

Market General Report

2024-2025 Seasons

February 02, 2026

Contents

Dependencies	1
Overview	2
Key variables	2
Summary of data	3
Yearly metrics	3
Gross Revenue by Date	5
Weekly Analysis	5
Weekly Gross Sales	6
Weekly Orders (Transactions per week)	7
Weekly Average Sales per Order	8
Weekly Total Discounts	9
Weekly Analysis by Category	10
Weekly Transaction Analysis	10
Miscellaneous Data Features	12
Discounts	12
Refunds	13
Notes	18

Dependencies

- 1.0_Data_Pre_Processing.Rmd
- 1.1_Calendar_Generation.Rmd
- 1.3_Order_Data_Variable_Selection.Rmd

Overview

Key variables

- order = one transaction with one customer
- item_name = singular item, entered multiple times/per order if multiple of one item purchased
- item_price = price for one item
- item_gross_amount = total cost before deductions
- item_total_discount = discount rounded to nearest cent
 - item_disc_amount_from_perc and item_net_discount_amount are not rounded to nearest percent.
- item_net_amount = cost after deductions

Should be case:

$$\text{item_gross_amount} - \text{item_total_discount} = \text{item_net_amount}$$

Not for 897 records.

```
## [1] 897
```

Variables with issues:

- order_net
- order_profit
- order_amount_collected

A bunch of item_name “Manual Transactions” with negative order_amount_collected

Not used/No Data:

- item_cost
- order_tax
- order_tip_amount
- order_tip_amount_refund
- order_service_charge
- order_non_revenue_amount

Used sometimes, but has issues:

- order_item_cost
- order_item_cost_and_tax

Summary of data

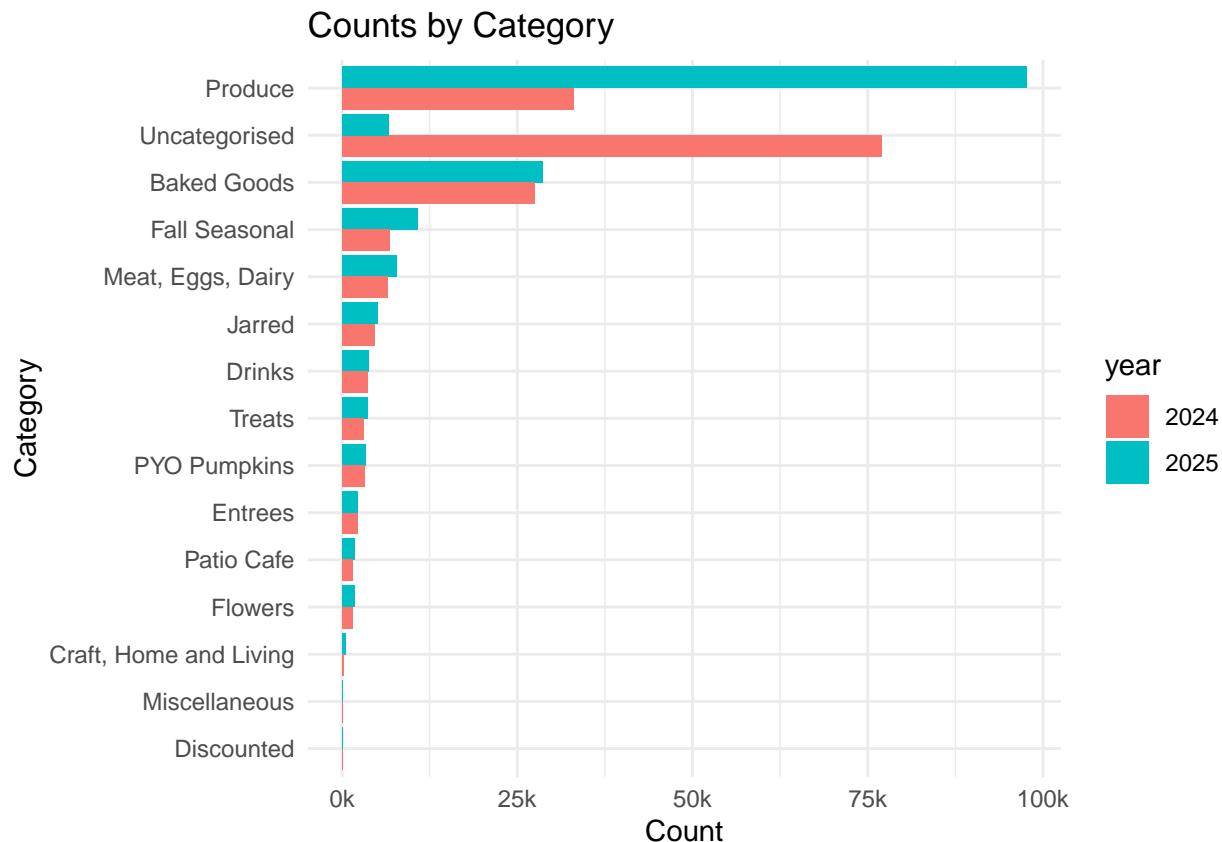
- 344,404 distinct records
- 97,823 unique orders
- average 3.52 items/order

Yearly metrics

```
##                                     2024      2025
## records                  170,730   173,674
## orders                   48,702    49,121
## gross                    1,092,376 1,158,738
## net                      1,086,359 1,150,062
## discounts                 5,915     8,244
## ave_items_per_order      3.506     3.536
## ave_gross_per_order       22.3     23.4
```

