MODIFYING MONTHLY HOUSEHOLD EXPENDITURE ALLOCATIONS: AN EXPLORATION OF SOUTH AFRICAN BOP CONSUMERS

James Lappeman*, Joel M Chigada & Pragasen Pillay

ABSTRACT

This study explored the reasons behind monthly changes in expenditure allocation in bottom of the pyramid (BoP) consumer households. To date, no research has explored the specific dynamics driving monthly modification of consumer expenditure in this segment. The qualitative data were collected through a panel of interviews conducted with 80 BoP households in four South African provinces over a period of four monthly waves. The research yielded a set of eight clear themes that describe monthly expenditure modifications. These themes included: trading groceries for entertainment or eating out; seasonal effects; recovery after income shocks; inter-month budgetary trade-offs; one-off expense with ripple effect; business-home expense trade-off and informal savings effects. The range of behaviours were mainly driven by financial constraints and the pressure of scarcity. The study findings further our understanding of BoP consumer behaviour in a South African context.

INTRODUCTION

This study investigated the reasons behind modification in consumer monthly expenditure through a panel of Bottom of the Pyramid (BoP) households in South Africa. The research explored the reasons for inter-category trade-offs in the allocation of expenditure, between various product or service categories. This study was conducted as part of a doctoral research project in the provinces of Gauteng, Eastern Cape, KwaZulu-Natal and North West, over a four-month period (Lappeman, 2017). BoP is the largest and poorest segment of the world’s population and was popularised as a concept in Prahalad and Hart’s (2004) theory that poverty could be eradicated through intentional business practice. Kolk et al.’s (2013) analysis of BoP research literature in the decade after the concept was introduced, specifically called for more research in Sub-Saharan Africa. In particular, consumer research has been absent from published research, which has tended toward being theoretical or focused on

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Dr P Pillay
School of Management Studies
University of Cape Town
Cape Town
South Africa
Phone: +27 (0) 21 650 5909
Email: p.pillay@uct.ac.za

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LITERATURE REVIEW

Consumer expenditure modification and category trade-off

A personal budget is the allocation of consumer monthly income disbursements to specific categories such as rent, utilities, mortgage payments, clothing, and entertainment (Cohan, 2018). In consumer behaviour, a product category is a class or division of products (or services) that has particular shared characteristics (Gnau, Richardson & Dippold, 1992; Karampatsa, Grigoroudis & Matsatsinis, 2017; Pradhan, 2006). For example, bread and rice would be classified in the grocery category, but a pair of socks would be classified in the clothing category. Since consumers generally spend their income on more than one item, trade-offs may occur between categories every month. For example, in one month, a household may spend more on clothing, but then during that same month sacrifice on entertainment. Two consecutive months, therefore, may display a significantly different expenditure pattern. Conventional consumer loyalty models however tend to compare behaviours and attitudes toward products within the same category (Kotler & Armstrong, 2015). Within one category, for example, products of different brands are generally regarded as a substitute for one other (Kumar & Leone, 1988; Ma, Fildes & Huang, 2016; Walters, 1991).

Monthly share-of-spending (SOS) or share-of-
purchase (SOP) is a measure of how total expenditure is allocated to specific product or service categories (Clerfeuille & Poubanne 2003; Keiningham, Aksoy, Perkins-Munn & Vavra, 2005). SOS has been used in economics – as have other loyalty-related consumer economic principles such as the income effect, the substitution effect and elasticity of demand. The economic theories of consumer choice and utility are also related to loyalty (McConnel, Brue & Flynn, 2009; McDowell, Thom, Frank & Barnanke, 2009). Although connected to the economics of choice, SOS is particularly relevant to low-income consumers, who are constantly making trade-offs between entire product and service categories.

