



# MINING FOR GOLD: BDSA MARKET OUTLOOK, KEY INSIGHTS, AND WAYS TO WIN

Elisabeth Stahura | COO

# **BDSA PROVIDES A COMPLETE VIEW OF THE GLOBAL CANNABIS MARKET OF TODAY **AND** TOMORROW**



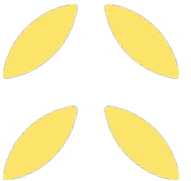
## **RETAIL SALES TRACKING**

Know exactly what is selling where, when, and at what price point



## **MARKET FORECASTS**

Gain a comprehensive understanding of market size and future opportunity



## **CONSUMER INSIGHTS**

Understand consumer (and non-consumer) segments, sizing, behavior, consumption patterns, purchase habits, and more



# STATE OF THE CANNABIS INDUSTRY



# THE CANNABIS INDUSTRY IS AT A TURNING POINT



Economic Inflation



Price Compression

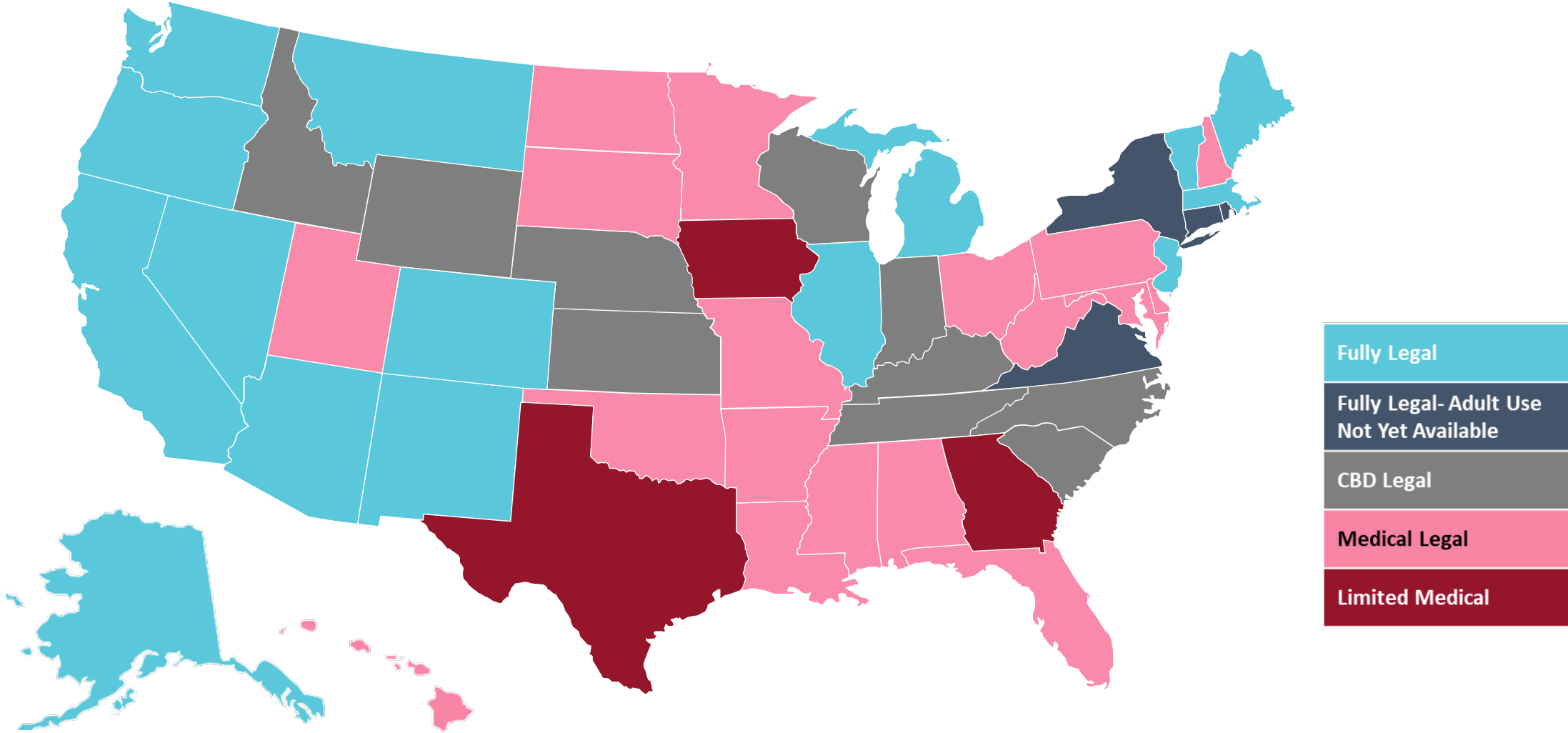
Regulatory  
Uncertainty



Reliance on  
Promotions

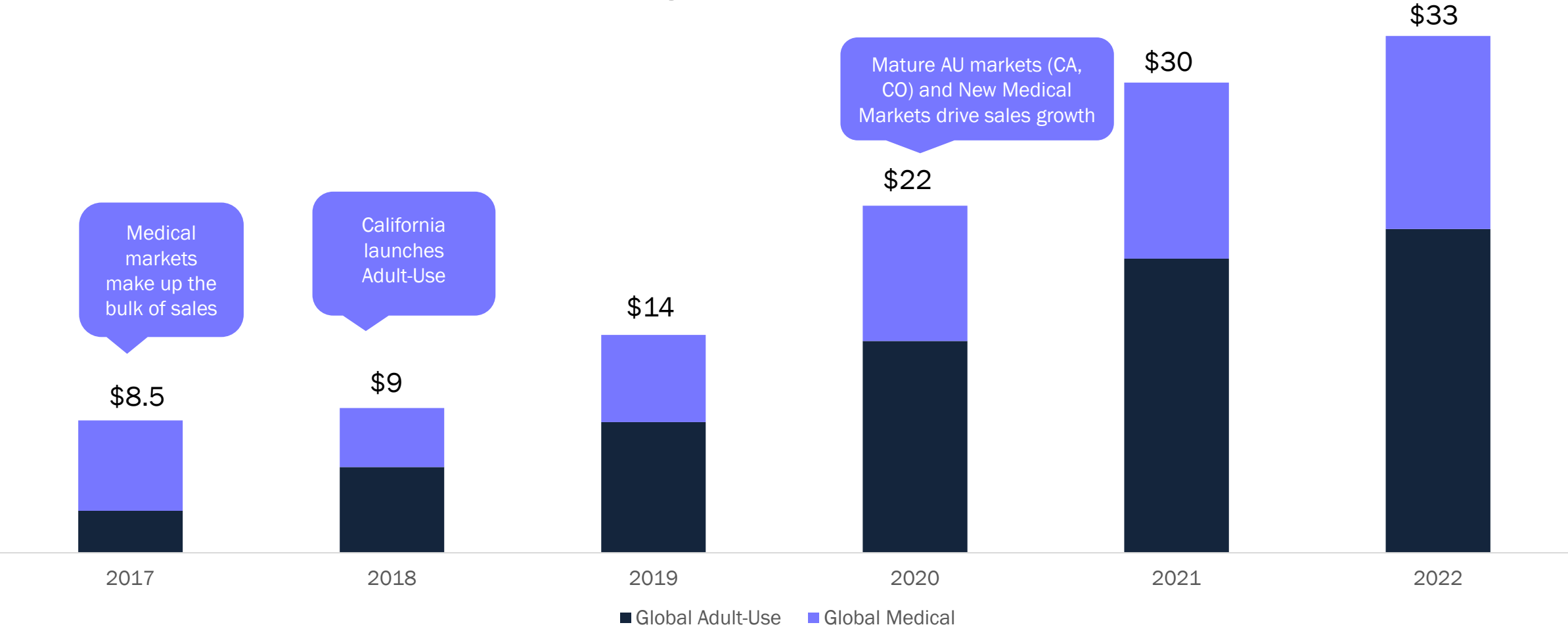


# REGULATIONS LOOSENING ACROSS THE US (SEGMENTS AS OF SEPT 2022)



# PAST GROWTH WAS DRIVEN INITIALLY BY US MEDICAL, THEN ADULT-USE MARKETS

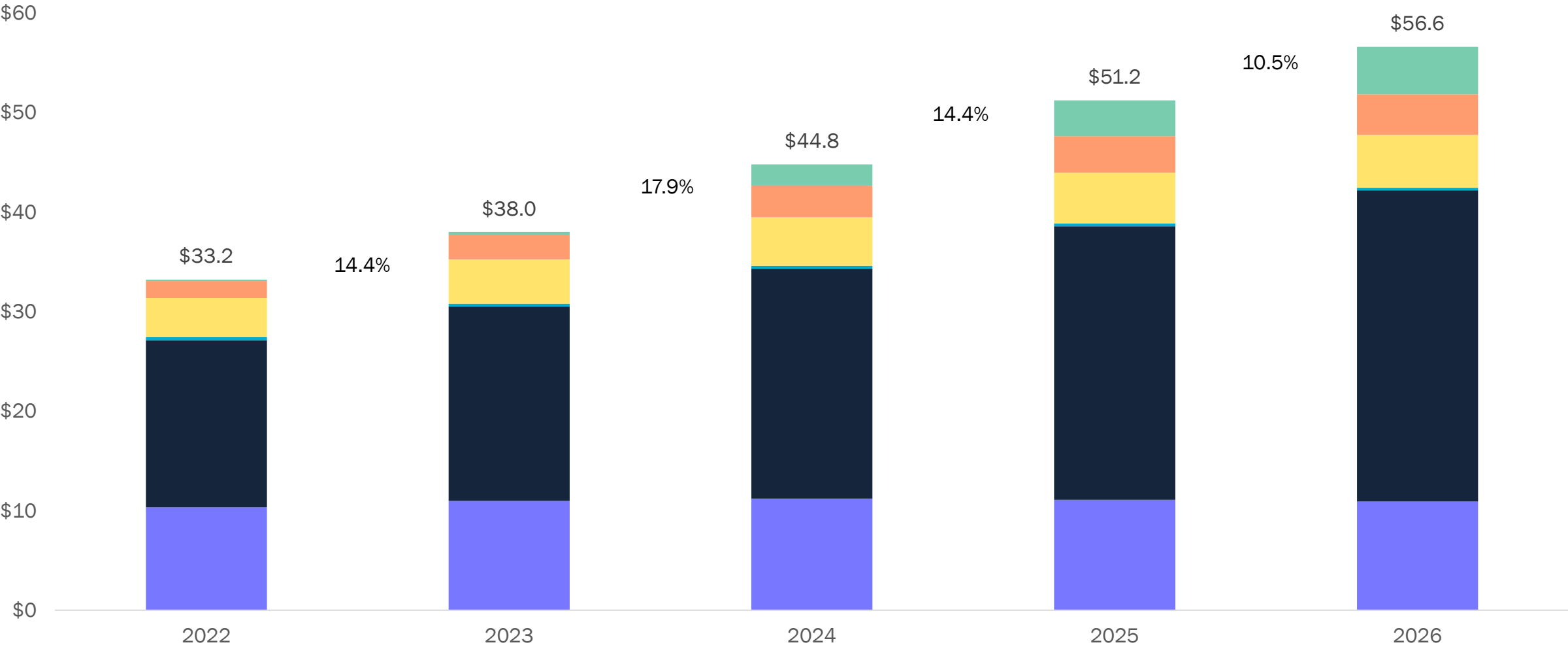
BDSA Global Legal Cannabis Sales (USD, Billions)



