

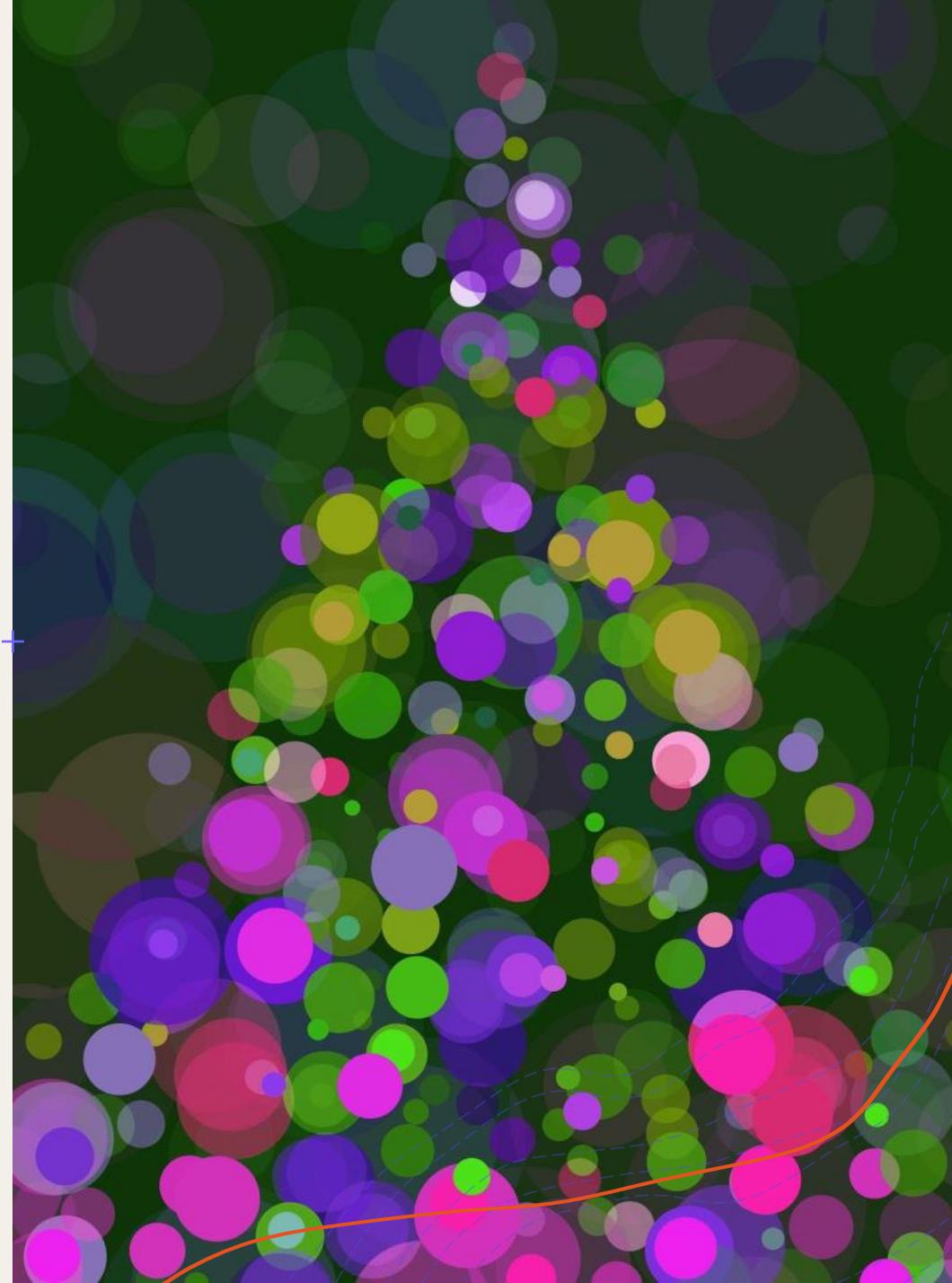


Highest Potency, Lowest Cost

Madison Hernandez

MATH 229

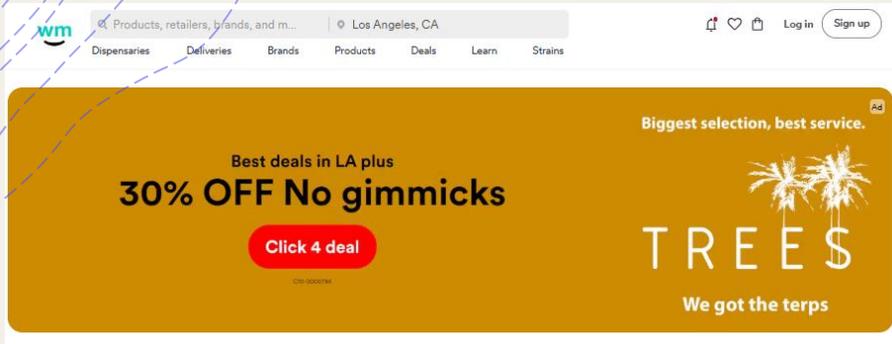
Fall 2025



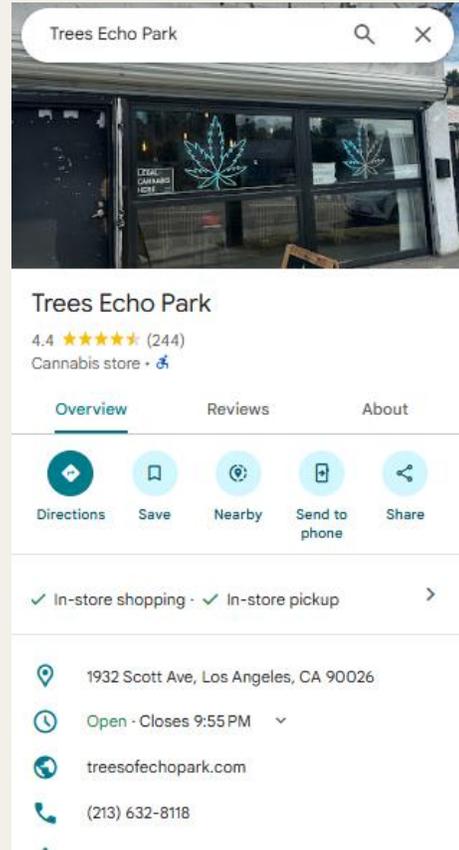
If I wanted to buy cannabis...