Trade-offs between essential goods and discretionary purchases have been recorded in some recent BoP research. Often, discretionary purchases correlate to irregular occurrences like the festive season and can be funded through borrowing (Subrahmanyan & Gomez-Arias, 2008). Income inconsistencies also play a large role in consumer choice and trade-off. During leaner months, share of household expenditure may be different to months of average income. Forte (2015) described how all consumers tend to spread their budget across multiple categories. In today’s highly competitive marketplace, one company will rarely dominate a consumer’s entire category (cited examples include telecoms, insurance and even daily coffee spend). Among firms targeting BoP consumers, the issues are not just intra-category competition – but also inter-category competition. In a particular month, a low-income consumer may forgo eating breakfast, in order to buy a pair of high quality jeans. Consumers may also be influenced by the economics of a particular day, let alone a month’s budget, and may complete smaller frequent purchases in some months, and less frequent but larger purchases in other months (D’Andrea, Stengel & Goebel-Krstelj, 2004). Most BoP income is spent on food, clothing, transport and housing – but SOP can be influenced by factors like urbanisation, geography, the environment, socio-economics, literacy levels, culture and religion (Karnani, 2007; Prahalad & Hart, 2004). Duvenage et al. (2010:310) agreed with Fisher (1999:2), who noted that when money becomes scarcer, “each of the food purchases is important, as no money is available for replacements”. Alwit and Donely (1996:60) noted that the poor are “cautious shoppers”, and will change their food buying habits in an attempt to economise. The cost of food would therefore take precedence over issues of taste, cultural acceptability, and healthy eating – as found by the Joseph Rowntree Foundation (1994). These findings, while possibly true in the context of the United Kingdom, are not however easily transposed to an emerging market setting. Duvenhage et al. (2010:311) noted that while affluent South Africans seek “convenience, health and pleasure”, BoP consumers often struggle with basic food security and are restricted by the availability of an adequate quantity of affordable food for satisfying their nutritional requirements.

Chikweche, Stanton and Fletcher (2012) identified how economic conditions led BoP families toward three types of purchasing behaviour when buying products: when they are needed; when they were available; or when consumers could afford them. Since affordability and availability are inconsistent, loyalty becomes hard to discern in a meaningful way. Chikweche et al. (2012) also highlighted the influence of household members in the purchase decision process. This also adds complexity in terms of deciding which members of the household are required to participate in research.

The South African BoP

BoP is the global consumer segment made up of people living on less than US$2.50 per day, although scholars have widely debated poverty benchmarking and the actual size of the BoP segment (Chen & Ravallion, 2010, 2013; Deaton, 2010; London, Anupindi & Sheth, 2010; Prahalad & Hart, 2004; Ravallion, Chen & Sangraula, 2009; Simanis, 2012). Similarly, South African BoP benchmarks have varied between a household income of less than US$80 per month, to household income of less than US$540 per month (extrapolated from Chipp, Corder, Kapelianis, 2012; Duvenage, Schonfeldt & Kruger, 2010; Jacobs & Smit,
2010; Simpson, 2017). For this study, the South African BoP definition is aligned with Simpson (2017), who benchmarked the segment as households earning less than R6000 or approximately US$460 per month (Simpson et al., 2014; Simpson, 2017; Simpson & Lappeman, 2017).

Understanding BoP consumer behaviour is crucial in a country like South Africa, where the BoP market forms the majority (approximately 70-75%) of the consumer population (Chipp et al., 2013; Simpson & Lappeman, 2017). The importance of the market is further emphasised when considering that BoP has an aggregate recorded expenditure of approximately a third of South Africa’s spending power (Chipp et al., 2013; Simpson & Lappeman, 2017). Although the National Income and Expenditure Dynamics Survey (NIDS) and Statistics South Africa (StatsSA) have researched income and expenditure patterns, they do so at a minimum, biannually (NIDS, 2016; StatsSA, 2013, 2015). To date there is however no record of how South African BoP expenditure fluctuates on a monthly basis. Although past South African surveys of income and expenditure are useful for understanding macroeconomic patterns and measuring poverty levels, there is a need to further understand the monthly consumer behaviour patterns of BoP households (Chipp et al., 2013; Human, Ascott-Evans, Souter & Xabanisa, 2011; Jacobs & Smit, 2010; Lappeman et al., 2017). While Lappeman et al. (2019) showed the existence of monthly expenditure changes, the underpinnings of this behavior was left unexplored and has led to the formulation of the following research questions:

RQ1: Are BoP consumers modifying their expenditure on a monthly basis?

RQ2: What factors drive this modification?

METHODOLOGY

While quantifying expenditure fluctuations has been studied, the factors driving monthly expenditure modification has yet to be examined in BoP markets (Lappeman, 2017; Lappeman et al., 2019). In order to understand the underlying behavioural forces behind expenditure changes, a qualitative approach was used to explain expenditure shifts as observed in a parallel financial study of the same participating households (Lappeman et al., 2019). A longitudinal four-month panel of qualitative interviews was conducted with a sample of 80 BoP household representatives. To date, no consumer panel study has looked directly at the underlying principles influencing BoP monthly expenditure modification and inter-category trade-offs. In addition, published BoP studies are usually cross-sectional and results have not accounted for monthly variations (Nailer, Stening & Zhang, 2015).

