

### **Tobacco Industry Analysis**

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## Notice

This presentation is based solely on an analysis conducted by Management Science Associates Inc. (MSAi) and does not necessarily reflect the opinion of any client. The definitions and analysis used in the presentation are based on general industry knowledge and typically represent the way a tobacco retailer may refer to the broad tobacco and nicotine delivery industry. Further, this presentation refers to tobacco and non-tobacco categories, that are often reported as cigarette only, cigars and pipe tobacco only, loose leaf only and electronic and other delivery systems only.

For purposes of this presentation, all of these categories are often referred to as one category using the phrase "nicotine delivery systems", as that is a category grouping, that in MSAi's experience, is used by most retail establishments. This presentation's reference to "nicotine delivery systems" is in that context of the broadest retailer categorization of these various items.

# Agenda

- Total US Nicotine Trends
- Growth & Decline of Nicotine Categories
- Trade Channel Analysis
- Google Trends
- Overview of Modern Oral Category
- Menthol Cigarette Analysis

- Flavored Cigar Trend Analysis
- Flavored Vapor Trend Analysis
- Impact of SET Increases (DC & OK)
- Impact of 21+ Legal Purchasing Age Restrictions
  Massachusetts
- Impact of Flavor Restrictions
  - Duluth, MN
  - San Francisco, CA
  - Somerville, MA



# Vapor Terminology

#### **Disposables**

Closed non-refillable single use atomizer.



#### <u>e-Liquid</u>

Bottles which are used to refill mods, vaporizers, or other vaping system.



#### <u>Kits</u>

Selling unit that contains multiple items such as charging unit or accessory **as well as a cartridge or e-liquid bottle.** 



#### **Cartridges**

Closed non-refillable cartridges that are used with an atomizer.





### **Modern Oral Nicotine - Category Overview**

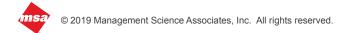
 The Modern Oral Nicotine category includes items marketed as tobacco-free nicotine products for oral consumption.



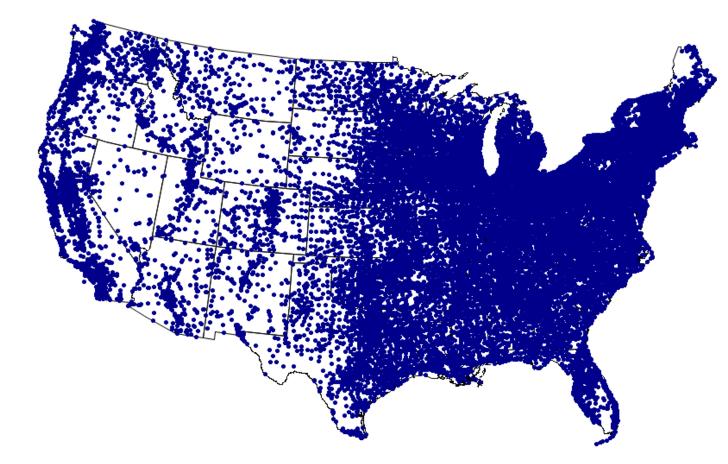


- These products are available in varying nicotine strengths and often come in pouch form, but can also include items in the form of toothpicks and lozenges.
- This growing category currently spans 7 different brand families.

# **TOTAL US NICOTINE TRENDS**



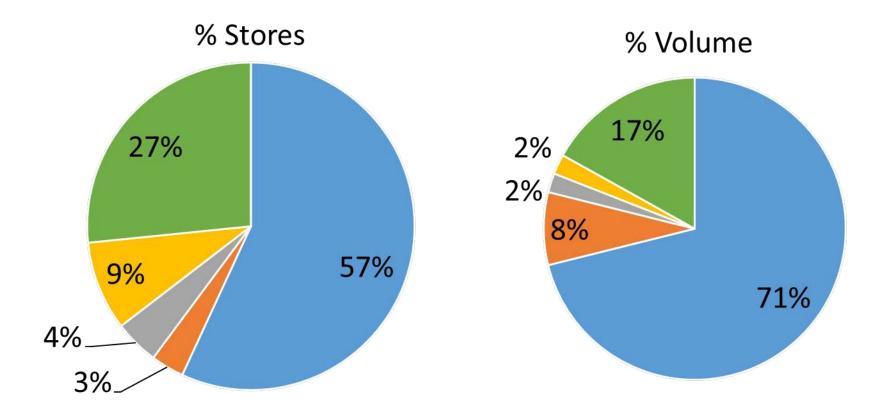
### **Total US Nicotine Trends**



The following slides highlighting the Total US Nicotine Trends use just under 300,000 stores summarizing shipment-to-retail volume for these stores.

## Nicotine Distribution by Trade Class for US

52 Weeks Ending Q2-2019



Convenience Gas Tobacco Outlet Drug Store Dollar Store All Other Trade



### % Change 52 Weeks Ending Q2-2019 vs. 52 Weeks Ending Q2-2018

	All Outlets	Convenience Gas	Tobacco Outlets	Drug Stores	Dollar Stores	All Other Outlets
Volume	-1.9%	-1.6%	-1.3%	-14.2%	5.4%	-2.7%
Distribution	1.8%	2.3%	<b>2.6</b> %	<b>-6.9</b> %	17.1%	-3.1%
Item Count	-2.3%	<b>-2</b> .1%	-1.5%	-2.3%	-3.7%	-0.8%

### Volume in Consumer Units

### **Included Categories**

- Cigarettes
- Large Cigars
- Little/Filtered Cigars

- Vapor
- Papers/Tubes/Wraps
- Roll Your Own

- Moist
- Snus
- Modern Oral Nicotine

### % Change 52 Weeks Ending Q2-2019 vs. 52 Weeks Ending Q2-2018

	All Outlets	Convenience Gas	Tobacco Outlets	Drug Stores	Dollar Stores	All Other Outlets
Volume	-1.6%	-0.8%	<b>-1.6%</b>	-14.1%	2.5%	-4.2%
Distribution	1.8%	2.3%	<b>2.6</b> %	<b>-6.9</b> %	17.1%	-3.1%
Item Count	-2.3%	<b>-2</b> .1%	-1.5%	-2.3%	-3.7%	-0.8%

### Volume in Serving Units

### **Included Categories**

- Cigarettes
- Large Cigars
- Little/Filtered Cigars

- Vapor
- Papers/Tubes/Wraps
- Roll Your Own

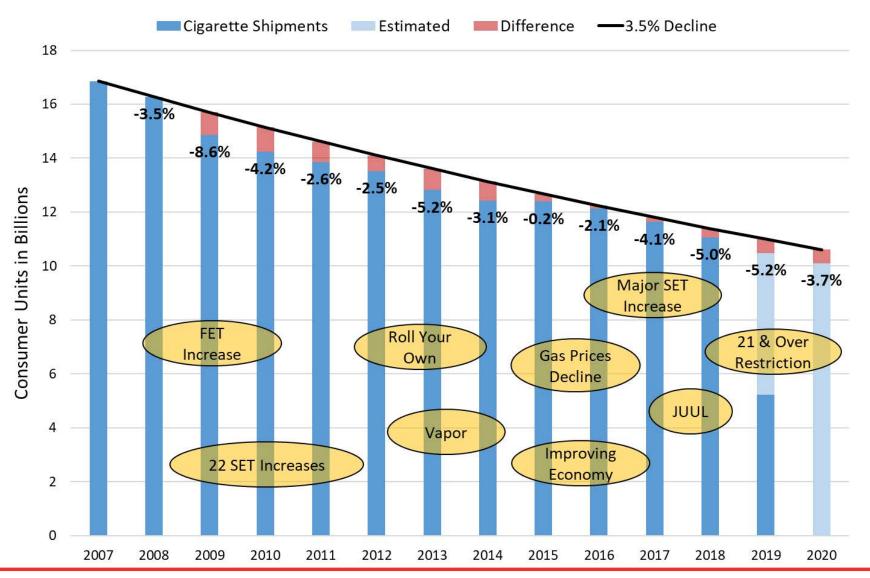
- Moist
- Snus
- Modern Oral Nicotine

### Share of Nicotine 52 Weeks Ending Q2-2019 vs. 52 Weeks Ending Q2-2018

	Shr Q2-2018	Shr Q2-2019	Shr Change
Cigarettes	83.5%	80.5%	-3.0
Large Cigars	2.4%	2.5%	0.2
Little/Filtered Cigars	1.2%	1.2%	-0.03
Modern Oral	0.0%	0.1%	0.08
Moist	7.1%	7.1%	0.03
Papers/Tubes/Wraps	3.3%	3.2%	-0.01
Pipe Tobacco	0.01%	0.01%	0.00
Roll Your Own	0.001%	0.001%	0.00
Snus	0.3%	0.3%	0.01
Vapor	2.2%	5.0%	2.8

Volume in Serving Units

### **Overall Total US Cigarette Trends**





## **Overall Total US Cigarettes Trends**

### % Change 52 Weeks Ending Q2-2019 vs. 52 Weeks Ending Q2-2018

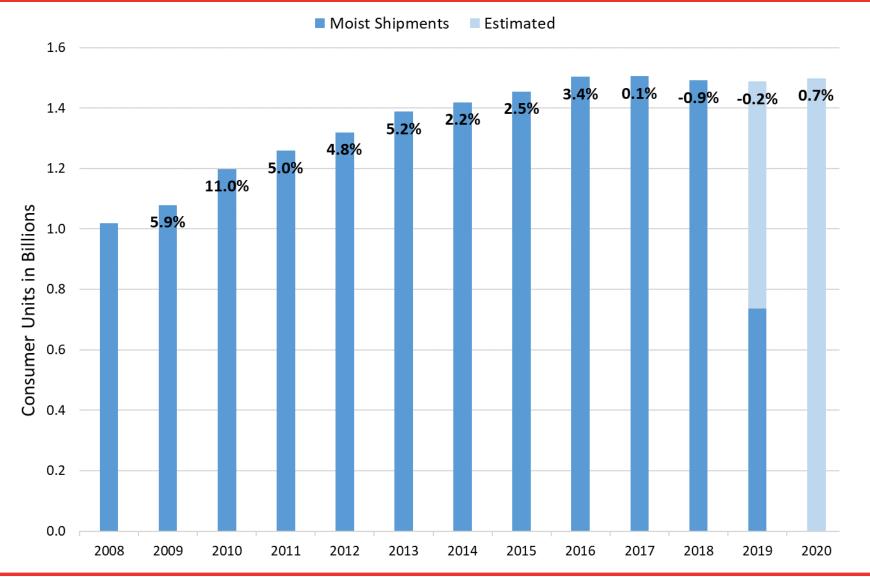
	All Outlets	Convenience	Tobacco	Drug	Dollar	All Other
	All Outlets	Gas	Outlets	Stores	Stores	Outlets
Volume						
Cigarettes	-5.0%	-4.8%	-3.1%	-16.0%	2.3%	-5.9%
Menthol	-4.3%	-4.0%	-0.7%	-16.2%	1.3%	<b>-6</b> .1%
Non-Menthol	-5.3%	-5.2%	<b>-4.2</b> %	-15.8%	<b>2.8</b> %	-5.7%
Distribution						
Cigarettes	-1.7%	-1.1%	0.4%	<b>-7.8</b> %	<b>5.8</b> %	-4.2%
Menthol	-1.6%	-1.3%	0.3%	<b>-7.9</b> %	5.6%	-3.8%
Non-Menthol	-1.6%	-1.1%	0.4%	-7.7%	6.0%	-4.2%
Items						
Cigarettes	-3.8%	-3.4%	-3.5%	-2.5%	-6.8%	-3.6%
Menthol	-3.5%	<b>-2.9</b> %	-3.1%	-1. <b>9</b> %	<b>-6.2</b> %	-2.6%
Non-Menthol	-4.1%	-3.7%	-3.7%	<b>-2.8</b> %	-7.3%	-4.1%

