Category review: Chips

Retail Analytics





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

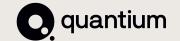
- We are ISO27001 certified internationally recognised for our ability to uphold best practice standards across information security
- We use 'bank grade' security to store and process our data
- Comply with 200+ security requirements from NAB, Woolworths and other data partners
- All partner data is 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



Sales have mainly been due to Budget - older families, Mainstream - young singles/couples, and Mainstream - retirees shoppers. We found that the high spend in chips for mainstream young singles/couples and retirees is due to there being more of them than other buyers. Mainstream, midage and young singles and couples are also more likely to pay more per packet of chips. This is indicative of impulse buying behavior. We've also found that Mainstream young singles and couples are 23% more likely to purchase Tyrrells chips compared to the rest of the population.



We've found control stores 233, 155, 237 for trial stores 77, 86 and 88 respectively.

The results for trial stores 77 and 88 during the trial period show a significant difference in at least two of the three trial months but this is not the case for trial store 86. We can check with the client if the implementation of the trial was different in trial store 86 but overall, the trial shows a significant increase in sales.

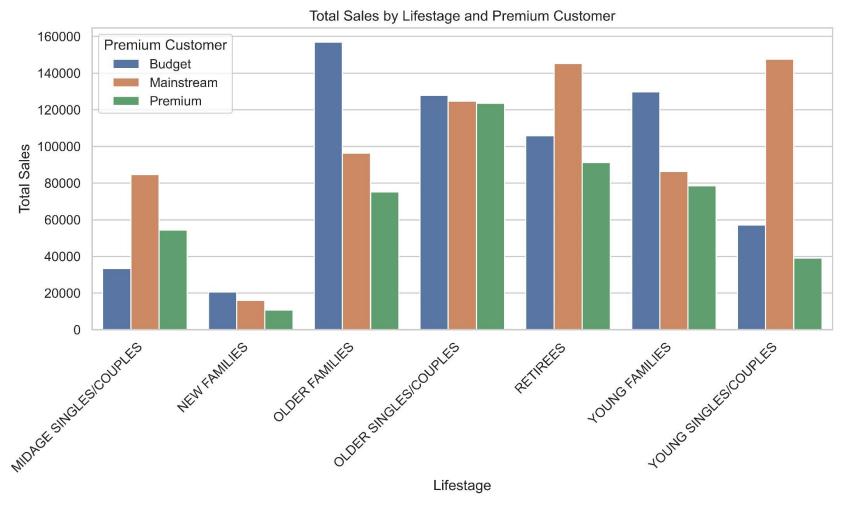


01

Task - 1



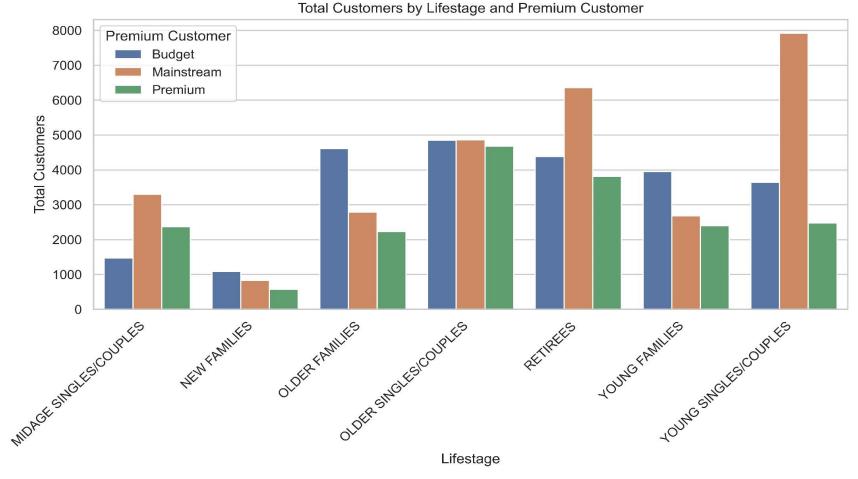
Sales are coming mainly from Budget - older families, Mainstream - young singles/couples, and Mainstream - retirees