Number of Items by Category

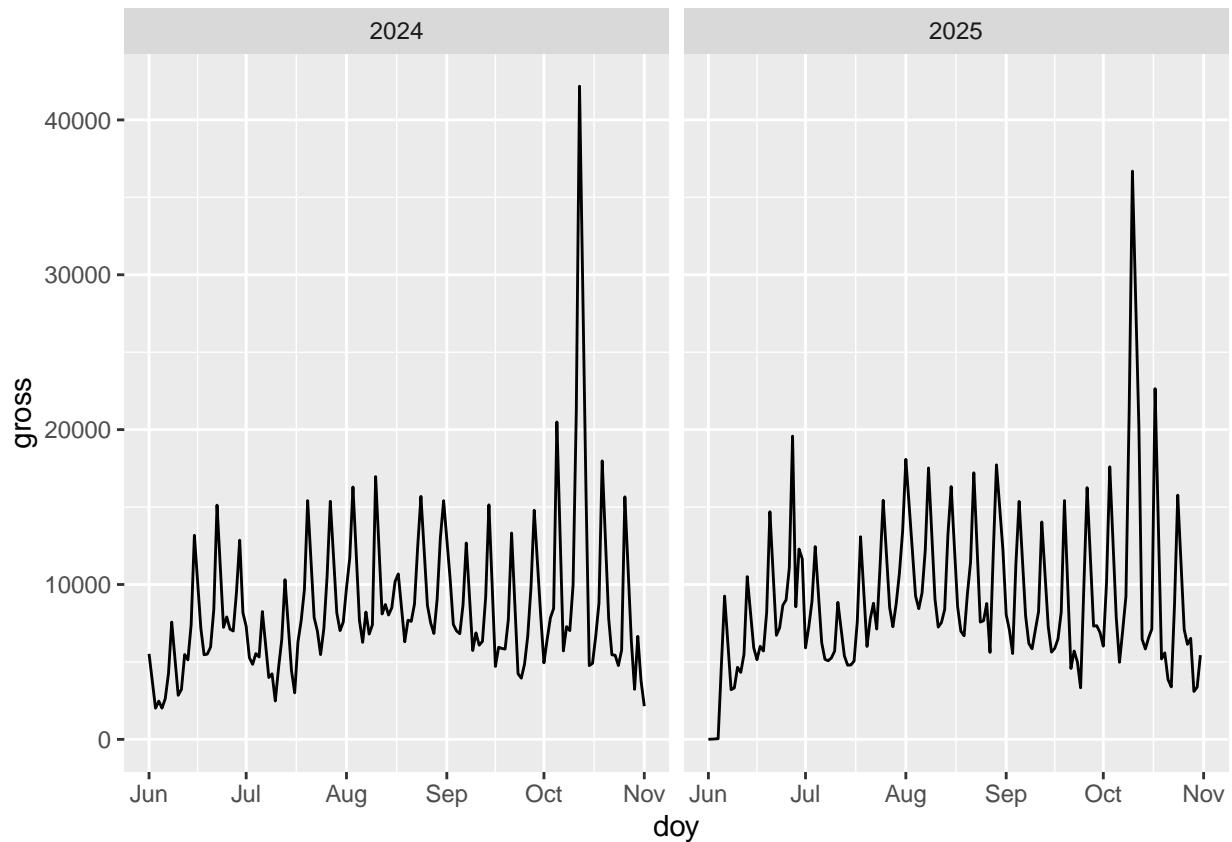
```
## # A tibble: 15 x 4
##   category      `2025` `2024` difference
##   <chr>        <int>  <int>     <int>
## 1 Produce       97668   33031     64637
## 2 Uncategorized  6695    76949    -70254
## 3 Baked Goods   28558   27413      1145
## 4 Fall Seasonal 10770    6795     3975
## 5 Meat, Eggs, Dairy 7774    6465     1309
## 6 Jarred        5106    4659      447
## 7 Drinks         3838    3673      165
## 8 Treats         3586    3002      584
## 9 PYO Pumpkins   3298    3231       67
## 10 Entrees        2217    2227      -10
## 11 Patio Cafe    1841    1547      294
## 12 Flowers        1753    1471      282
## 13 Craft, Home and Living 536     155      381
## 14 Miscellaneous   32     110      -78
## 15 Discounted      2      2       0
```



Observations:

- Marked improvement in categorization to 2025.
- Baked goods seem appropriately categorized

Gross Revenue by Date



Note:

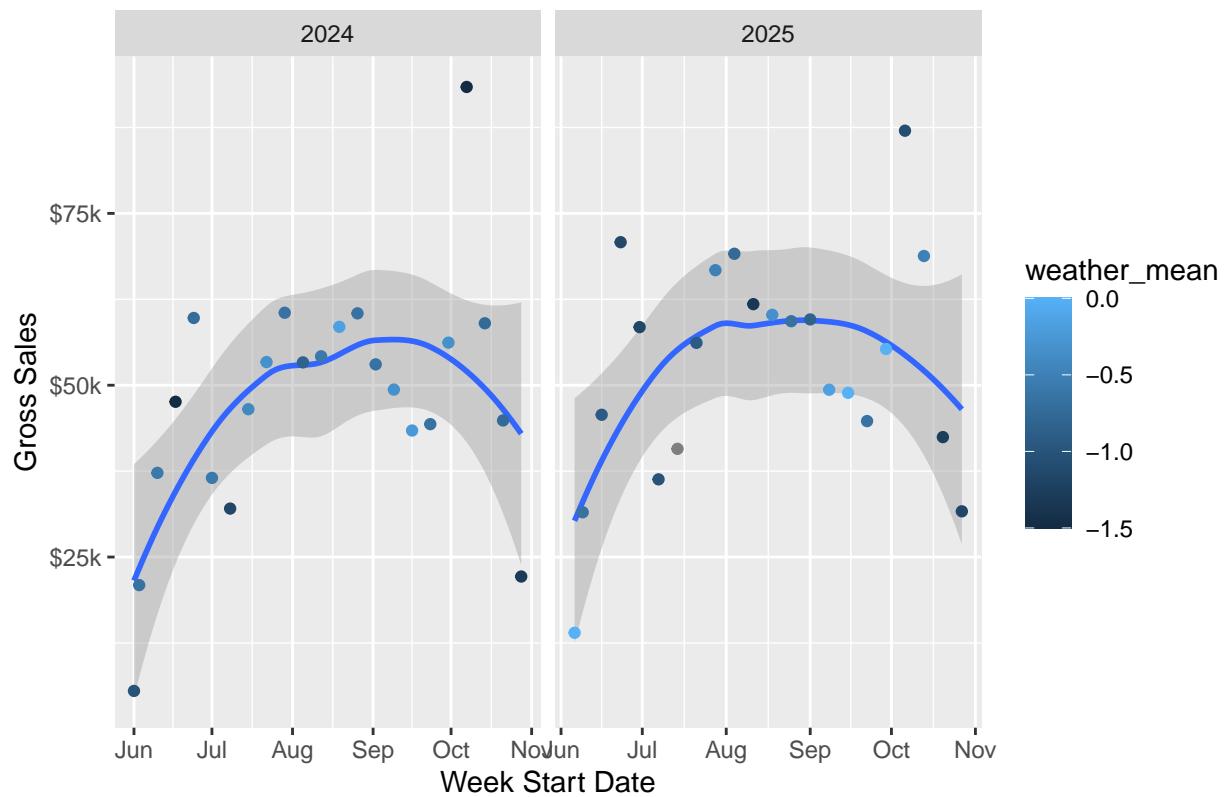
- removing two dates start of 2025 season
 - 2025-06-02 - 2 records
 - 2025-06-05 - 5 records

