant. However, a vendor in the Old Lukulu market differed from the rest, stating that the price of breakfast mealie meal increases when maize is low in season.

There is generally a higher demand for breakfast mealie meal than roller meal, which is also produced from maize but is less processed and less expensive. Roller meal is available year round with prices that range from K60 to K65 for a 25 kg bag. It is interesting to note that breakfast mealie meal is usually preferred over roller meal, even though it is more expensive. Grinded maize mealie meal is also available year round. However, grinded maize mealie meal was only recorded in one market in Mongu and therefore no comparisons can be made on this food item across markets. The price of maize grain is fairly similar across the markets in which it was surveyed. Consumers purchase maize grain to take to a hammer mill and later produce mealie meal, samp, beer or local beverages like maheu. Cassava mealie meal is generally available year round and prices are fairly constant. According to a vendor in Mongu, if cassava mealie meal becomes less available, the price will remain constant but the quantity sold at that price will decrease.

Rice is available year round in markets, with the low season coinciding with the rainy season (from November to April). During the low season, prices either increase (for larger quantities of 5-10 kg) or vendors decrease the amount packaged and keep the price constant. Wheat flour is also available all year. A vendor in the Old Lukulu market stated that wheat flour is ordered from Lusaka; during the cold season (from June to July), the order price for flour increases.

In terms of tubers, roasted cassava was surveyed in only one market in Mongu, the vendor of which explained that cassava is not in season during the rainy season since it cannot be harvested during this time. Likewise, locally processed cassava flour is less available during the rainy season. When it is less available, a vendor in the Mandanga market in Mongu explained that the price remains the same but the quantity packaged decreases. In contrast, a vendor in the Lealui market stated that the price and quantity do not change when it is less available. This may reflect differences in consumer demand and producer needs between those living in rural Lealui versus those in urban Mongu. The vendor in Lealui also stated that cassava becomes more available from June to August because vendors from Kaoma arrive to exchange cassava for fish. Dried cassava, which was surveyed only in the Old Lukulu Market, and there it is available year round since the cassava has been processed. Vendors in numerous markets stated they bought Irish potatoes from Shoprite, a large supermarket chain located in Mongu, or ordered them from Lusaka and resold them in the markets. When Irish potatoes are less available, the price increases or less potatoes are sold for the same price than during the high season. The low season for sweet potatoes, which can depending on the variety rich in vitamin A and also energydense, coincides with the rainy season. The price for sweet potatoes remains constant throughout the year but fewer potatoes are sold at that price during the low season. Sweet potatoes are also often dried to increase availability during the low season. They are obtained from the floodplain and Kaoma.

Other energy-dense foods sold in the markets include buns, butter scones and fritters. These are all locally produced, have constant prices and are available all year. Sugar, which is also available year

round, holds constant prices across markets; a 1 kg bag is normally sold for K7 or K8. A vendor in the Mapungu shops stated that sugar sales increase during June and July because the wild fruit used to brew beer is less available and people substitute it with sugar.

Protective

Vitamin A rich food

Only two other vitamin-rich food items were observed in the market besides sweet potatoes. Carrots were only surveyed in the Mongu Main Market and Senanga Main Market. There is generally a low availability of carrots. A vendor in Senanga stated that she bought carrots from Shoprite and then resold them at the market. Although the price remains constant throughout the year, the quantity sold at that price decreases during the low season. Paw paw was only surveyed in two markets in Mongu. While vendors gave slightly different descriptions of when paw paw is available, their responses overlapped to show that it is not available from October to December and that availability is lower from January to May. Even during the low season, one vendor stated that the price for paw paw does not change.