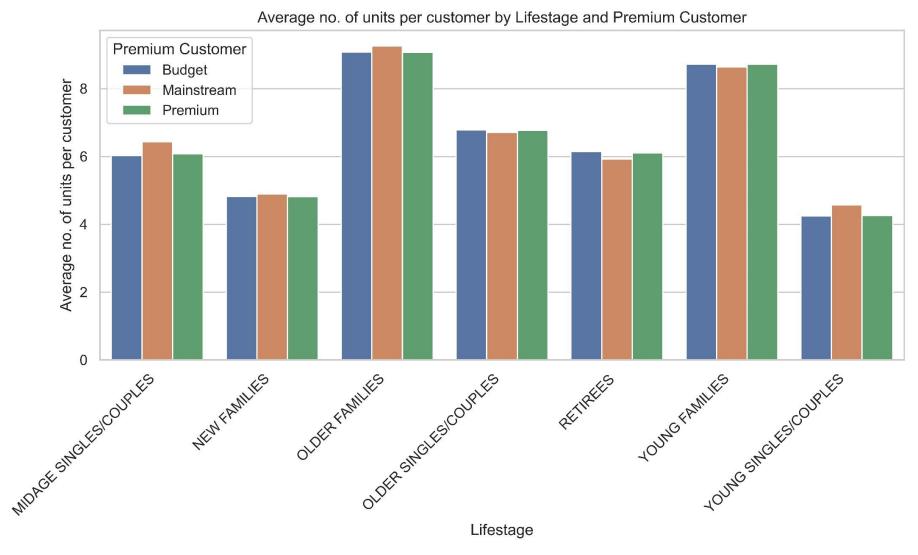
There are more Mainstream - young singles/couples and Mainstream - retirees who buy chips.

This contributes to there being more sales to these customer segments but this is not a major driver for the Budget - Older families segment.





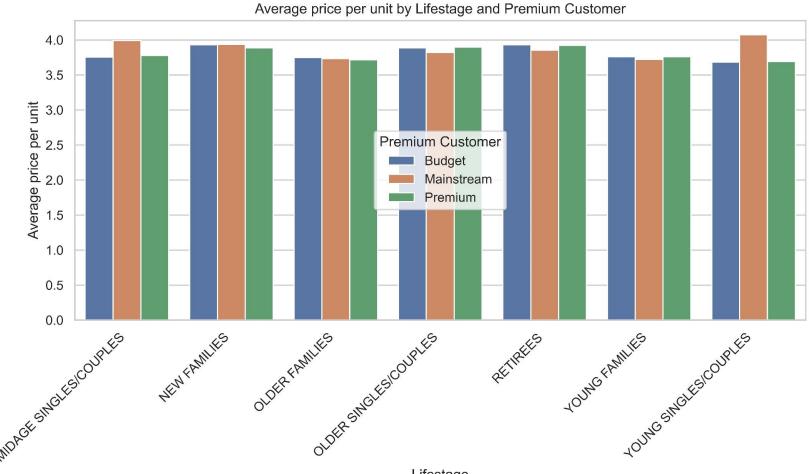
Older families and young families in general buy more chips per customer





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Mainstream midage and young singles and couples are more willing to pay more per packet of chips compared to their budget and premium counterparts. This may be due to premium shoppers being more likely to buy healthy snacks and when they buy chips, this is mainly for entertainment purposes rather than their own consumption. This is also supported by there being fewer premium midage and young singles and couples buying chips compared to their mainstream counterparts.





We can see that:

• Mainstream young singles/couples are 22% more likely to purchase Tyrrells chips compared to the rest of the population

• Mainstream young singles/couples are 56% less likely to purchase Burger Rings compared to the rest