Weekly Analysis

For studying seasonal effects

Weekly Gross Sales

Gross Sales by Week

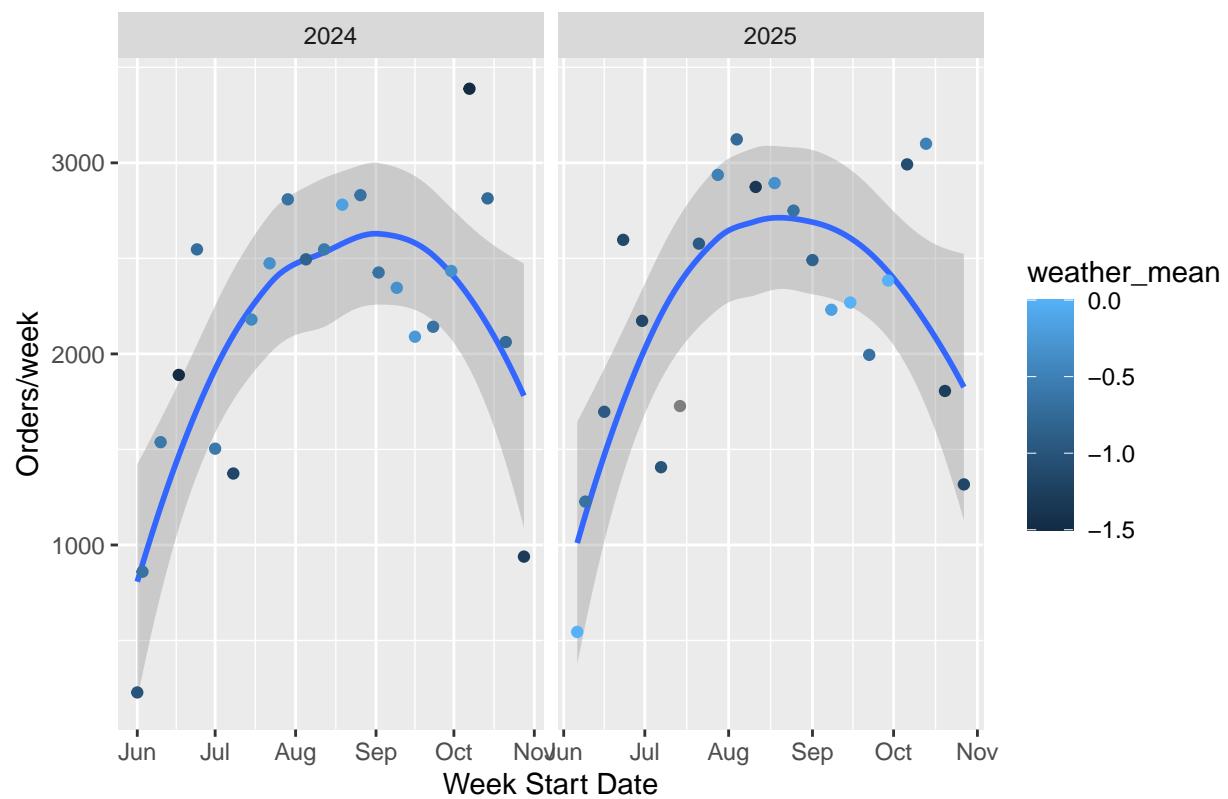


Conclusions:

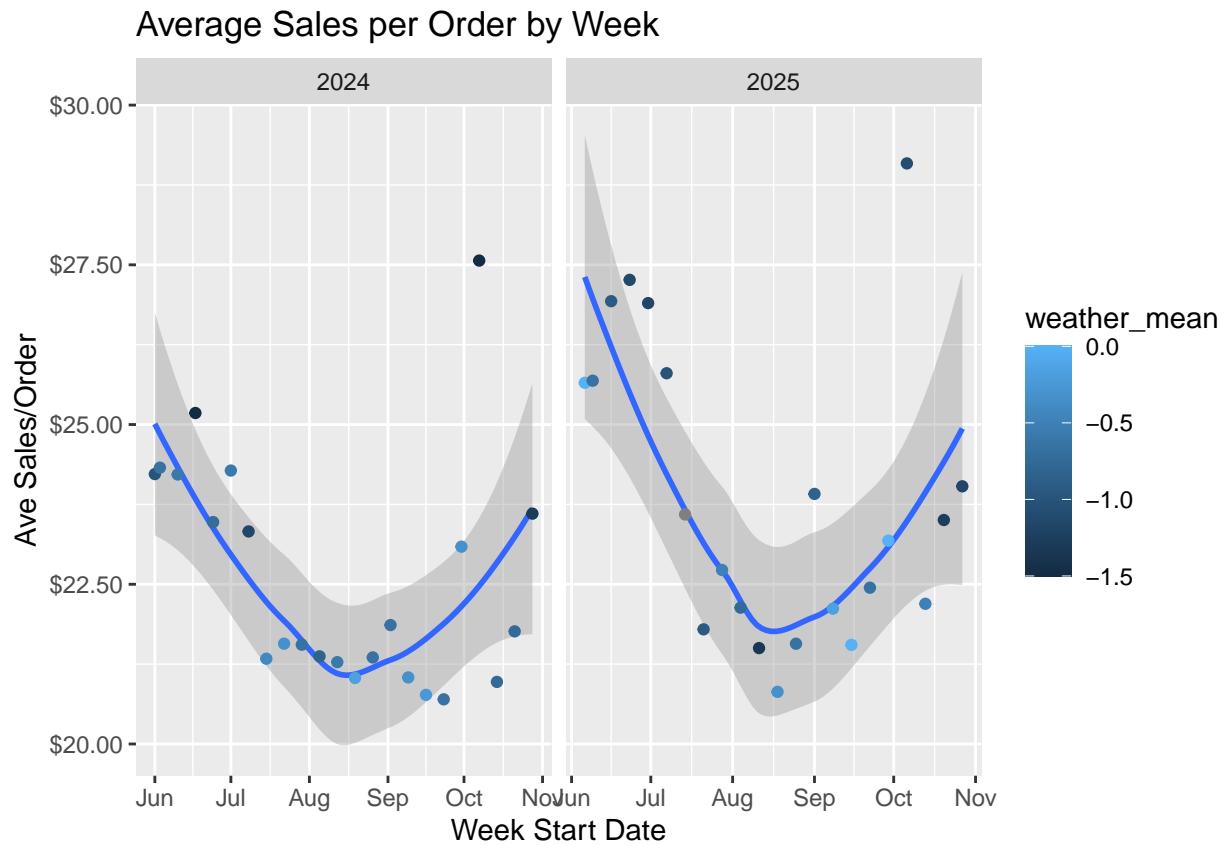
- We have clear indication to use quadratic for modeling week of season effects.
- Bad weather week of Canadian Thanksgiving doesn't appear to impact sales
- In fact, average weather is not great indicator across season