Dark leafy greens

There is a variety of dark green leafy vegetables available in markets. The high season for pumpkin leaves, sweet potato leaves, cassava leaves, amaranthus and hibiscus coincides with the rainy season. Pumpkin leaves are generally available year round. The price for a bundle of pumpkin leaves is the same across markets at K0.50. When it is less available, a vendor in Old Lukulu Market stated, the price remains constant but the bundle contains less leaves. In Senanga, the price for a bundle of sweet potato leaves increases from K0.50 in the high season to K1 in the low season. Cassava leaves were only surveyed in one market in Mongu, where a vendor stated the low season is from June to August and the price for a bundle was K1. The price of a bundle of amaranthus ranges from K0.50 to K1, depending on the market. Hibiscus is available year round and the price for a bundle ranges from K0.50 to K1 across markets. During the low season, the price of hibiscus usually remains the same but the size of the bundle is cut in half by a handful. Unlike other the dark green leaves, rape is available year round with the high season lasting from about May to August or September. Rape was surveyed in all markets except for the Lealui Market. In most markets, vendors stated that they keep the price constant but reduce the number of leaves sold in a bundle. Prices range from K0.50 to K1 for a bundle.

Other vegetables

Other vegetables observed in the markets include cabbage, Chinese cabbage, tomatoes, onions, okra, African eggplant, eggplant, green pepper and green beans. Cabbage, which was surveyed in most markets, is available all year. A vendor in Harbor Market stated that availability does not vary much because the cabbage comes from many places, including the floodplain, upland and Lusaka. If cabbage becomes less available, it is normally sold at a higher price. Chinese cabbage is also available year round, with the high season lasting during the dry season, from about April to August. The price remains constant at K1 for a bundle of leaves throughout the year but the number of leaves sold at that price decreases during the low season.

Tomatoes, which were surveyed in all markets, are available year round with the low season lasting from January to March. There were, however, some inconsistencies in vendors' descriptions of the low and high season for tomatoes. Tomatoes are sold in bundles of 2 or 4, depending on their size. The price of tomatoes is relatively similar across the markets. For example, 4 medium tomatoes are sold for K2. During the low season, 4 medium tomatoes are sold for between K3 and K5. When tomatoes are very scarce, a vendor in Mongu's Main Market stated that the price of one tomato can increase to K5. In contrast, when tomatoes are highly available, they go to waste. Onions are also

available year round, but the low season occurs near the end of the year. A vendor in the Harbor Market explained that there is less availability of onions during the rainy season because the onions rot during this time. The price and number of onions sold in a bundle depends on their size. One bulb is usually sold for K1. In most markets, vendors stated that the price remains the same, even when onions are less available.

In contrast to onions, the high season for okra coincides with the rainy season with lower availability during the dry season. A bag of okra that has 10 to 12 fingers is sold for K1 or K2, depending on the market. During the low season, the price will increase or it will remain the same and the number of fingers packaged in the bag will decrease. African eggplant is available year round and appears more available during the dry season. A bag of African eggplant, which may contain 15 to 25 eggplants, is priced at K1 or K2, depending on the market. During the low season, either the price increases or the price remains the same and the number of African eggplant packaged decreases. Eggplant was only surveyed in one market, where a vendor stated that it is only available from December to January. Four eggplants, ranging in size, are priced at K5.

A vendor in Mongu stated that since green pepper is not high in demand, its price and revenue is relatively low. For example, 4 to 5 green peppers are sold for K1 or K2, depending on the market. The price remains constant even when it is less available. In contrast, green peppers are priced higher in Senanga at K1 per pepper during the high season and K3 during the low season. Green beans were surveyed in only one market in Mongu; a bag of green beans is sold at K2 and the price is constant throughout the year. Garlic was also only surveyed in one Mongu market; 5 bulbs are sold for K5 during the high season. During the low season, the number of bulbs sold for K5 decreases to 4.

Other fruits

Few types of fruit were observed across the markets. Oranges were only surveyed in one market in Mongu and the price ranges from K0.50 to 1.50 per orange, depending on its size. The high season for oranges lasts from April to August and the low season from September to March, which coincides with the rainy season. Pineapples were also only surveyed in one market, in the Old Lukulu Market. One pineapple is sold for K4 or K5. The vendor in Lukulu explained that pineapple is only available from January to February and that it comes from North Western Province.

