

Market General Report

2024-2025 Seasons

February 02, 2026

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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

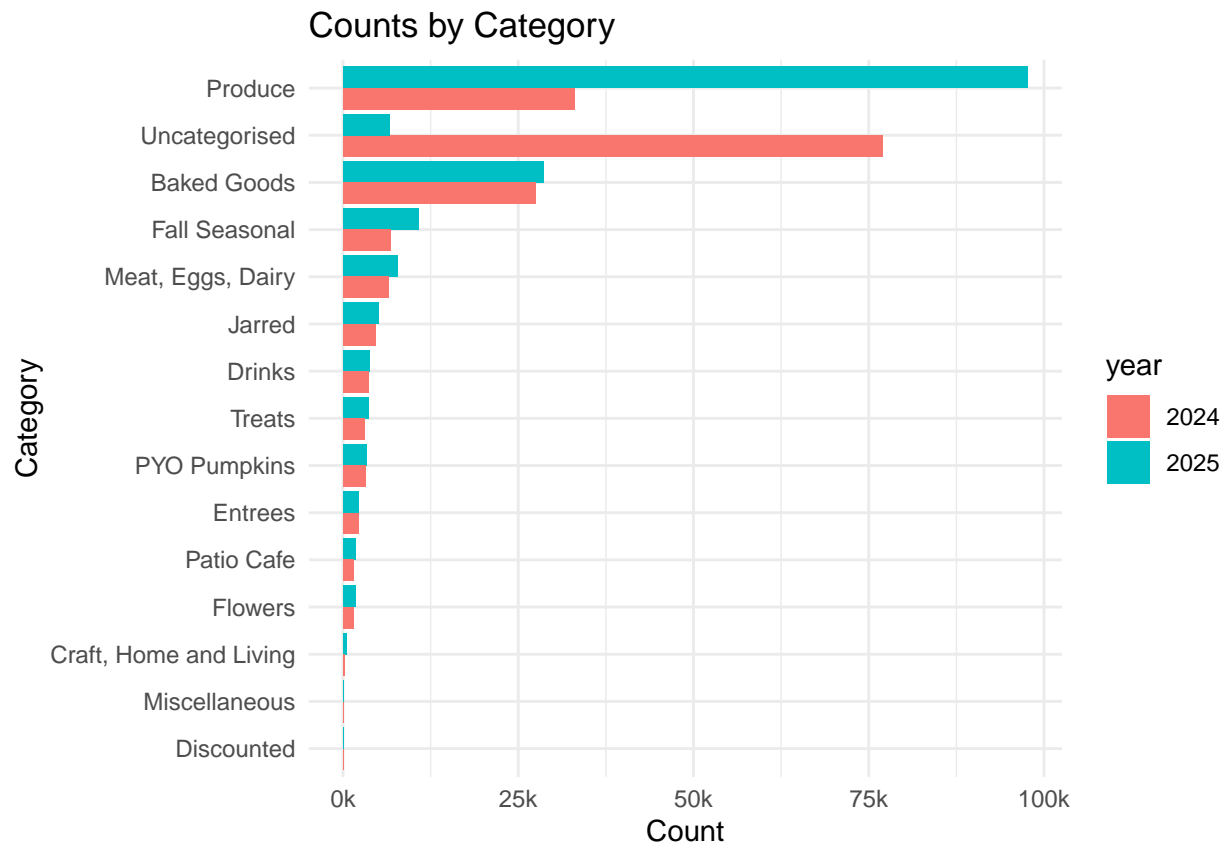
- 344,404 distinct records
- 97,823 unique orders
- average 3.52 items/order