### % Change 52 Weeks Ending Q2-2019 vs. 52 Weeks Ending Q2-2018

	All Outlets	Convenience Gas	Tobacco Outlets	Drug Stores	Dollar Stores	All Other Outlets
Volume						
Large Cigars	5.7%	6.6%	8.5%	-5.4%	<b>16.7%</b>	3.1%
Little/Filtered Cigars	-4.1%	-4.7%	-5.1%	4.0%	10.7%	-4.8%
Distribution						
Large Cigars	2.4%	2.4%	4.1%	-1.1%	1 <b>9.4</b> %	<b>-4</b> .1%
Little/Filtered Cigars	-1.1%	-2.3%	0.9%	6.7%	10.0%	<b>-5.9%</b>
Items						
Large Cigars	-0.1%	-0.4%	1.3%	1.2%	-0.6%	-0.1%
Little/Filtered Cigars	-4.7%	-4.6%	-5.4%	-3.4%	27.3%	<b>-6.9</b> %



### **Overall Total US Moist Trends**



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### **Overall Total US Vapor Trends - Servings**

### % Change 52 Weeks Ending Q2-2019 vs. 52 Weeks Ending Q2-2018

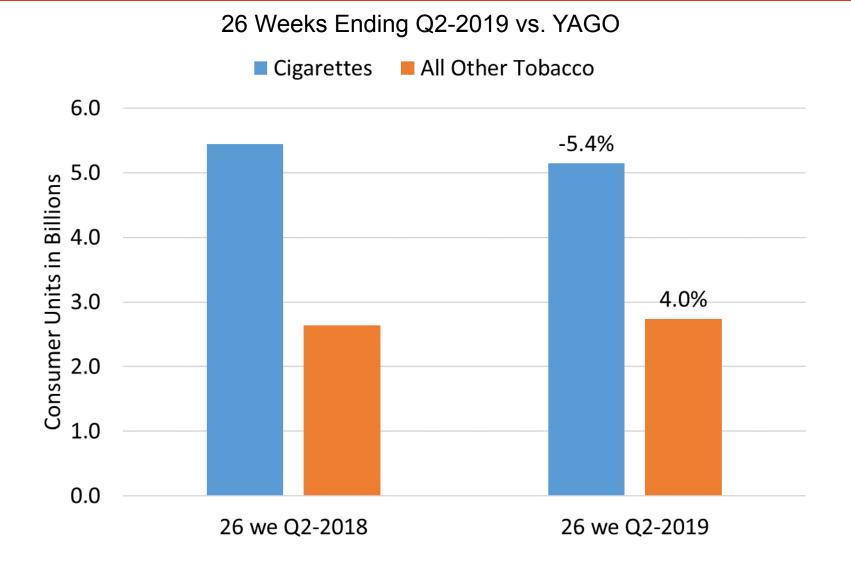
		<u> </u>			<u> </u>					
	All Outlets	Convenience	Tobacco	Drug	Dollar	All Other				
	All Outlets	Gas	Outlets	Stores	Stores	Outlets				
/olume										
Cartridges	160.6%	171.7%	85.8%	66.6%	-87.4%	173.9%				
Disposables	3.0%	-0.5%	<b>-4.9</b> %	13.3%	332.5%	-15.7%				
Kits	76.9%	72.4%	117.3%	-14.5%	-88.8%	193.0%				
e-Liquid	-22.3%	-35.3%	0.2%	-95.4%	304.2%	<b>-2.6</b> %				
Distribution										
Cartridges	18.0%	<b>19.4</b> %	18.4%	5.1%	-91.6%	22.3%				
Disposables	1.3%	3.6%	-3.3%	<b>2.9</b> %	201.7%	-18.7%				
Kits	20.5%	<b>22.9</b> %	17.7%	-14.3%	-40.7%	37.5%				
e-Liquid	-55.0%	-56.5%	-14.7%	<b>-81</b> .1%	<b>64</b> .1%	-52.6%				
Items										
Cartridges	<b>26.8</b> %	40.3%	28.3%	15.9%	-45.3%	33.3%				
Disposables	-22.5%	-19.8%	-12.0%	1.7%	-1.6%	-13.2%				
Kits	-12.7%	-9.0%	-11.6%	-13.3%	-46.3%	-13.2%				
e-Liquid	<b>-8.9</b> %	<b>-22.0%</b>	<b>-7.8</b> %	-33.0%	231.5%	<b>-1.6%</b>				

#### Volume in Serving Units

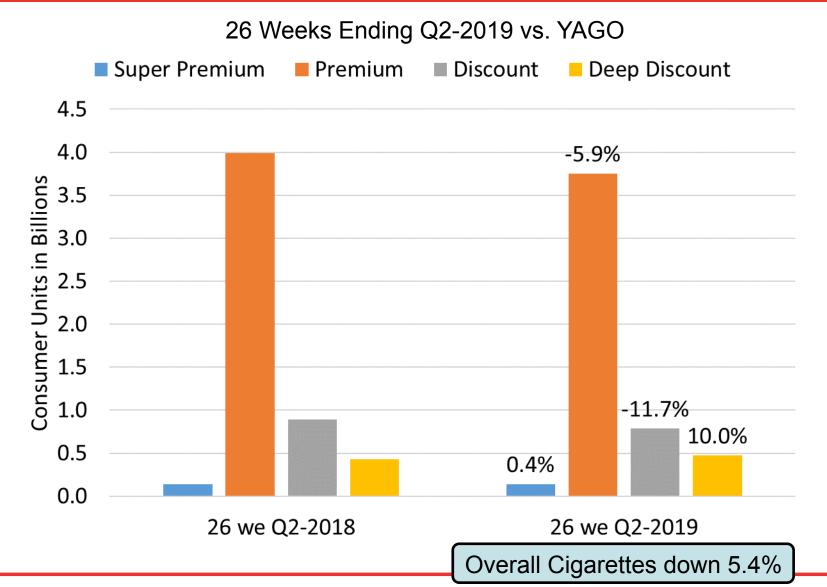
# GROWTH AND DECLINE OF NICOTINE CATEGORIES



### **Cigarettes vs. All Other Tobacco**



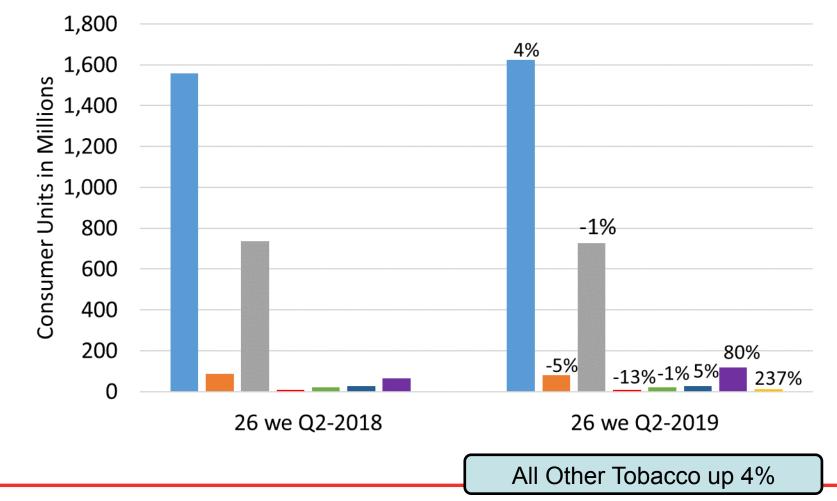
### **Overall Total US Cigarette Trends**



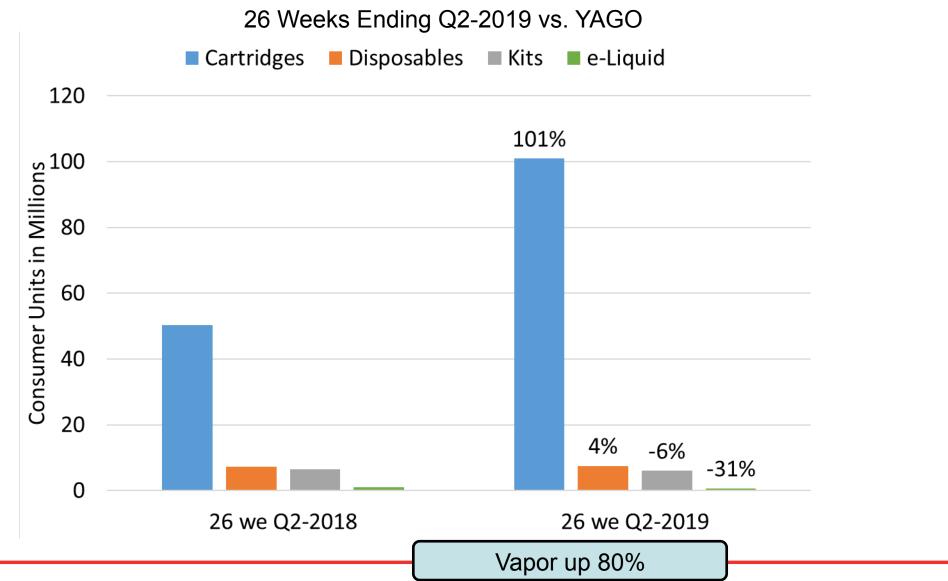
### **Breakdown of All Other Tobacco**

26 Weeks Ending Q2-2019 vs. YAGO

■ Large Cigars ■ Little/Filtered Cigars ■ Moist ■ Roll Your Own ■ Pipe Tobacco ■ Snus ■ Vapor ■ Modern Oral