An exploratory research design was used in this study, as there is little prior knowledge on which to build descriptive or causal research (Malhotra, 2010; Tustin, Ligthelm, Martins & Wyk, 2005). The lack of base knowledge on expenditure category trade-off among BoP consumers, meant that an exploratory research design was appropriate, as it is used in marketing studies that also lack a theoretical framework (Alam, 2002; Harrison & Reilly, 2011; Shree, Gupta & Sagar, 2017). Longitudinal studies can measure changes in behaviour that are not possible with cross-sectional studies (Zikmund & Babin, 2010). The research methods used in exploratory studies are highly flexible and generally qualitative (Malhotra, 2010; Tustin et al., 2005). Nailer et al. (2015:855) highlighted the need for a shift in research strategy, when observing emerging markets. Their case is stated in the following words:

“… market research in emerging markets that relies too heavily on quantitative methodologies has considerable limitations. For this reason, there has been an increasing realisation that qualitative methods, emphasising data richness and a deep understanding of consumers ‘why’ as well as ‘what’ and ‘how much’ are a critical component of research in emerging markets”.

Some BoP studies have employed exploratory
designs for the comparable reason of there being a lack of sufficient theoretical framework for the phenomenon of interest (Barki & Parnete, 2006; London & Hart, 2004). Lariviere et al. (2011:60) explain that some studies purely identify phenomena, while others are able to take the research a step further and answer the question “why?”

Sample

In order to choose a specific sample for the study – the target population was first defined. Kolk et al. (2013) assert that after analysing a decade of BoP literature, researchers need to make their own definition of BoP clear, and that global definitions do not account for local conditions. We used the benchmark of households earning less than R6000 (US$460) per month. Since approximately 70% of South Africa’s 55.6 million people fit the above-mentioned criteria (approximately 10.5 million BoP households), the target population includes most South African households (Simpson, 2017). With such a large and broadly defined target population, there is no accurate sampling frame from which to accurately draw a probability sample. Non-probability sampling has a robust history in marketing research, and, despite its limitations, has been used in many studies due to its time and cost benefits. It has been argued that when a sample frame is not available and research is exploratory – non-probability sampling is justified (Baker et al., 2013; Ortinau, 2016; Schillewaert, Langerak, & Duhamel, 1998; Tustin et al., 2005).

To increase the generalisability of the findings, quota sampling was used (Babin & Zikmund, 2015; De Rada & Martin, 2014) – whereby participants needed to belong to households earning less than R6000 per month, and were geographically spread out in order to improve generalisability, as observed in other South African multi-province studies (Littlewood & Holt, 2015; Munyewende, Rispel & Chirwa, 2014; Siziba, Jerling, Hanekom & Wentzel-Viljoen, 2015; Vannoorenberghe & Voeten, 2016). Finally, participants needed to be available and willing to share sensitive information during the entire longitudinal study. The outcome of the sampling process designated fieldwork sites in areas of Johannesburg (Gauteng Province), Mthatha (Eastern Cape province),

FIGURE 1: DATA COLLECTION SITES
### TABLE 1: DESCRIPTION OF SAMPLE HOUSEHOLD MAKEUP

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<th>Participant household identifier</th>
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<th>Suburb</th>
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<th>Number of adults 15 years +</th>
<th>Number of kids 0-14 years</th>
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Modifying monthly household expenditure allocations: An exploration of South African BoP consumers
Potchefstroom (North West Province) and Port Shepstone (KwaZulu-Natal Province), as shown on the map in Figure 1.

The primary justification for choosing these sites was first, that they have a high density of BoP households. The abundance of BoP households therefore represented the target population well. Table 1 (below) summarises the sample of households by listing the suburbs represented in each geographic region and the languages used in the fieldwork.

Since the research used a non-probability sampling technique, the fieldwork team were also key in selecting the sample (See: Bochner & Riggs, 2014; Howard-Payne, 2015; Katz, 2015; Yanow, 2006).

Data collection

Data collection took place over four months through monthly interviews with each of the selected panel of household participants (often the household head). The interviews were exploratory and involved asking multiple, open-ended questions using a laddering technique (Malhotra, 2010). The interviews helped to gather a broad range of insights that would connect changes in household expenditure to situational (or other) phenomena. Participants were asked general questions about how the month had been for the household, and whether there was anything interesting that had happened in the time between interviews. Once a phenomenon was mentioned (for example a large unexpected expense), the laddering technique allowed for further probing. The repeat visits from the same interviewer provided a foundation of trust, to be built on between participant and fieldworker.