Source: BDSA Forecast, Historical Global sales, updated September 2022

# WORLDWIDE LEGAL SPENDING

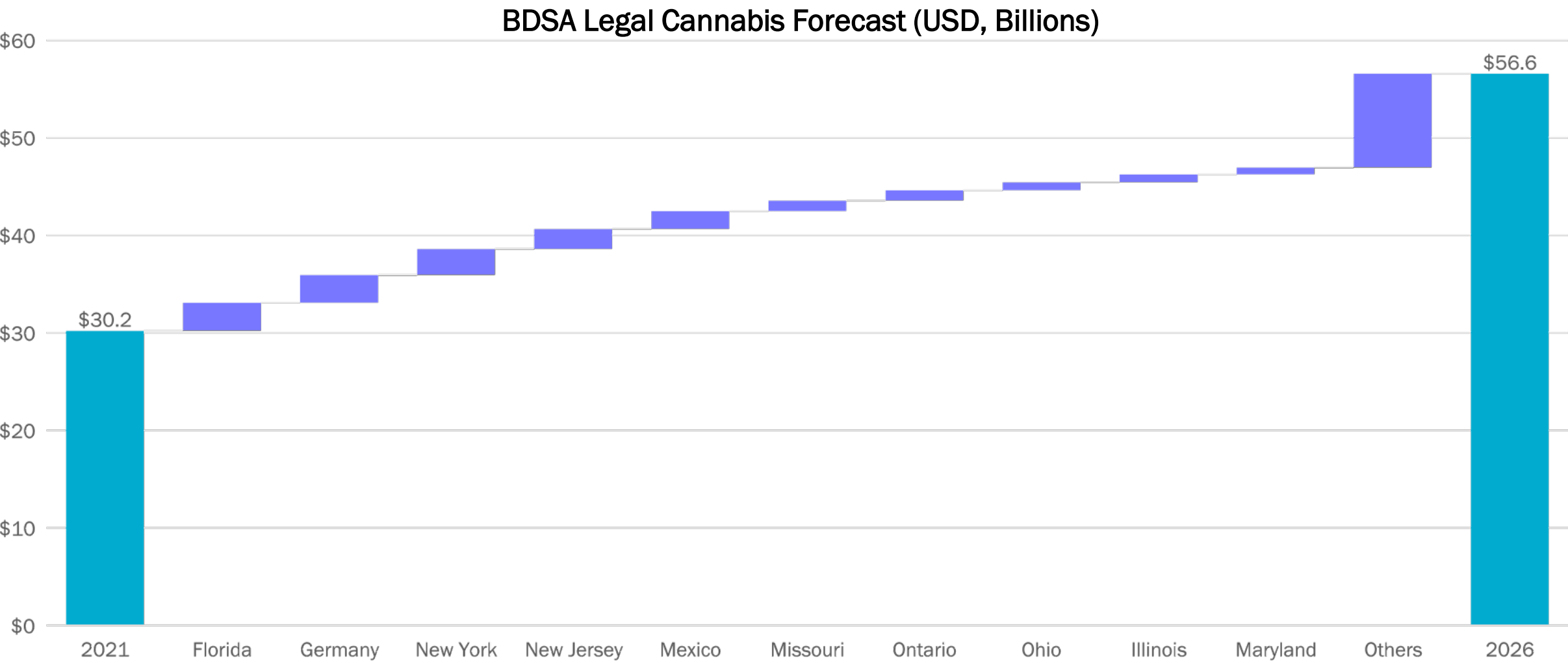
BDSA Global Legal Cannabis Forecast (USD, billions)



Source: BDSA

US Medical US Adult Use Canada Medical Canada Adult Use International Medical International Adult Use

# TOP TEN CONTRIBUTORS TO GROWTH

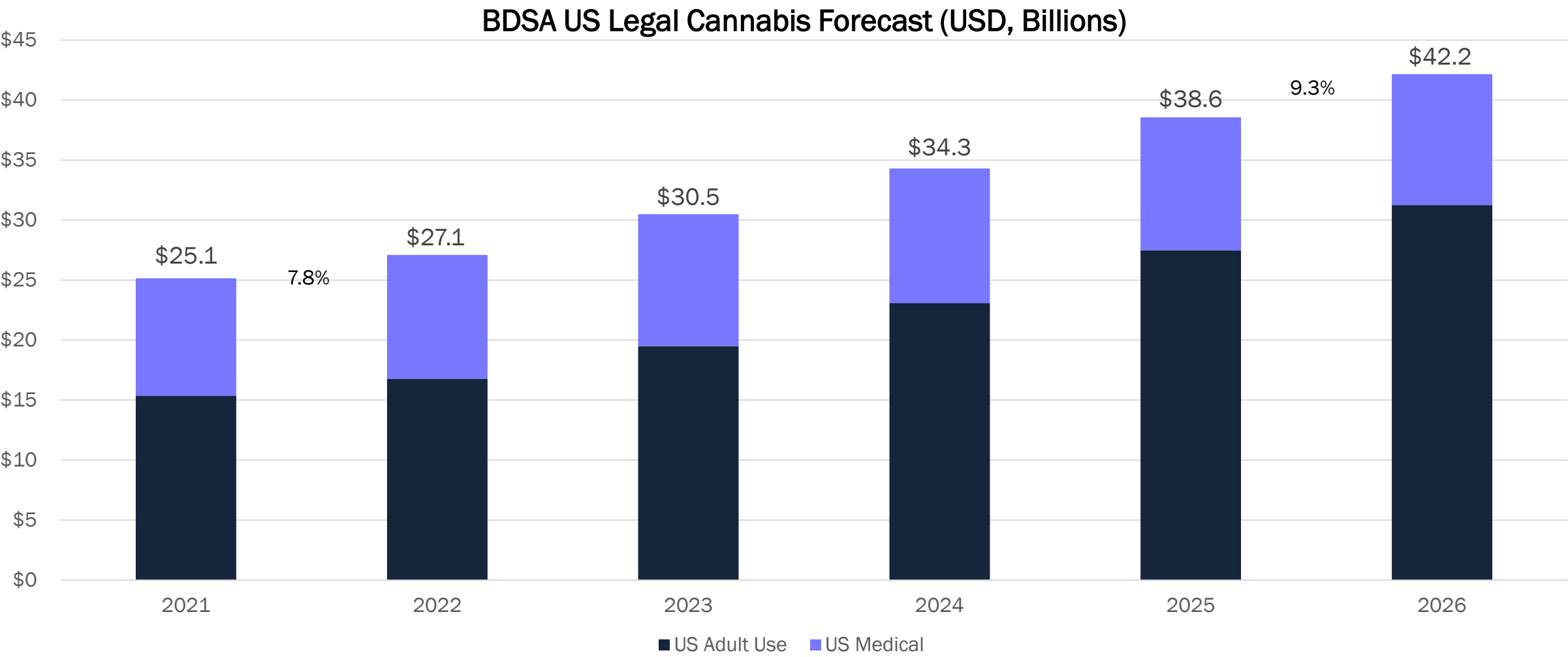


Source: BDSA



# US LEGAL SPENDING

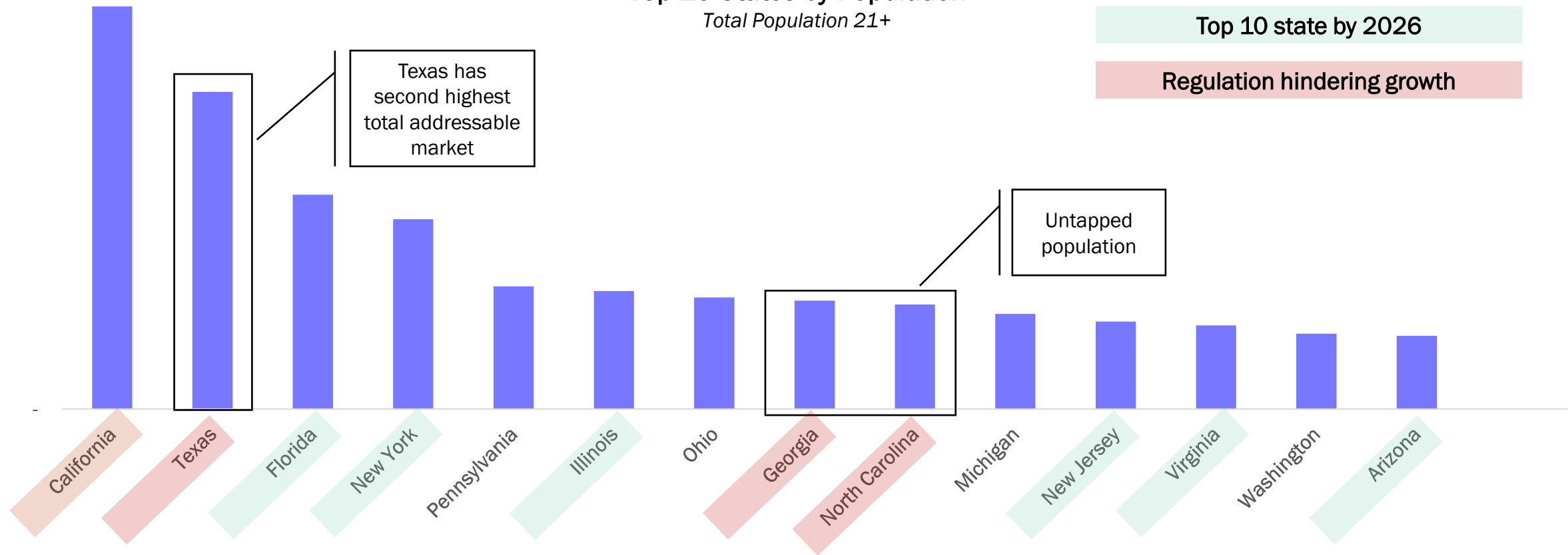
'21-'26 CAGR  
11%



Source: BDSA

# WHAT IF REGULATION WASN'T A FACTOR?

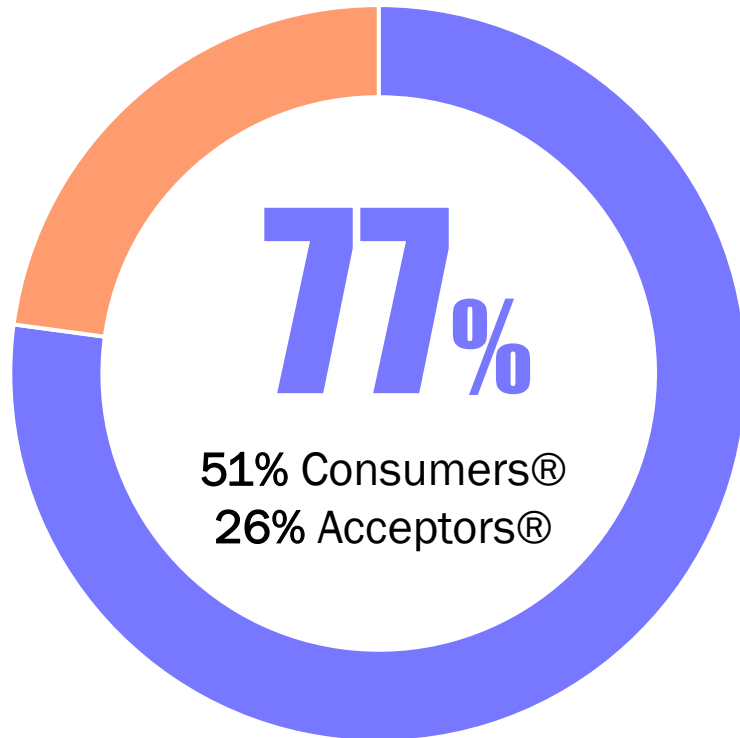
Top 15 States by Population  
*Total Population 21+*



Source: BDSA Forecast, as of September 2022

# IN FULLY LEGAL STATES, >75% OF ADULTS ARE “BOUGHT IN” TO CONSUMING

Agg. Adult Use States  
(Level 1)



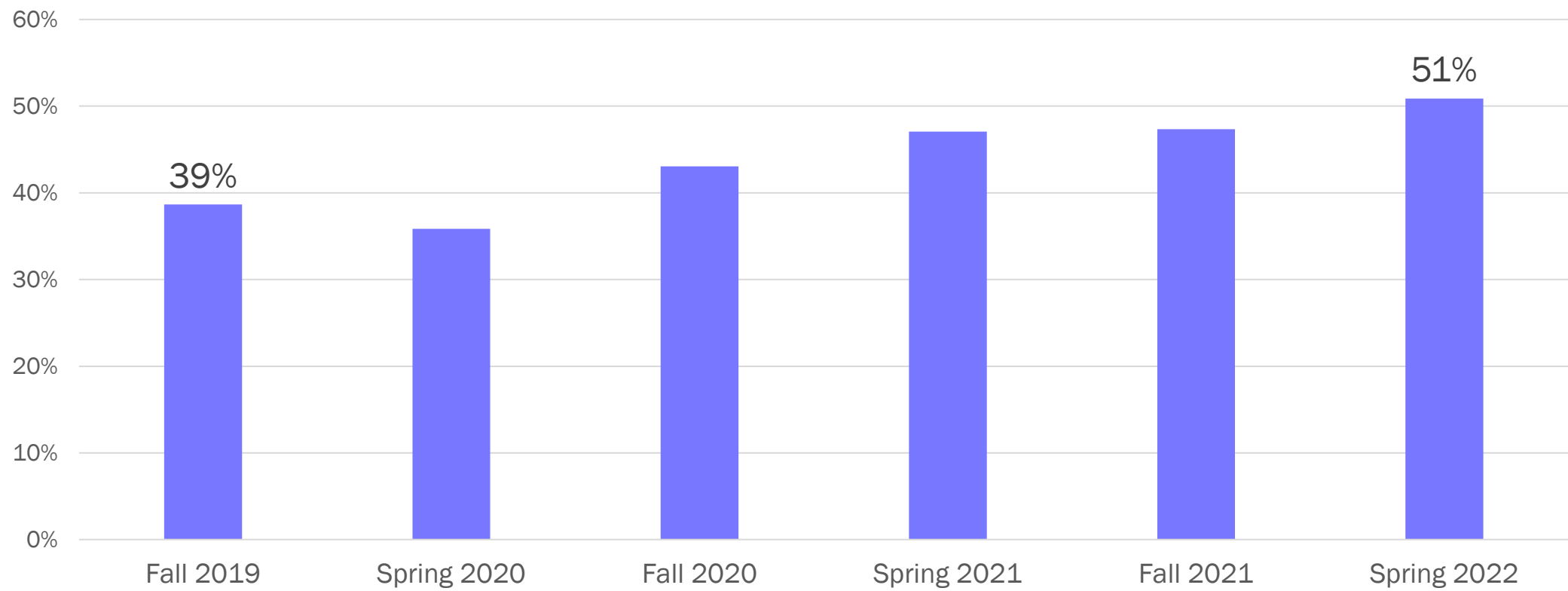
**...of adults 21+ in fully legal U.S. states consumed cannabis in the past 6 months or are open to consuming cannabis**