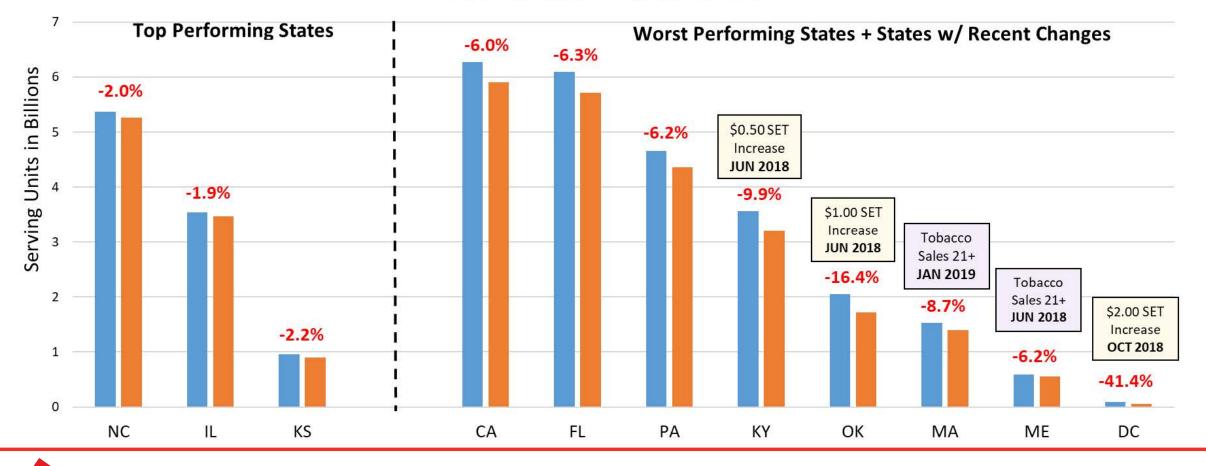


### **Overview of Vapor Category**



### % Change 26 Weeks Ending Q2-2019 vs. 26 Weeks Ending Q2-2018 Total US Volume down 5.7%

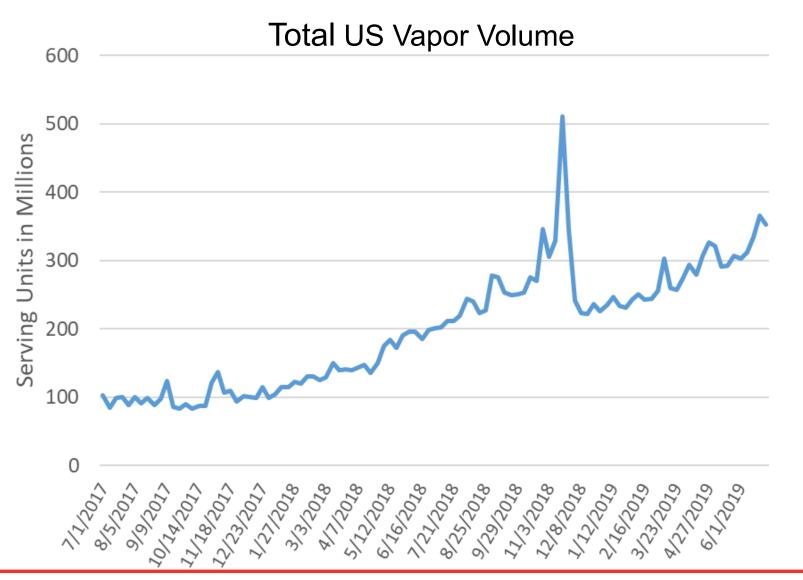
26 we Q2-2018 = 26 we Q2-2019



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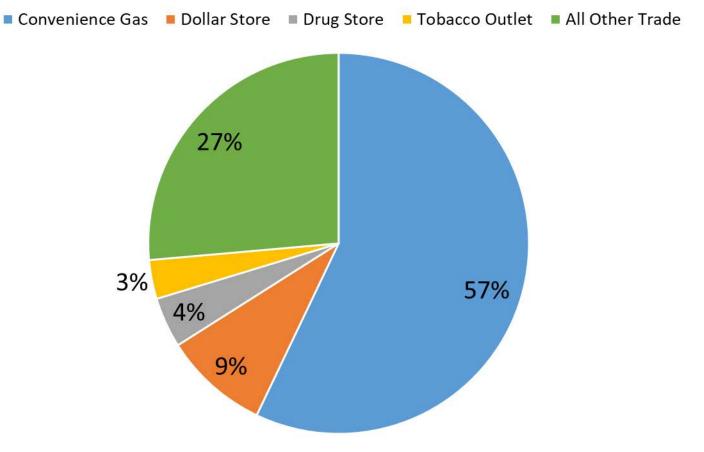
### Vapor Trends



# **TRADE CHANNEL ANALYSIS**



# **Cigarette Distribution**

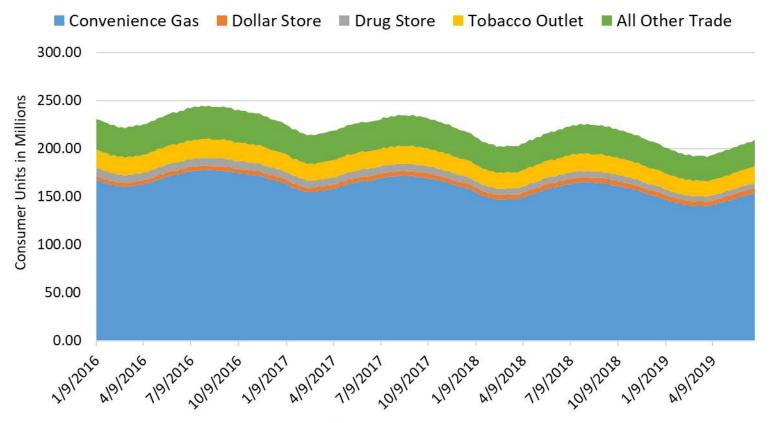


Q2 '19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	-1,789	813	-1,196	26	-3,030
% Change	-1%	4%	-10%	0%	-4%



25

## **Cigarette Volume**

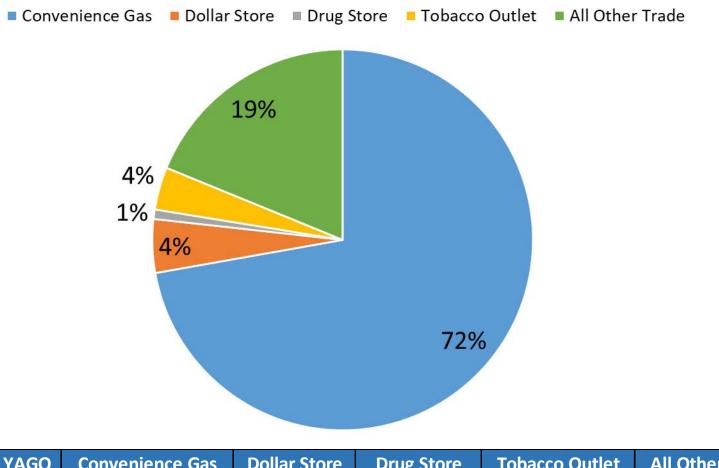


13 Week Moving Average

Q2'19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	-116,599,478	253,761	-16,550,056	-10,270,525	-27,463,492
% Change	-6%	0%	-19%	-5%	-7%



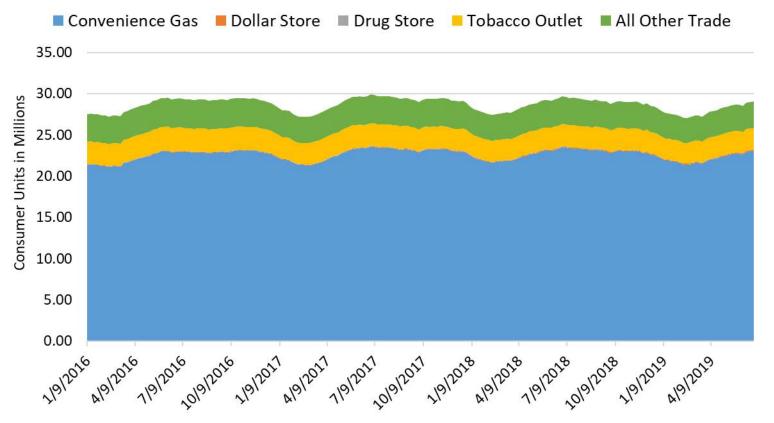
### **Moist Distribution**



Q2 '19 vs. YAGO	Convenience Gas	<b>Dollar Store</b>	Drug Store	Tobacco Outlet	All Other Trade
Change	-1,310	360	323	-10	-1,176
% Change	-1%	5%	32%	0%	-4%



### **Moist Volume**

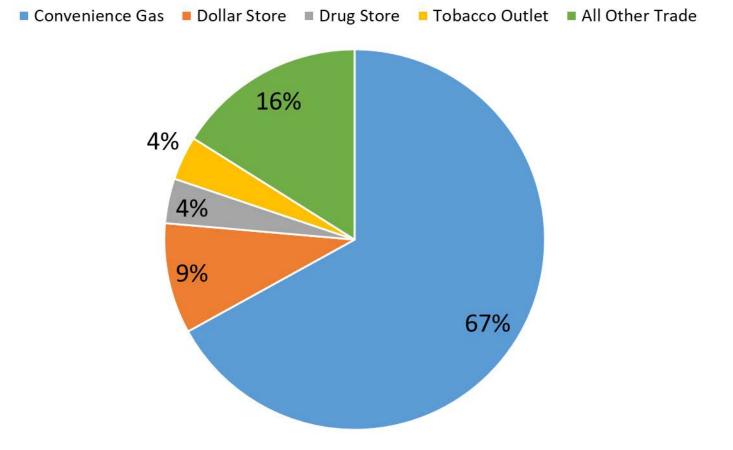


13 Week Moving Average

Q2'19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	-3,853,601	21,509	-22,740	-728,724	-1,570,560
% Change	-1%	2%	-7%	-2%	-4%



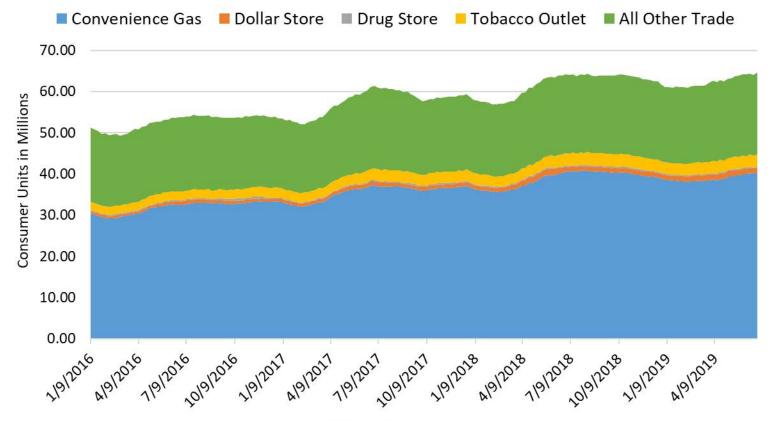
# Large Cigar Distribution



Q2 '19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	1,126	2,367	-278	101	-1,626
% Change	1%	17%	-4%	2%	-6%



# Large Cigar Volume

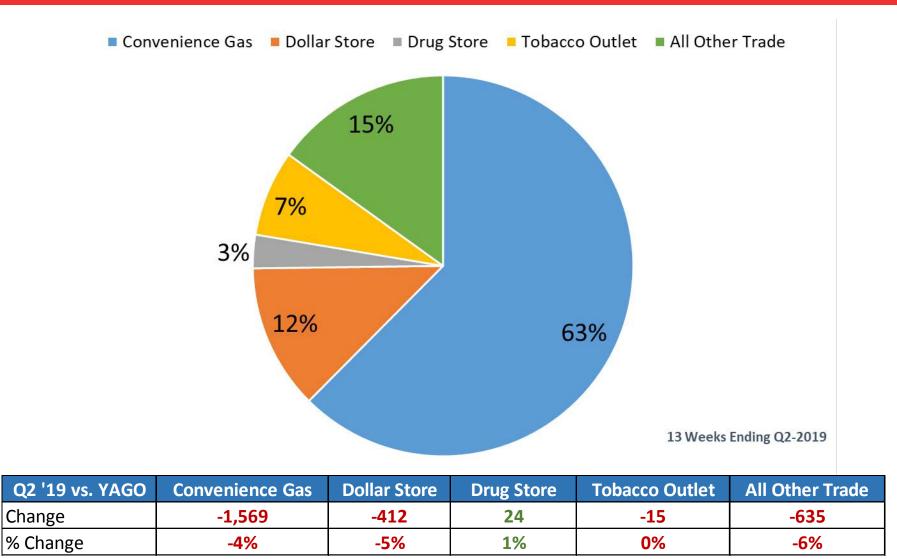


13 Week Moving Average

Q2'19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	6,469,976	-1,275,831	-187,190	1,650,226	8,063,404
% Change	1%	-7%	-5%	5%	3%

