Issue # 7: Numerator Data - Trends and Event Studies 2021-2022

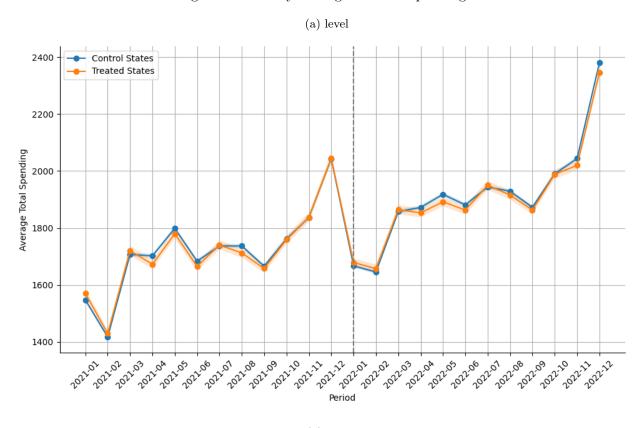
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This Write-up contains tables and plots for trend and event study analyses of the Numerator data. The original user-trip-item level data is transformed to user- month level data, with variables summarized at the monthly level for each user. SNAP and Non-SNAP treatment is determined by SNAP participation rate of each user over the periods of the data (>0.5 on SNAP; <=0.5 Non-SNAP)

- 1. Figures: Monthly average of ...
 - level/log total spending winsorized
 - level/log Food spending winsorized
 - level/log Food on EBT winsorized
 - level/log Soda spending winsorized
 - level/log Soda on EBT winsorized
 - prop. food spending
 - prop. food on EBT
 - prop. soda
 - prop. soda on EBT
 - level/log soda spending by SNAP/Non-SNAP
 - \bullet level/log soda spending by state \times SNAP
- 2. Figures: Event Studies
 - level/log soda spending winsorized
 - level/log soda spending by SNAP × post (conditional on treated states)
 - level/log soda spending DDD
- 3. Tables
 - \bullet TWFE/DDD Model Estimates

Figure 1: Monthly Average of Total Spending



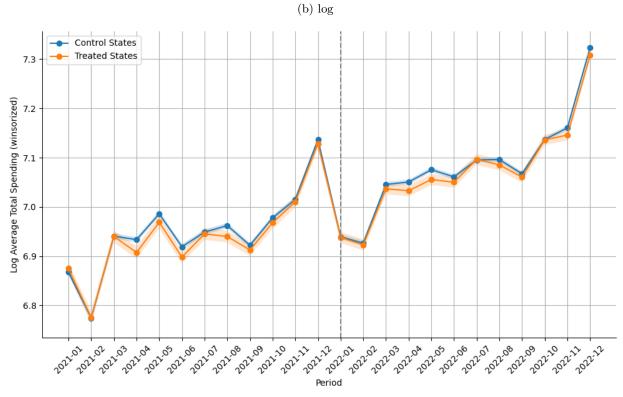
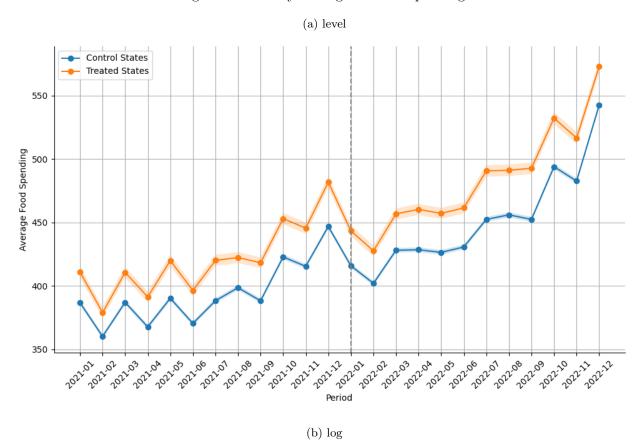


