## **Category review: Chips**

Retail Analytics





Classification: Confidential

## Our 17 year history assures best practice in privacy, security and the ethical use of data

### **Privacy**

- We have built our business based on privacy by design principles for the past 17 years
- Quantium has strict protocols around the receipt and storage of personal information
- All information is de-identified using an irreversible tokenisation process with no ability to re-identify individuals.

### Security

- We are ISO27001 certified internationally recognised for our ability to uphold best practice standards across information security
- We use 'bank grade' security to store and process our data
- Comply with 200+ security requirements from NAB, Woolworths and other data partners
- All partner data is held in separate restricted environments
- All access to partner data is limited to essential staff only
- Security environment and processes regularly audited by our data partners.

### Ethical use of data

Applies to all facets of our work, from the initiatives we take on, the information we use and how our solutions impact individuals, organisations and society.

We all have a responsibility to use data for good

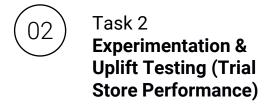
Quantium believes in using data for progress, with great care and responsibility. As such please respect the commercial in confidence nature of this document.



### **Executive summary**



- Over the year, transactions increase dramatically in the lead-up to Christmas. Suggests optimal time for promotions during mid-December.
- Kettle is the most popular brand of chips, with 175g the most popular packet size.
- Highest paying segments are:
  - Older Families with Budget Premiums
  - Young Singles/Couples with Mainstream Premiums
  - Retirees with Mainstream Premiums



- Trial Stores 77 and 88 saw significant increases in sales and customers in **two** of the three trial months.
- Store 86 saw significant increases in both sales and customers during only **one** trial month.
- Overall, both sales and customers had significant increases in sales during the trial.

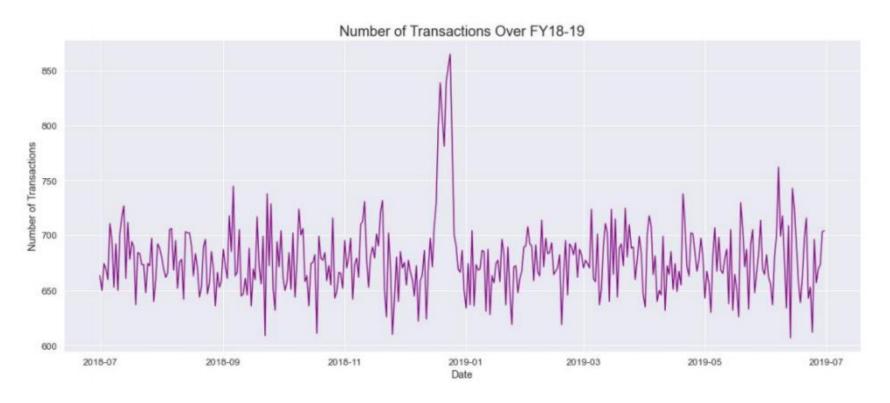


01

## Category



### Overview: Transactions Over FY-18-19

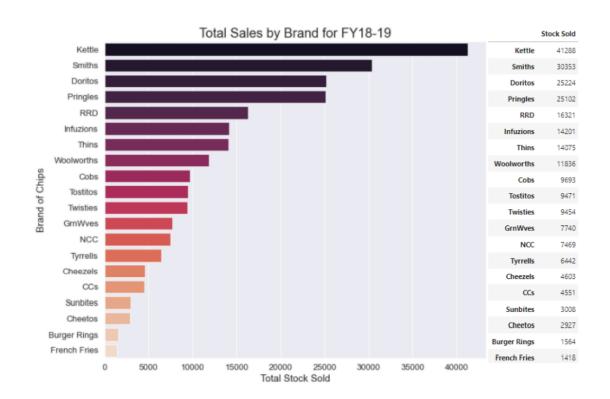


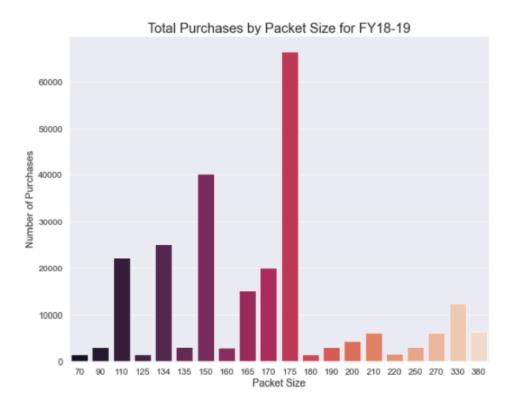
- During ordinary time, the number of transactions for chips remain stabilized at between 640 to 750.
- However, during the lead up to the Christmas period, the number of transactions sharply increase to well above 800.
- This suggests the optimal time to run promotions on targeted items.

NOTE: December 25<sup>th</sup> (Christmas Day) is not included in this graphic due to closure (public holiday).



### Overview: Top Selling Brands and Package Sizes





- · Kettle is the most popular brand of chips.
- The top selling packet size is 175g.