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

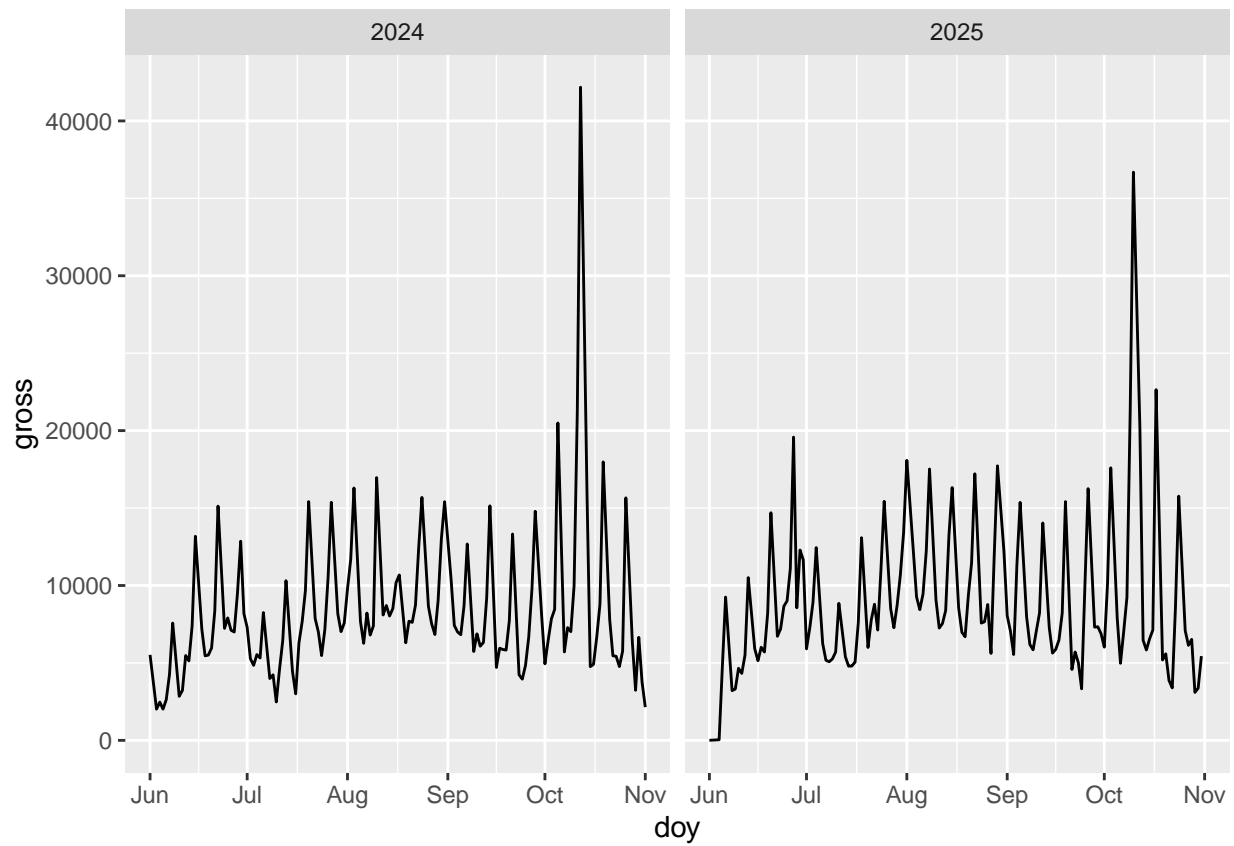
## # A tibble: 15 x 4			
## category	'2025'	'2024'	difference
## <chr>	<int>	<int>	<int>
## 1 Produce	97668	33031	64637
## 2 Uncategorised	6695	76949	-70254
## 3 Baked Goods	28558	27413	1145
## 4 Fall Seasonal	10770	6795	3975
## 5 Meat, Eggs, Dairy	7774	6465	1309
## 6 Jarred	5106	4659	447
## 7 Drinks	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