Body-building

Animal-source food

Fish was the most commonly surveyed animal-source food across the markets, including fresh and dried types. Fish is more available from June to August, during which prices are lower. Some vendors stated that fish is not available during the fishing ban from December to March. However, others stated that fish is still available during this time, but at a lower level. This perhaps serves as evidence that fishing still occurs during the ban. During the low season, prices for fish increase or prices remain the same but the number of fish sold at that price decreases. When the fishing ban begins, the demand for kapenta increases as consumers seek a substitute for fresh fish. As the demand for kapenta increases, vendors keep prices constant but decrease the amount of kapenta that is sold at that price. Sales decrease once there is plenty of local fish on the market again. Vendors also mentioned that kapenta is obtained from Siavonga, Mpulungu and Lusaka.

Beef was only surveyed in the Kapulanga Market in Mongu. One kilogram of mixed cuts was priced at K27. The vendor stated that beef is available all year, but that sales increase during the fishing ban. Pork was surveyed in the Mandanga Market in Mongu. It was sold by the vendor as fried pork chops and priced at K20 for 1kg. During lower availability from October to May, the price remains the same but the pork chops are reduced in size.

Eggs are available year round, with some vendors stating that the low season lasts from June to August. Like kapenta and beef, vendors mentioned that sales increase during the fishing ban. During the low season, the price of a tray of eggs increases slightly, but individual eggs are consistently sold at K1. Multiple vendors mentioned that eggs are ordered from Lusaka.

In terms of dairy products, fresh Parmalat brand milk is available year round and prices do not fluctuate; a container of 250 mL is sold for K4 and of 500 mL for K6. Sour milk was only surveyed in the Lealui Market and Old Lukulu Market. The vendor in Lealui stated that the price does not change as the availability changes, which becomes lower in March, but the quantity sold at that price is reduced.

Legumes, beans, seeds & nuts

Beans, cowpeas, groundnuts, bambara nuts and soy pieces were observed during the market sampling. Beans were surveyed in all markets except the shops in Mapungu. The demand for beans is higher during the fishing ban when less fish is available for consumption. Prices vary depending on the quantity sold, which is often measured in local containers, and increase during the low season or when the demand for beans is higher. Cowpeas were only surveyed in two markets, in the Kapulanga Market in Mongu and the Old Lukulu Market. While cowpeas are available throughout the year, a vendor in the Kapulanga Market stated that the low season lasts from December to April, which coincides with the rainy season. The price of cowpeas increases during the low season. Groundnuts were surveyed in most markets. Similar to beans and cowpeas, the low season for groundnuts is during the rainy season, generally from November to March, with the high season occurring during the dry months. However, even when groundnuts are less available from the floodplain, vendors can obtain them from Sesheke and Kaoma. The price of groundnuts increases during the low season or the quantity packaged is reduced and sold at the same price as during the high season. For example, a 250 g bag of groundnuts is sold for K2 during the high season but for K3 during the low season. Powdered groundnut is available all year and is often purchased by consumers to add to samp, vegetables and dried fish. Bambara nuts were only surveyed in the Kapulanga Market. The vendor stated that they are available all year and that prices range from K2 to K3 for quantities measured in local containers. Soy pieces, purchased from Lusaka, are also available year round. A 100g bag is priced at K3; prices of soy pieces remain constant.

Other

Other food items sold throughout the markets include cooking oil, salt, anthill soil, baking soda, baking powder, paprika, curry, soft drinks, maheu, D'lite (mix used to make porridge for children) and Instant Thobwa (maize and soybean mix to make drinks or porridge). These items are available year round and the prices remain constant. Cooking oil is often sold in small bags or reused bottles at varying prices ranging from K0.50 to K10. A new 750mL bottle of cooking oil is sold for K10 to K13. Anthill soil is purchased by pregnant women who believe it satisfies cravings. It was observed that at Mongu's Main Market, more soil is sold than powdered groundnuts, even though powdered groundnuts are available all year at constant prices and are an excellent source of protein and energy as well as certain micronutrients.