The interviews were conducted and recorded in the home language of the participants. Recordings were sent off for translation into English and transcription. As the nature of a
multi-wave longitudinal study also runs the risk of participant fatigue (Taylor & Lynch 2016), capable, motivated and trained fieldworkers were used (Zikmund & Babin, 2010).

Data analysis

Once all the data were captured, certain overarching trends were explored by way of thematic analysis - as proposed by Taylor and Ussher (2001). Thematic analysis is widely used in qualitative research studies, in which the researcher actively identifies themes within a dataset, selects those that are of significance to the particular study, and reports the findings (Braun & Clarke, 2006; Taylor & Ussher, 2001). The process of coding for this line of analysis followed qualitative analysis guidelines described by Miles, Huberman and Saldana (2013) – which involved the manual coding and categorisation of the data, the recoding and re-categorisation of the data, and presentation of the themes identified (Miles & Huberman, 1994). The themes derived from the data were categorised into the components related to factors impacting monthly expenditure modification and expenditure trade-offs. The qualitative analysis was validated for inter-rater reliability, in order to mitigate possible researcher bias when interpreting the results. Although this process is more often used in quantitative research, when used in qualitative research it can be a useful for assessing the value of research and enhancing analysis of the qualitative data (Armstrong, Gosling, Wienman & Marteau, 1997; Marques & McCall, 2005). This process involved the raw data and transcripts being sent to three other experienced researchers that engaged attentively with the information, in the same way that the primary researcher had done, and offering independent insights and opinions (Marques & McCall, 2005).

FINDINGS

General trend towards monthly expenditure variability

Participants in this sample reported that they regularly modified their budgets and expenditure patterns. Not one of the sample participants stated that their category expenditure remained the same in a four-month period. This trend validated the study, and eight specific themes underlying monthly expenditure modifications are explored below:

Eight emerging themes explaining monthly expenditure variation

Theme 1: Income variability impacts consumer expenditure

The observation that monthly income can fluctuate significantly between months, has a direct impact on category expenditure. Inconsistent wages from non-permanent employment or micro-entrepreneurship are a major contributing factor. The loss of a job for one or more members of the household also has a significant impact on expenditure.

In HH101014, for example, income decreased from R1500 to R390 from December to January, due to the termination of an employment contract. During this period, groceries increased from 60% to 86%, where this percentage then remained fairly constant – despite the amount spent on groceries increasing from R288 to R1744. This was accompanied by a decrease in eating out from 40% to 0% from December to January. Income eventually returned to R1600 in March. The following quotes provide qualitative insight into the observed variation in expenditure as a result of income variability:

“Our employment contract came to an end.”

“They've renewed my contract at work – so this means I'm going to be working full-time.”

“My first-born son got a job.”

Owing to the loss of jobs during December and January, more groceries were bought, while the eating out expenses decreased. When the job contract was renewed, and their adult child found a job in February and March, expenses increased, as the household could afford more. The largest expense, of R177, was on groceries in January.
Theme 2: Trading groceries for entertainment or eating out

Although classified as different categories, groceries and entertainment often fulfill similar needs. While not true in all cases (for example the lottery), expenditure on food and beverages in an entertainment capacity, can substitute for grocery expenditure. The sample cases below provide a unique window into the trading off of more essential categories (like groceries) for entertainment and costlier eating out.

HH521010 experienced a decrease in electricity and groceries from 40% to 21% and 60% to 56%, respectively, between February and March. During this time, cellphone expenses rose from 0% to 16%. Between April and May, cosmetics and groceries increased from 0% to 14% and from 56% to 83%, respectively. In addition, cellphone and cleaning materials decreased from 16% to 2% and from 7% to 1%, respectively. The following quotes illustrate certain situational variables that influence the category trade-off expressed in the financial diaries:

“They were going to the house warming for their cousin, so they all bought groceries as gifts.”

“Nomthandazo went with her sister to visit their aunt in Umzumbe, to have a Thanksgiving ceremony. As their aunt was looking after her sister, they bought some gifts for her like blankets, groceries, pinafores, pork and traditional beer.”

When attending gatherings, groceries were bought as gifts. Therefore, during times of celebration, a smaller percentage was spent on cellphones, cleaning and electricity expenses. Additionally, more was spent on cosmetics during this time. The largest expense of R431 was on groceries in May.