Weekly Orders (Transactions per week)

Number of Orders by Week



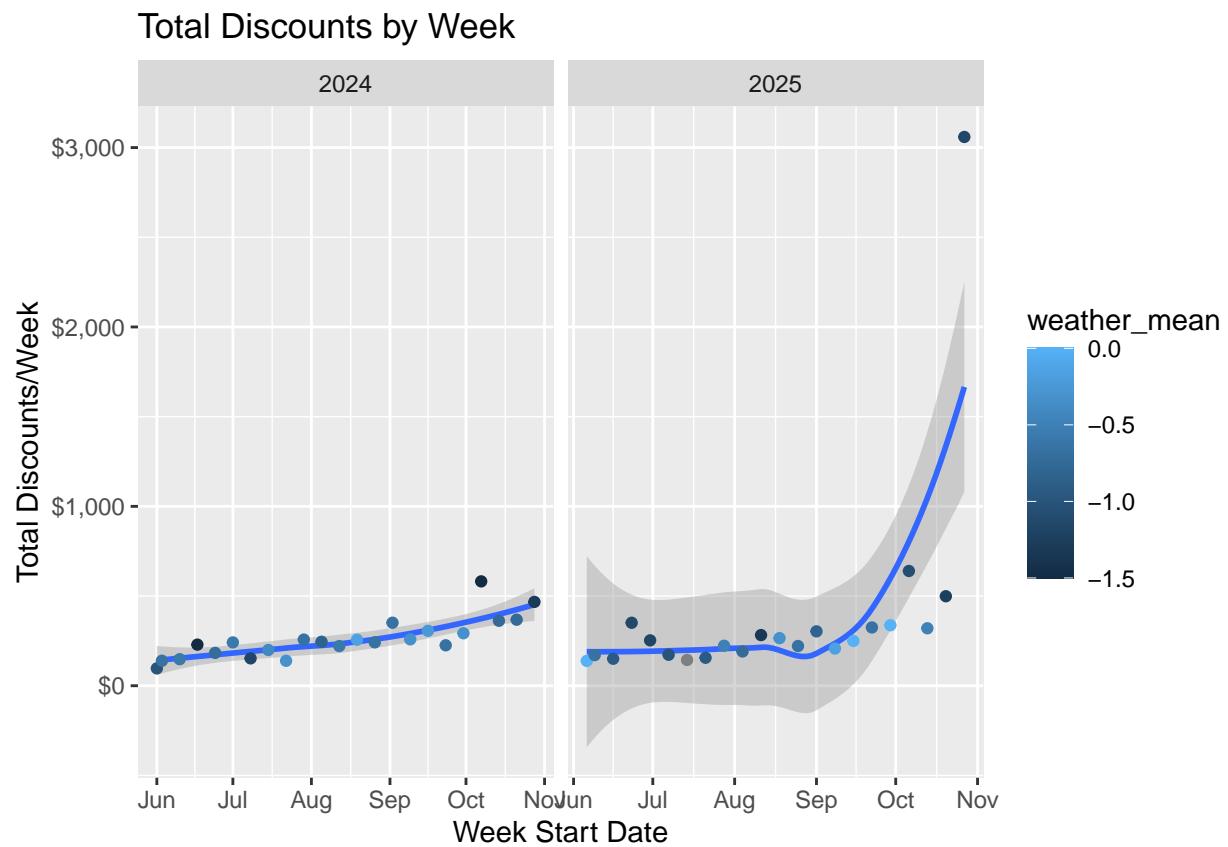
Weekly Average Sales per Order



Notes:

- Higher traffic mid season, lower average orders
 - due to produce sales?
 - other factors
- Strategies to increase size of orders mid-season
 - study small/single item orders
 - market analysis for items that complementary reason for those visits
- I imagine loyal customers are more consistent though out the season
 - ways to track individual customers - large number number use electronic payment
 - use that data to study what promotes customer loyalty