**23%** are Rejecters®  
(would not consider in the future)

Source: BDSA Consumer Research: Spring 2022 Wave 10 – Aggregate L1 Adults +21

# MORE THAN HALF OF ADULTS IN ADULT-USE STATES HAVE CONSUMED CANNABIS IN THE PAST 6 MONTHS.

Trended – AU State Cannabis P6M Consumer Penetration

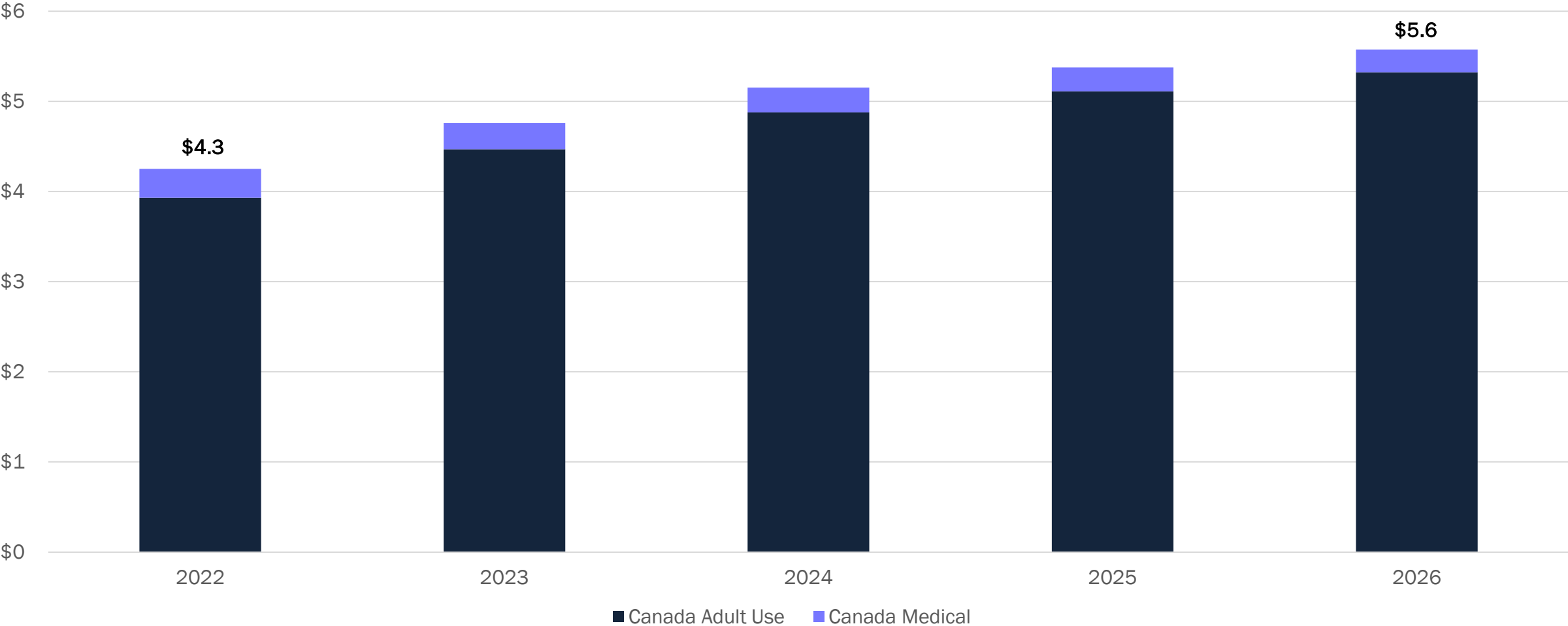


Source: BDSA Consumer Research: 1H 2018- 2H 2021 U.S. Adults 21+ in Legal Level 1 States

# CANADA LEGAL SPENDING

'22-'26 CAGR  
7%

BDSA Canada Legal Cannabis Forecast (USD, Billions)

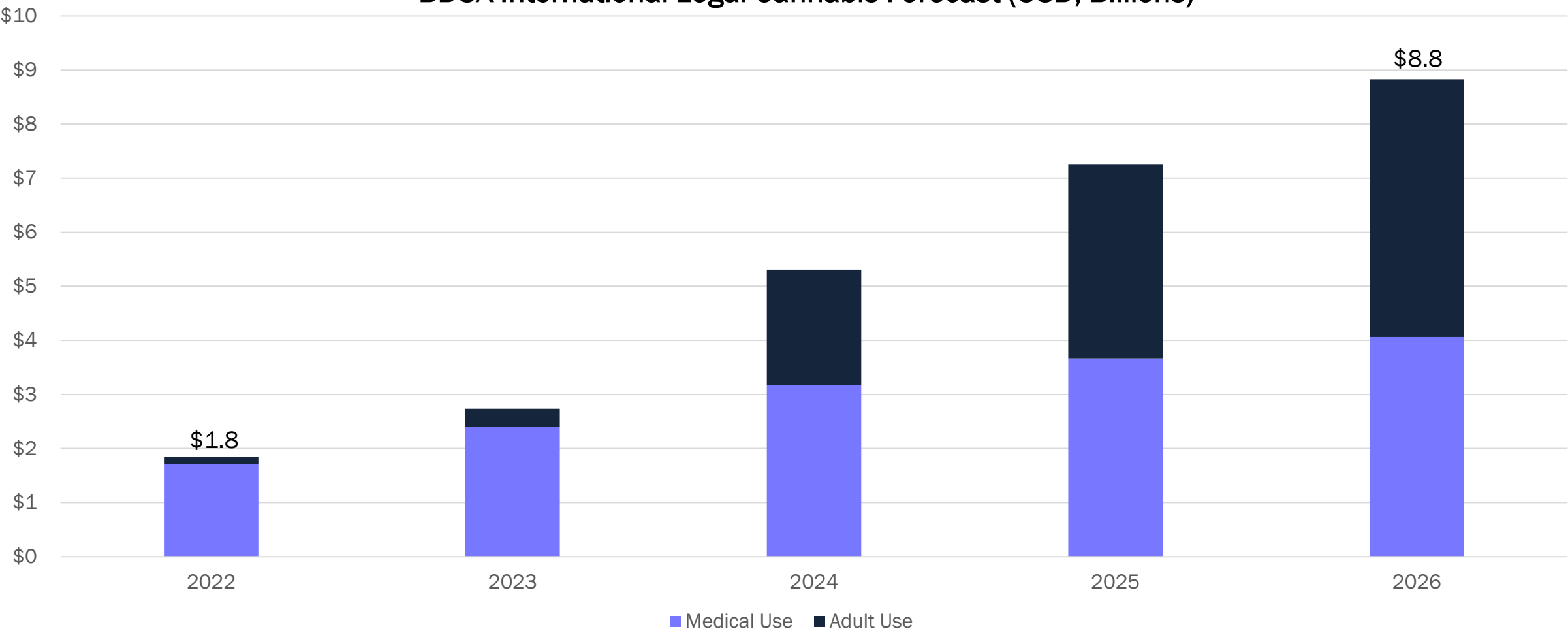


Source: BDSA

# INTERNATIONAL LEGAL SPENDING (EXCLUDING US AND CANADA)

'22-'26 CAGR  
48.7%

BDSA International Legal Cannabis Forecast (USD, Billions)

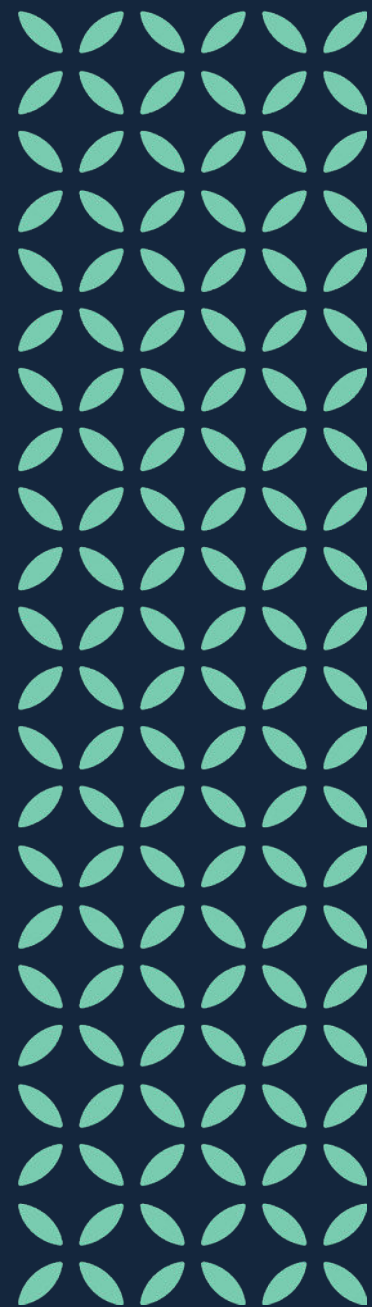


Source: BDSA  
**Note:** International excludes US and Canada

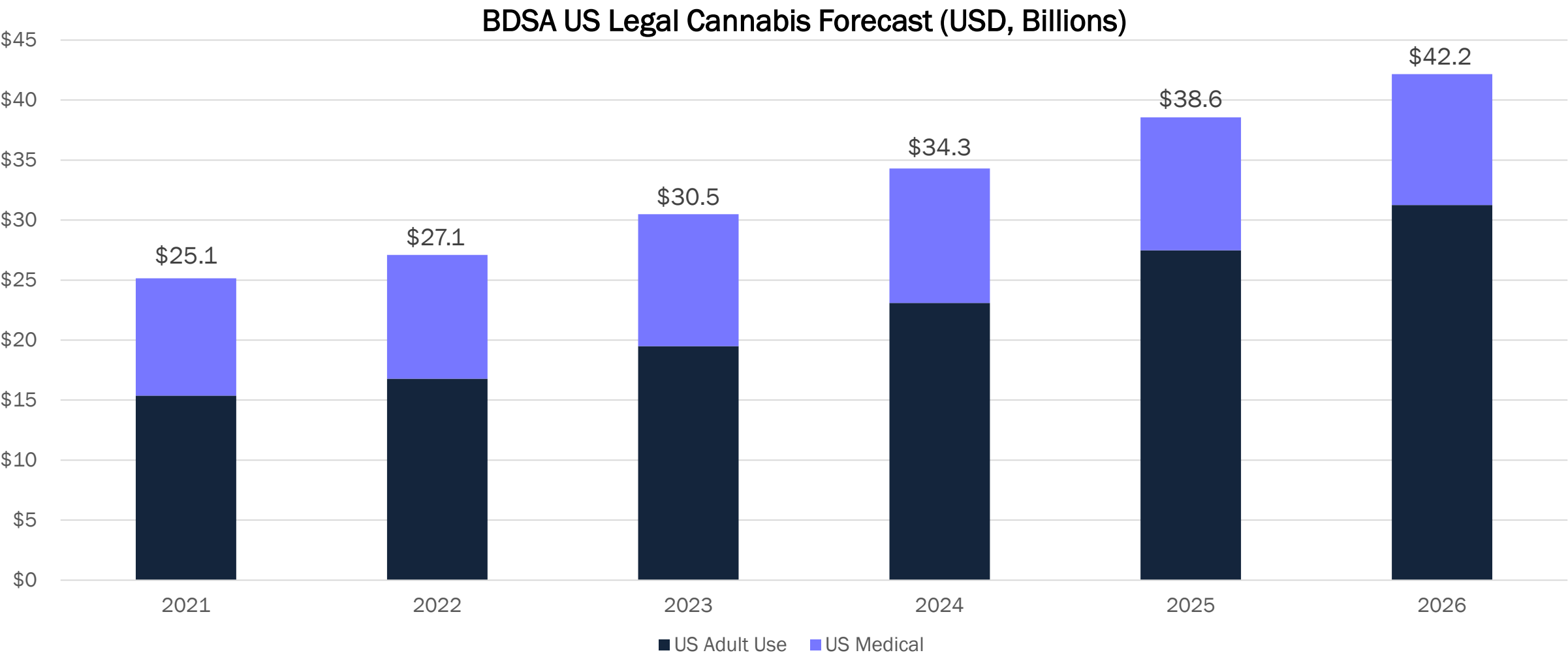




# **US OUTLOOK: EMERGING MARKETS DRIVING GROWTH**



# US LEGAL SPENDING



Source: BDSA



# WHAT DEFINES A MATURE, NEW AND EMERGING CANNABIS MARKET?

**MATURE** cannabis markets were early movers in legal cannabis, had long established medical programs, and grew through 2021