Theme 3: Seasonal trade-off effects

The trend of trade-off between groceries and other categories was particularly noticeable during the festive season. The study was intentionally targeted at exploring the months that span the festive season and New Year. While a study that spans a full calendar year would give more robust results – the festive season is a key season for many marketers, as expenditure tends to peak (Terblanche et al., 2013). Easter, birthdays, back-to-school and traditional ceremonies are annual phases of expenditure category disruption – as categories like entertainment, school, clothing and eating out may temporarily spike.

From February to April, HH521019 saw cleaning materials and cosmetics increase from 0% to 5.2% and 1% respectively, while groceries decreased from 100% to 93%. From April to May, groceries increased to 95%, while cleaning materials and cosmetics decreased to 4.6% and 0% respectively. The following quotes express the situation:

“When its [the] festive [season] we are celebrating Christmas and New Year; it’s time to be happy [and] we eat nice things that we don’t always eat during the year.”

“In January we buy school uniforms and pay school fees and then we save the rest for other things we might need.”

During the festive season, more groceries are brought to feed the children (with stokvel money). The largest expense of R1231.79, was on groceries in April.

HH601021 saw eating out increase from 0% to 25%. At the same time, groceries decreased significantly from 94% to 70%. This trade-off is understood from the following quote:

“Normally I buy school uniforms in November and [in] December I buy them clothes, and in January I will concentrate on books only.”

Despite getting a new microwave, the household increased the amount they ate out. The largest expense was on groceries in March – which was R379.00.

Theme 4: Shock, trade-off, recovery

In some households, unexpected personal
setbacks, losses and income shocks in one month, directly impacted expenditure. The disruptive nature of an unforeseen setback caused an immediate inter-category trade off. The subsequent months usually saw a recovery to somewhere near the original category breakdown. A noticeable reduction in luxury purchases (for example new clothes and cosmetics) was sometimes replaced by expenses relevant to the disruption.

With HH101012, groceries increased from 23% to 98% from December to January, where it remained fairly constant. This was accompanied by a decrease in other expenses from 77% to 0%. The shocks are expressed in the following quotes:

"I can’t forget the death of my sister’s child."
“My uncle was attacked by a stroke.”
“Checkers Hyper donated food parcels to my charity organisation.”

The unfortunate circumstances of a death and illness in the family caused a large amount to be spent on other expenses – rather than groceries. During the months that followed, these expenses were minimised and most money was spent on groceries. The initial low amount spent on groceries in December (23%) was explained by food donations from Checkers Hyper. This percentage then increased drastically to almost 98% in January, owing to a sister visiting the household, which required an increase in grocery expenditure to accommodate her. The largest expense of R2,356.12 was on groceries in April.

HH101018 also saw an increase in groceries (81% to 99%) and a decrease in school expenses (19% to 0%) from December to January. The shocks experienced by the household are illustrated in the following quotes:

“I attended a funeral of a family member in Limpopo.”

Owing to many funerals, money was spent only on essentials such as groceries. This meant there was not enough money to spend on schooling. The largest expense of R1397 was on groceries in January.

The spending of HH101023 was also impacted by a number of funerals. From December to January, eating out decreased from 78% to 38%, and then even further to 0% from January to March. Groceries then increased from 9% to 48% from January to February:

“Last week I buried my cousin.”
“Also our family friends lost a child.”

Eating out expenses may have been high owing to the household attending funerals. Eating out expenses decreased and groceries expenses increased when the household attended fewer family gatherings.

Theme 5: Inter-month budgetary trade-offs

Instead of seeing category expenditure as a monthly cycle aligned with income frequency, budgetary items are spread over a series of months. When observing the total spend for a series of months, some of the months might find no expenditure in some categories. The spread of category expenditure over multiple months creates an inconsistency in budgeting, and makes measurement of household expenditure difficult without multiple data points – as was achieved in this study.

With HH101019, from December to January, groceries increased from 32% to 96%. Clothing, electricity and other expenses all decreased to 0% from 20%, 10% and 33% respectively, during this time. From January to March, cosmetics, health care and eating out increased from 0% to 16%, 10% and 11%, respectively. During this time, groceries decreased from 96% to 59%. Situations that led to the trade-offs are illustrated in the following quotes:

“I attended a meeting of traditional healers.”
“There have been lots of weddings in the family.”
“I bought some stationery [during] last school term, and in terms of paying for the school fees I budgeted the money
From the data, it seems that expenditure is not simply contained within monthly budget cycles. Spending is often spread over multiple months where, for example, food stockpiling may occur in months where future ad hoc expenses were expected (like a wedding). In months where there are no funerals or weddings, most money is spent on groceries.