Conclusion

The research on the location of markets and fluctuation of food prices and availability indicates that AAS communities have poor access to markets. This lack of market access inhibits community members from consistently obtaining food items and from exploring opportunities to diversify their diets. It is therefore a major constraint to improving the nutrition situation of households in the Barotse floodplain, especially during the hunger season.

During focus group discussions led by the AAS team in the ten communities, individuals discussed the need to improve access to markets as a priority area to enhance the well-being and livelihoods of households. Proposed actions included training households in the production of quality products, strengthening linkages to markets, improving transportation, lobbying the government for better road and market infrastructure, and facilitating the establishment of market information centers.⁸ These actions may be further explored to identify opportunities to improve market access and therefore open up entry points to increase dietary diversity and improve nutrition.

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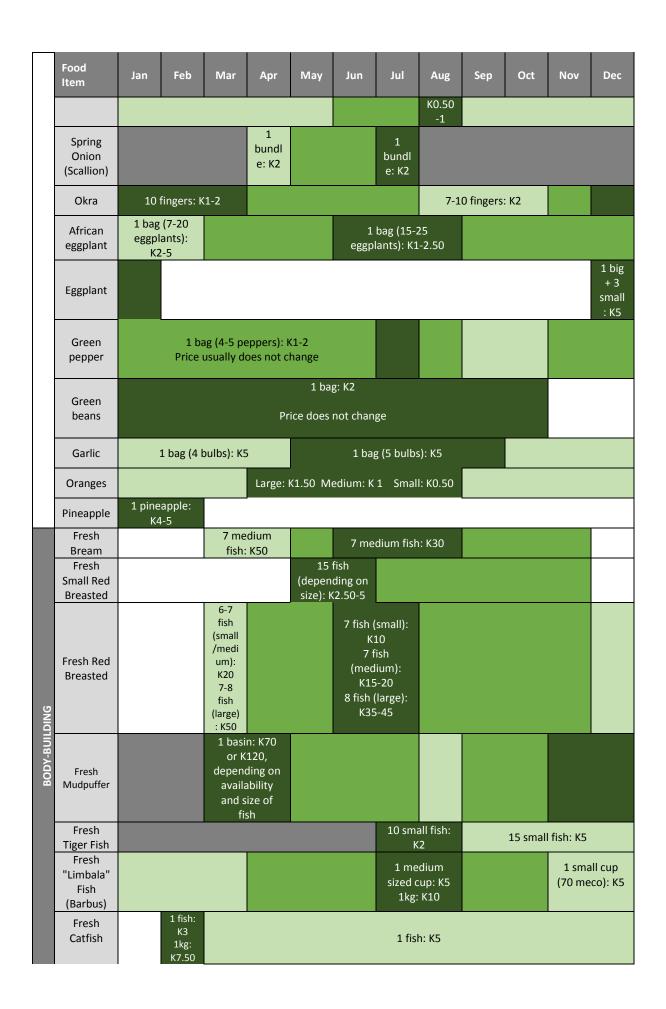
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⁸ Dierksmeier et al., 2015