Weekly Total Discounts

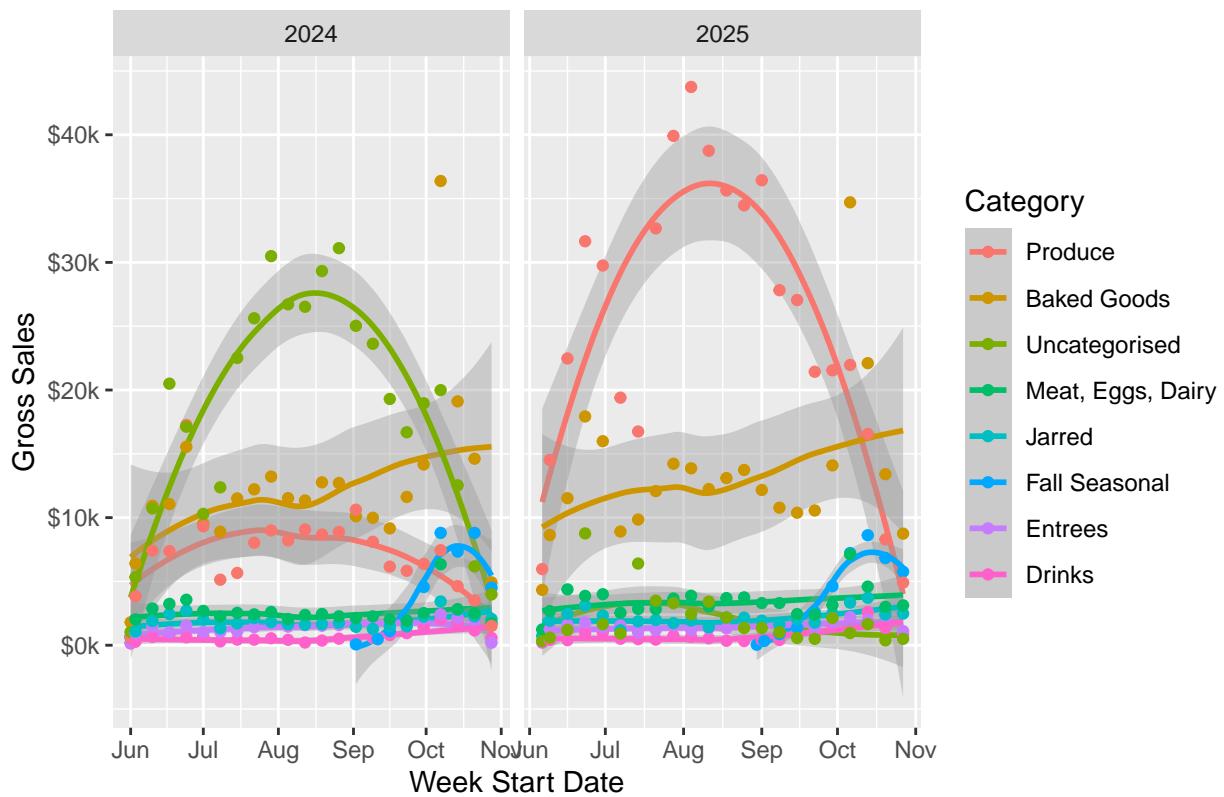


Questions:

- Impact analysis of higher discounting at end of 2025 seasons

Weekly Analysis by Category

Gross Sales by Category and Week (Top 8 Categories)



Recommendation:

- Categorize the items that dominate around Canadian Thanksgiving... Pies??

Weekly Transaction Analysis

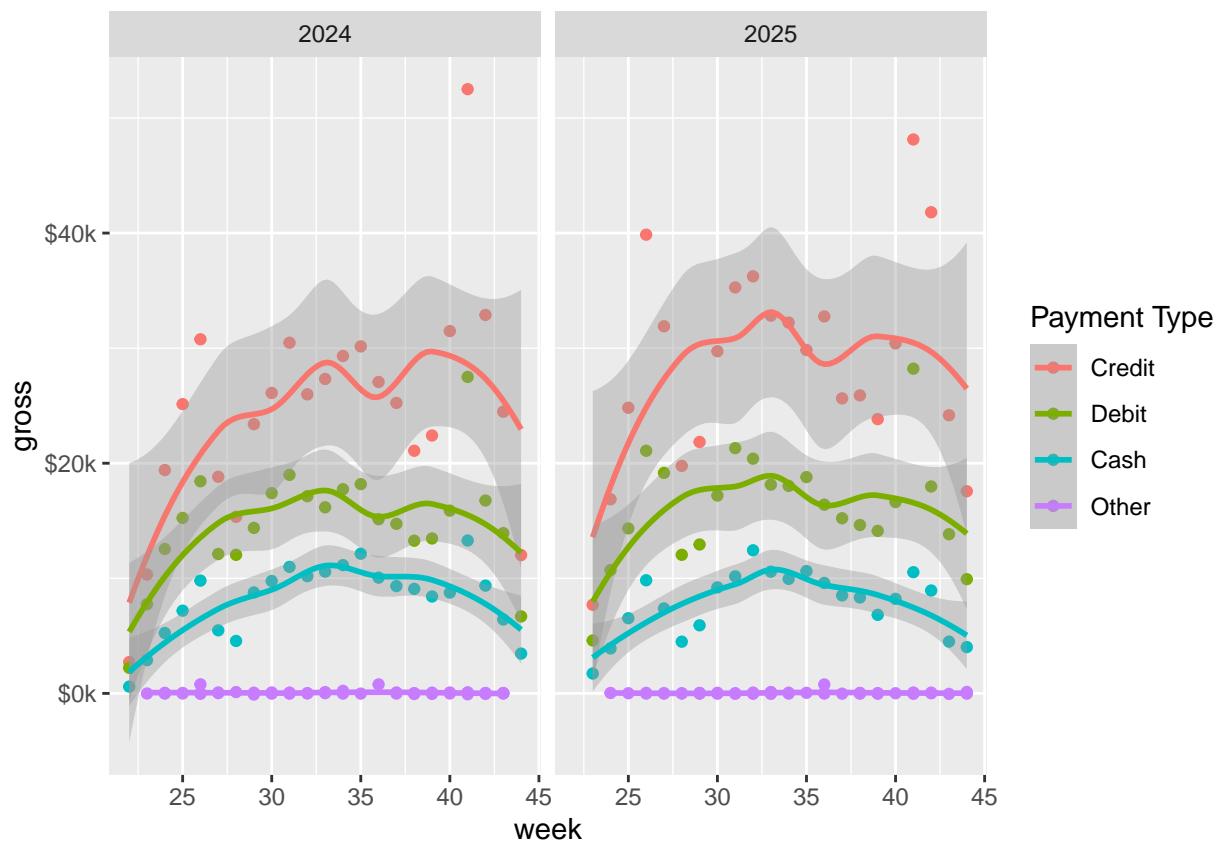
Payment type - just a curiosity at this point.