**NEW** Adult-Use and Medical markets that are more recent entries and have established industries and are developing at an ever-increasing rate

**EMERGING** cannabis markets have recently legalized, and are expected to yield major contributions to BDSA's forecasted market growth out to 2026

Colorado	Illinois	New York
California	Massachusetts	Connecticut
Oregon	Michigan	Maryland
Washington	New Jersey	Virginia

# FORECAST MARKET LAUNCH DATES (RETAIL SALES)

## MEDICAL

## ADULT-USE

2022

Georgia, Mississippi,  
South Dakota, D.C. \*

Guam, Montana, **New Jersey**, New  
Mexico, **New York**, Vermont

2023

Alabama, Kentucky, North Carolina, South  
Carolina,

Connecticut, Delaware,  
Missouri, Rhode Island

2024

Idaho, Kansas, Nebraska

Maryland,  
North Dakota,  
South Dakota, Virginia

2025

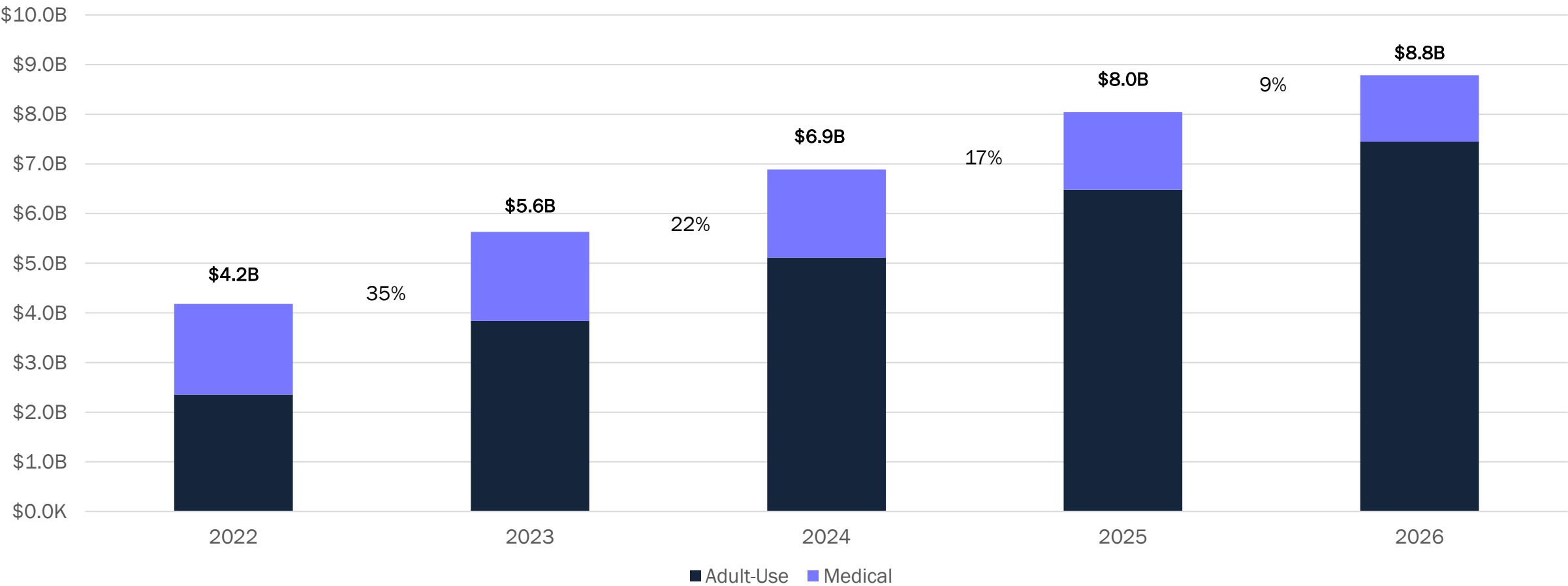
Florida, Ohio, Pennsylvania

2026

Wyoming

# CANNABIS EXPANSION IN EASTERN US

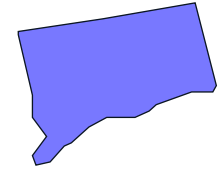
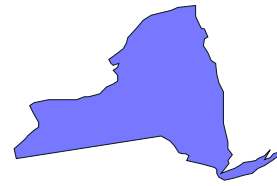
MA, NJ, NY, PA Combined Legal Cannabis Sales by Channel (USD, Billions)



Source: BDSA Market Forecast

# REGIONAL REGULATION & IMPLICATIONS

- Markets will struggle with supply during ~6-12 months of roll-out
- High prices are expected as limited structural access and competition from illicit markets challenge sales
- Markets will require indoor cultivation contributing to higher prices than outdoor-viable markets
- Tighter regulations and limited access may blunt initial sales until states expand retail footprints

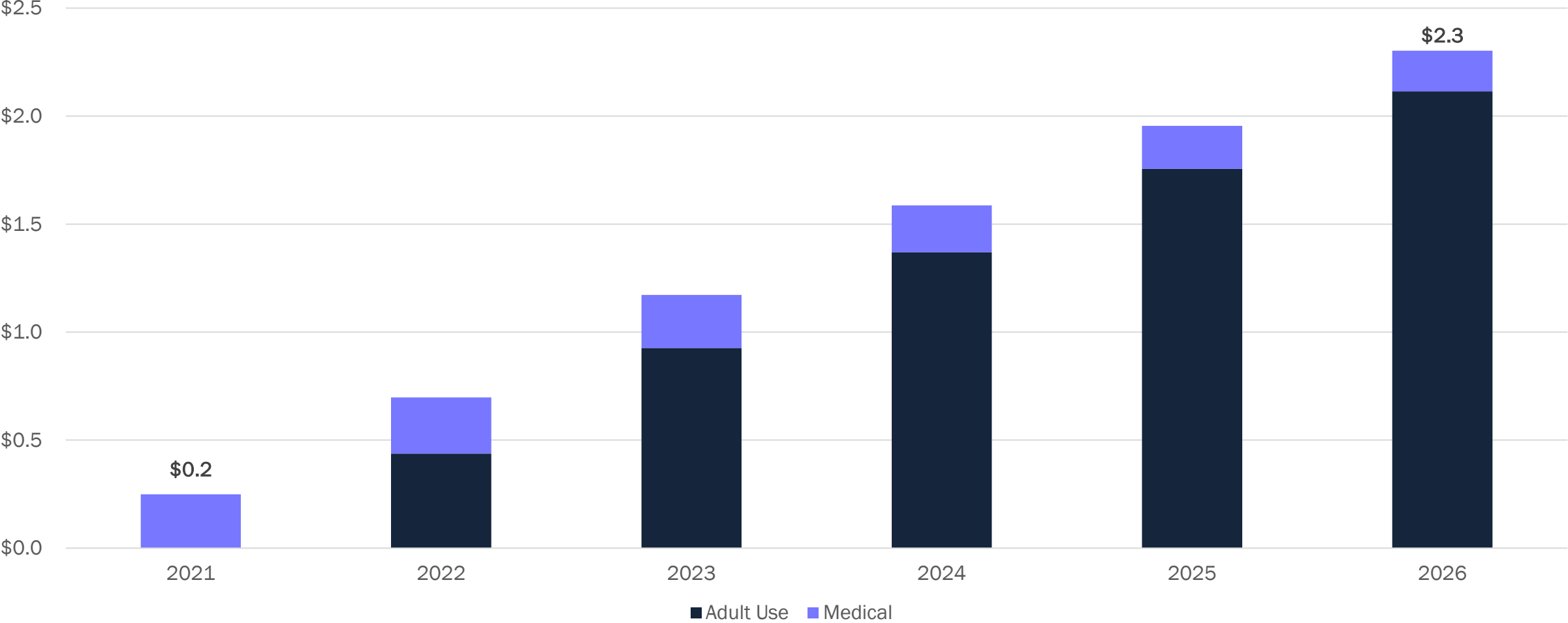


	New York	New Jersey	Connecticut
<b>Retail Opens</b>	Late 2022	April 22	Early 2023
<b>Home Cultivation</b>	6 plants	None	7/1/23 - 6 plants / person; 12 plants / household
<b>Weight Limits</b>	3 oz flower, 24 grams concentrate	1 oz	up 6.5 oz cannabis or equivalent amount concentrates
<b>Consumer Sales Tax</b>	9% state, 4% local	7%	~20% (6.35% state, 3% municipal, ~10 - 15% of sale / THC content)
<b>License Prioritization</b>	Minority / women-owned businesses, applicants from communities disproportionately impacted by cannabis enforcement, distressed farmers, service-disabled Vets	Minority / women-owned businesses, businesses located in "economically distressed areas"	Reserve 50% of applications for eligible license types for "social equity applicants"
<b>Cultivator License Caps</b>	None - but individuals can't hold retail license or distribution license	37 (expires 02/23)	None - but applicants can only get approval for one license type

# US LEGAL SPENDING: NEW JERSEY

'21-'26 CAGR  
56%

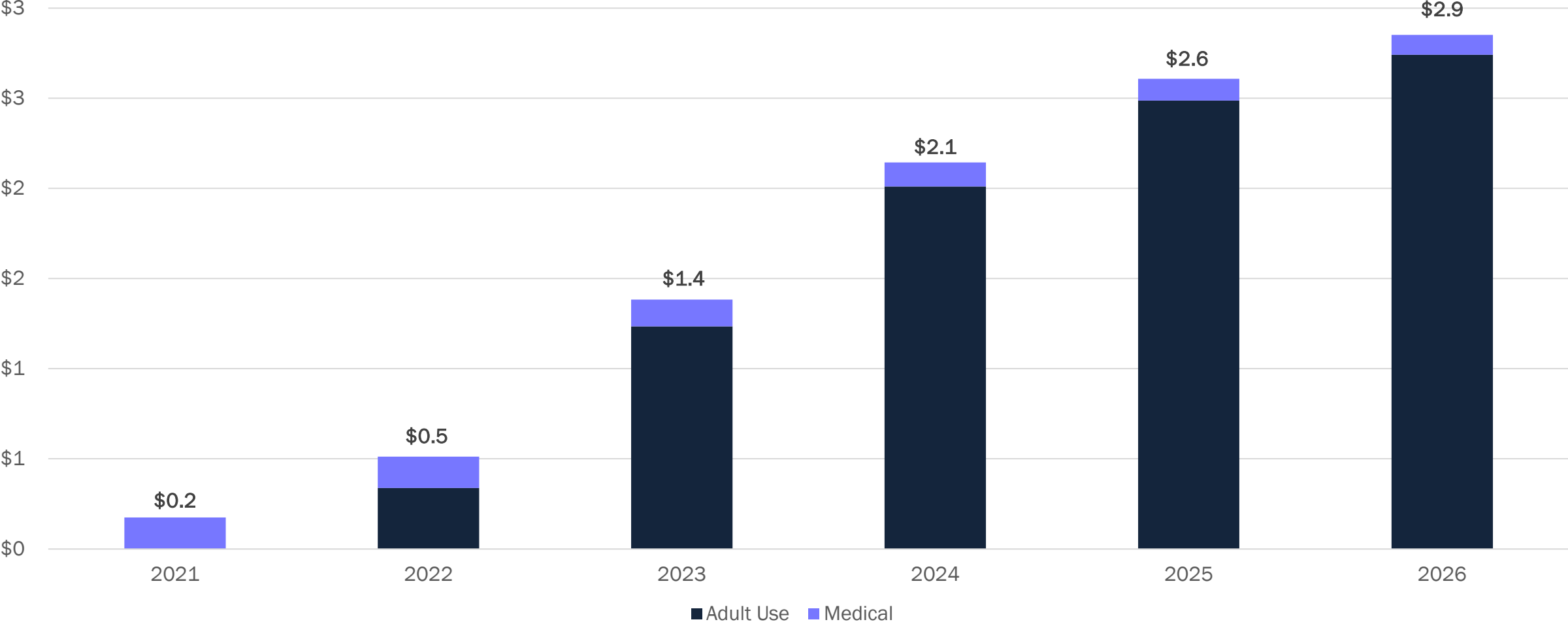
BDSA New Jersey Legal Cannabis Forecast (USD, Billions)



Source: BDSA

# US LEGAL SPENDING: NEW YORK

BDSA New York Legal Cannabis Forecast (USD, Billions)