- I don't have a car
- I'm willing to walk.
- Bus is also an option
- Before I leave, I want to check the menu online
- Google? No
- WEEDMAPS.COM

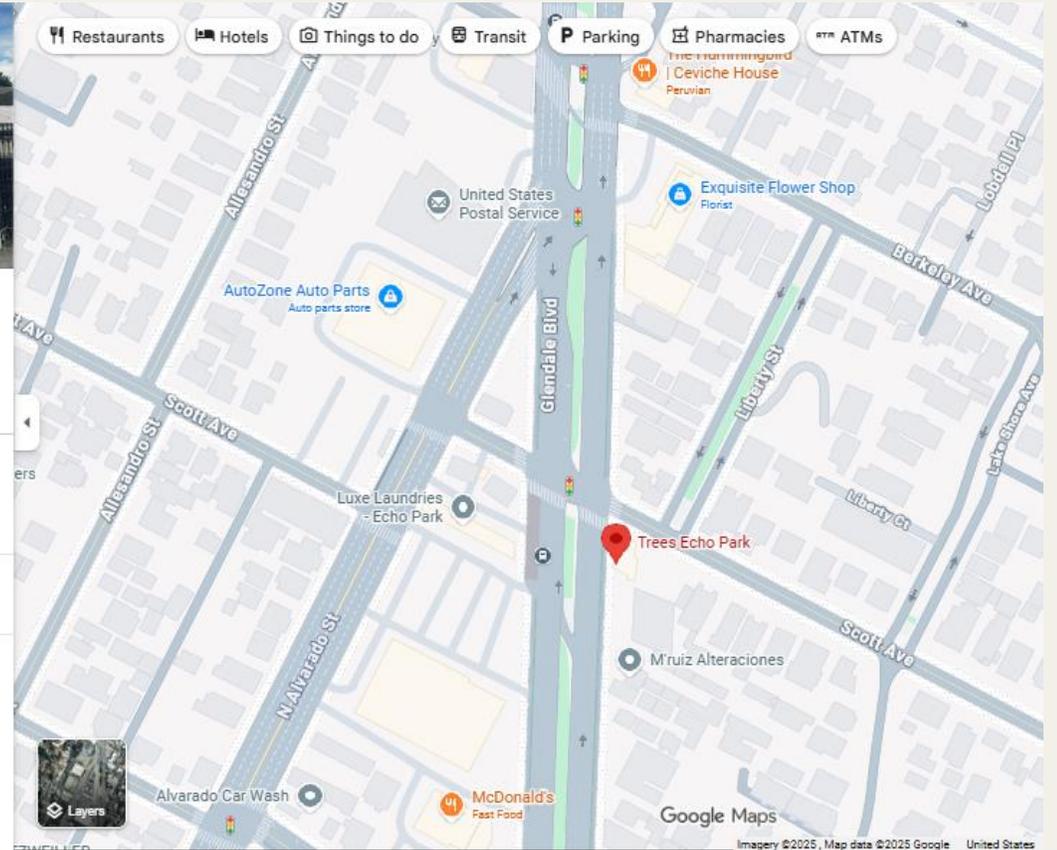
Weedmaps is everything but the...