Annex 1. Seasonal trends in market prices and food availability

	Food Item	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	Breakfast mealie meal (maize) Roller meal Grinded		Small quantities: Quantities are measured by local containers and prices decrease as container size decreases. Prices range from K1-5, depending on the size of the container 1kg: K5 2.5kg: K10 5kg: K10 25kg (bag): K58-76 Prices do not change 1 cup: K1 25kg: K 60-65 Quantities are measured by local containers and prices decrease as container size decreases in this											
	Maize Mealie Meal	Quanti	ties are	measure	ed by loca	al contair	ners and poor and poo		ecrease as	containe	er size de	creases i	n this	
	Maize grain	1 bowl (local container): K7					(local con K5 kg bucket							
	Cassava (fresh, roasted)							K0.50						
	Cassava	50kg: K95-K100 1 bucket: K15												
	(dried) Cassava Mealie Meal					1 bag (locally measured): K1 1 kg: K5 Price is constant all year, but the quantity sold in the packaging decreases								
	Cassava flour	packag	ged is re	y of cassa educed b ns the sar	y the	1 bag (250g): K1								
ENERGY	Rice	Or, price	K35 Og): K3.50 emain the ity packa uced	same	10kg: K55 5kg: K30 1kg: K12 1 bag (200g): K2.50 Other quantities are measured in local containers and prices decrease as container size decreases. Prices range from K2-5									
	Polished rice	5kg: K3!	5-40			5kg: K30 Other quantities are measured by local containers and prices decrease as container size decreases in this order: K5, 3, 2								
	Flour (wheat)						1 local pa 10kg 50kg: K2	: K55	5					
	Buns						1 bun	: K 1-2						
	Butter scones						1 s	cone: K0).50					
	Fritters						1 fritter:	K0.50-1						
	Biscuits			Price	varies de _l	pending (on the siz	e of the	pack of b	iscuits: K	1.50-4			
	Sugar			1 s	mall bag:	K0.50	500g: k Brown 1kg: l	sugar:	(g: K7.50	2Kg: k	K18			

	Food	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	Irish potatoes				1 p	oackage: I				1 package: K60 3 potatoes: K5; price remains constant, but quantity of potatoes decreases				
	Sweet potatoes	available decrease	•	uantity ne price	Un		10 big: K medium quantity	: K5	(2-3					
	Carrot		1 bag	(8 carrot	s): K5		1 bag (8 carrots): K3							
	Paw						N	Large: K5 Medium: K3 Small: K2 Price does not change						
	Pumpkin leaves	Old Luk	ulu Mai		(0.50 eaves is so es is sold			n less av	ailable					
	Sweet Potato Leaves	1 bui	ndle: K0).50				1	bundle: k	(1				
	Cassava leaves						1	bundle:	K1					
	Amaranth us	1 bun	dle: K0.	50-1				1 bundle	: K0.50-1*		ındle is			
IVE	Hibiscus	1 bun	dle: K0.	50-1			divided and price is same, or the price increases							
PROTECTIVE	Rape	1 bun Or price	ndle (3 le e consta	leaves): I eaves): K(int and nu ndle decr	0.50 umber		bundle (7-10 leaves): K1 bundle (5 leaves): K0.50							
	Cabbage		1	. small he medium 1 large he	head: K3	-5		small: K1.50- 3 med: K2-5 large: K4-6						
	Chinese cabbage	1 bundle leaves)	-		In Ka	pulanga	e (7-15 le: Market (I ves for K(Mongu):						
	Tea leaves						1 bun	dle: K1						
	Tomato			um): K3- all): K2					4 to	matoes ((large): k (medium s (small):): K2		
	Tomato paste	1 can of 70g: K2.50												
	Onion	1	bulb (la ulb (sma	um-large arge): K2 II): K 0.50)-1	ye	remains the same throughout the ear but the quantity packaged creases during the low season							
	Onion (unripe)			1 bulb: K1					1 bulb:					