Figure 2: Monthly Average of Food Spending



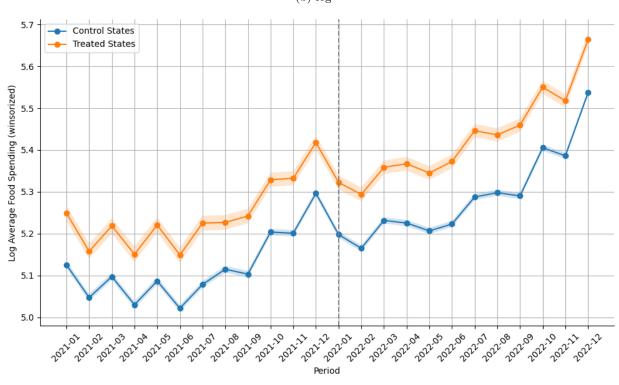
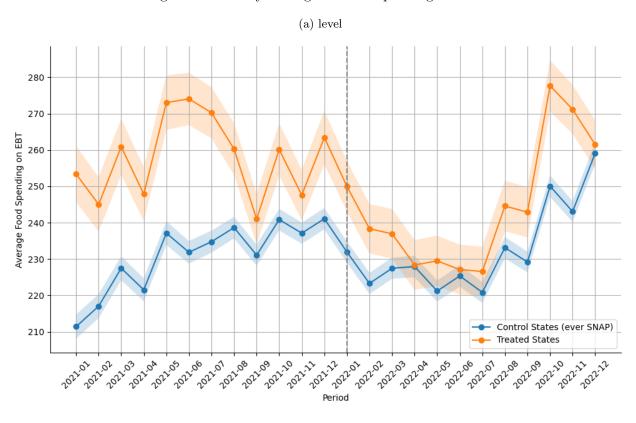


Figure 3: Monthly Average of Food Spending on EBT



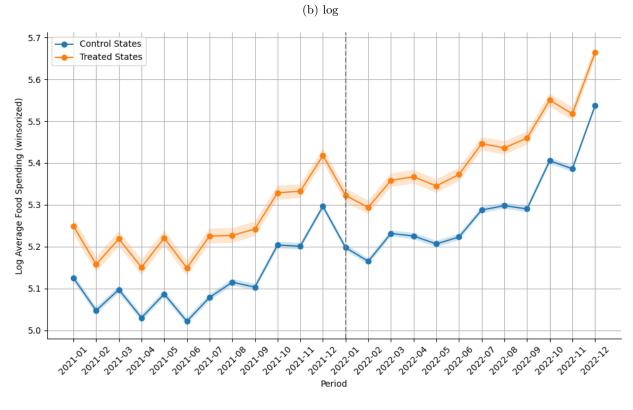


Figure 4: Monthly Average of Soda Spending





Figure 5: Monthly Average of Soda Spending on EBT

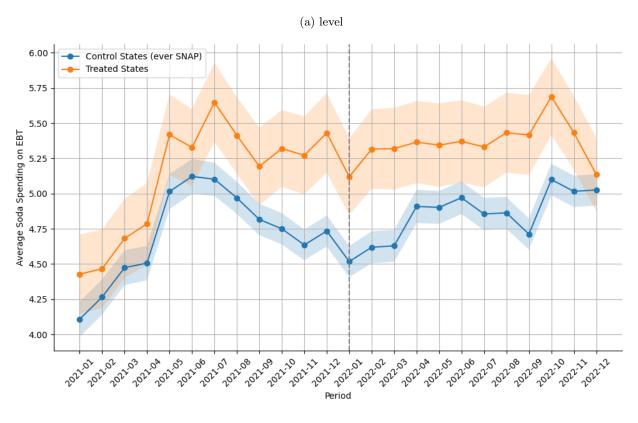




Figure 6: Monthly Average of Soda Spending by SNAP/Non-SNAP

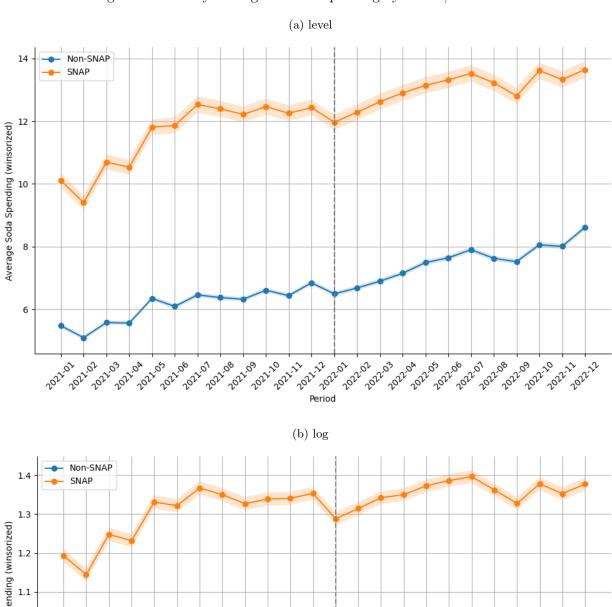
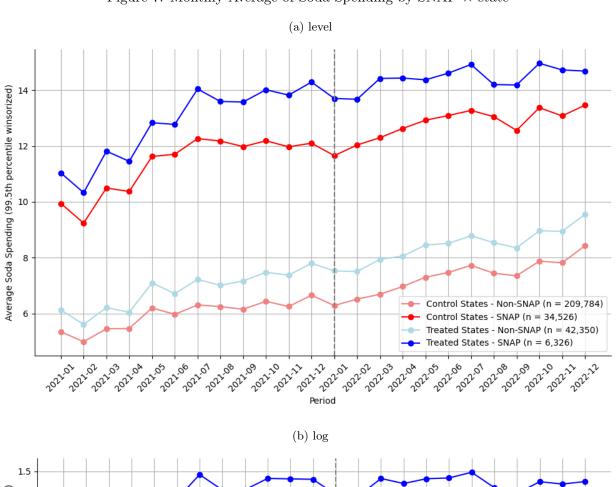
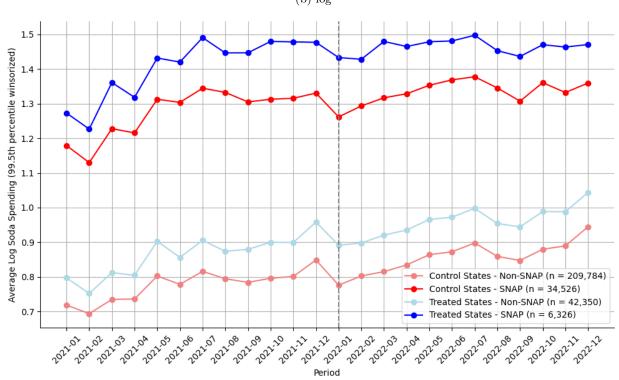