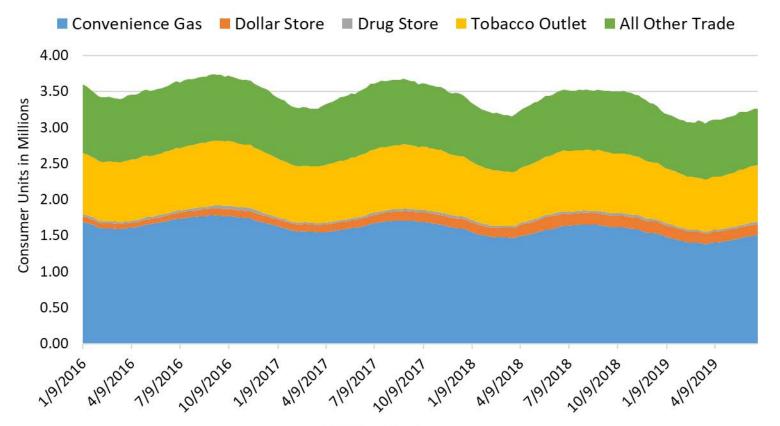


### Little/Filtered Cigar Distribution





### Little/Filtered Cigar Volume

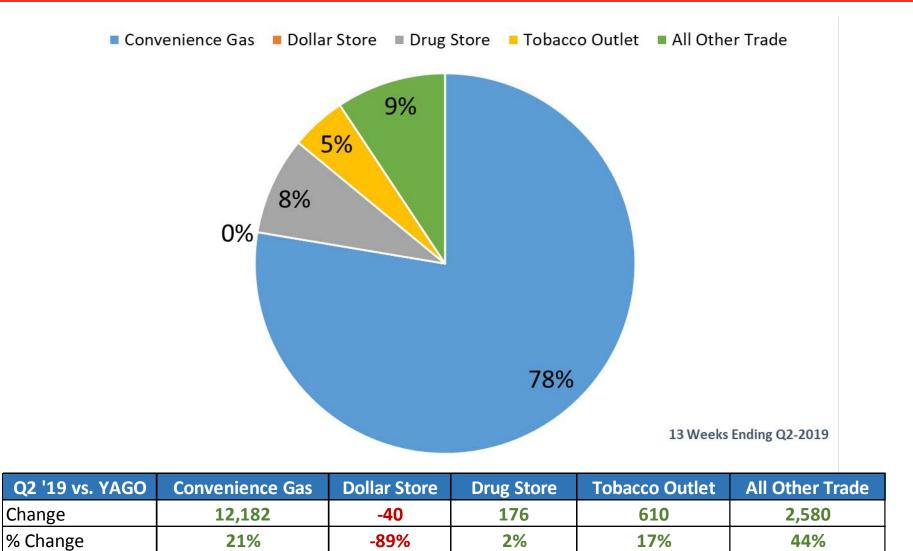


13 Week Moving Average

Q2'19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	-1,423,906	-245,360	9,950	-533,107	-521,662
% Change	-7%	-11%	3%	-5%	-5%

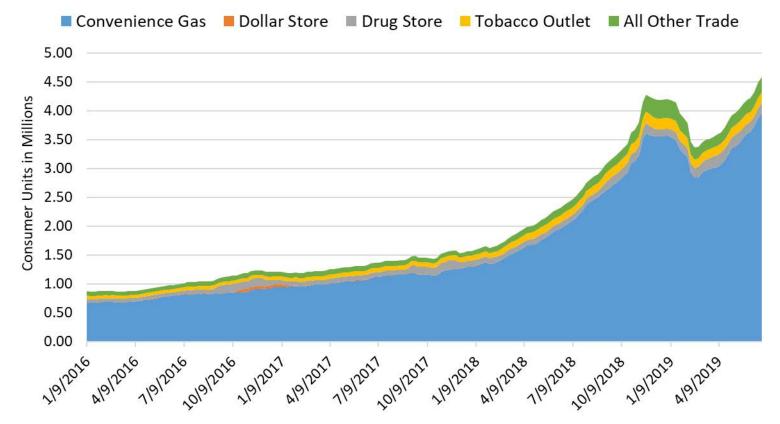


# **Cartridge Distribution**





### **Cartridge Volume**

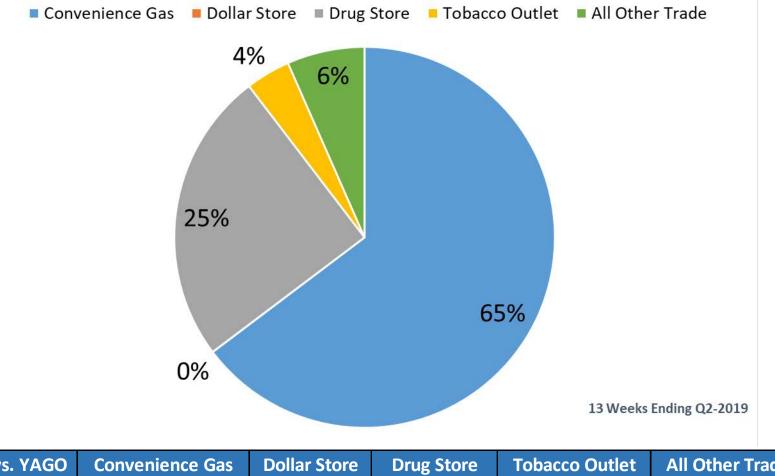


13 Week Moving Average

Q2'19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	21,421,597	-8,293	1,112,979	604,761	1,349,518
% Change	91%	-93%	85%	38%	84%



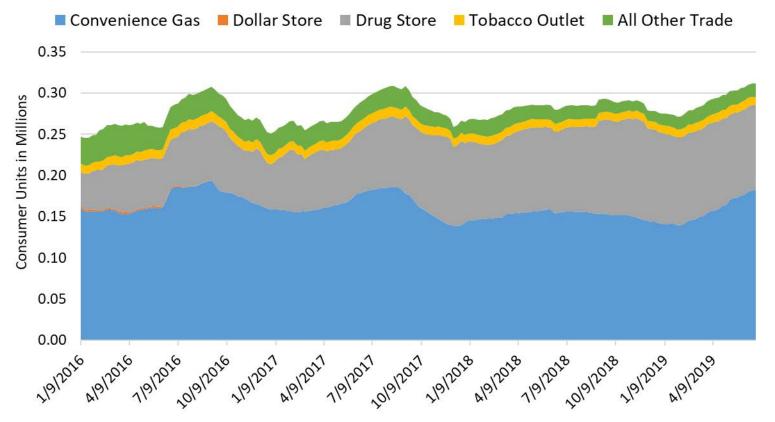
### **Disposable Distribution**



Q2 '19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	269	0	18	21	-177
% Change	2%	0%	0%	2%	-10%



### **Disposable Volume**

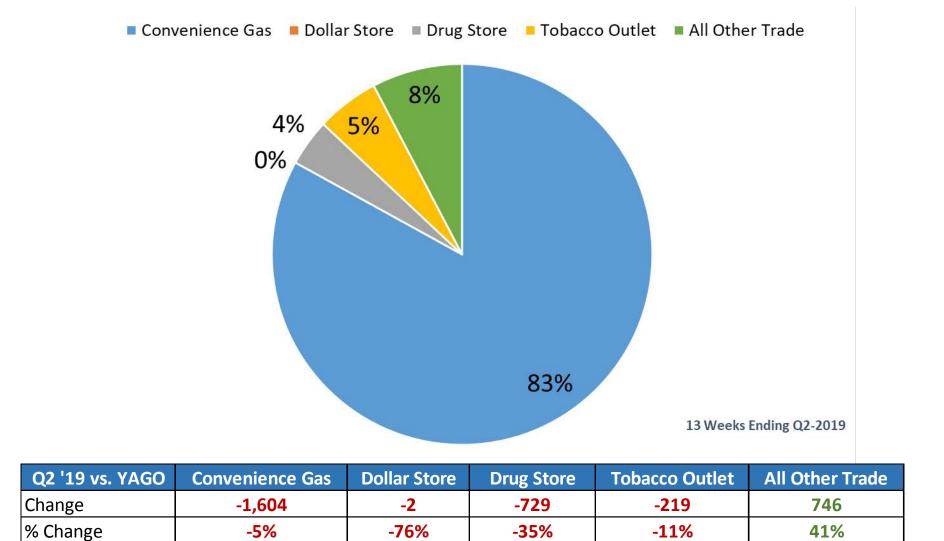


13 Week Moving Average

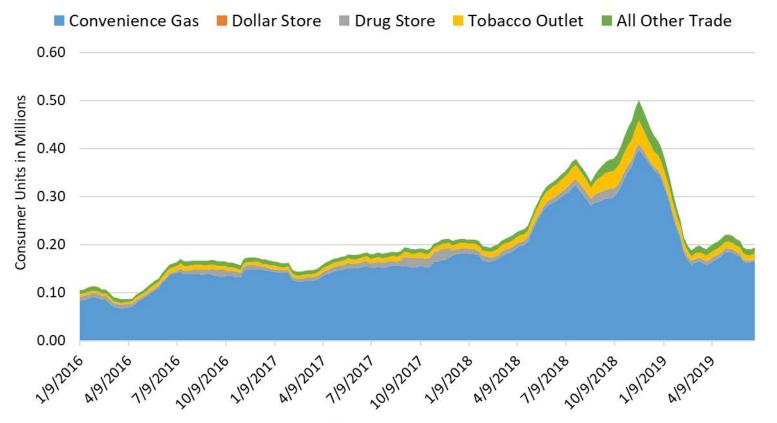
Q2'19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	185,136	7	51,440	7,277	-5 <i>,</i> 369
% Change	9%	0%	4%	6%	-2%