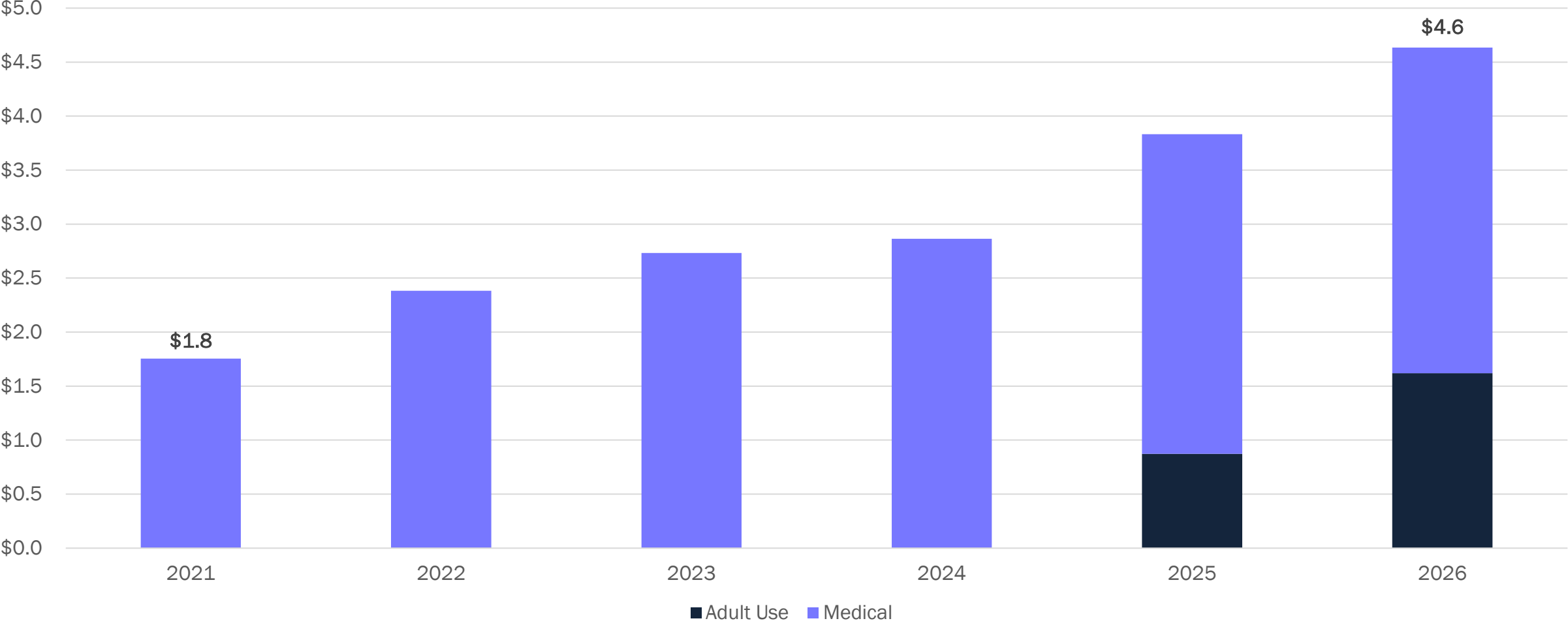


Source: BDSA

# US LEGAL SPENDING: FLORIDA

BDSA Florida Legal Cannabis Forecast (USD, Billions)

'21-'26 CAGR  
21.4%

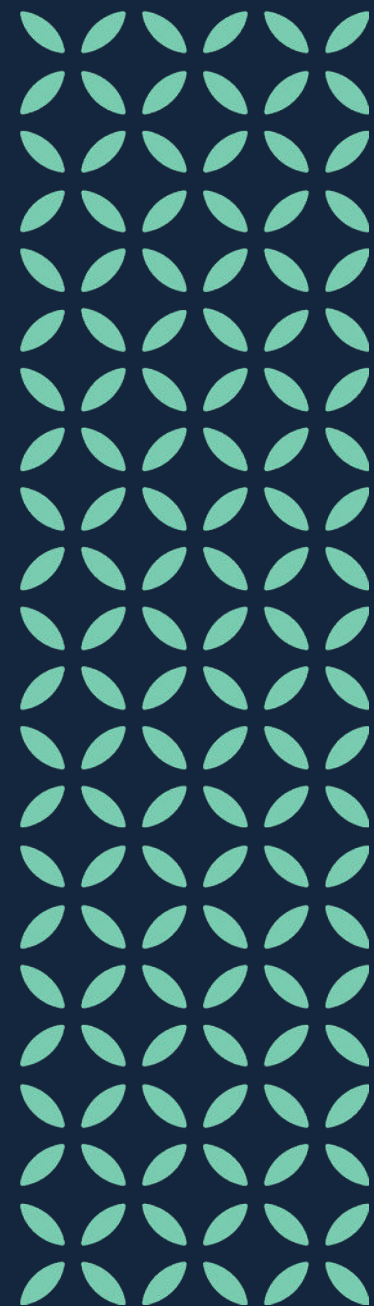


Source: BDSA





## **US OUTLOOK: MATURE MARKET CHALLENGES**

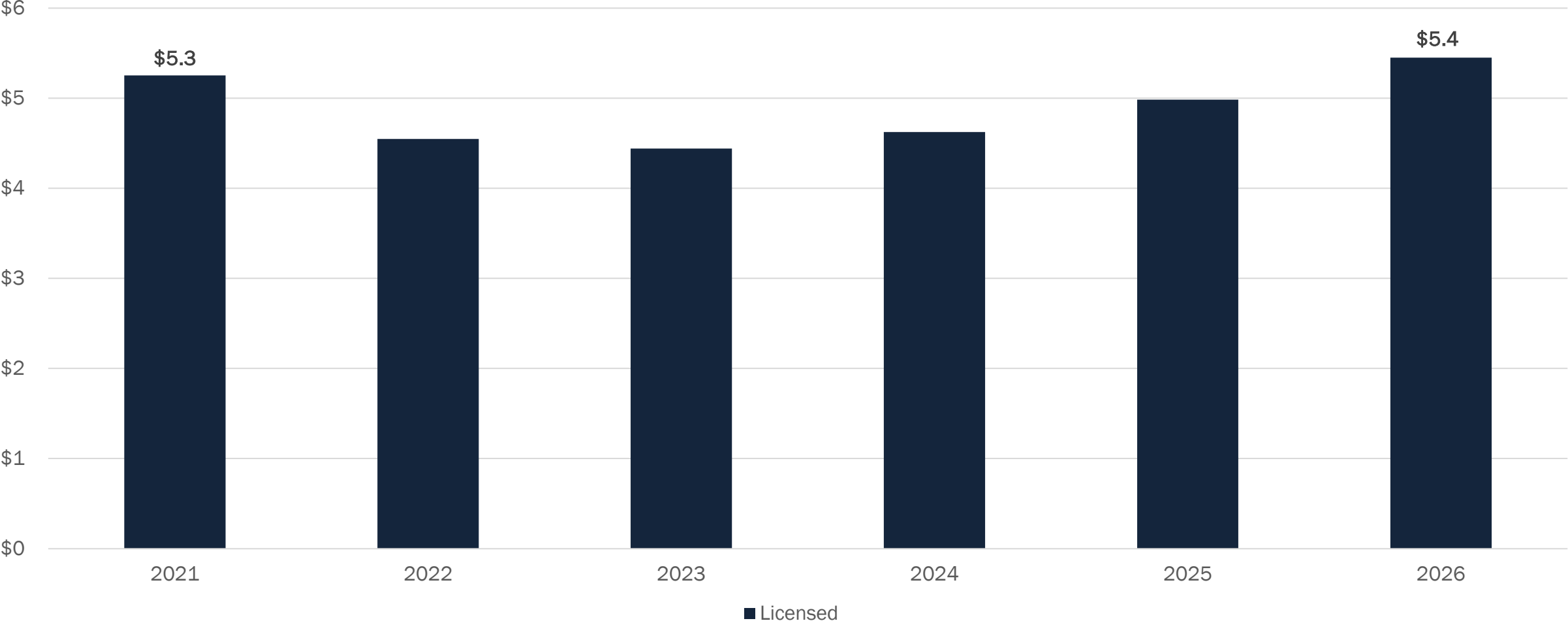




# US LEGAL SPENDING: CALIFORNIA

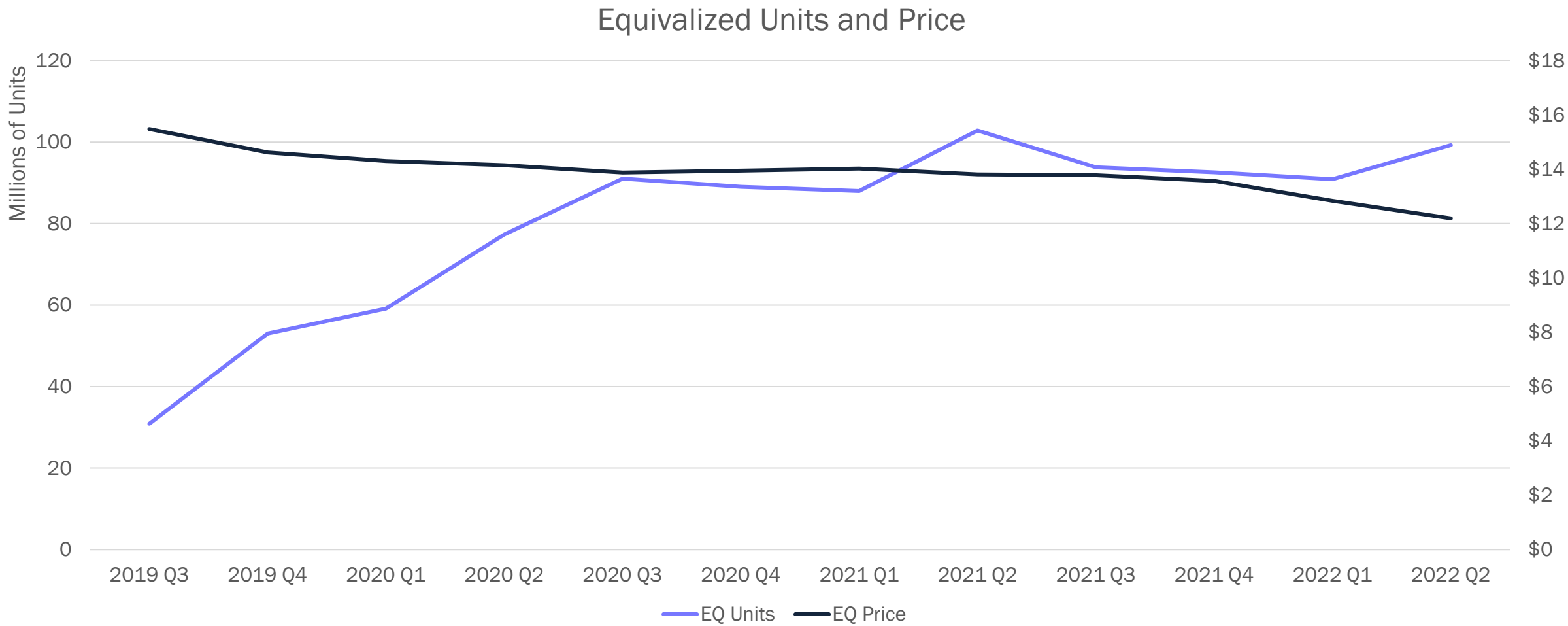
BDSA California Legal Cannabis Forecast (USD, Billions)