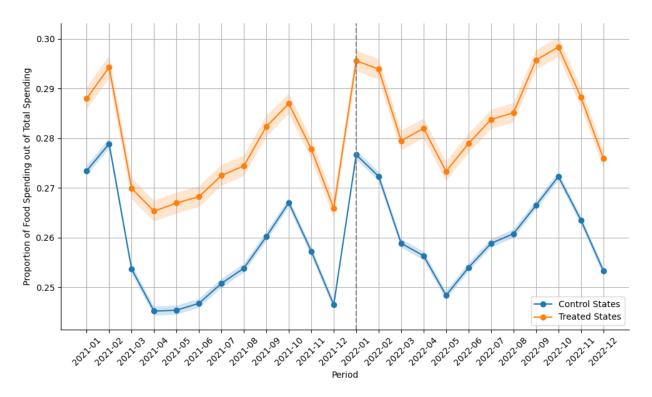


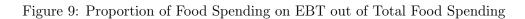
Figure 7: Monthly Average of Soda Spending by SNAP \times state



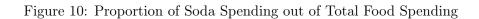














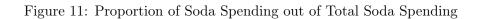
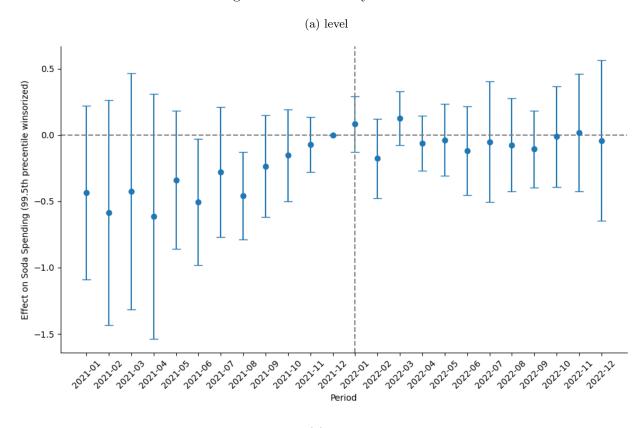




Figure 12: Event Study - TWFE



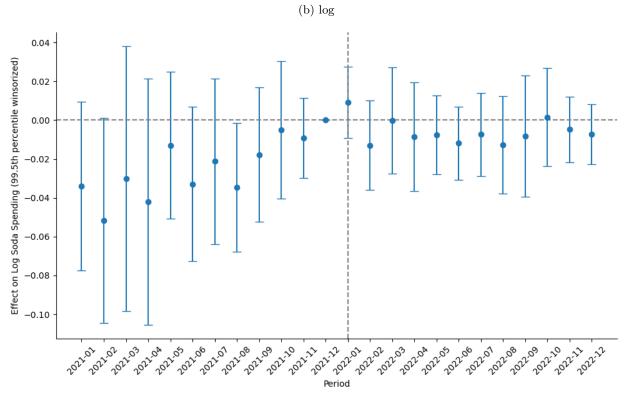
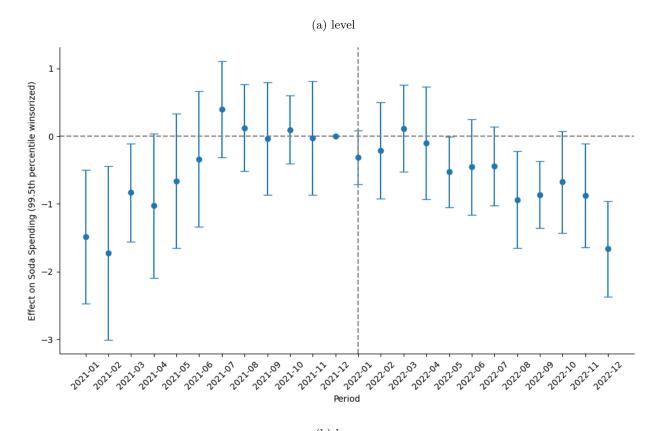