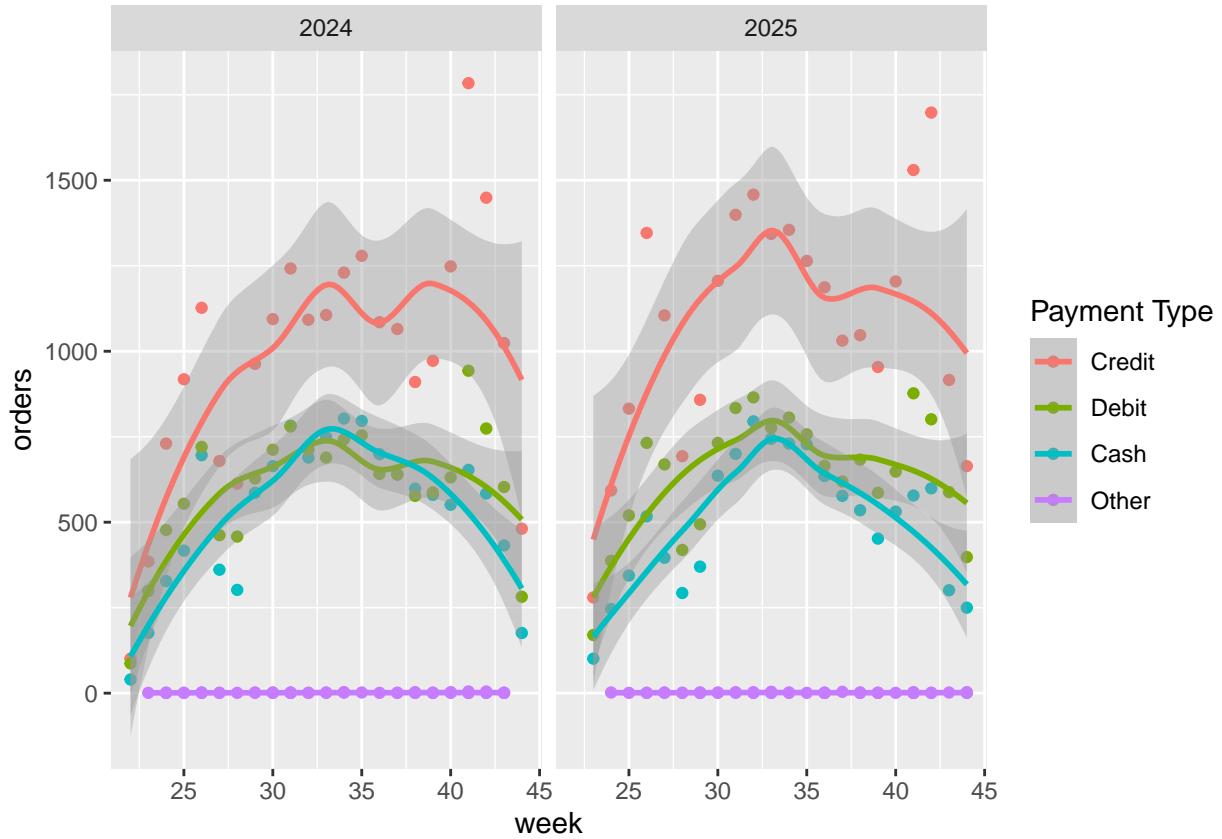
##	payment_type	n
## 1	Credit Card	175939
## 2	Debit Card	107285
## 3	Cash	60697
## 4	Cash, Debit Card	168
## 5	Cash, Credit Card	128
## 6	<NA>	67
## 7	Debit Card, Debit Card	23
## 8	Credit Card, Credit Card	22
## 9	Debit Card, Cash	22
## 10	Cash, Cash	17
## 11	Cash, Cash, Credit Card	16

```

## 12          Credit Card, Cash      14
## 13          Debit Card, Credit Card 5
## 14 Cash, Cash, Cash, Cash, Debit Card 1

```





Miscellaneous Data Features

Discounts

```
##          order_discount_names      n
## 1                  <NA> 333936
## 2             Staff Discount    5549
## 3            End of Season    3761
## 4              10% Off       637
## 5              20% Off       136
## 6              25% Off        67
## 7 Milk Jar Deposit       61
## 8           $3.00 Off        30
## 9 $70.00 Off, 10% Off      21
## 10            15% Off       21
## 11 End of Season, Staff Discount   15
## 12            50% Off       13
## 13           $26.50 Off      11
## 14           $19.50 Off      10
## 15           $20.00 Off      10
## 16 End of Season, $9.25 Off      10
```

## 17	End of Season, End of Season	9
## 18	\$11.75 Off	8
## 19	Staff Discount, End of Season	8
## 20	Milk Jar Deposit, Staff Discount	7
## 21	\$4.00 Off	6
## 22	Milk Jar Deposit, Milk Jar Deposit	6
## 23	Milk Jar Deposit, Milk Jar Deposit, Milk Jar Deposit	6
## 24	Staff Discount, Staff Discount	6
## 25	\$1.00 Off	5
## 26	\$12.40 Off	5
## 27	\$15.55 Off	5
## 28	CA\$16.95 Off	5
## 29	End of Season, \$20.00 Off	5
## 30	\$0.10 Off	4
## 31	\$1.00 Off, End of Season	4
## 32	\$31.50 Off	4
## 33	\$6.00 Off	4
## 34	\$10.00 Off	3
## 35	\$0.45 Off	2
## 36	\$12.95 Off	2
## 37	40% Off	2
## 38	Staff Discount, \$0.60 Off	2
## 39	\$2.00 Off	1
## 40	\$2.50 Off	1
## 41	\$3.00 Off, Staff Discount	1
## 42	\$30.00 Off	1
## 43	\$5.00 Off	1
## 44	30% Off	1
## 45	Staff Discount, \$0.02 Off	1
## 46	Staff Discount, Milk Jar Deposit	1

Refunds

11 total refunds:

- Are these returns? Below are the records of refunded orders
- Omit from analysis?