#### **Kit Distribution**



#### **Kit Volume**

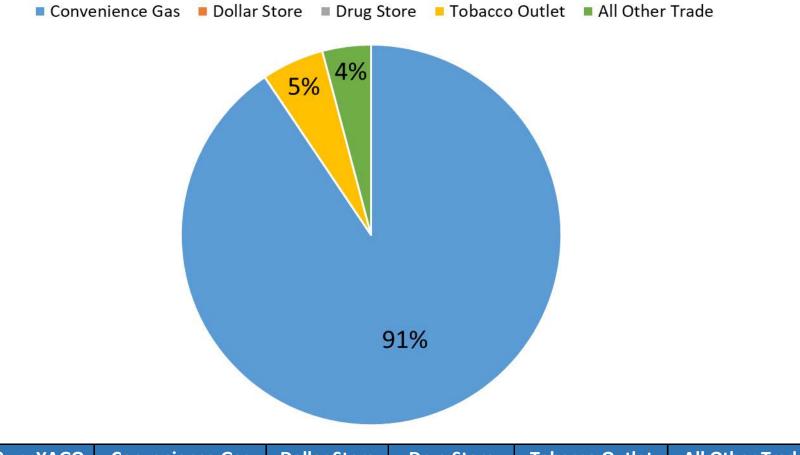


13 Week Moving Average

Q2'19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	-977,725	-1	-33,977	-80,740	47,712
% Change	-30%	-4%	-30%	-32%	36%



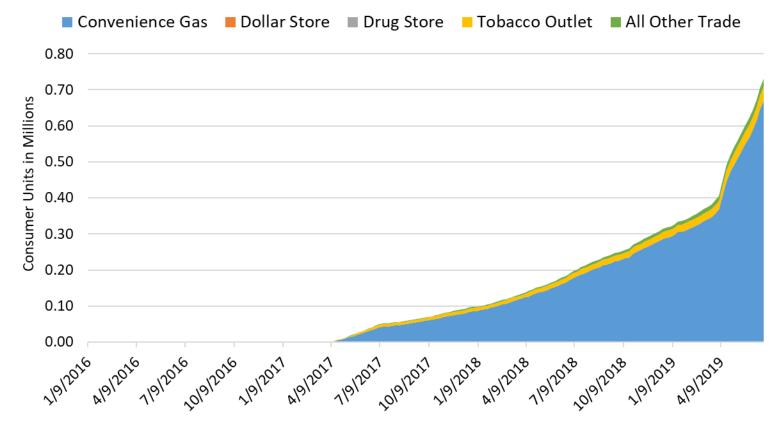
#### **Modern Oral Distribution**



Q2 '19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	8,131	0	2	460	411
% Change	149%	0%	413%	138%	196%



#### Modern Oral Volume

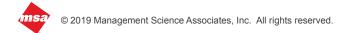


13 Week Moving Average

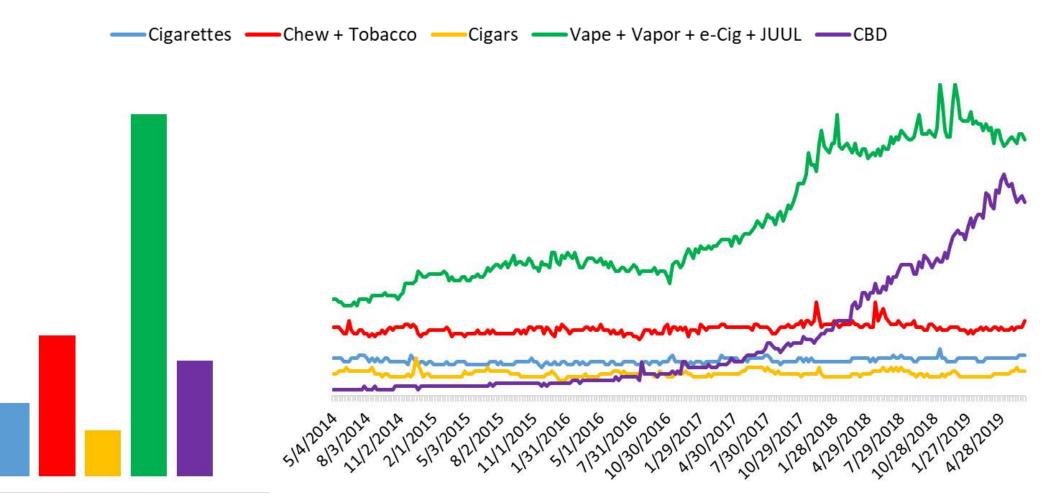
Q2 '19 vs. YAGO	Convenience Gas	Dollar Store	Drug Store	Tobacco Outlet	All Other Trade
Change	4,960,388	0	1,150	270,539	180,213
% Change	261%	0%	882%	173%	349%



# **GOOGLE TREND ANALYSIS**



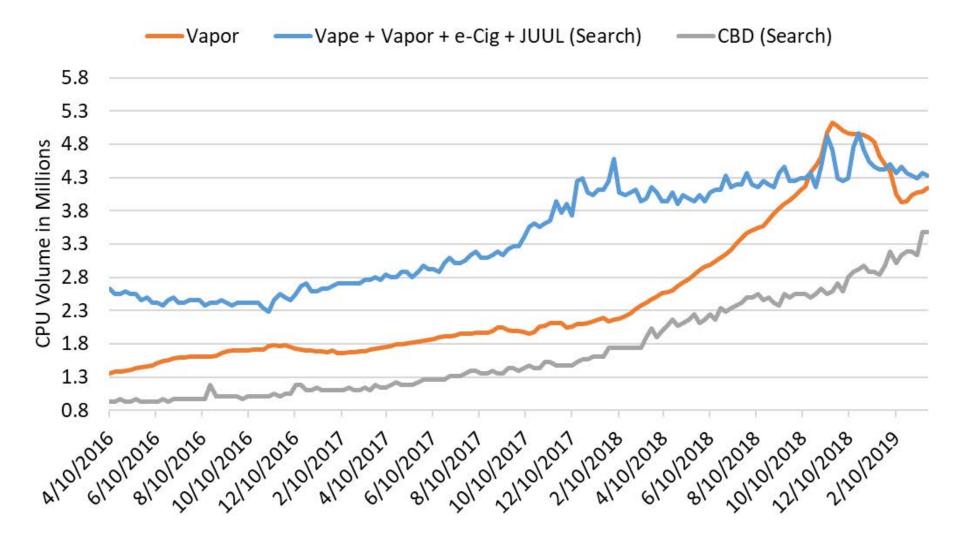
#### **Overall Google Trends**



Google Trend Data as of June 30<sup>th</sup>, 2019

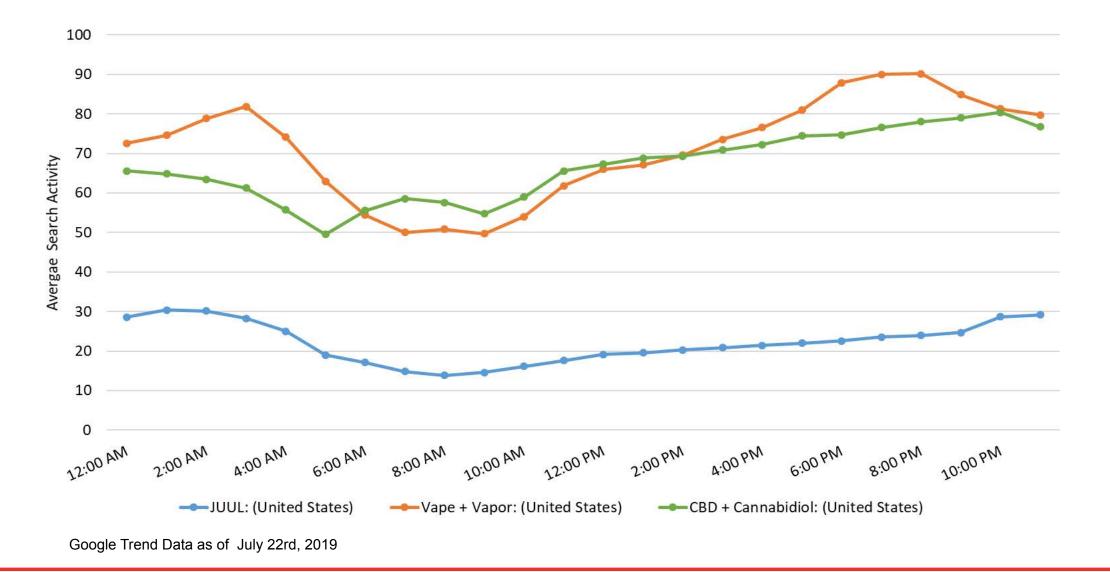


#### Vapor Google Trends



Google Trend Data as of June 23rd, 2019

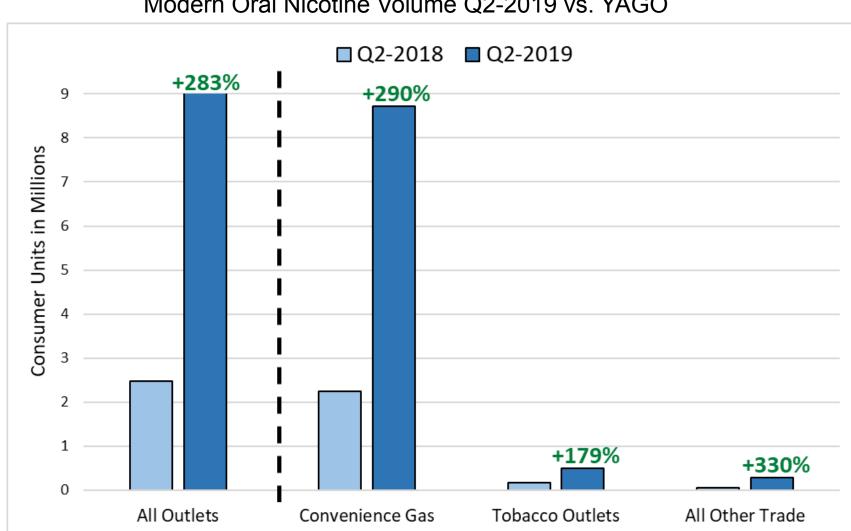
#### Hourly Vapor Google Trends



# **MODERN ORAL NICOTINE TRENDS ANALYSIS**



#### **Modern Oral Nicotine Trend by Trade Channel**



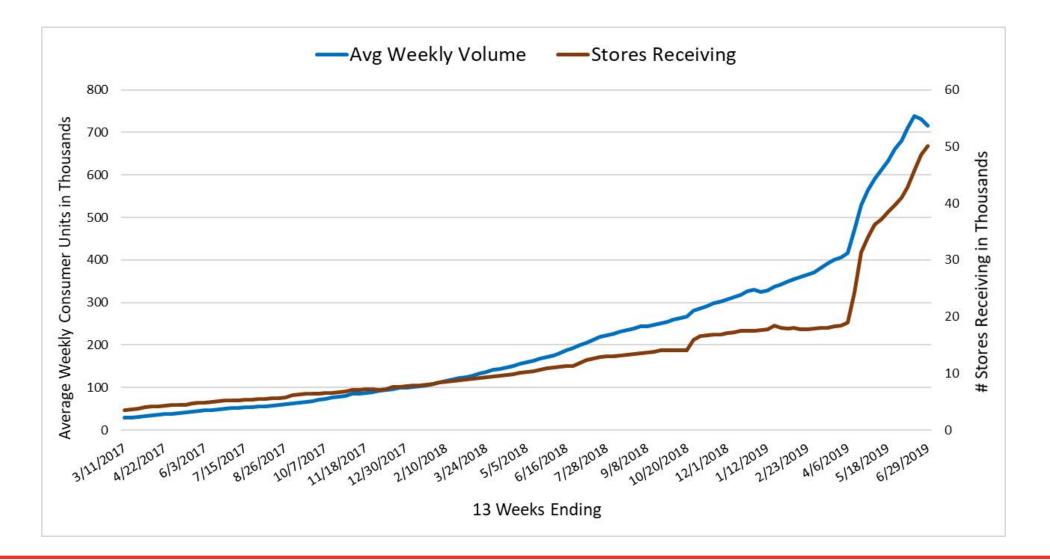
Modern Oral Nicotine Volume Q2-2019 vs. YAGO