The screenshot shows the Weedmaps.com website interface. At the top, there's a search bar with "Trees Echo Park" entered. Below the search bar, there are navigation tabs for "Dispensaries", "Deliveries", "Brands", "Products", "Deals", "Learn", and "Strains". A prominent orange banner features the text "Best deals in LA plus 30% OFF No gimmicks" and "Click 4 deal". To the right of the banner, it says "Biggest selection, best service." and "TREES We got the terps".



The screenshot shows the Google Maps interface for "Trees Echo Park". At the top, there's a search bar with "Trees Echo Park" and a magnifying glass icon. Below the search bar, there's a photo of the store's exterior. The main content area displays the store name "Trees Echo Park", a 4.4-star rating with 244 reviews, and the category "Cannabis store". There are tabs for "Overview", "Reviews", and "About". Below the tabs, there are icons for "Directions", "Save", "Nearby", "Send to phone", and "Share". A green checkmark indicates "In-store shopping" and "In-store pickup". The address is listed as "1932 Scott Ave, Los Angeles, CA 90026". Other details include "Open · Closes 9:55 PM", the website "treesofechopark.com", and the phone number "(213) 632-8118".



The screenshot shows a Google Maps street view of the area around Trees Echo Park. The map is centered on the intersection of Scott Ave and Alvarado St. A red pin marks the location of "Trees Echo Park" at 1932 Scott Ave. Other nearby locations include "AutoZone Auto Parts", "United States Postal Service", "Exquisite Flower Shop", "Luxe Laundries - Echo Park", "Mruiz Alteraciones", "Alvarado Car Wash", and "McDonald's Fast Food". The map shows various streets including Alvarado St, Scott Ave, Liberty St, Berkeley Ave, and Lobell Pl. The Google Maps logo and copyright information are visible at the bottom.

Weedmaps.com

Google Maps

...directions

Lucky for me, Trees is the closest dispensary to me, and it is still a 30 min walk



Search Products, retailers, brands, and m...

Los Angeles, CA



Log in

Sign up

Dispensaries

Deliveries

Brands

Products

Deals

Learn

Strains

Home

Weed dispensaries near Los Angeles, CA

Open now

Storefronts

Delivery

Order online

Deals

Best of Weedmaps

Medical

Recreational

Curbside pickup

Products

Brand

Amenities

Distance

Showing results 1 - 30

Distance



Happy Green

★★★★★ 4.8 (372)

Dispensary • Medical & Recreational

Open now Order online

View menu



Foreign LA

★★★★★ 4.6 (165)