of the population

| | BRAND | PROD_QTY_x | targetSegment | PROD_QTY_y | other | affinityToBrand |
|----|------------|------------|---------------|------------|----------|-----------------|
| 18 | Tyrrells | 1143 | 0.031553 | 11155 | 0.025692 | 1.228095 |
| 17 | Twisties | 1673 | 0.046184 | 16445 | 0.037877 | 1.219319 |
| 5 | Doritos | 4447 | 0.122761 | 43884 | 0.101075 | 1.214553 |
| 9 | Kettle | 7172 | 0.197985 | 71879 | 0.165553 | 1.195897 |
| 16 | Tostitos | 1645 | 0.045411 | 16489 | 0.037978 | 1.195713 |
| 11 | Pringles | 4326 | 0.119420 | 43693 | 0.100635 | 1.186670 |
| 4 | Cobs | 1617 | 0.044638 | 16954 | 0.039049 | 1.143124 |
| 8 | Infuzions | 2343 | 0.064679 | 24776 | 0.057065 | 1.133435 |
| 15 | Thins | 2187 | 0.060373 | 24742 | 0.056986 | 1.059423 |
| 7 | GrnWves | 1185 | 0.032712 | 13541 | 0.031188 | 1.048873 |
| 3 | Cheezels | 651 | 0.017971 | 8096 | 0.018647 | 0.963753 |
| 13 | Smiths | 3491 | 0.096370 | 54091 | 0.124584 | 0.773536 |
| 6 | French | 143 | 0.003948 | 2500 | 0.005758 | 0.685569 |
| 2 | Cheetos | 291 | 0.008033 | 5239 | 0.012067 | 0.665733 |
| 12 | RRD | 1587 | 0.043810 | 29304 | 0.067494 | 0.649091 |
| 10 | Natural | 710 | 0.019600 | 13396 | 0.030854 | 0.635241 |
| 1 | CCs | 405 | 0.011180 | 8204 | 0.018896 | 0.591677 |
| 14 | Sunbites | 230 | 0.006349 | 5462 | 0.012580 | 0.504698 |
| 19 | Woolworths | 873 | 0.024099 | 21460 | 0.049427 | 0.487573 |
| 0 | Burger | 106 | 0.002926 | 2864 | 0.006596 | 0.443597 |



It looks like Mainstream young singles/couples are 26% more likely to purchase a 270g pack of chips compared to the rest of the population but let's dive into what brands sell this

pack size.

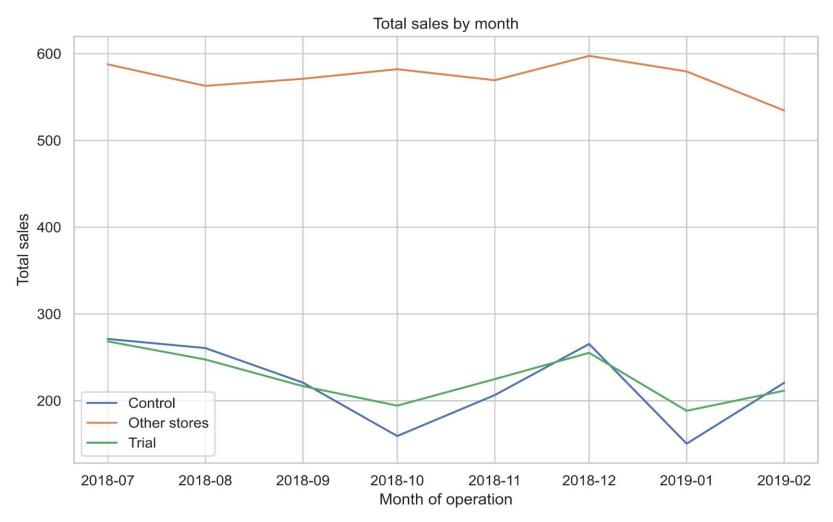
| | PACK_SIZE(g) | PROD_QTY_x | targetSegment | PROD_QTY_y | other | affinityToPack |
|----|--------------|------------|---------------|------------|----------|----------------|
| 0 | 270 | 1153 | 0.031829 | 10896 | 0.025096 | 1.268287 |
| 1 | 380 | 1165 | 0.032160 | 11108 | 0.025584 | 1.257030 |
| 2 | 330 | 2220 | 0.061284 | 21779 | 0.050162 | 1.221717 |
| 3 | 134 | 4326 | 0.119420 | 43693 | 0.100635 | 1.186670 |
| 4 | 110 | 3850 | 0.106280 | 38985 | 0.089791 | 1.183637 |
| 5 | 210 | 1055 | 0.029124 | 10907 | 0.025121 | 1.159318 |
| 6 | 135 | 535 | 0.014769 | 5677 | 0.013075 | 1.129511 |
| 7 | 250 | 520 | 0.014355 | 5549 | 0.012781 | 1.123166 |
| 8 | 170 | 2926 | 0.080773 | 35162 | 0.080986 | 0.997370 |
| 9 | 150 | 5709 | 0.157598 | 70953 | 0.163421 | 0.964372 |
| 10 | 175 | 9237 | 0.254990 | 117230 | 0.270007 | 0.944382 |
| 11 | 165 | 2016 | 0.055652 | 27035 | 0.062268 | 0.893757 |
| 12 | 190 | 271 | 0.007481 | 5402 | 0.012442 | 0.601271 |
| 13 | 180 | 130 | 0.003589 | 2634 | 0.006067 | 0.591538 |
| 14 | 160 | 232 | 0.006404 | 5372 | 0.012373 | 0.517616 |
| 15 | 90 | 230 | 0.006349 | 5462 | 0.012580 | 0.504698 |
| 16 | 125 | 109 | 0.003009 | 2621 | 0.006037 | 0.498442 |
| 17 | 200 | 325 | 0.008972 | 8100 | 0.018656 | 0.480899 |
| 18 | 70 | 110 | 0.003037 | 2745 | 0.006322 | 0.480292 |
| 19 | 220 | 106 | 0.002926 | 2864 | 0.006596 | 0.443597 |