## Affluence and its effect on consumer buying for the category of chips

### Total Expenditure – Highest paying segments by Affluence:

- Older Families with **Budget Premiums**
- Young Singles/Couples with *Mainstream Premiums*
- Retirees with Mainstream Premiums

#### Other Information:

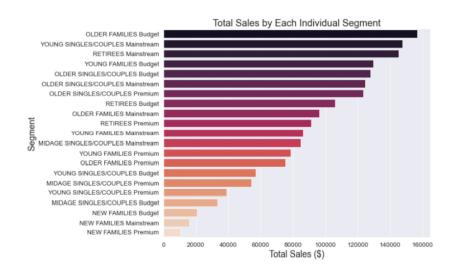
- Older and Young Families buy more units per transaction.
- Retirees and Older Singles/Couples have the highest unique customer counts.
- Retirees and New Families are **willing to spend on more premium ranges** of snacks as opposed to other affluence categories, as they have the highest average unit price.

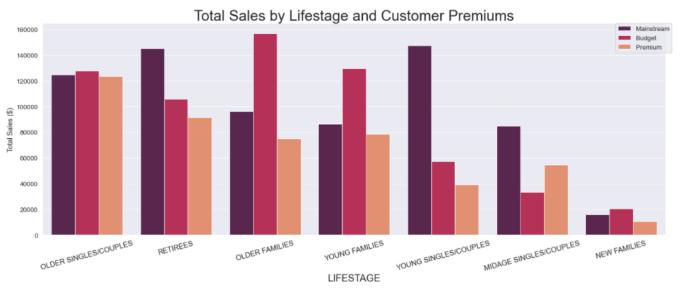
#### Recommendations:

Target segments which provide the most sales.

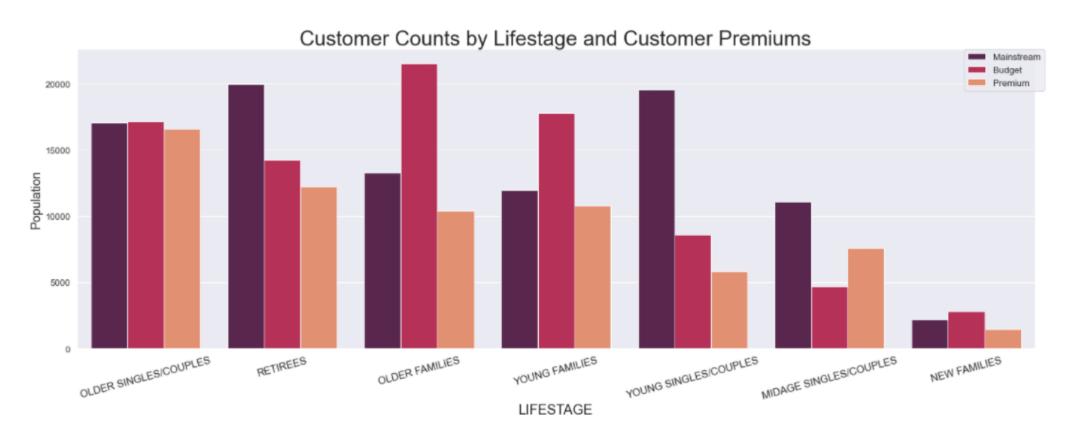
Catering to these segments will further increase sales. Suggest looking at their favourite brand of chips.