'21-'26  
CAGR 0.7%



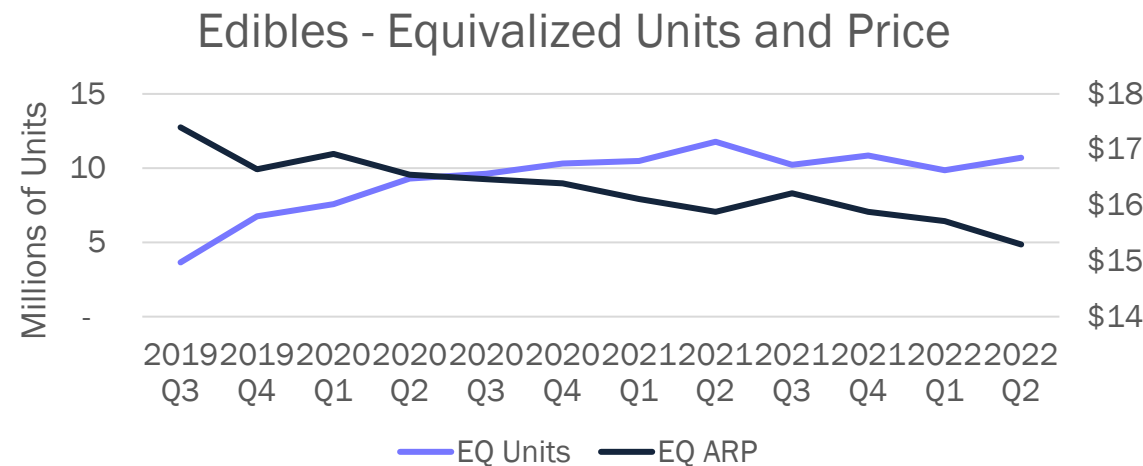
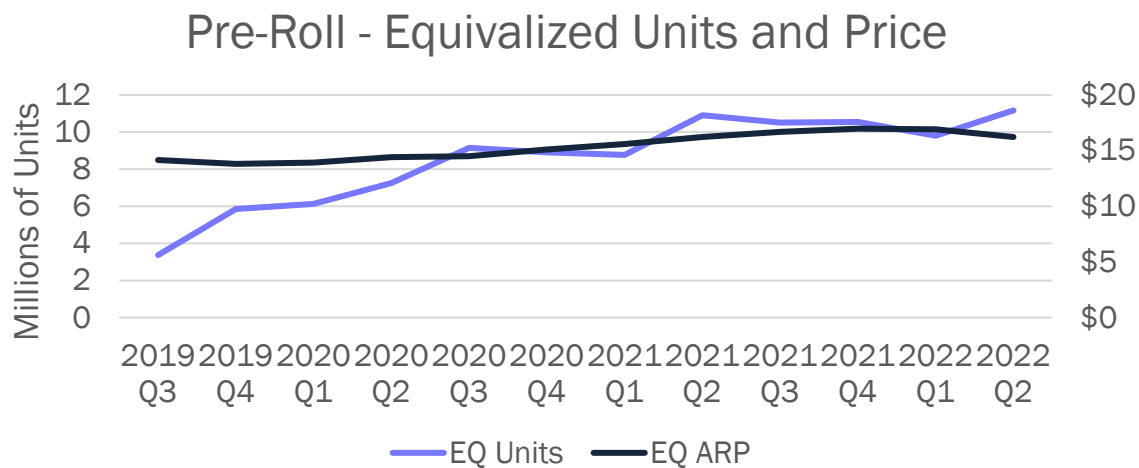
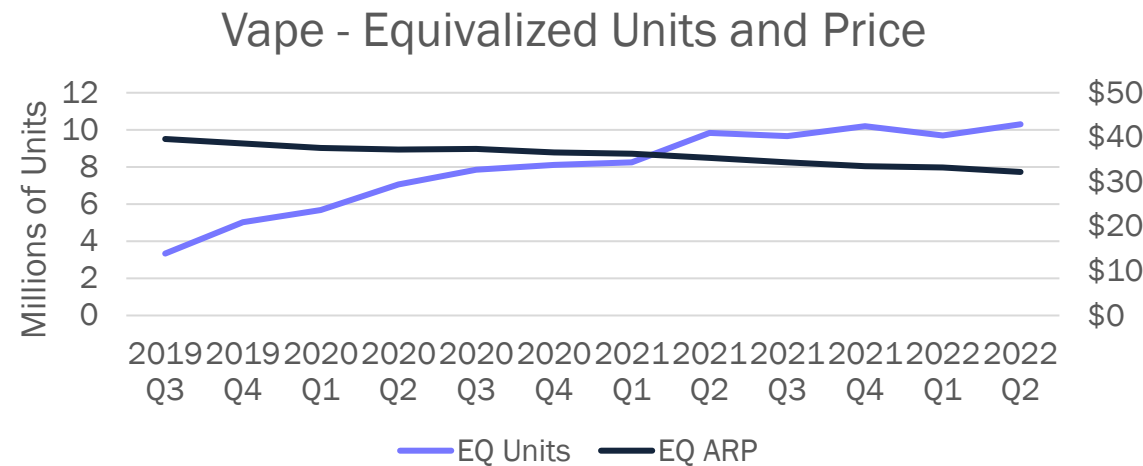
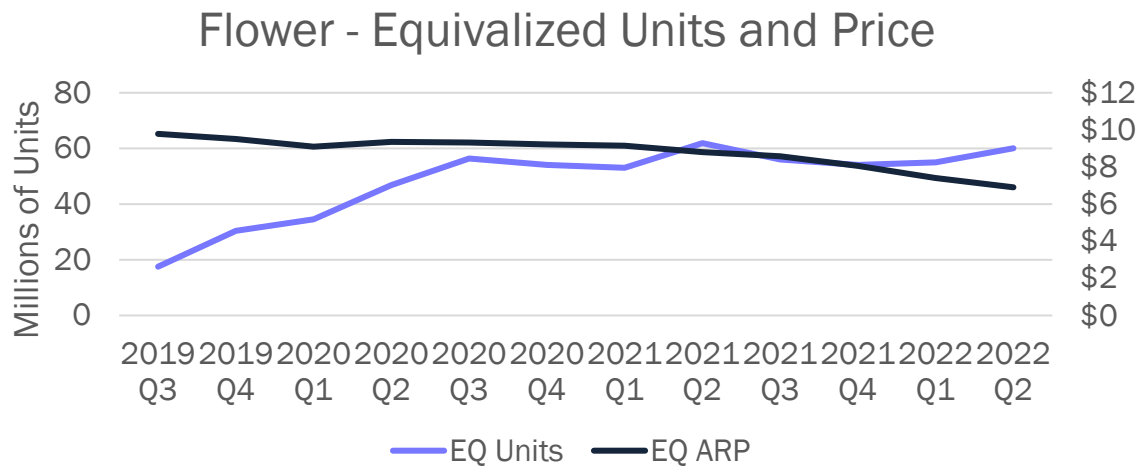
Source: BDSA

# CALIFORNIA - AGGREGATE VOLUME AND PRICING



Source: BDSA

# CALIFORNIA – KEY CATEGORY VOLUME AND PRICING

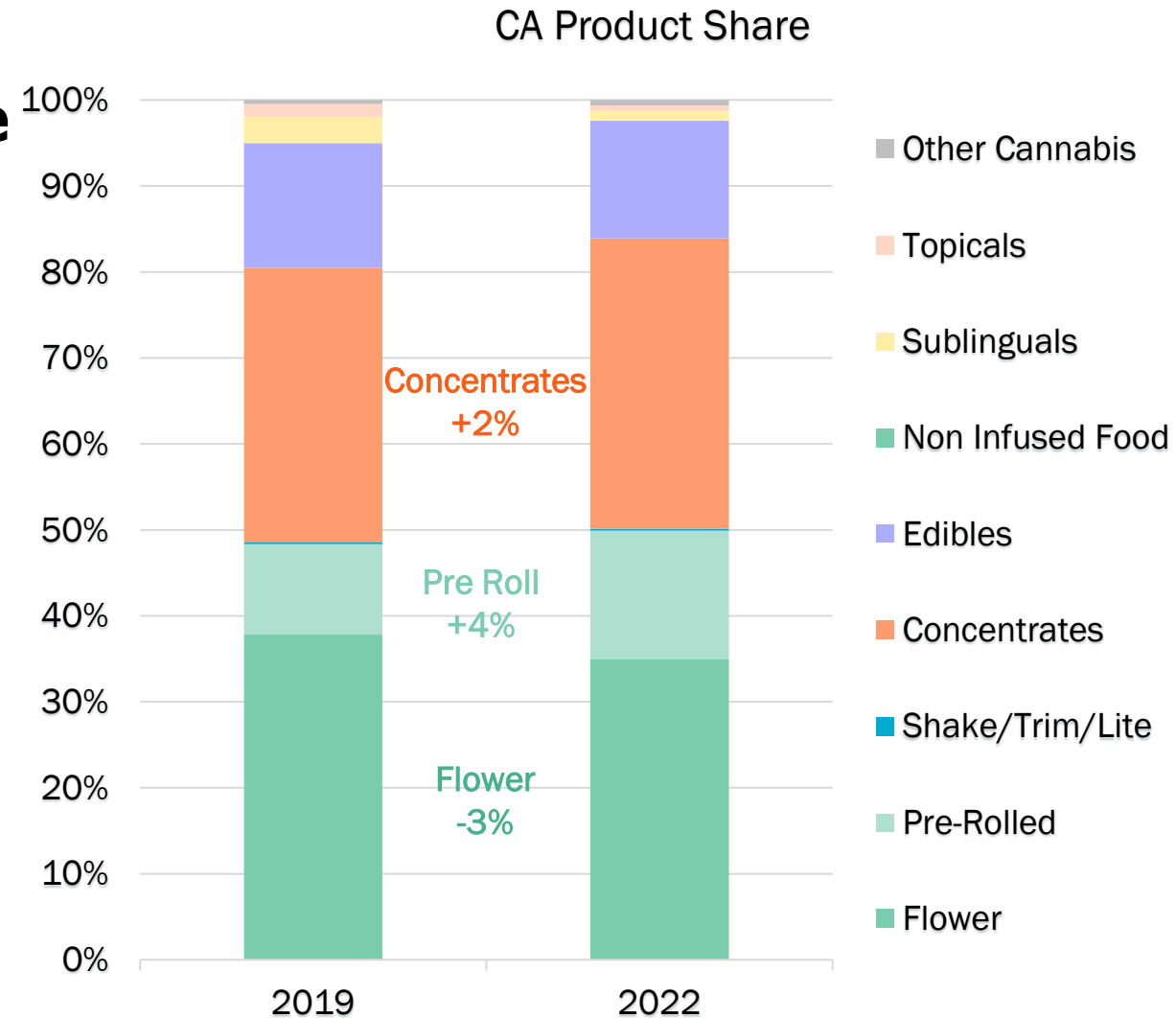


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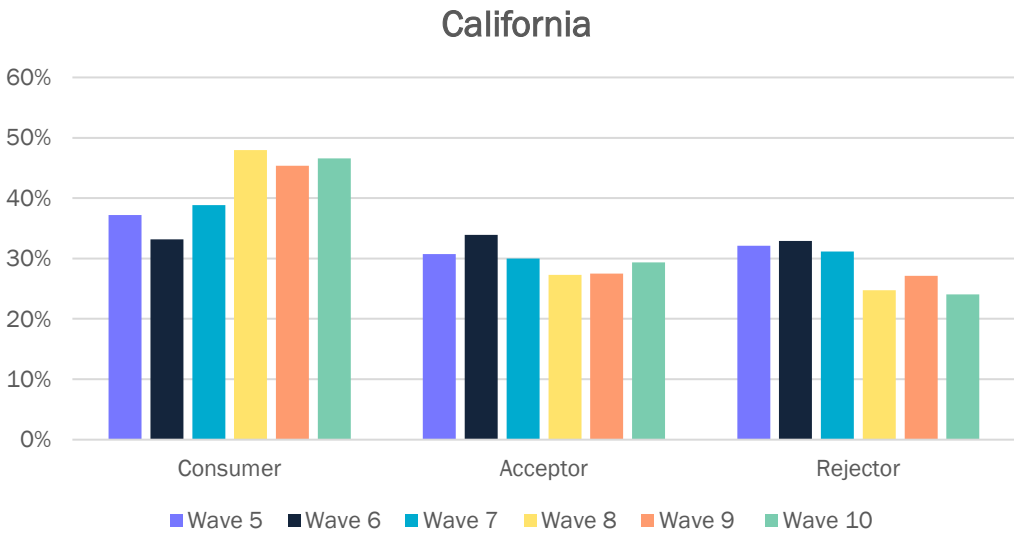
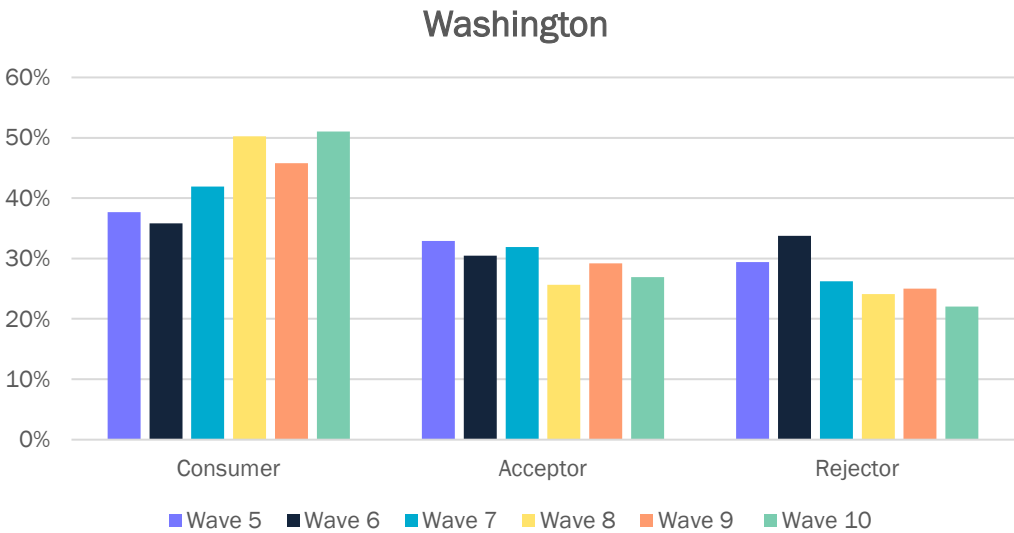
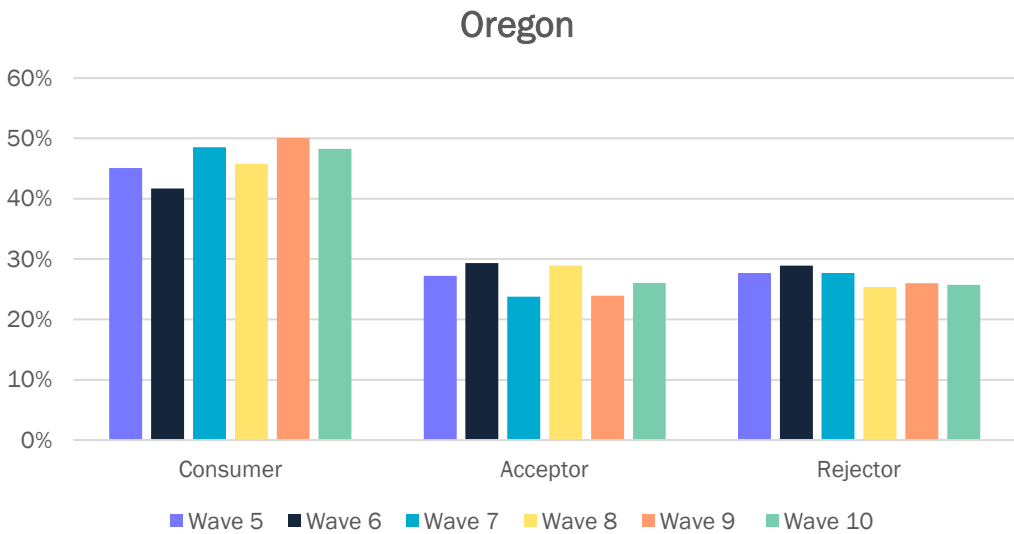
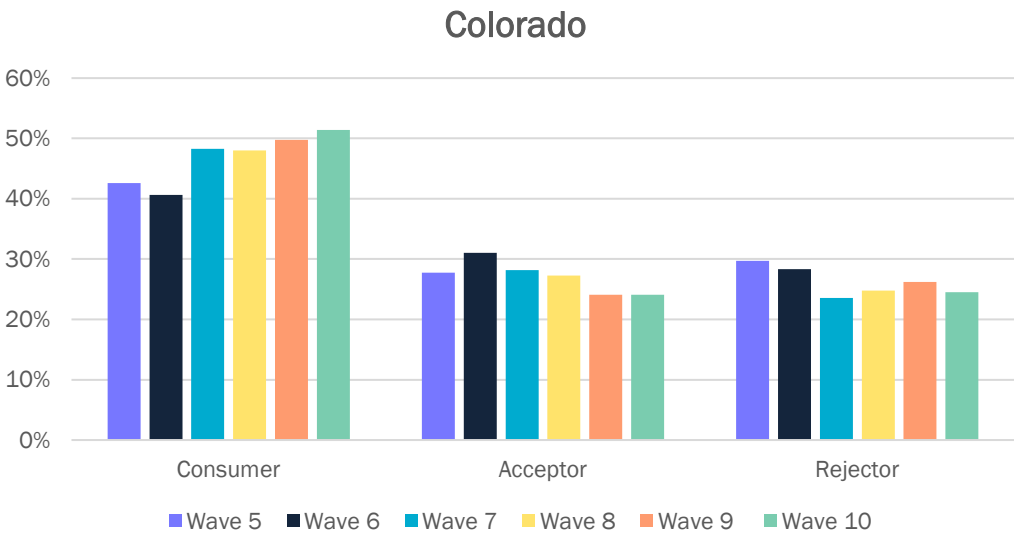
# MATURING CONSUMER PREFERENCES IMPACT PRODUCT MIX