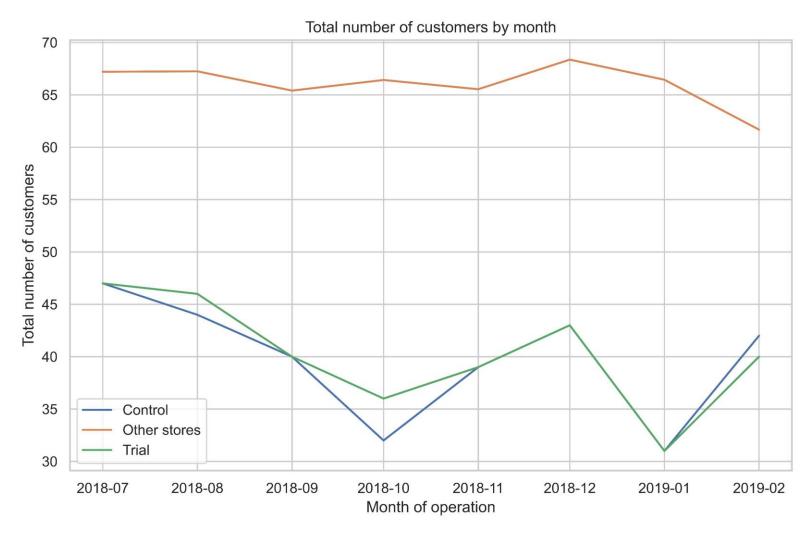
02

Trial store performance



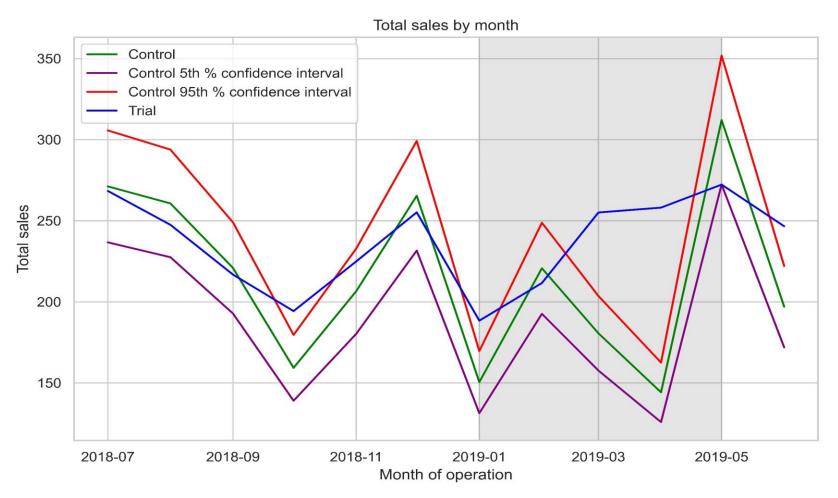




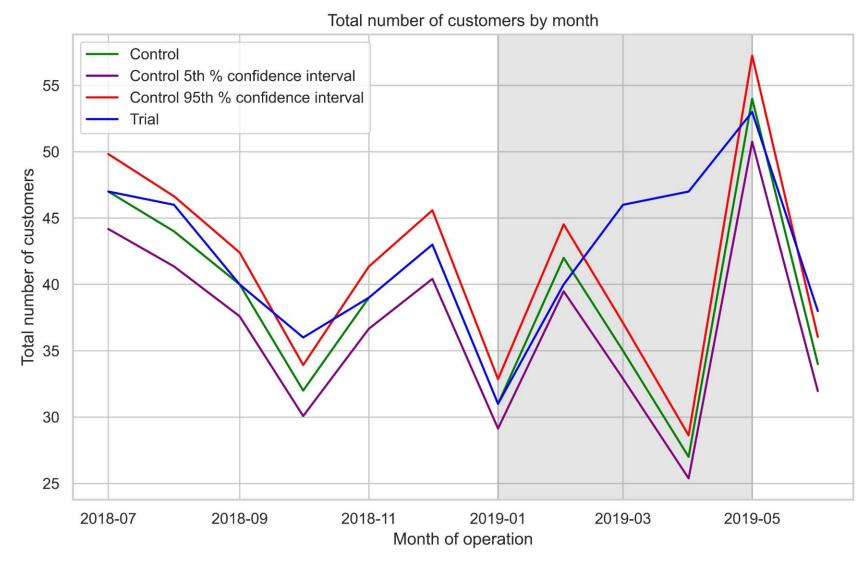




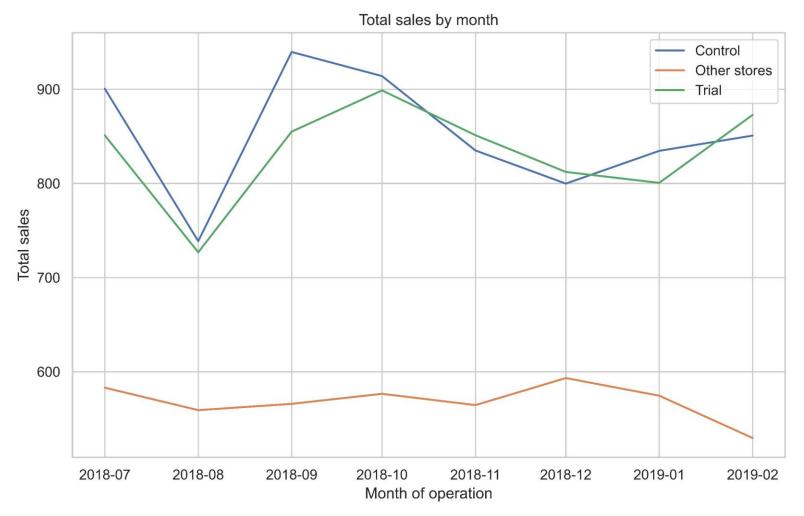
The results show that the trial in store 77 is significantly different to its control store in the trial period as the trial store performance lies outside the 5% to 95% confidence interval of the control store in two of the three trial months.