**Theme 6: Once-off expense as an anchor to the trade-off ripple effect**

In some of the households, a once-off expense had an unpredictable category trade-off ripple effect. Unlike the observation in Theme 2, the trade-off is not a substitution between two related (albeit different) categories. With the case illustrated in the households below, the once-off expense (for example a clothing purchase) would impact on groceries. The difference between this observation and the shock and recovery point, is the probability that the once-off expense could be expected (or planned for). The return for a new school year was a noticeable event in a number of the households. Buying school uniforms and stationery in January, meant that other categories had reduced expenditure. Similarly, spending money on irregular expenses like house upgrades or farming services would have a ripple effect on other categories.

In HH201020, clothing and expenses decreased from 7% and 9% respectively to 0% from December to January. Groceries increased from 78% to 87% from January to December, and then again to 92% the following month. In a similar way as the previous household, the following quotes help to describe the situation:

“As you see, we are building a new house. it’s not easy because we have to leave [out] some of the groceries.”

“We are focusing on the children going back to school and building.”

Owing to the household building a new home, the percentage spent on clothing and other expenses was reduced to accommodate for this expense. Additionally, the opening of schools reduced the amount of money spent on children and allowed for expenses to be focused on groceries. The largest expense of R989.00, was on groceries in December.

HH201024 also saw an increase in groceries from 71% to 98%, while clothing decreased from 26% to 0% during the December/January period, as expressed in the quote:

“Since it is January our mood is more stressful because we don’t have money and we are planning to fence this yard.”

During January and February, less was spent on clothing owing to the family saving to build a fence around their yard. This meant that groceries formed a higher percentage of expenditure. Donations to the family from March to April allowed for more money to be spent on eating out. The largest expense of R1097 was on groceries in January.

**Theme 7: Business-home expense trade-off**

The observation that income sources do not always come from formal (waged) employment, means that many BoP households rely on informal trade and micro-entrepreneurship for income. The result of the micro-enterprise activity is a budgetary overlap as work-related and home-related expenses merge as expenditure in one area has an impact on the other. In the example of running small-scale grocery or alcohol trading from home, supplies would come as a household expense – as opposed to a large business where business expenditure and household expenditure would be separated. Income from micro-enterprise may also be unrecorded by data collection. For example, a street vendor who makes a little revenue could spend the income on replenishing stock.

With HH521014, from February to April there was a decrease in electricity spend from 7% to 0%. Both cellphone and cleaning materials increased from 0% to 3%, where cellphone expenses continued to grow to 9% and cleaning materials to 8% from April to May. The
connection between expense trade-off and business expense is seen in the following quotes:

“Jabu went to order some clothes that she is selling for people at the pay points.”
“Jabu took her daughter to crèche so that she can go and sell at pay points from the beginning of April.”

Owing to selling clothes, Jabu may have been required to use her cellphone more. Additionally, she may have been required to wash clothing – and therefore more cleaning material was required. The largest expense of R471 was on groceries in April.

HH521017 also saw an increase from 0% to 7% in cellphone expenses from February to March. From April to May, these cellphone expenses reduced back down to 0%, while groceries increased to 98%. The home-business expense trade-off is seen in the following quotes:

“I use SMS and WhatsApp to communicate with most of my customers.”
“We cook more food as we also have visitors during that time and I buy nice things.”
“… to prepare for the visitors who are coming on Easter holidays.”

This increase in cellphone expenses may be from contacting family members to organise gatherings and clients for business reasons. During the Easter period, the family hosted visitors, and this may have resulted in the trade-off between cellphone expenses and groceries.

**Theme 8: Informal savings (Stokvel) effects on category trade-off**

Informal saving collectives (mainly found in developing economies) are often referred to as Rotating Savings and Credit Associations (ROSCAs) (Ambec & Treich, 2007; Besley, Schreiner, 2000). In South Africa, ROSCAs are known as stokvels (Lappeman et al., 2019; Tengeh & Nkem, 2017). Some 11.4 million South Africans belong to 811 130 stokvels, which have a collective value of R49 billion a year (Booysen, 2016; Massmart, 2011; Mfeti, 2017; NASASA, 2016). Informal savings can act in a similar way to a sudden increase in income. While technically already recorded as income in previous months, a stokvel (informal savings club) provides an increase in disposable income (if the stokvel is cash-based), or an increase in groceries and other household items (like cosmetics or cleaning materials) – in the case of a festive season hamper (NASASA, 2016; Simpson & Dore, 2007; Skenjana, 2013). The sudden (although expected) input can significantly change the expenditure patterns in a household.