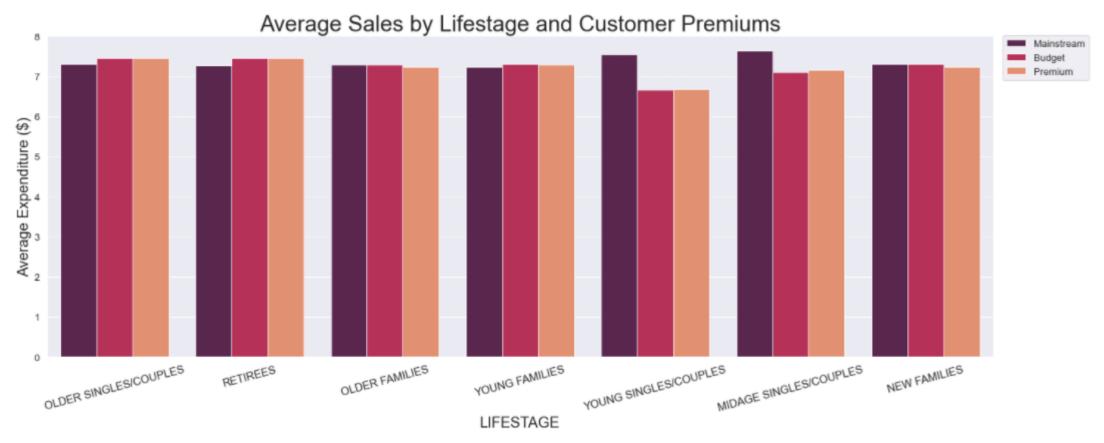






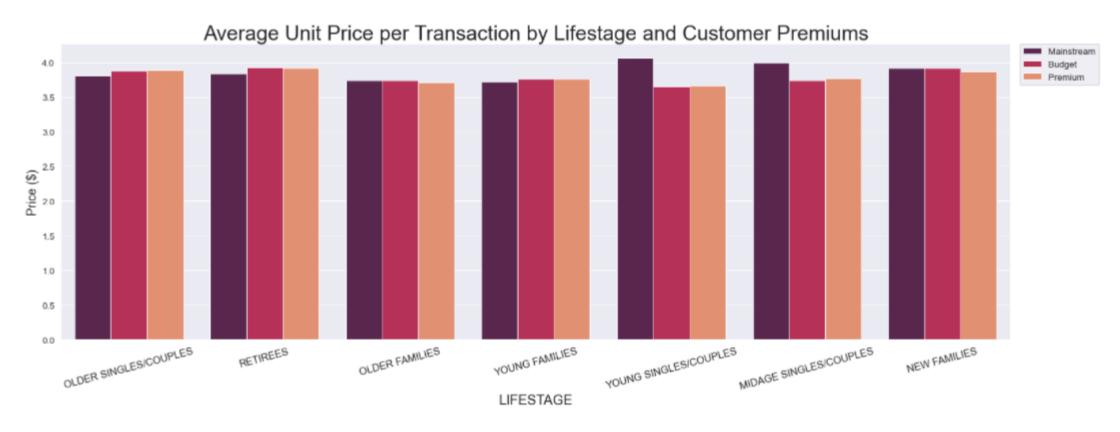
We can see that **older families on budget premiums** and **retirees on mainstream premiums** buy chips more than any other segment, contributing to being top 3 total spenders.





Middle aged singles/couples and young singles/couples spend the most per transaction.





Young & Midage Singles/Couples are more willing to pay more per packet of chips compared to their budget and premium couterparts.



# 02

## **Trial store performance**



## Explanation of the control store vs other stores

Trial Store	Corresponding Control Store
77	233
86	155
88	237

### Selection Criteria

The control stores were selected based off the following criteria:

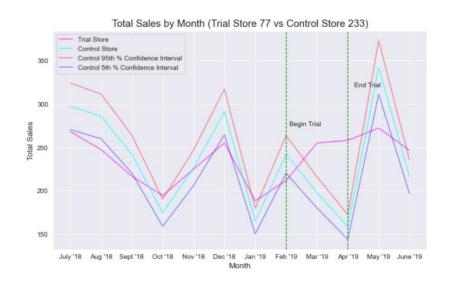
- Total monthly sales
- Total monthly number of customers
- Average Quantity per transaction
- Average Unit Price per transaction

#### Method:

Selection of these stores based off these metrics was done via finding the **closest Euclidean distance** of each store's performance vector over the months prior to the trial.



### Trial Store Performance – Total Sales



#### Results:

- Stores 77 and 88 show a significant increase in sales for majority of the trial.
- Store 86 only showed a significant increase in sales for the month of March, but did not maintain this performance on either the head of tail of the trial period.







### Trial Store Performance – Number of Customers



#### Results:

- For stores 77 and 86, the trial store is significantly different to its control store in the trial period, in terms of number of customers.
- However, for store 88, it is only significantly different for the month of March.







### Recommendations

- Target segments which provide the most sales. These include:
  - Older Families Budget
  - Young Singles/Couples Mainstream
  - Retirees Mainstream
- Cater to these segments via their favourite snacks:
  - Maintain stock levels for top brands
  - Targeted promotions i.e. Multibuy specials/target advertisements
- Increase stock levels and promotions during December period
- Prioritize 175g packet size products when replenishing stock
- Maintain and run promotions on Kettle and 175g packet sized chips



### What's next?

• Check with Category Manager to discern whether any special offers within the trial store affected the decrease in sales during the trial period months, impacting our trial results.



**Disclaimer:** This document comprises, and is the subject of intellectual property (including copyright) and confidentiality rights of one or multiple owners, including The Quantium Group Pty Limited and its affiliates (**Quantium**) and where applicable, its third-party data owners (**Data Providers**), together (**IP Owners**). The information contained in this document may have been prepared using raw data owned by the Data Providers. The Data Providers have not been involved in the analysis of the raw data, the preparation of, or the information contained in the document. The IP Owners do not make any representation (express or implied), nor give any guarantee or warranty in relation to the accuracy, completeness or appropriateness of the raw data, nor the analysis contained in this document. None of the IP Owners will have any liability for any use or disclosure by the recipient of any information contained in, or derived from this document. To the maximum extent permitted by law, the IP Owners expressly disclaim, take no responsibility for and have no liability for the preparation, contents, accuracy or completeness of this document, nor the analysis on which it is based. This document is provided in confidence, may only be used for the purpose provided, and may not be copied, reproduced, distributed, disclosed or made available to a third party in any way except strictly in accordance with the applicable written terms and conditions between you and Quantium, or otherwise with Quantium's prior written permission



Classification: Confidential