**Flower share continues to decline as ease of use and discretion become more valued by the larger consumer set**

**Price pressure has led to higher quality products in processed categories such as Concentrates and Pre-Rolls**

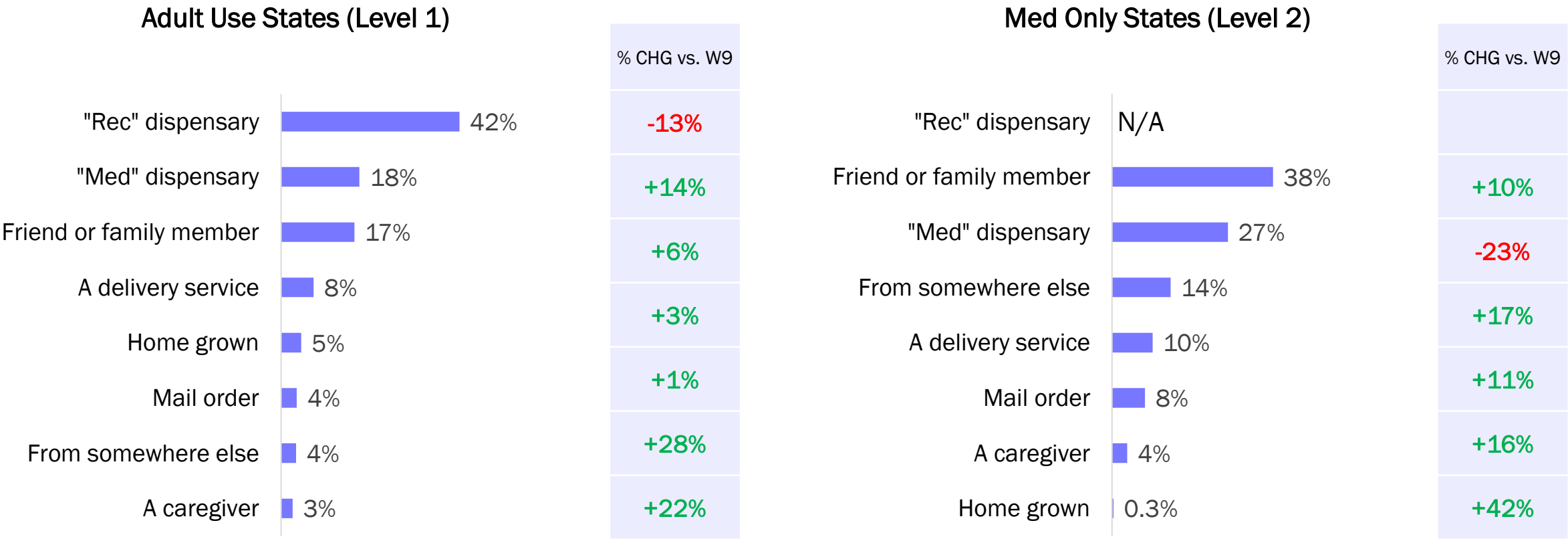


# CONSUMER RATES REMAINS STRONG IN MATURE MARKETS

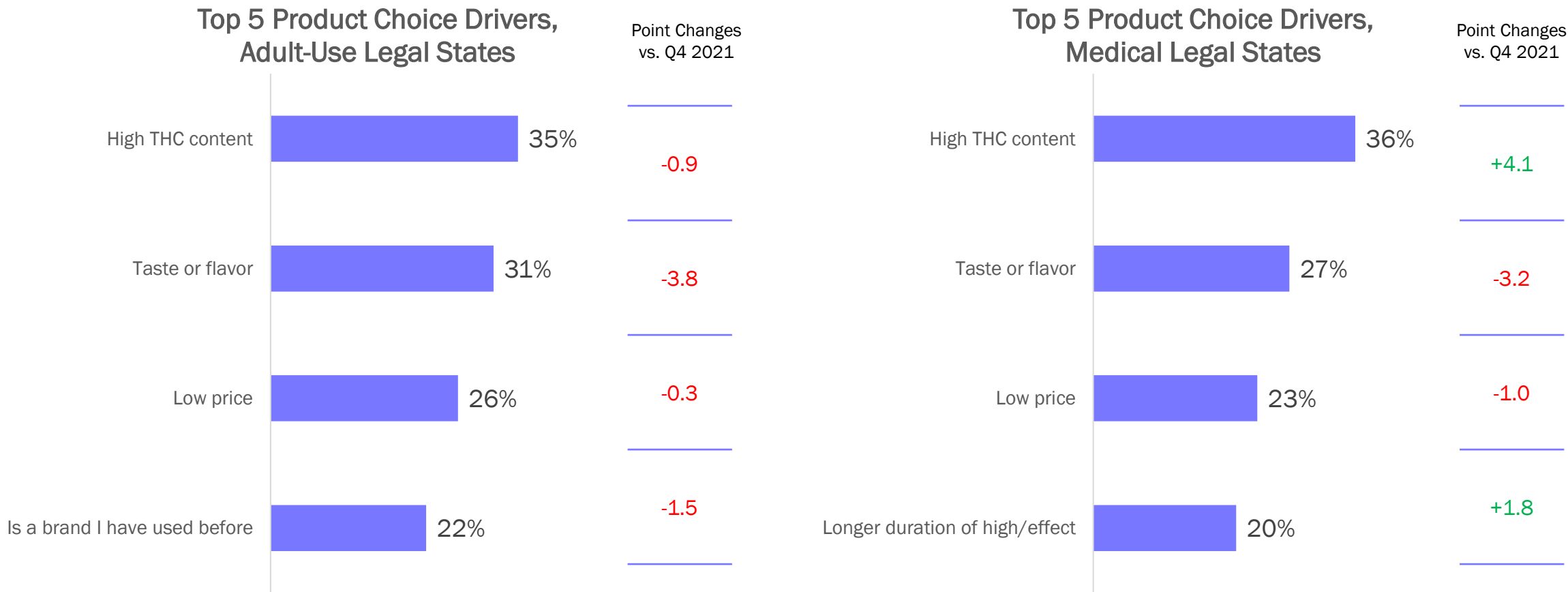


# CONSUMERS ACQUIRE CANNABIS FROM MULTIPLE SOURCES

Consumer Sourcing - % Most Frequent Source



# THC CONTENT STILL THE TOP PRODUCT DRIVER



Source: BDSA Consumer Insights, Spring 2022. US Adult Use & Med-Only States. Consumers 21+  
Note: "Consumers" includes adults who've consumed cannabis in the past 6 months



## **US OUTLOOK: CONSOLIDATION AND MULTI-STATE BRANDS**





# HOW BIG IS THE INFLUENCE OF MULTI-STATE OPERATORS IN CANNABIS?

## WHAT THEY ARE

- MSOs are cannabis companies that span across multiple legal cannabis states. The ones you hear about are powerhouses in brands and retail

## HOW THEY ARE CHANGING THE CANNABIS LANDSCAPE

- They are large organizations established to expand geographical footprint of brands, products, and retail
- 9 of the top 10 leading cannabis brands tracked by BDSA are owned by MSOs. They are dominating top brands in new markets such as Arizona and New Jersey maintain strong market share in mature markets like California
- More and more they are becoming the first entrants into up-and-coming states, either through expansion or M&A



# THE LARGEST FIRMS CONTINUE TO MAKE UP THE MAJORITY OF SALES

And with inter-industry M&A consolidation and attrition of smaller, independent brands likely to continue (and accelerate), even fewer in the future will control majority share of US

## TOP 25 PARENT COMPANIES BY BDSA TRACKED RETAIL SALES (YTD 2022)

243

BRAND HOUSES

465

BRAND HOUSE BRANDS

78%

2022 YTD SHARE OF SALES  
(+2% vs. Prev. Period)

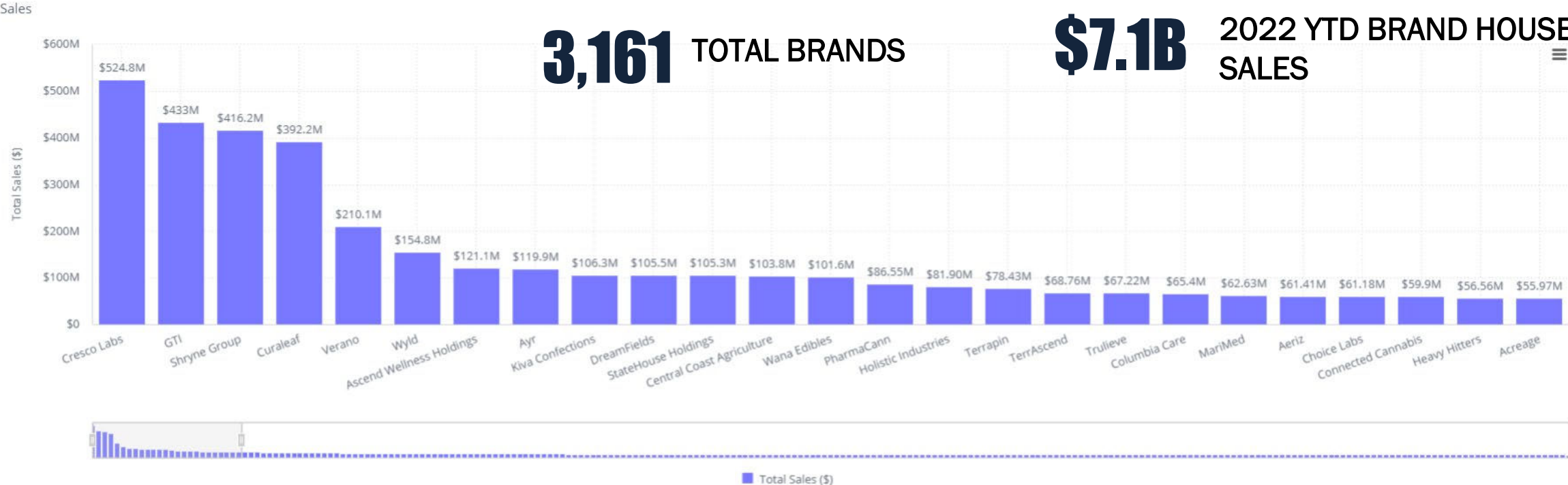
out of

3,161

TOTAL BRANDS

\$7.1B

2022 YTD BRAND HOUSE  
SALES



# VERTICAL/RETAILER DOMINANCE

Store brands (unbranded) OR brands associated with a vertically-integrated retailer or MSO have dominance – especially in less-mature markets