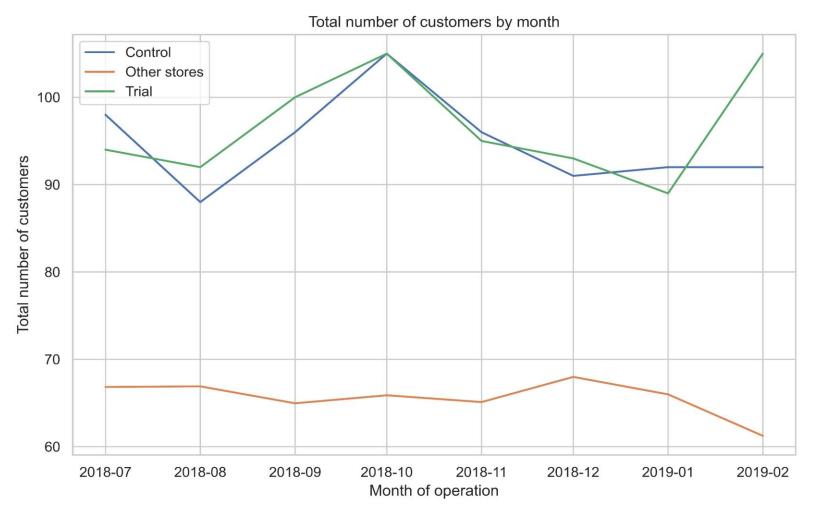






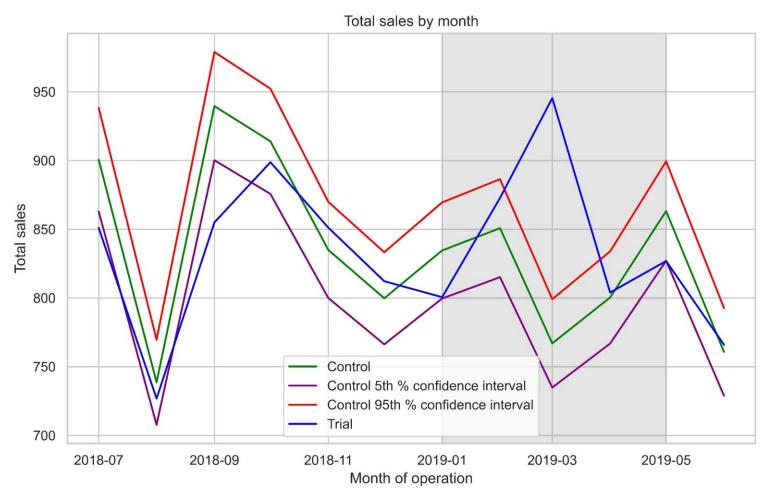






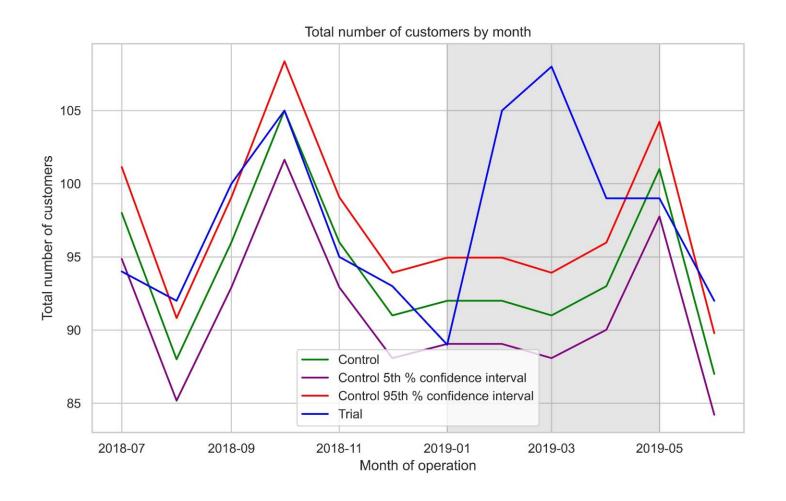


The results show that the trial in store 86 is not significantly different to its control store in the trial period as the trial store performance lies inside the 5% to 95% confidence interval of the control store in two of the three trial months.