##	merchant_name	trx_type	device_name	order	order_type
## 1	Reesors Farm Market	ORDER	C055UQ33030536	2VTES70QABNOJ	NA
## 2	Reesors Farm Market	ORDER	C055UQ33030536	2VTES70QABNOJ	NA
## 3	Reesors Farm Market	ORDER	C055UQ33030536	2VTES70QABNOJ	NA
## 4	Reesors Farm Market	ORDER	C055UQ33030536	46CMFWPN6EFWE	NA
## 5	Reesors Farm Market	ORDER	Lane 1	BDNYE4QFJBC52	NA
## 6	Reesors Farm Market	ORDER	Lane 1	BDNYE4QFJBC52	NA
## 7	Reesors Farm Market	ORDER	C055UQ33030536	7ADSS433R2KS6	NA
## 8	Reesors Farm Market	ORDER	C055UQ33030536	7ADSS433R2KS6	NA

```

## 9 Reesors Farm Market ORDER C055UQ33030536 7ADSS433R2KS6 NA
## 10 Reesors Farm Market ORDER Lane 1 60N014Q8HPJXG NA
## 11 Reesors Farm Market ORDER Lane 1 60N014Q8HPJXG NA
##   order_note      date original_date      day week    hour
## 1 <NA> 2024-06-05 2024-06-05 Wednesday 23 09 (9AM)
## 2 <NA> 2024-06-05 2024-06-05 Wednesday 23 09 (9AM)
## 3 <NA> 2024-06-05 2024-06-05 Wednesday 23 09 (9AM)
## 4 <NA> 2024-06-21 2024-06-21 Friday   25 10 (10AM)
## 5 <NA> 2024-08-19 2024-08-19 Monday   34 13 (1PM)
## 6 <NA> 2024-08-19 2024-08-19 Monday   34 13 (1PM)
## 7 <NA> 2025-06-12 2025-06-12 Thursday 24 16 (4PM)
## 8 <NA> 2025-06-12 2025-06-12 Thursday 24 16 (4PM)
## 9 <NA> 2025-06-12 2025-06-12 Thursday 24 16 (4PM)
## 10 <NA> 2025-10-22 2025-10-22 Wednesday 43 14 (2PM)
## 11 <NA> 2025-10-22 2025-10-22 Wednesday 43 14 (2PM)
##       daypart      time employee payment_type payment_date
## 1 Part 2 (08:00-10:00) 9H 17M OS Nancy Watson Cash 2024-06-05
## 2 Part 2 (08:00-10:00) 9H 17M OS Nancy Watson Cash 2024-06-05
## 3 Part 2 (08:00-10:00) 9H 17M OS Nancy Watson Cash 2024-06-05
## 4 Part 3 (10:00-14:00) 10H 40M OS <NA> Cash 2024-06-21
## 5 Part 3 (10:00-14:00) 13H 4M OS <NA> Credit Card 2024-08-19
## 6 Part 3 (10:00-14:00) 13H 4M OS <NA> Credit Card 2024-08-19
## 7 Part 5 (16:00-19:00) 16H 21M OS Sara Alcorn Cash 2025-06-12
## 8 Part 5 (16:00-19:00) 16H 21M OS Sara Alcorn Cash 2025-06-12
## 9 Part 5 (16:00-19:00) 16H 21M OS Sara Alcorn Cash 2025-06-12
## 10 Part 4 (14:00-16:00) 14H 21M OS Kym Clements Cash 2025-10-22
## 11 Part 4 (14:00-16:00) 14H 21M OS Kym Clements Cash 2025-10-22
##   payment_time card_type order_amount order_payment order_payment_with_tips
## 1 09:18 <NA> 35.65 35.65 35.65
## 2 09:18 <NA> 35.65 35.65 35.65
## 3 09:18 <NA> 35.65 35.65 35.65
## 4 10:40 <NA> 6.50 6.50 6.50
## 5 13:04 MC 12.25 12.25 12.25
## 6 13:04 MC 12.25 12.25 12.25
## 7 16:21 <NA> 6.00 6.00 6.00
## 8 16:21 <NA> 6.00 6.00 6.00
## 9 16:21 <NA> 6.00 6.00 6.00
## 10 14:22 <NA> 4.64 4.64 4.64
## 11 14:22 <NA> 4.64 4.64 4.64
##   order_payment_refund_amount order_payment_gross_tax order_payment_tax
## 1 35.65 0 0
## 2 35.65 0 0
## 3 35.65 0 0
## 4 6.50 0 0
## 5 12.25 0 0
## 6 12.25 0 0
## 7 6.00 0 0
## 8 6.00 0 0

```

```

## 9          6.00          0          0
## 10         4.64          0          0
## 11         4.64          0          0
##   order_payment_minus_refunds order_no_of_items order_no_of_refunded_items
## 1             0            3.00          3
## 2             0            3.00          3
## 3             0            3.00          3
## 4             0            1.00          1
## 5             0            2.00          2
## 6             0            2.00          2
## 7             0            3.00          3
## 8             0            3.00          3
## 9             0            3.00          3
## 10            0            1.03          2
## 11            0            1.03          2
##   order_gross order_refund order_total_refund order_total_discount
## 1      35.65     35.65       35.65          0
## 2      35.65     35.65       35.65          0
## 3      35.65     35.65       35.65          0
## 4      6.50      6.50        6.50          0
## 5     12.25     12.25       12.25          0
## 6     12.25     12.25       12.25          0
## 7      6.00      6.00        6.00          0
## 8      6.00      6.00        6.00          0
## 9      6.00      6.00        6.00          0
## 10     4.64      4.64        4.64          0
## 11     4.64      4.64        4.64          0
##   order_discount_names order_discount_percent order_discount_amount order_net
## 1           <NA>                 0          0          0
## 2           <NA>                 0          0          0
## 3           <NA>                 0          0          0
## 4           <NA>                 0          0          0
## 5           <NA>                 0          0          0
## 6           <NA>                 0          0          0
## 7           <NA>                 0          0          0
## 8           <NA>                 0          0          0
## 9           <NA>                 0          0          0
## 10          <NA>                 0          0          0
## 11          <NA>                 0          0          0
##   order_tax order_item_cost order_cost_and_tax order_profit
## 1          0            0            0            0
## 2          0            0            0            0
## 3          0            0            0            0
## 4          0            0            0            0
## 5          0            0            0            0
## 6          0            0            0            0
## 7          0            0            0            0
## 8          0            0            0            0