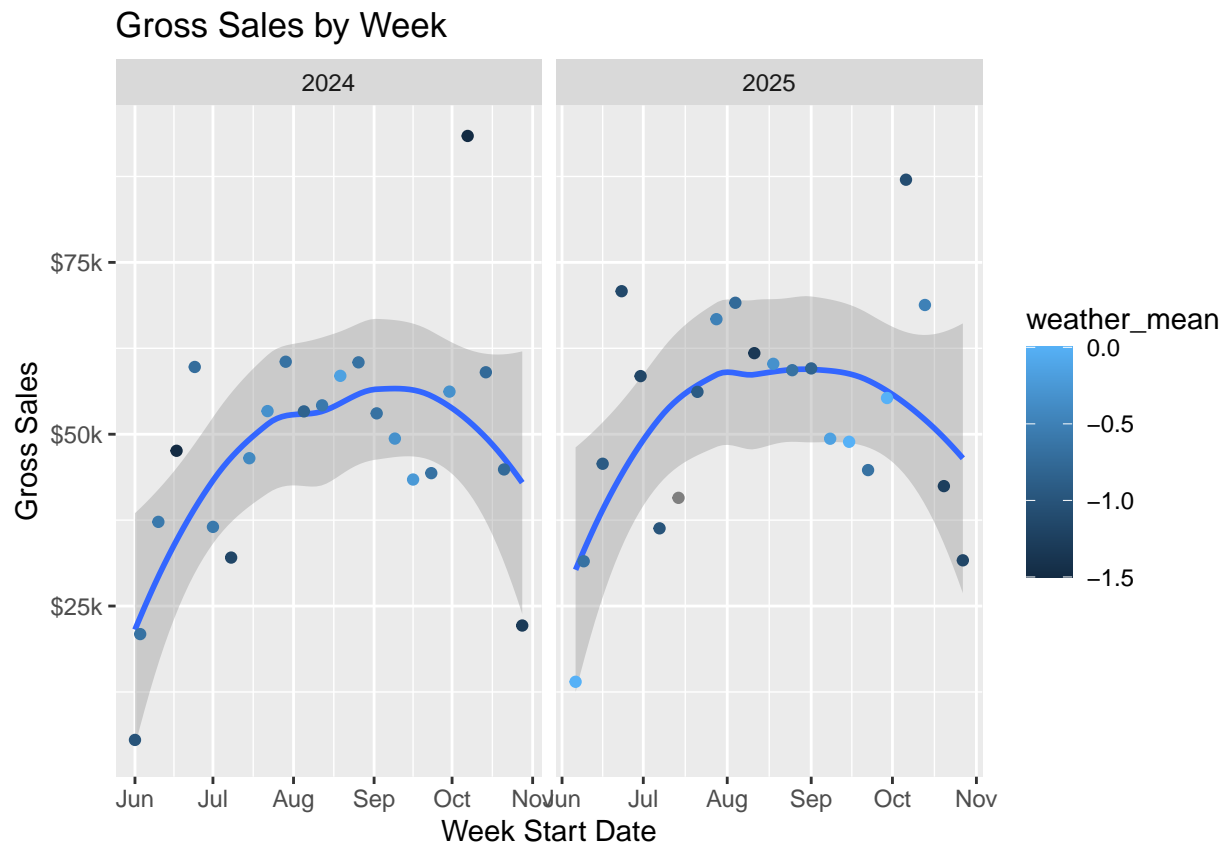
Note:

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

Weekly Analysis

For studying seasonal effects

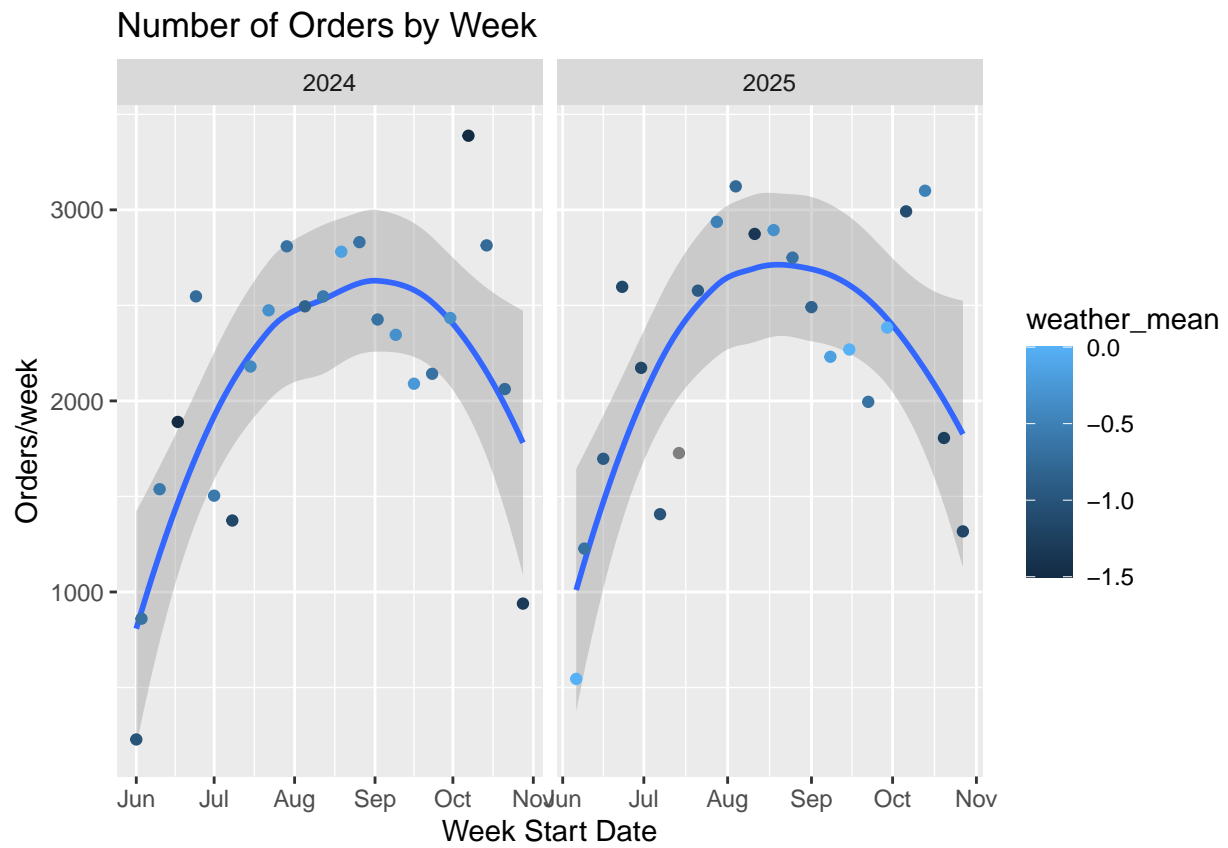
Weekly Gross Sales



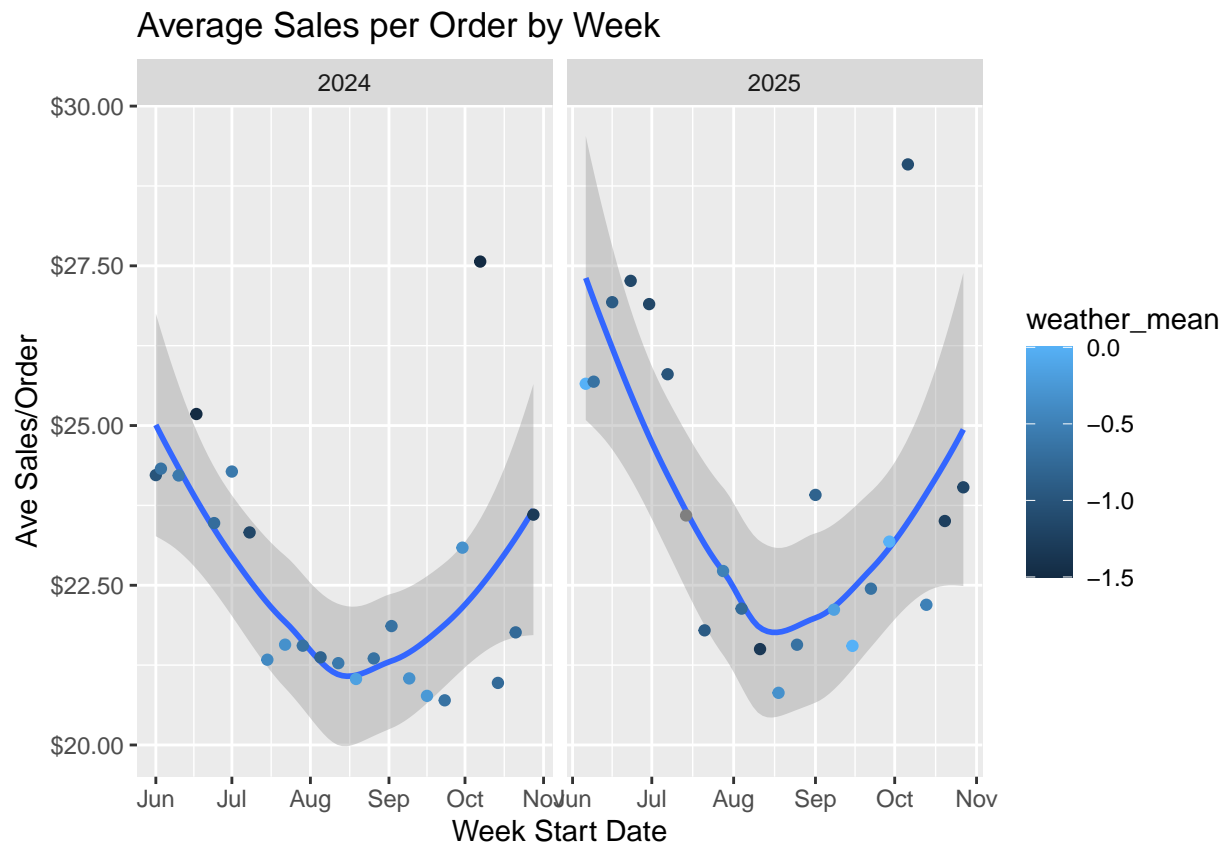
Conclusions:

- 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)



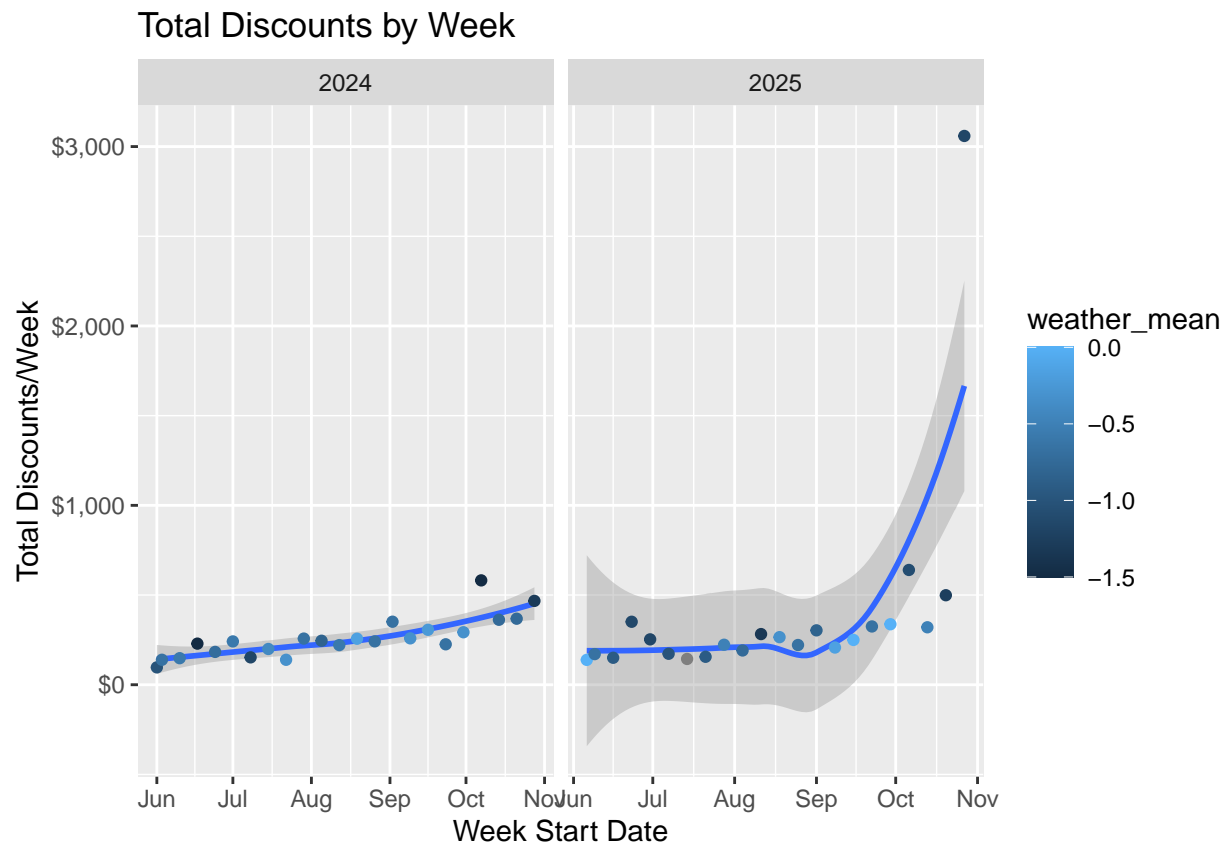
Weekly Average Sales per Order



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

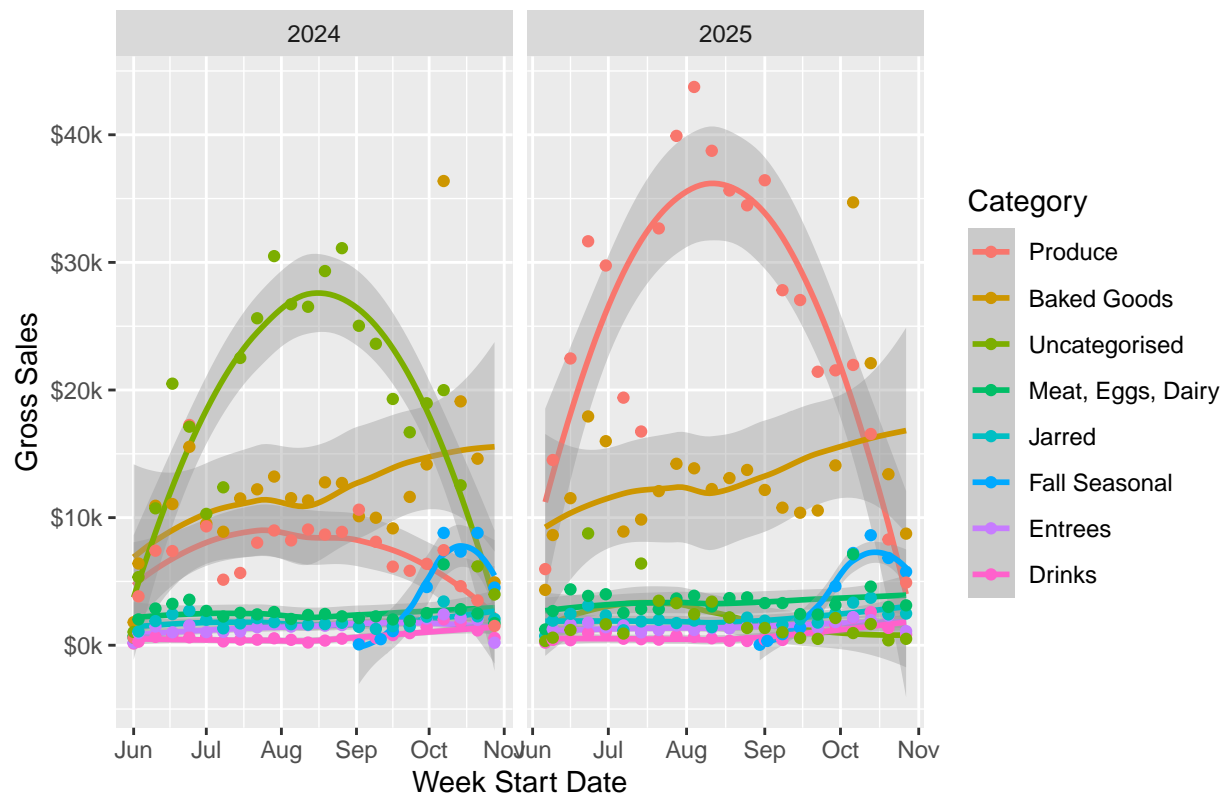


Questions:

- Impact analysis of higher discounting at end of 2025 seasons

Weekly Analysis by Category

Gross Sales by Category and Week (Top 8 Categories)



Recommendation:

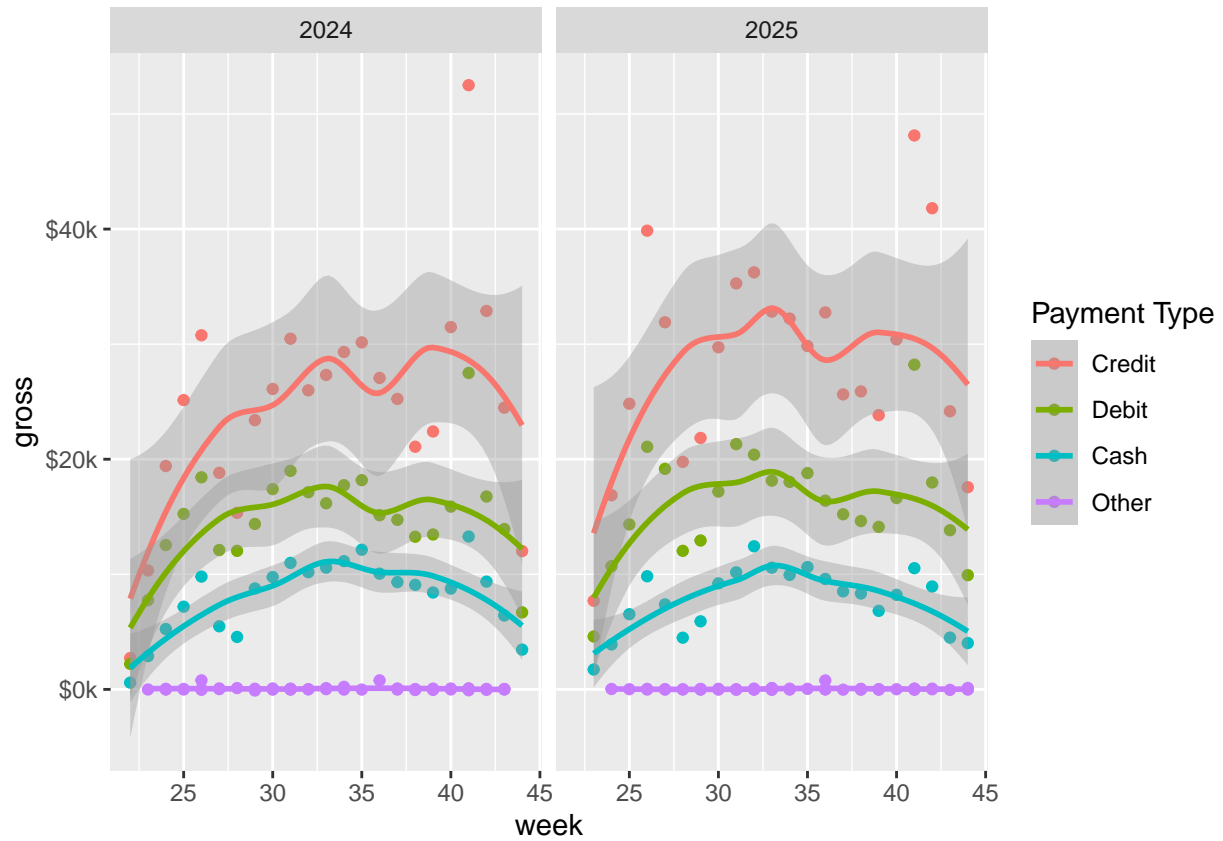
- Categorize the items that dominate around Canadian Thanksgiving... Pies??