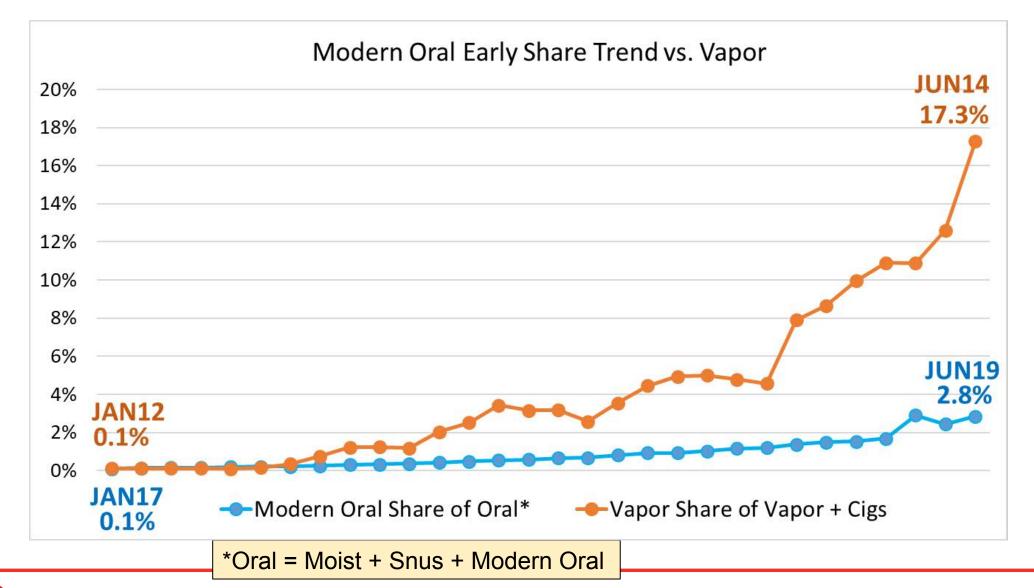
#### **Modern Oral Nicotine Volume & Item Count**



#### **Modern Oral Nicotine Volume & Distribution**



#### Modern Oral Nicotine Trend vs. Vapor - Servings



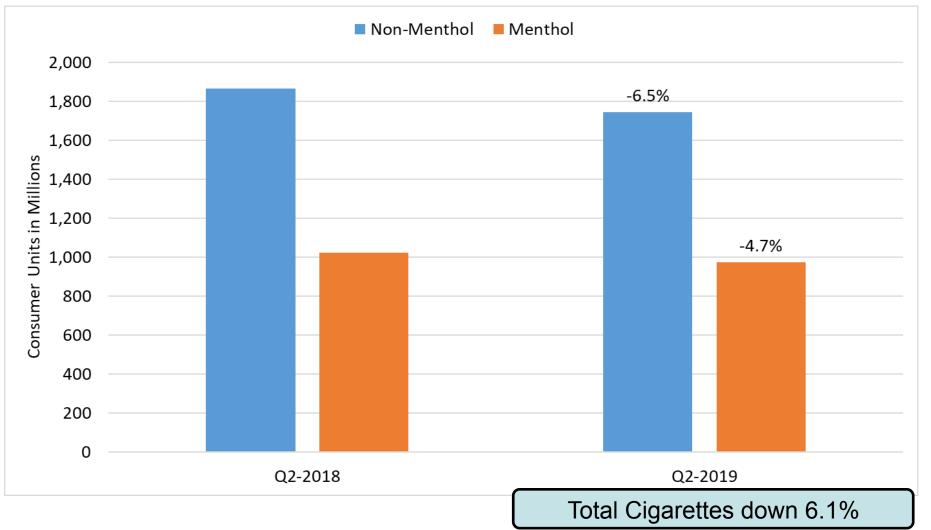
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# **MENTHOL CIGARETTES TRENDS ANALYSIS**



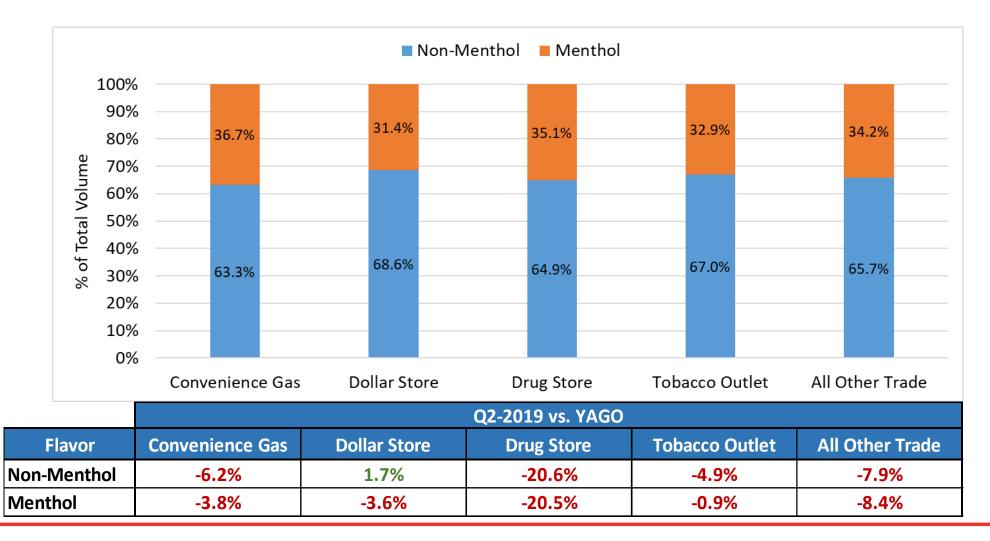
#### **Cigarette Volume by Flavor Type**