HH101019 saw grocery expenditure at only 31.56% in December (at least 20% less than on average), and this then increased to 95.99% in February. Expenditure for the “other” category was 33.02% in January. In February and March, none was spent on this category:

“The food can last until next year, until the second week of January. That’s why stokvels help.”

The sharp rise in grocery expenditure can be attributed to the fact that more groceries were needed to cater for in-laws. Since most spending was allocated to groceries, very little was spent in other categories. The stokvels enabled the family to purchase more groceries. In addition to this, it can also be concluded that, owing to buying in bulk and stokvels – the family still had groceries in January and did not have to spend much on this category. However, come February, they might have run out of most items and had to stock up on their groceries. High expenditure for the other category might be because of transport costs (to and from the funeral) and general funeral expenses such as monetary contributions to help the family of the deceased. Other expenses can also include expenses toward the family gathering, such as contributing towards drinks, food and other entertainment. From the interview, it is clear that the head of the family might have spent money on alcohol or other leisure activities.
HH101016 saw an increase in groceries from 35.95% in January to 67.75% in March. Stokvels are also mentioned among the quotes describing the situation:

“I have already joined a stokvel whereby we will be contributing R300 every month we take it to Freedom supermarket. We will collect that money at the end of the year.”

Since schools have closed, the two children who are at university, are likely to come home for the holidays – explaining the higher expenditure on groceries. From the interview, it can be deduced that the family did not have to spend much on groceries in December and January, because, first, they bought in bulk in December and, second, the stokvel the household head had joined helped with the accumulating of groceries. Thus, they had to stock up in March only – explaining the increase in grocery expenditure.

Expenditure on cleaning materials with HH101016 increased from 0.00% to 10.31% from December to January. This household also mentions stokvels:

“I also have a stokvel for soaps where we contribute R100 each month and you get 2 kg powder soap, 2 bars sunlight, soap for bathing, and dishwashing liquid and sta-soft.”

The family purchased their stock of cleaning materials in January, thanks to the stokvel. The increase is because the family had to stock up on cleaning materials in January.

DISCUSSION

While some overlap exists, the eight themes described above explain the observed household monthly expenditure shifts that took place in the sample households. The findings from the consumer panel align with various other sources – although to date there are no aggregated findings of this nature. For example, the observation that income variability impacts consumer expenditure (Theme 1) is aligned with the current literature that shows how BoP consumers experience income instability and inconsistency – often with daily wage payments (Chikweche & Fletcher, 2012). As in all BoP markets, low-income South Africans experience significant socio-economic pressure as economic constraints like unemployment, low income, and often inconsistent income play a role in financial decisions (Effert, Gelb & Ramachandran, 2005; Johnson, Ostry & Subramanian, 2007; Nwanko, 2000). While measuring BoP income partially describes the constraints of BoP consumer behaviour, the impact of income variability on monthly expenditure is seen in the household cases that follow.

Trading groceries for entertainment or eating out (Theme 2) shows how limited financial resources lead to expenditure trade-offs (Charman, Petersen & Piper, 2012; Duvenage et al, 2010; Jacobs & Smit, 2010; Simpson & Lappeman, 2017). Chipp et al. (2012) identified South African BoP consumers as being highly considerate of choice costs and benefits in their pursuit of overall utility. This aligns with Hamilton and Catterall (2005:628), who identified the need for better observation of how BoP consumers attempt to “exert some control” over their lives through choices. Seasonal trade-off effects (Theme 3) align with Subrahmanyan and Gomez-Arias (2008), who observed that discretionary purchases correlate with irregular occurrences like the festive season. In addition, D’Andrea et al. (2004) observed how certain months have large purchases, while others do not. The results of the festive season on share of expenditure is observed in the following cases: The Shock, trade-off, recovery finding (Theme 4) is aligned with other literature that identified BoP households as being vulnerable to shocks as they experience significant pressure from a lack of resources (Charman, Petersen & Piper, 2012; Duvenage et al., 2010; Jacobs & Smit, 2010; Simpson & Lappeman, 2017).