Figure 13: Event Study - TWFE (Treatment Assignment = SNAP/Non-SNAP) within treated states



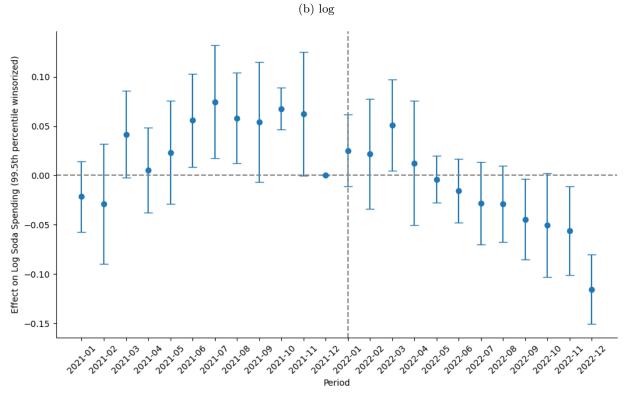
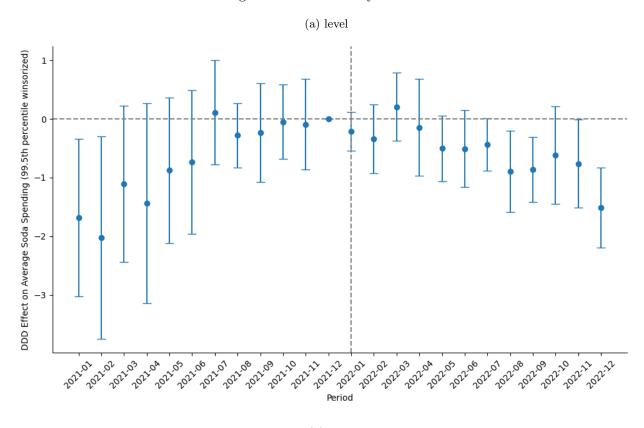


Figure 14: Event Study - DDD



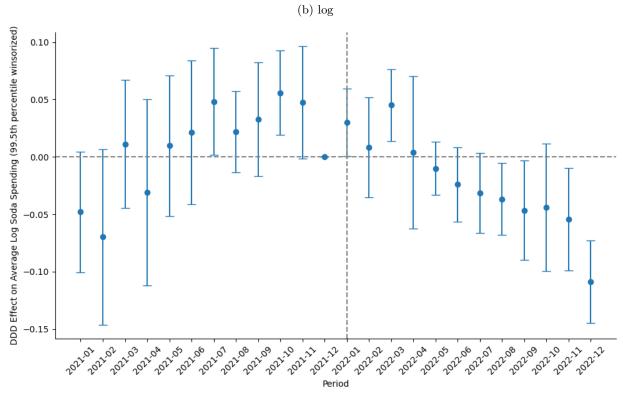


Table 1: Model Estimates

Term	TWFE	TWFE Log	TWFE	TWFE Log	DDD	DDD Log
Post	1.4469***	0.0871***	1.7569***	0.1114***	1.4920***	0.0907***
	(0.1295)	(0.0062)	(0.2563)	(0.0120)	(0.1183)	(0.0058)
$State \times Post$	0.2907	0.0174				
	(0.3034)	(0.0139)				
$SNAP \times Post$			-0.1483	-0.0523***		
			(0.2494)	(0.0098)		
$State \times SNAP \times Post$					0.1166	-0.0316**
					(0.4286)	(0.0153)
N	5,879,887	5,879,887	966,630	966,630	5,879,887	5,879,887
R^2	0.0034	0.0019	0.0040	0.0025	0.0034	0.0019
User FE	Yes	Yes	Yes	Yes	Yes	Yes
Period FE	No	No	No	No	No	No
SE Cluster	state	state	state	state	state	state