Q2-2019 vs. YAGO



## **Cigarette Volume by Flavor Type and Trade Channel**

Share of Trade Channel Volume by Flavor Type, Q2-2019

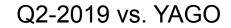


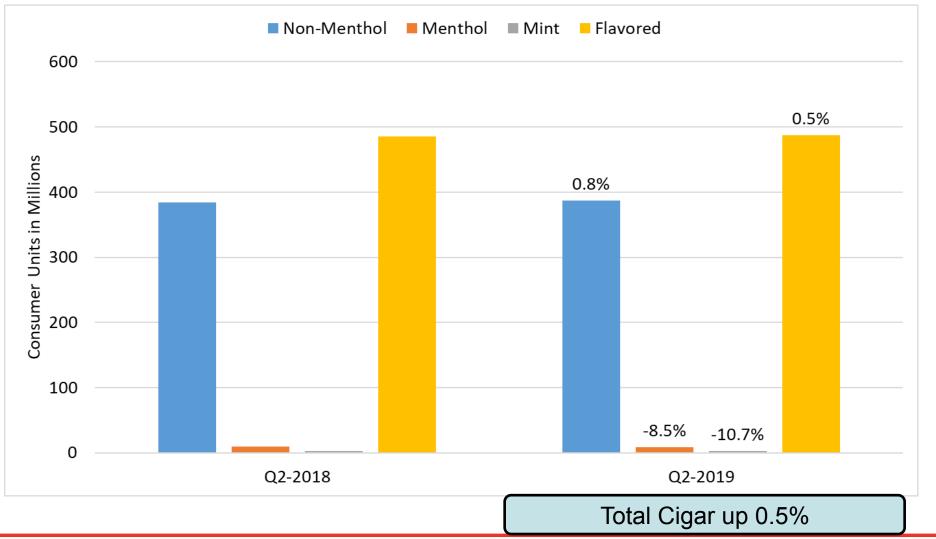


# **FLAVORED CIGAR TRENDS ANALYSIS**

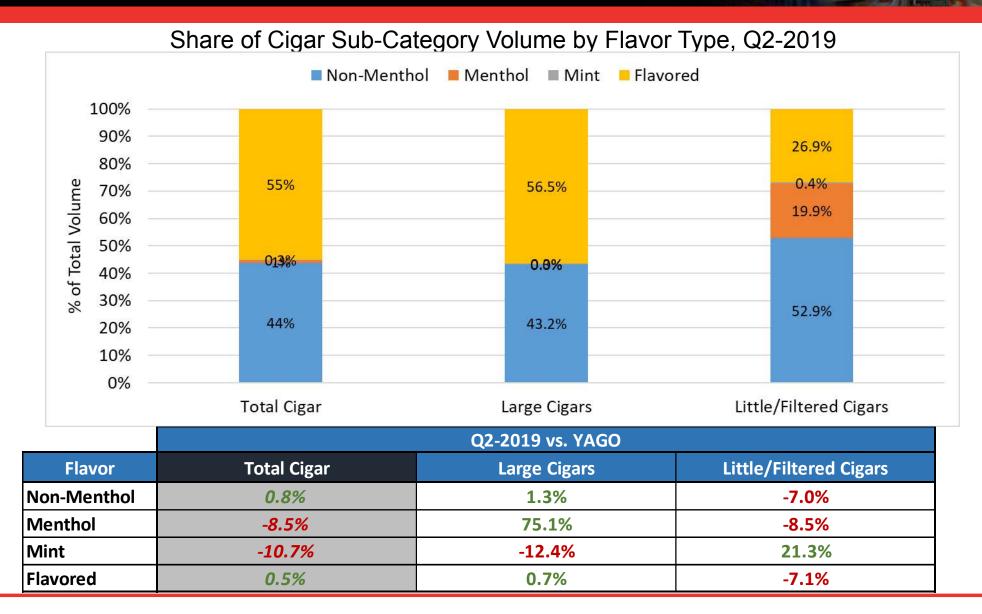


### **Total Cigar Volume by Flavor Type**



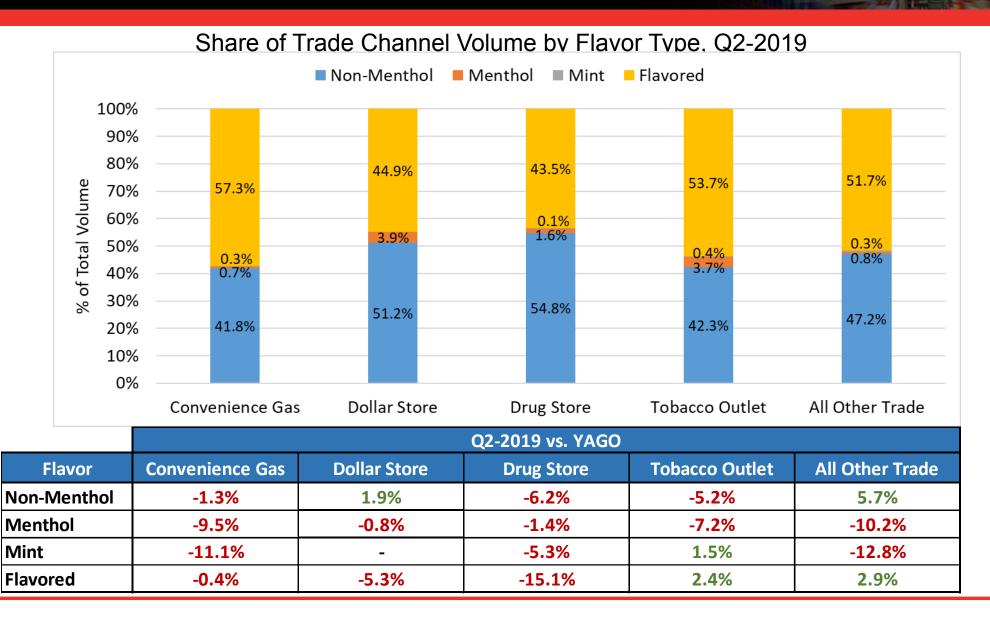


# Cigar Volume by Flavor Type and Sub-Category





# Total Cigar Volume by Flavor Type and Trade Channel



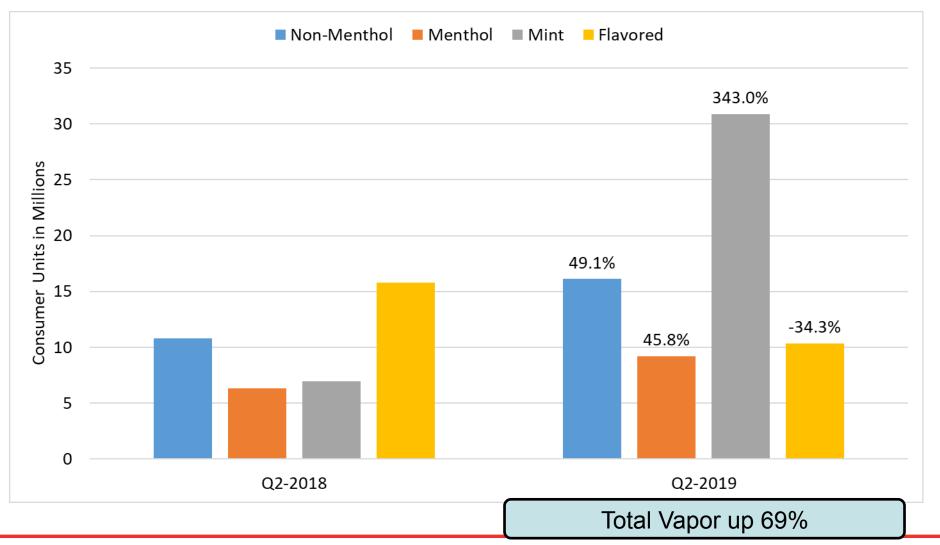


# **FLAVORED VAPOR TRENDS ANALYSIS**

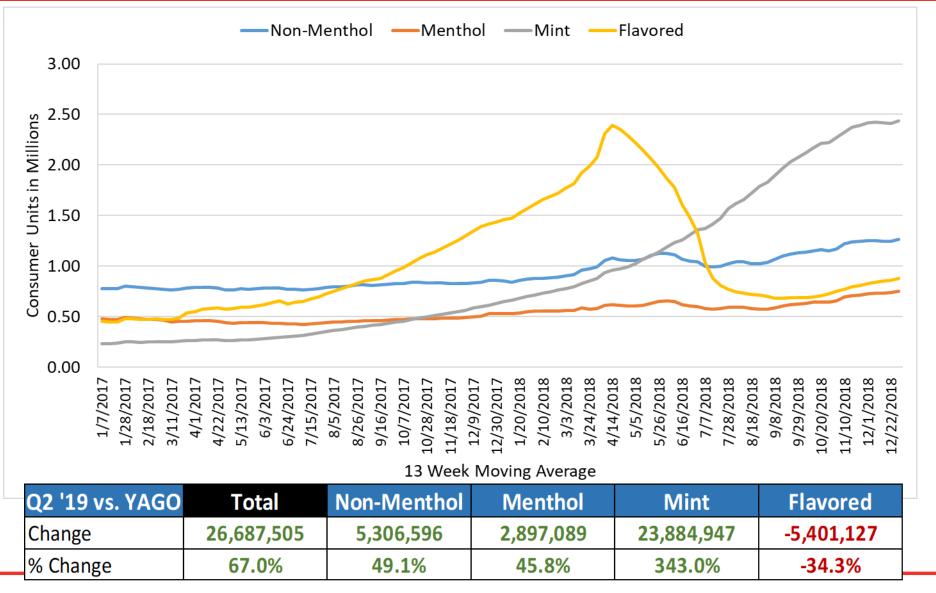


#### **Total Vapor Volume by Flavor Type**

Q2-2019 vs. YAGO

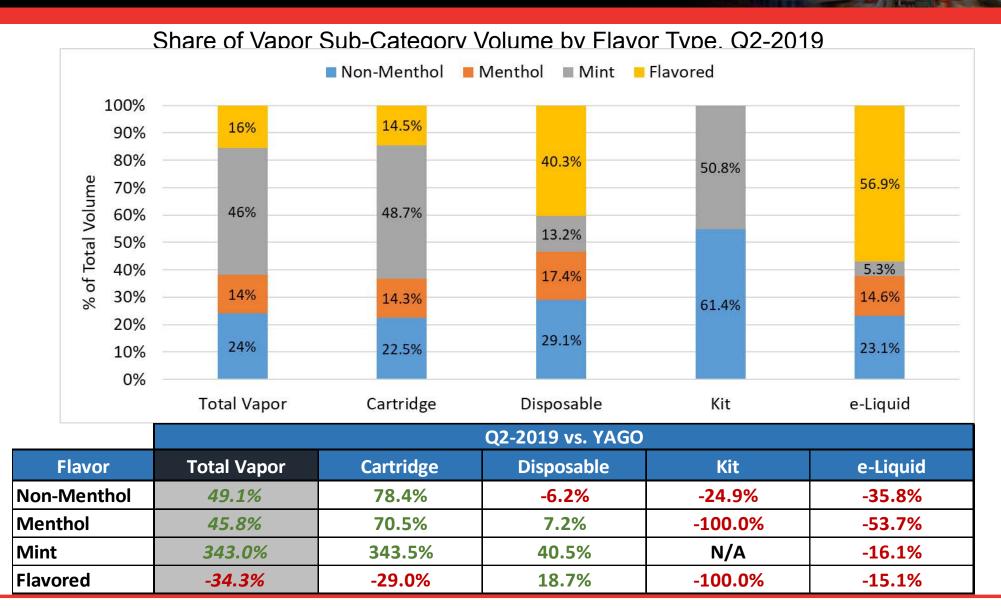


### **Total Vapor Volume by Flavor Type**





# Vapor Volume by Flavor Type and Sub-Category



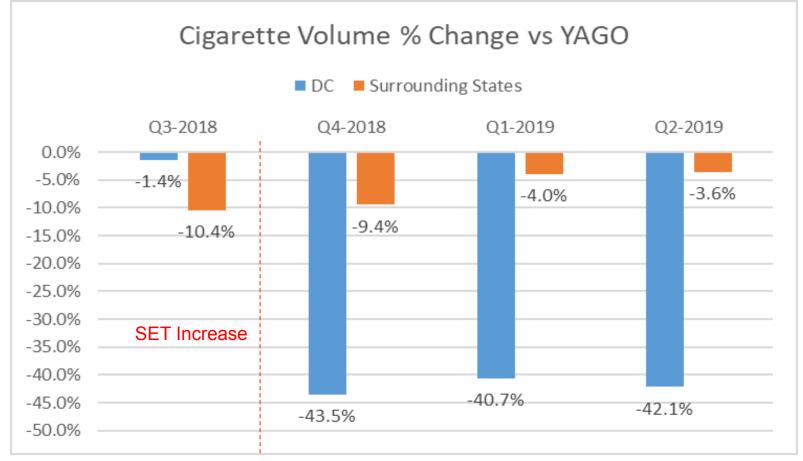


# **IMPACT OF SET INCREASES**



## SET Impact on Cigarettes in DC

In October 2018, DC increased the SET on cigarettes from \$2.50 to \$4.50 per pack (80% increase).



Surrounding States: MD and VA

# IMPACT OF CHANGES IN LEGAL TOBACCO PURCHASING AGE



# Age 21 Tobacco Restriction State Overview

#### Q2-2019 Volume Share -

States With Current or Future Age 21+ Restriction

	TOTAL INDUSTRY	CIGARETTES	VAPOR	MOIST
6 states with current 21+ restrictions	11%	11%	13%	6%
+11 states with 21+ restrictions planned within 2 years	34%	34%	42%	28%

#### Currently 21+

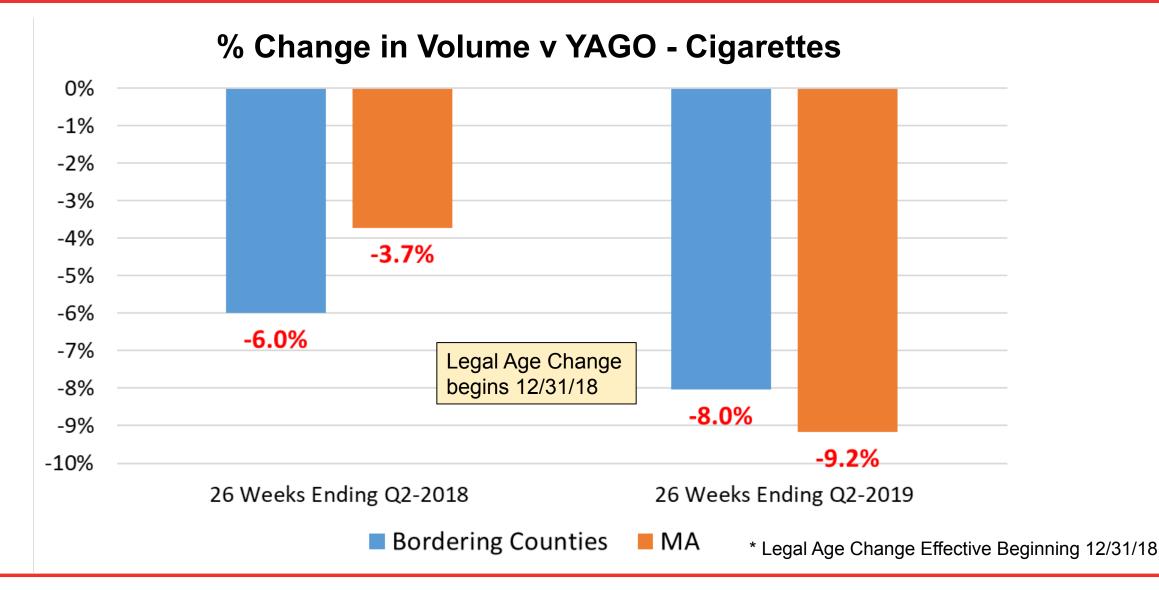
- Hawaii
- California
- New Jersey
- Oregon
- Maine
- Massachusetts

#### 21+ Within 2 Years

- D.C.
- Illinois
- Virginia
- Delaware
- Arkansas
- Texas

- Connecticut
- Maryland
- New York
- Washington
- Utah

#### Massachusetts Raises Legal Tobacco Sales Age to 21



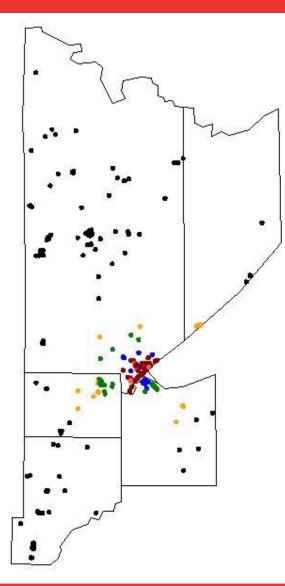
# **IMPACT OF FLAVOR AND VAPOR BANS**



#### **Duluth, Minnesota Flavored Tobacco Restriction**

- Effective June 1<sup>st</sup>, 2018, Duluth, Minnesota restricted the sale of flavored products to adult only smoke shops. Such items are:
  - Menthol Cigarettes
  - Wintergreen / Mint Moist Tobacco
  - Chocolate, Vanilla, Candy or Fruit Vapor Items
- Only stores that prohibit persons under the age of 18 from entering at all times AND derive at least 90% of their revenue from the sale of tobacco can sell flavored tobacco products.