Inter-month budgetary trade-offs (Theme 5) has been observed through stockpiling behaviour (Ailawadi et al., 2007; Ndubisi & Chew, 2006).
Stockpiling is a purchasing activity where an individual acquires a large accumulated supply of a good for the future (Ailawadi et al., 2007). Stockpiling increases household consumption rates, but also prevents or delays consumers from switching to competitor brands within the marketplace (Ndubisi & Chew, 2006). A study by Gupta (1988) and by Hong, McAfee and Nayyar (2002) found already loyal consumers more likely to stockpile when their desired brand is on promotion. According to Krishna (1994), brand switchers do not have the same desire to stockpile as loyal consumers do. The reason for this difference is that they are governed by the idea that there will be another brand on promotion in the near future. In contrast, Ailawadi et al. (2007) found that deal-prone consumers are more likely to stockpile. When a consumer purchases more of a product than he would have in the absence of a promotion, he is less likely to purchase a competitor’s product – as he/she is temporarily taken out of the marketplace (Ndubisi & Chew, 2006). Jacobs and Smit (2010) emphasised that BoP households lack of income and access to low-interest loans often results in higher real costs for many goods.

A one-off expense as an anchor to the trade-off ripple effect (Theme 6) aligns with Banerjee and Duflo (2007), who noted that social, cultural and festive engagements have great significance in most BoP markets. These events, however, have a financial implication, as expenses can be significant. A large funeral expense, for example, can impact on discretionary expenditure for a few months. This one (often unexpected) event can have a multi-month impact on category expenditure. A similar ripple effect is observed in the use of a single budget for business-home expenses (Theme 7). Informal business activity is known for inefficiency without sufficient scale, regulation and support (London & Hart, 2004; London et al., 2010). The impact of business expenses (e.g. buying stock for micro-retail) easily impacts on available money for household expenditure. Informal business inefficiencies and demand needs therefore directly impact household expenditure. The income made would also likely escape being recorded as household income, is it was absorbed immediately by the micro-enterprise (Charman & Petersen, 2017; James, 2014). Finally, the inconsistent income and expenditure of informal savings instruments (Theme 8) is not only hard to measure – but also impacts on the consistency of expenditure patterns. A stokvel payout in one month could dramatically change the household expenditure profile for that particular month. This aligns with Kurtz (1973), who explained that informal savings groups must be viewed as a way of life for poor households. These groups help them to adapt to the conditions that create poverty. These points also align with research that shows that stokvels are often the only means for BoP households to access savings or credit (Adams & Canavesi de Sahonero, 1986; Verhoef, 2001). As in any other situation, access to credit directly impacts on expenditure.

CONCLUSION

Any cross-sectional analysis of BoP consumer expenditure is likely to fail in the accurate portrayal of expenditure behaviour. As this study explored, expenditure changed on a monthly basis and Figure 2 summarises the themes described in the findings of this study – showing that a shift in category expenditure can be influenced by multiple factors.

In Figure 2, a particular consumer household will display a certain expenditure profile in a given month (Month A). If no significant event occurs that could impact category expenditure, the expenditure profile might be relatively similar the following month (Month B, Possibility 1). Should one of the eight identified phenomena be significant, there is a strong possibility of the category expenditure profile changing (Month B, Possibility 2). The pathways to a category trade-off provide a filter that enables the understanding of possible BoP household trends. For example, the points related to the seasonal trade-offs and stokvel season (where applicable) might involve a different (and more predictable) strategy than phenomena that are less predictable. The findings of this study make a unique contribution toward understanding consumer behaviour in South African BoP
households.

Another significant contribution of this research, is a better understanding of sales inconsistency. When a business experiences spikes or troughs in sales, conclusions may be quickly drawn (either optimistically or pessimistically). The findings of this study show that apparent shifts in sales may have more to do with consumers’ temporary re-allocation of expenditure to another category, than with defection. This phenomenon may be observable, for example, in micro-entrepreneurs or large retailers. In addition to understanding that expenditure shifts are not always an act of brand switching, marketers may use the findings of this study to better understand BoP consumer lives. In particular, the challenges of resource constraints directly impact choice, and the role of situational variables has the potential to create unwelcome expenditures (for example funeral contributions).

RECOMMENDATIONS FOR FUTURE RESEARCH

While no other similar studies have been conducted previously, there is much room for methodological improvement in terms of the current research. In addition, avenues for future research are possible. A larger sample of household data could yield more themes. The size of the sample (household number and distribution) was limited to 80 over four months. The timing limitation of the study may also provide a new avenue for future research; this study was completed over a panel of four months, with each area having a maximum of four waves. However, a study of this kind could be reproduced by tracking household attitudes and spending for a year (as done by Morduch and Schneider, 2017). While similar themes may emerge, the richness of the data will improve significantly.

Future research should also seek to test the findings of this study in international BoP...
contexts, and in segments with higher disposable incomes. While higher net-worth households may have more stability in income and expenditure (more fixed expenses like home loans and insurance policies) – understanding the influences on expenditure modification has many potential benefits for understanding consumer behaviour at all levels.

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