Food Item	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
"Mabango " Fish				1kg:	K35								
Dried Small Bream					ish (small ı (mediur								
Dried Red Breasted Bream			6 me fish:	sh: K40 dium K20 edium K20		6 me fish: 10-12 r fish: 7 sma	sh: K30 dium K10 medium K20 ill fish: 10 h: K50						
Dried Red Breasted Spotted Bream					n: K20 n: K10		7 fish: K20 5 fish: K20						
Dried "Maleleka" Fish			K3-5	(dependi	ng on siz	e of cont	ainer)						
Dried Bulldog	15 fish 1 cup mecc	(140		1	11-14 fis cup (140								
Dried Catfish					5 fish: K10				5 fish: K20				
Dried Small Tigerfish						2 fish: K5							
Dried Zambezi Pike						1	2 fish: K1	0	1	.5 fish: K2	20		
Dried "Ndikusi" Fish (Bottlefish)						1	15 fish: K10			15 fish: K20			
Dried "Lingongi" (squeaker)			The quanti ty is reduc ed			30 pie	ces: K2		30 pie	ces: K2			
Dried "Lituu" Fish							fish, m size	(10-12 edium): K5 K50					
Dried "Shibe" Fish								neco : K5		70 meco	o cup: K5		
"Pepe" Fish (Northern Churchill)										Small p	late: K3		
Dried "Liminga" Fish (Parrot fish)						1 kg	: K50						
Dried "Nakaten ge" Fish				1kg: K25					1kg	: K25			

	Food													
	Item	Jan Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	Dried fish (mixed species)					7 fish	ı: K20		5 fish	: K10				
	Kapenta	5kg: K7! Other quant Prices range fr 70	ities:	contai	ners and	ntities are prices de	rg: K70 are measured by local decrease as container size es range from K5-55							
	Beef (mixed cut)	Sales increase during fishing ban				1kg: K27								
	Pork chops (fried)	During low s remains the sar re	me but the duced in s	pork ch	_	1 Kg: K20								
	Eggs	ا Sales are hi	1 egg: K1 tray: K22-2 gher durin		ban	1 egg: K1 1 tray: K25-30								
	Fresh milk (Parmalat)		250mL: K4 500mL: K6											
	Powdered milk		1 local packet: K1 The price does not change as											
	Sour milk	1 bag: K2 1L: K8	the instea	availabi	s not char lity chang uantity ch	ges;								
	Beans	5kg: K60- Other quantit measured in containers; p decrease as co size decrease range from I	ies are local orices entainer es and		contair	5kg: K45-55 er quantities are measured in local ainers; prices decrease as container e decreases and range from K3-30								
	Cowpeas	К	5-7			K2-3 1kg: K8								
	Groundnut	250g bag: Quantities mea local contai K0.50, 3, 5, 1	sured in ners:			250g bag: K2 Quantities measured in local containers: K0.50, 2, 3, 5, 15								
	Powdered groundnut	Quantities ar	e measure	ed by loc			K1-10		s containe	er size de	ecreases.	Price		
	Bambara nuts			Quan	ntities me	asured ir	n local co	ntainers:	K2, 3					
	Soya					80g: 90-10	2.50 0g: K3							
	pieces				Pı	rices do r		ge						
	Cooking oil	Vendors s	ell oil in sr		35 and reuse enerally, o	50mL bot 50mL bot sed bottl	tle: K10-: tle: K5-5. es of vari I bag is p	50 ous sizes riced at k		inge fron	า K0.50-1	0.		
ОТНЕК	Salt				C	1kg 500g: ckaged sa oarse sal rices do r	: K2-3 ilt, I bag: t, 500g: k not chang	(3						
	Soil (anthill soil)					1kg: g with lai with sma								

Food Item	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Baking soda	Quant	Quantities are measured by local containers and prices decrease as container size decreases. Prices range from K1-2												
Baking powder		100g: K2.50												
Paprika	Quant	Quantities are measured by local containers and prices decrease as container size decreases. Prices range: K10, 5, 2, 1												
Curry		1 small bag: K5												
Soft drinks		K3-5 per bottle												
Maheu		250mL: K2.50 500mL:K4												
D'lite						1 box (25	50g): K12							
Instant Thobwa						1 bag (8	3.1g): K1							
	LEGEND													
						High se								
						Mediur								
						Low sea								
						Not in s								
						No data								