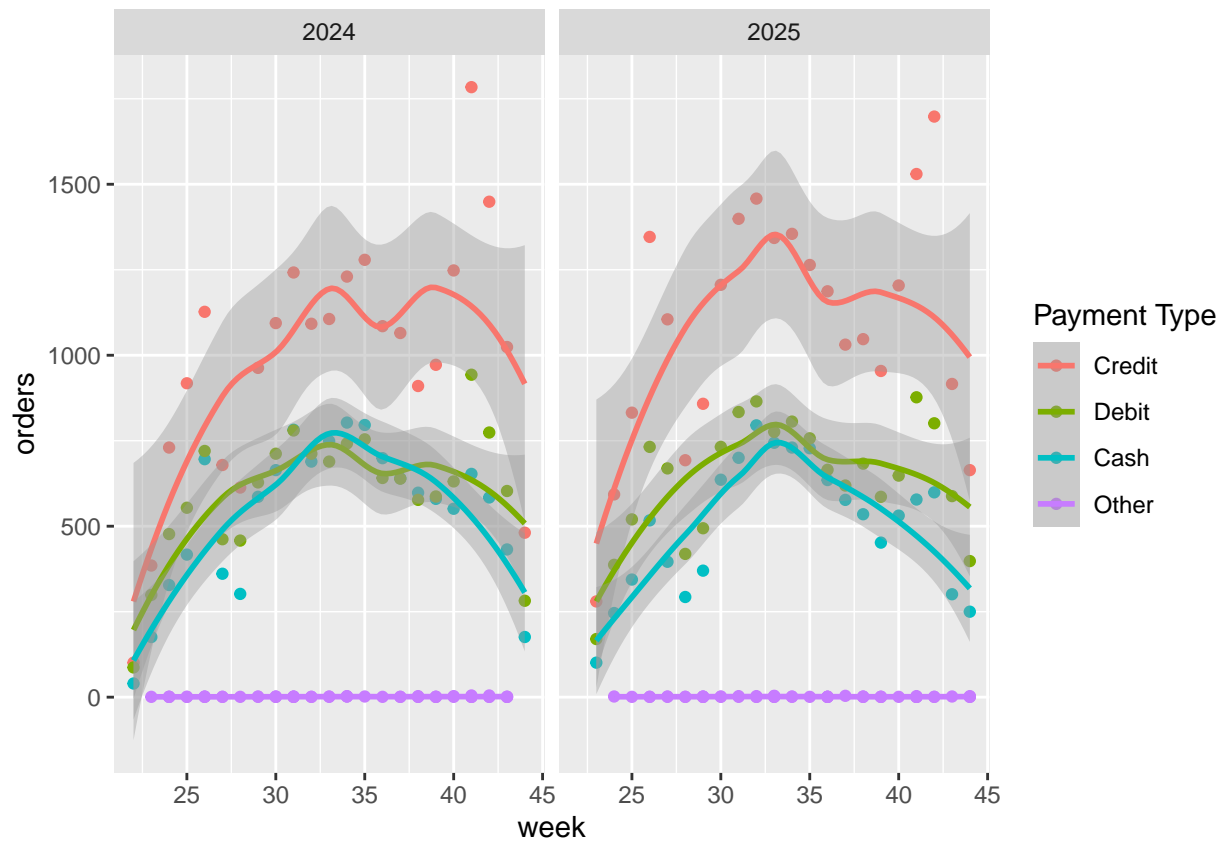
Weekly Transaction Analysis

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 0S	Nancy Watson	Cash	2024-06-05
## 2	Part 2 (08:00-10:00)	9H 17M 0S	Nancy Watson	Cash	2024-06-05
## 3	Part 2 (08:00-10:00)	9H 17M 0S	Nancy Watson	Cash	2024-06-05
## 4	Part 3 (10:00-14:00)	10H 40M 0S	<NA>	Cash	2024-06-21
## 5	Part 3 (10:00-14:00)	13H 4M 0S	<NA>	Credit Card	2024-08-19
## 6	Part 3 (10:00-14:00)	13H 4M 0S	<NA>	Credit Card	2024-08-19
## 7	Part 5 (16:00-19:00)	16H 21M 0S	Sara Alcorn	Cash	2025-06-12
## 8	Part 5 (16:00-19:00)	16H 21M 0S	Sara Alcorn	Cash	2025-06-12
## 9	Part 5 (16:00-19:00)	16H 21M 0S	Sara Alcorn	Cash	2025-06-12
## 10	Part 4 (14:00-16:00)	14H 21M 0S	Kym Clements	Cash	2025-10-22
## 11	Part 4 (14:00-16:00)	14H 21M 0S	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	ENOQFFV4G7DK4	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	FNP8WJ7B5FXYW	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 Uncategorized
## 2	TRUE	FALSE	Unlabeled	Unlabeled	Unlabeled Unlabeled Uncategorized
## 3	TRUE	FALSE	Unlabeled	Unlabeled	Unlabeled Unlabeled Uncategorized
## 4	TRUE	FALSE	Unlabeled	Unlabeled	Unlabeled Unlabeled Uncategorized
## 5	TRUE	FALSE	Unlabeled	Unlabeled	Unlabeled Unlabeled Uncategorized
## 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 Uncategorized	Uncategorised	NA	2.00	0
## 10	Produce Uncategorized	Uncategorised	NA	3.59	0
## 11	Produce Uncategorized	Uncategorised	NA	1.05	0
##	item_discount_names	item_discount_in_percent	itm_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	itm_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