#### **Duluth, Minnesota Flavored Tobacco Restriction**



- Red Flavored Products Banned (69 Stores)
- Light Red Less than 1 Mile (14 Stores)
- Blue Less than 5 Miles (29 Stores)
- Green Less than 10 Miles (32 Stores)
- Yellow Less than 25 Miles (20 Stores)
- Black Greater than 25 Miles (185 Stores)

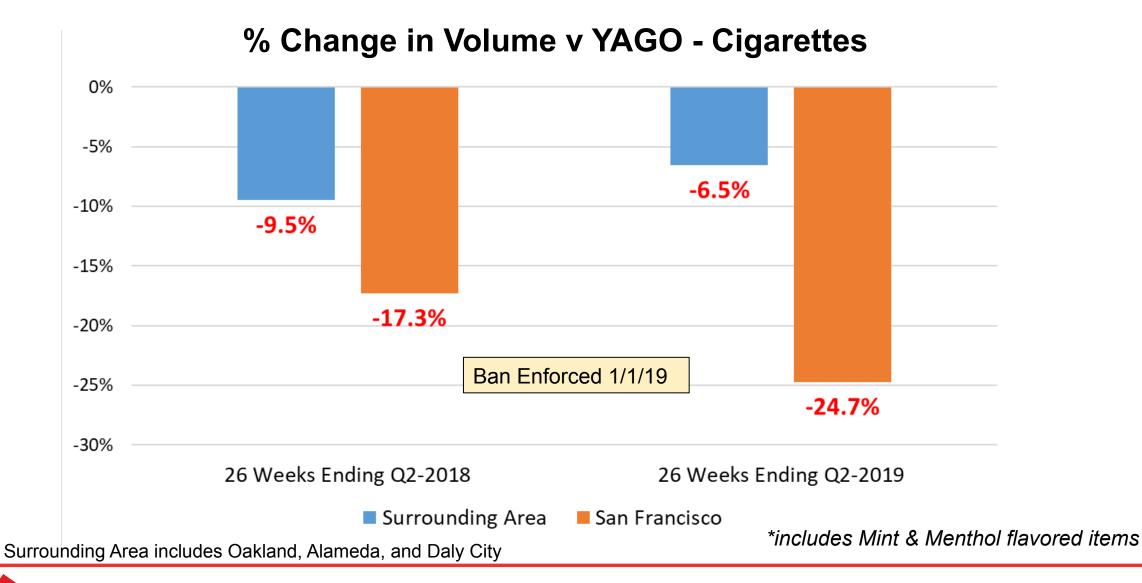


	<u>Total</u>	<b>Restricted Stores</b>	<u>&lt;= 1 Mile</u>	<u>&lt;= 5 Miles</u>	<= 10 Miles	<= 25 Miles	<u>&gt; 25 Miles</u>
Total	-5.6%	-28.0%	26.5%	-1.3%	1.2%	-4.2%	-2.8%
Non-Menthol	-4.2%	-9.1%	-4.7%	-4.9%	0.9%	-4.7%	-3.0%
Menthol	-11.0%	-99.1%	105.4%	10.7%	2.0%	-2.0%	-1.8%

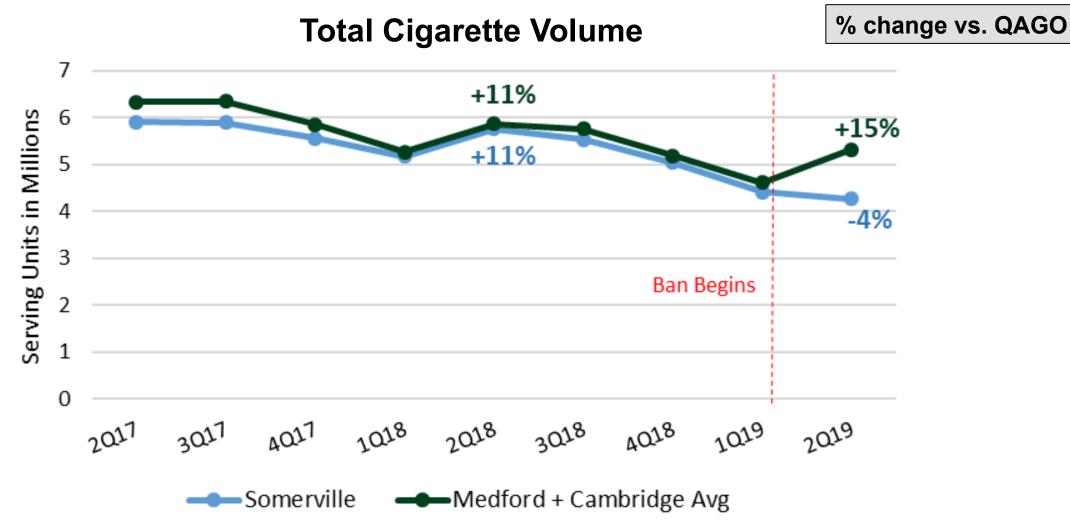
% Change in Volume (Jan '19 through June '19 vs. Jan '18 through June '18)

- Overall Cigarette volume decrease by 5.6% in the post time period, with a majority of the decrease from menthol cigarettes.
- While Menthol volume virtually went away in Restricted Stores, stores within 1 Mile and within 5 miles saw substantial increase in volume.

#### San Francisco Bans Sale of All Flavored Tobacco Products\*

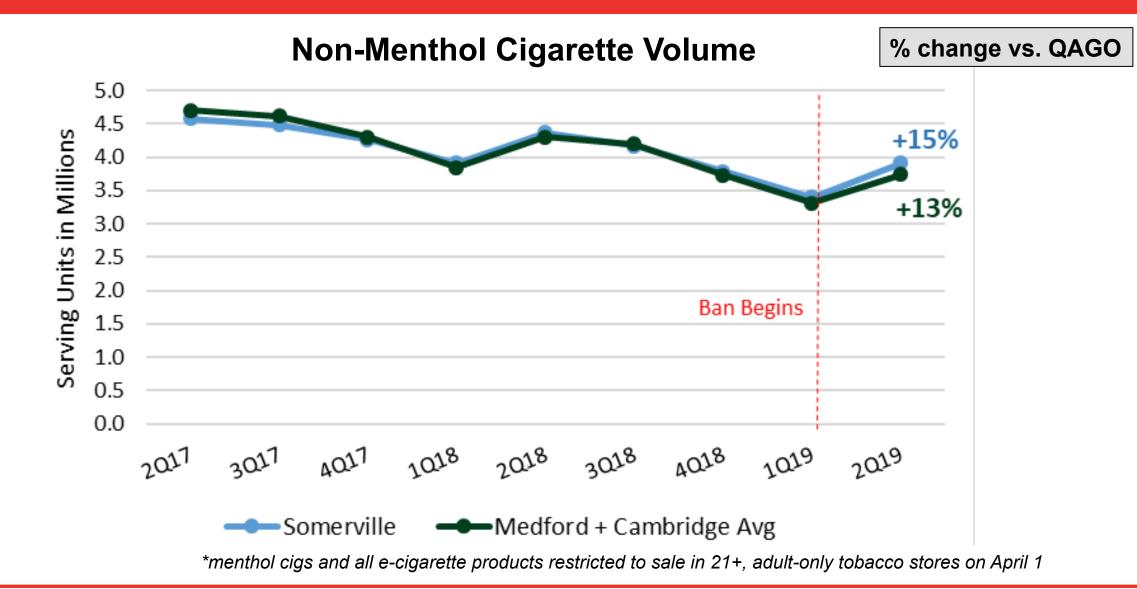


### Somerville, MA Ban of Menthol Cigs & All Vapor\*

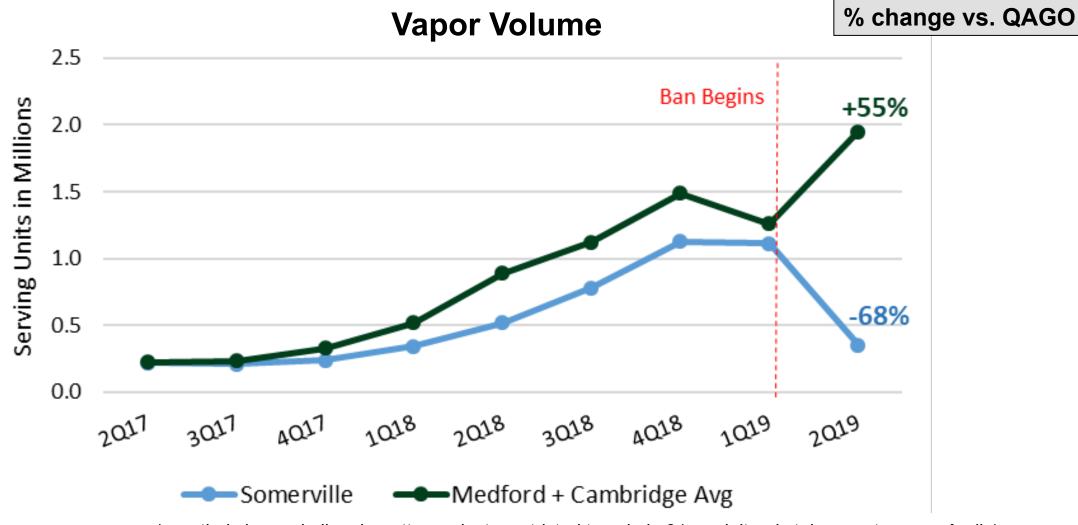


\*menthol cigs and all e-cigarette products restricted to sale in 21+, adult-only tobacco stores on April 1

### Somerville, MA Ban of Menthol Cigs & All Vapor\*



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\*menthol cigs and all e-cigarette products restricted to sale in 21+, adult-only tobacco stores on April 1

# Key Findings

- The nicotine category declined at a higher than usual 1.6%, but remains a key convenience category
- Cigarette sales approximately two times the unit volume of all other tobacco categories combined
- Super premium and deep discount cigarettes, large cigars, snus, modern oral, and vapor are growing categories
- Dollar Stores continue to grow their tobacco business
- Manage inventory/SKU quantities based on local/state regulations