Market	Retailers per capita (100K)	Total # of Brands YTD 2022	% Sales Branded YTD 2022	% Sales Unbranded (Store Brand, Not Wholesaled)	OF BRANDED: # of Top 5 that are MSO/Vertical Brands
AZ	5	299	89%	11%	5
CA	4.3	1,140	92%	8%	4
IL	1.7	138	95%	5%	5
MD	1.6	130	98%	2%	3
MA	4.1	296	90%	10%	2
NV	6.6	298	80%	20%	5
NJ	0.4	65	86%	14%	5
OR	23.6	825	89%	11%	3
CO	23.8	502	66%	34%	4

Source: BDSA US Retail Sales Tracking

Younger markets show denser brand concentration given MSO and Vertical presence, while Western (and more mature) markets are more fragmented

# BDSA TOP MSOS & BRANDS IN ACTIVE NORTHEAST MARKETS

## Brands

Massachusetts	Pennsylvania	New Jersey
Rythm	Cresco	Verano
Cultivate (MA)	Rythm	Curaleaf
Happy Valley	Grassroots Cannabis	Kind Tree
Insa	Organic Remedies	Select
Fernway	High Supply	Rythm

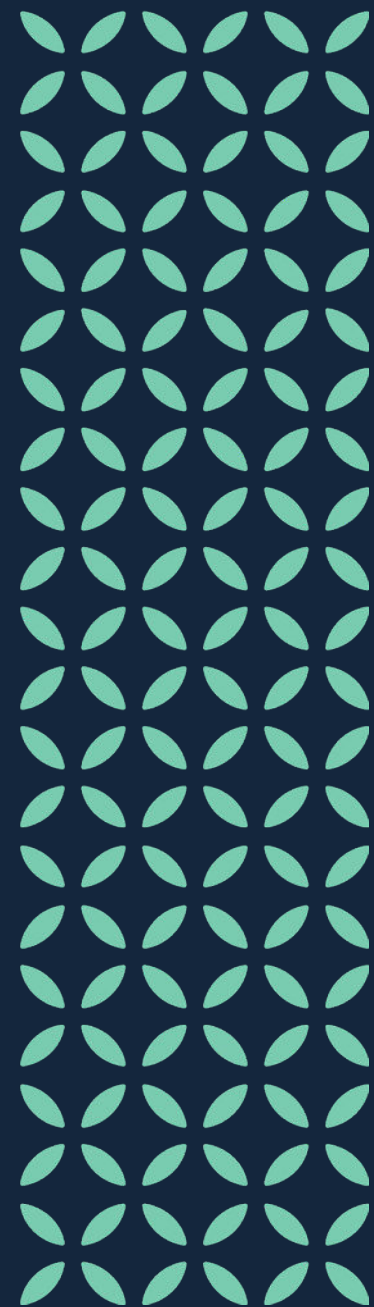
## MSOs

GTI	Cresco Labs	Curaleaf
Cresco Labs	GTI	Verano
Ayr	Curaleaf	TerrAscend
MariMed	Terrapin	GTI
Insa	Organic Remedies	Acreage

\*Source: BDSA Rapid Retail Sales Tracking - Massachusetts (Adult-Use + Medical); Pennsylvania (Medical), New Jersey (Adult-Use + Medical) 2022 YTD



## **WHAT'S WINNING IN CANNABIS**



# PREMIUMIZATION WITH POTENCY VIA INFUSED PRE-ROLLS

Infused pre-rolls provide consumers additional potency at a premium, but help brands differentiate and premium-ize their offerings in an increasingly crowded pre-roll category as brands look to repurpose oversupply of flower and recoup diminishing margins on flower

30%

[+6 PTs vs. Q3 '20]

Q2 '22 - Infused Share of  
Pre-Roll Sales

>3%

[+1 PTs vs. Q3 '20]

Q2 '22 - Infused Share of  
Total Cannabis Sales

## Top 5 - Infused Pre-Roll Brands YTD 2022

Jeeter

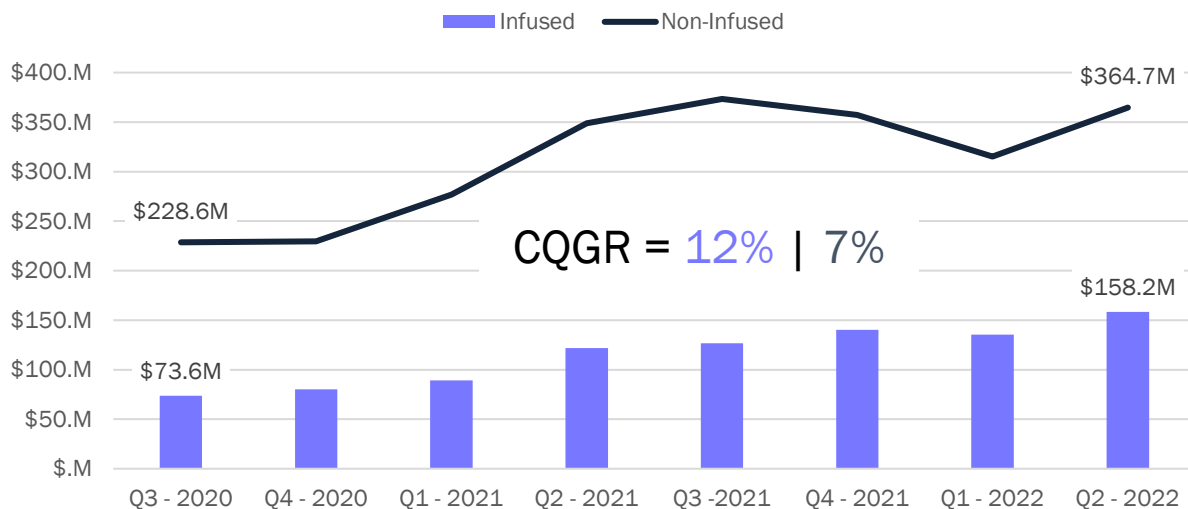
Kingpen

Sublime Canna

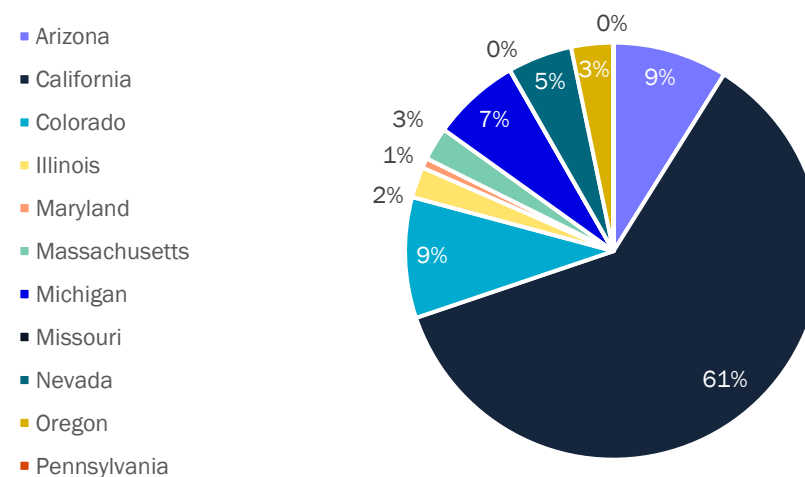
Presidential Rx

Kaviar

## Trended Pre-Roll Sales - Infused vs. Non-Infused



## Infused Pre-Roll \$ Share by Market - 2022 YTD



# ROSIN UPSELLING IN VAPES

Pricing pressure in Flower has not been contained to solely that format; however, some processed categories have been able to retain price through premiumization of offerings. Rosin is now attainable and understood by a larger consumer set than ever at current prices and there is evidence consumers see added value

## 109%

(Jan 22 vs. July 22)  
Rosin Vape Sales

## 20%

(Jan 22 vs July 22)  
All Other Vape Sales

## -4%

(Jan 22 vs. July 22)  
Rosin Vape EQ ARP

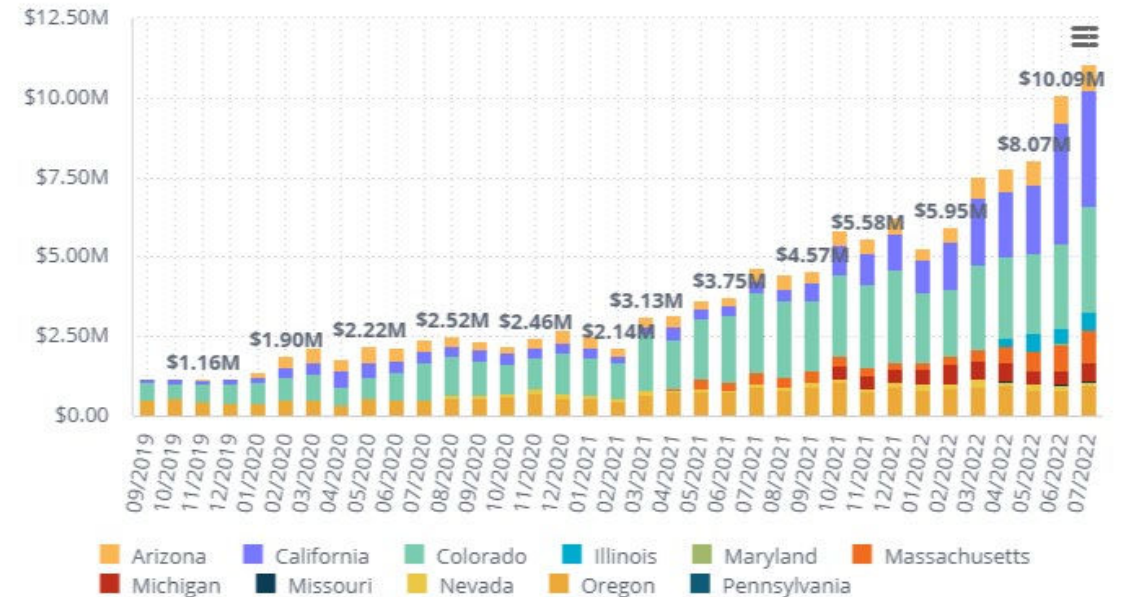
## -12%

(Jan 22 vs. July 22)  
All Other Vape EQ ARP

By Channel - Dollars



By State - Dollars





## MINOR CANNABINOIDS

In BDSA's Retail Sales Tracking in California, the top gummy edible products YTD 2022 for KIVA, WYLD and KANHA each contained either CBN or CBD minor cannabinoids



**64%**  
**Of CBD Users**  
**believe in medical**  
**benefits**  
**(BDSA: Spring 2022)**

**16%**  
**Of CBD Users have**  
**knowledge of CBN**  
**(BDSA: Spring 2022)**



# PORTFOLIO PRICE TIERING ACROSS BRANDS AND CATEGORY ASSORTMENT

Top brands are starting to see the true benefit of this earlier implemented strategy as prices compress and consumers continue to mature and look for more “premium” attributes in mainstream products.

	VALUE	MAINSTREAM		PREMIUM
CRESCO LABS™	HIGH SUPPLY™	CRESCO CANNABIS™		FLORACAL™
STIIIZY™ (SHRYNE GROUP™)	BOTANICAL- DERIVED TERPS	CANNABIS- DERIVED TERPS	LIQUID LIVE RESIN	SOLVENTLESS LIVE ROSIN
OZONE™ (ASCEND HEALTH WELLNESS HOLDINGS™)	OZONE™	OZONE BALANCE™		OZONE RESERVE™
WANA™	CLASSIC	QUICK	OPTIMALS	FULL SPECTRUM (LIVE ROSIN)



# WHAT'S NEXT

Cannabis Market Predictions

# BDSA CANNABIS MARKET PREDICTIONS

1. The road to growth and a mature market will face some near-term headwinds in the form of supply, pricing, and regulatory challenges, but long-term outlook remains strong.
2. Short Term growth will primarily come from New and Emerging markets both in the US and Globally.
3. Prices will continue to face stiff pressure in mature markets: Western states will experience pressure while emerging markets in New Jersey, New Mexico and New York will continue to open with high price per gram.
4. Consolidation, attrition of smaller brands and M&A activity will accelerate in 2023
5. “Illicit” market competition will remain strong for the foreseeable future – Markets in California, New York and Illinois face strong illicit markets
6. Premiumization, portfolio price tiering, highly differentiated offerings and functional ingredients fuel product growth

# IT'S A NEW GAME. DATA. DEEPER.

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