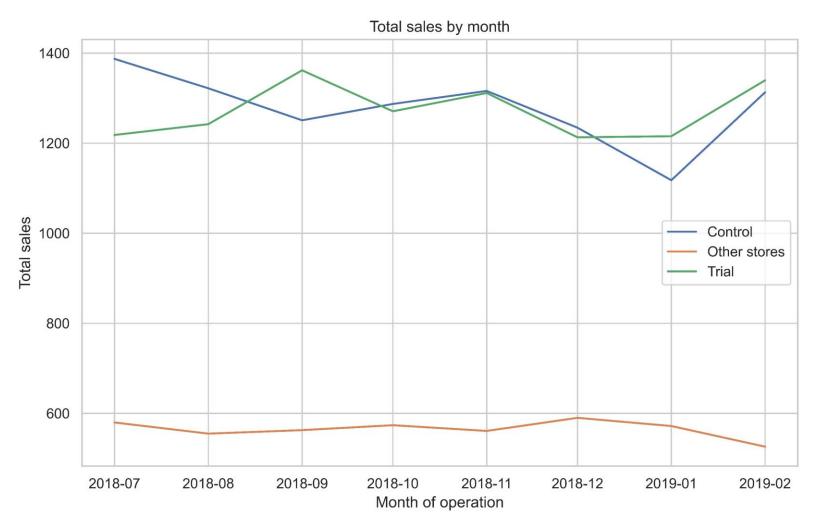




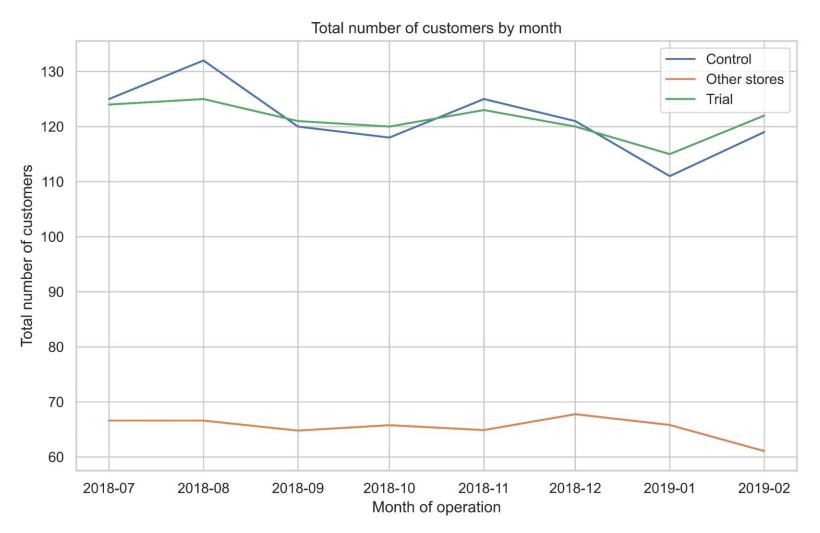
It looks like the number of customers is significantly higher in all of the three months. This seems to suggest that the trial had a significant impact on increasing the number of customers in trial store 86 but as we saw, sales were not significantly higher. We should check with the Category Manager if there were special deals in the trial store that were may have resulted in lower prices, impacting the results.





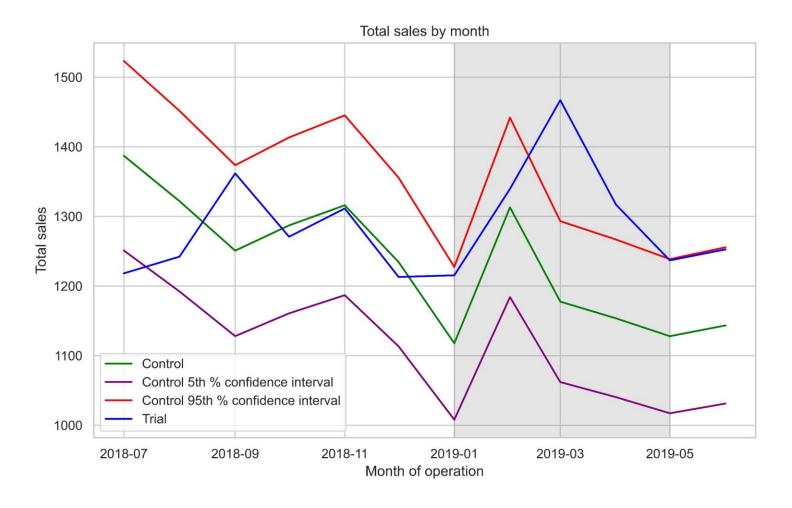






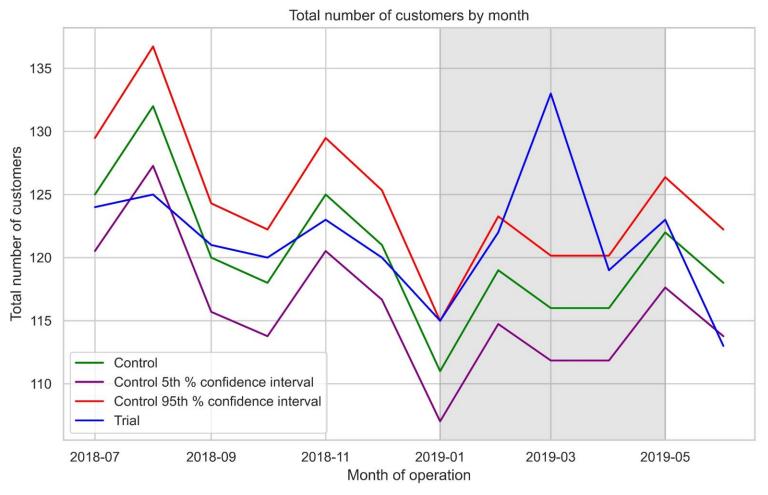


The results show that the trial in store 88 is significantly different to its control store in the trial period as the trial store performance lies outside of the 5% to 95% confidence interval of the control store in two of the three trial months.





Total number of customers in the trial period for the trial store is significantly higher than the control store for two out of three months, which indicates a positive trial effect.





Conclusion:

We've found control stores 233, 155, 237 for trial stores 77, 86 and 88 respectively.

The results for trial stores 77 and 88 during the trial period show a significant difference in at least two of the three trial months but this is not the case for trial store 86. We can check with the client if the implementation of the trial was different in trial store 86 but overall, the trial shows a significant increase in sales.



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