```

```

## 9      0      0      0      0
## 10     0      0      0      0
## 11     0      0      0      0
##   order_amount_collected tax_removed is_vat pay_type manual_transaction
## 1           0      FALSE  FALSE    FULL    FALSE
## 2           0      FALSE  FALSE    FULL    FALSE
## 3           0      FALSE  FALSE    FULL    FALSE
## 4           0      FALSE  FALSE    FULL    FALSE
## 5           0      FALSE  FALSE    FULL    FALSE
## 6           0      FALSE  FALSE    FULL    FALSE
## 7           0      FALSE  FALSE    FULL    FALSE
## 8           0      FALSE  FALSE    FULL    FALSE
## 9           0      FALSE  FALSE    FULL    FALSE
## 10          0     FALSE  FALSE    FULL    FALSE
## 11          0     FALSE  FALSE    FULL    FALSE
##             item_id sku           item_name item_code note refunded
## 1  EN0QFFV4G7DK4 NA  Beets, Baskets      NA <NA>  TRUE
## 2  53B2F0VP482SJ NA  Peach Pie 200010714953 <NA>  TRUE
## 3  53B2F0VP482SJ NA  Peach Pie 200010714953 <NA>  TRUE
## 4      <NA> NA  Custom Item      NA <NA>  TRUE
## 5 DZQCB3N7T3STT NA Reesor's Sweet Corn Dozen (13)      NA <NA>  TRUE
## 6 6ED509PQ43VR4 NA  Pecan Butter Tart Treat 308002751 <NA>  TRUE
## 7 VM6P5DXTPTFQ2 NA  Bell Peppers, All Colours      NA <NA>  TRUE
## 8 VM6P5DXTPTFQ2 NA  Bell Peppers, All Colours      NA <NA>  TRUE
## 9 VM6P5DXTPTFQ2 NA  Bell Peppers, All Colours      NA <NA>  TRUE
## 10 FNP8WJ7B5FYW  NA Heirloom Carrots      NA <NA>  TRUE
## 11 8JAE1FRW7FYAJ NA  Green Beans Loose      NA <NA>  TRUE
##   is_revenue exchanged      tag    tag1    tag2    tag3 category
## 1    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled Uncategorised
## 2    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled Uncategorised
## 3    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled Uncategorised
## 4    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled Uncategorised
## 5    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled Uncategorised
## 6    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled      Patio Cafe
## 7    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled      Produce
## 8    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled      Produce
## 9    TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled      Produce
## 10   TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled      Produce
## 11   TRUE    FALSE Unlabeled Unlabeled Unlabeled Unlabeled      Produce
##   category1   category2   category3 modifiers item_price item_cost
## 1 Uncategorised Uncategorised Uncategorised      NA     5.75      0
## 2 Uncategorised Uncategorised Uncategorised      NA    14.95      0
## 3 Uncategorised Uncategorised Uncategorised      NA    14.95      0
## 4 Uncategorised Uncategorised Uncategorised      NA     6.50      0
## 5 Uncategorised Uncategorised Uncategorised      NA     9.50      0
## 6   Baked Goods      Patio Cafe Uncategorised      NA     2.75      0
## 7      Produce Uncategorised Uncategorised      NA     2.00      0
## 8      Produce Uncategorised Uncategorised      NA     2.00      0

```

```

## 9      Produce Uncategorised Uncategorised      NA      2.00      0
## 10     Produce Uncategorised Uncategorised      NA      3.59      0
## 11     Produce Uncategorised Uncategorised      NA      1.05      0
##   item_discount_names item_discount_in_percent item_disc_amount_from_perc
## 1             <NA>                      0                      0
## 2             <NA>                      0                      0
## 3             <NA>                      0                      0
## 4             <NA>                      0                      0
## 5             <NA>                      0                      0
## 6             <NA>                      0                      0
## 7             <NA>                      0                      0
## 8             <NA>                      0                      0
## 9             <NA>                      0                      0
## 10            <NA>                      0                      0
## 11            <NA>                      0                      0
##   item_discount_in_amount item_disc_amount_from_perc_on_order
## 1                  0                      0
## 2                  0                      0
## 3                  0                      0
## 4                  0                      0
## 5                  0                      0
## 6                  0                      0
## 7                  0                      0
## 8                  0                      0
## 9                  0                      0
## 10                 0                      0
## 11                 0                      0
##   item_net_discount_amount item_tax_amount item_gross_amount item_total_refund
## 1                  0                      0                  5.75      5.75
## 2                  0                      0                 14.95     14.95
## 3                  0                      0                 14.95     14.95
## 4                  0                      0                  6.50      6.50
## 5                  0                      0                  9.50      9.50
## 6                  0                      0                  2.75      2.75
## 7                  0                      0                  2.00      2.00
## 8                  0                      0                  2.00      2.00
## 9                  0                      0                  2.00      2.00
## 10                 0                      0                 3.59      3.59
## 11                 0                      0                  1.05      1.05
##   item_total_discount item_net_amount tax_rate tax_rates      tax_name
## 1                  0                      0                  0          0 NO_TAX_APPLIED
## 2                  0                      0                  0          0 NO_TAX_APPLIED
## 3                  0                      0                  0          0 NO_TAX_APPLIED
## 4                  0                      0                  0          0 NO_TAX_APPLIED
## 5                  0                      0                  0          0 NO_TAX_APPLIED
## 6                  0                      0                  0          0 NO_TAX_APPLIED
## 7                  0                      0                  0          0 NO_TAX_APPLIED
## 8                  0                      0                  0          0 NO_TAX_APPLIED

```

```

## 9          0          0          0      0 NO_TAX_APPLIED
## 10         0          0          0      0 NO_TAX_APPLIED
## 11         0          0          0      0 NO_TAX_APPLIED
##           tax_names customer_name customer_id customer_emails
## 1  NO_TAX_APPLIED        NA        NA        NA
## 2  NO_TAX_APPLIED        NA        NA        NA
## 3  NO_TAX_APPLIED        NA        NA        NA
## 4  NO_TAX_APPLIED        NA        NA        NA
## 5  NO_TAX_APPLIED        NA        NA        NA
## 6  NO_TAX_APPLIED        NA        NA        NA
## 7  NO_TAX_APPLIED        NA        NA        NA
## 8  NO_TAX_APPLIED        NA        NA        NA
## 9  NO_TAX_APPLIED        NA        NA        NA
## 10 NO_TAX_APPLIED        NA        NA        NA
## 11 NO_TAX_APPLIED        NA        NA        NA
##           customer_phone_numbers customer_note year
## 1                  NA        NA 2024
## 2                  NA        NA 2024
## 3                  NA        NA 2024
## 4                  NA        NA 2024
## 5                  NA        NA 2024
## 6                  NA        NA 2024
## 7                  NA        NA 2025
## 8                  NA        NA 2025
## 9                  NA        NA 2025
## 10                 NA        NA 2025
## 11                 NA        NA 2025

```

Notes

Here is the notes field. Most from 2024. Assume no useful information here.

```

##           note year n
## 1 Tomato Baskets 2024 5
## 2 Beets 2024 2
## 3 carrots 2024 2
## 4 Delivery 2024 1
## 5 Honest Realtors Deposit 2024 1
## 6 MSH 125 Adult Admission 2024 1
## 7 Soup box 2024 1
## 8 5 box tomatoes 2025 1
## 9 6.95 2025 1

```