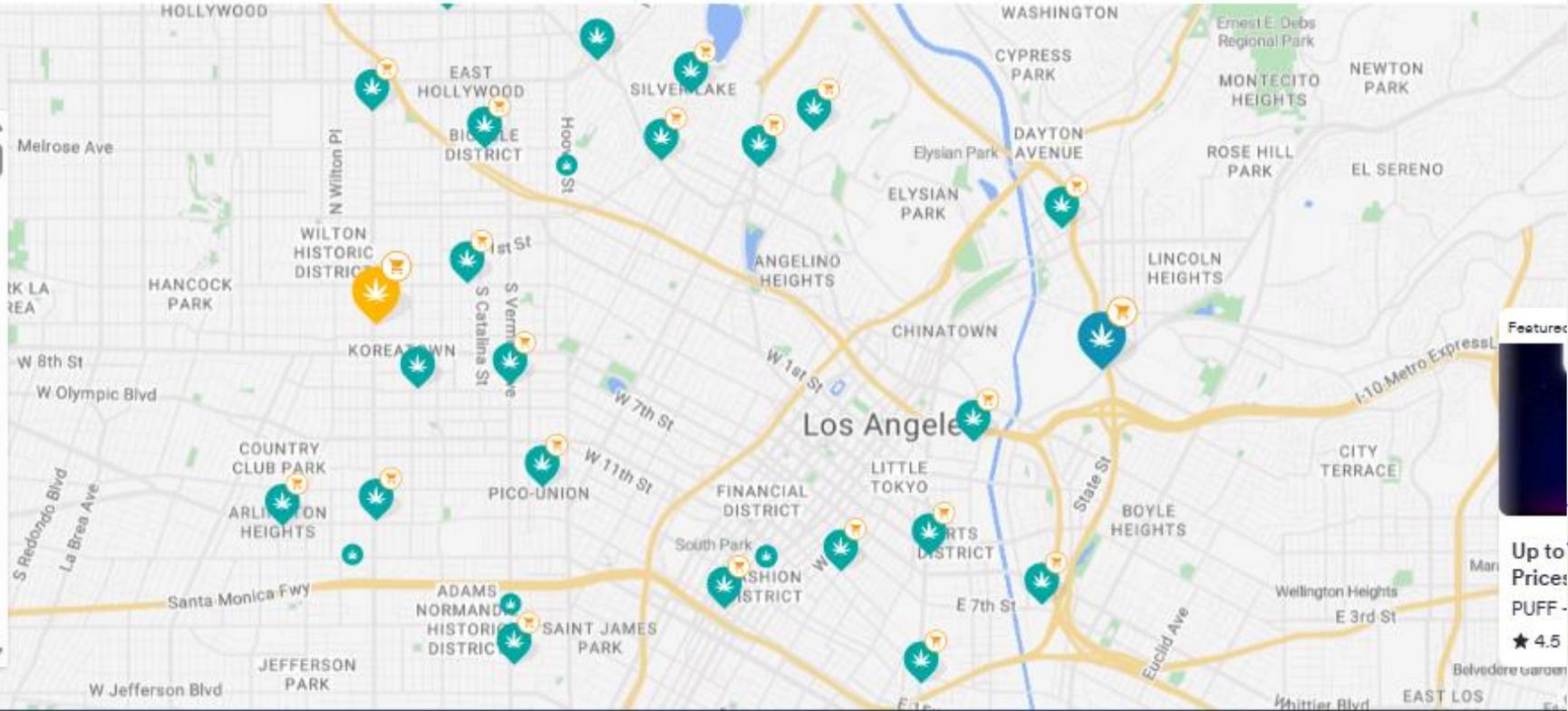
Dispensary • Medical & Recreational

Open now Order online

View menu

CCA California Caregivers...

★★★★★ 4.9 (3,344)



Why Weedmaps? To Shop Legal

Google Maps Unreliable

Although Google Maps will show the same dispensaries as Weedmaps, it will also show me "unlicensed" or "illegal" stores.

Highlighted here is "WEED DELIVERY & DGC DIISPATCHH LOS ANGELES RECREATIONAL DISPENSARY" which does NOT show up on WM.

Any Dispensary listed on Weedmaps must be licensed.

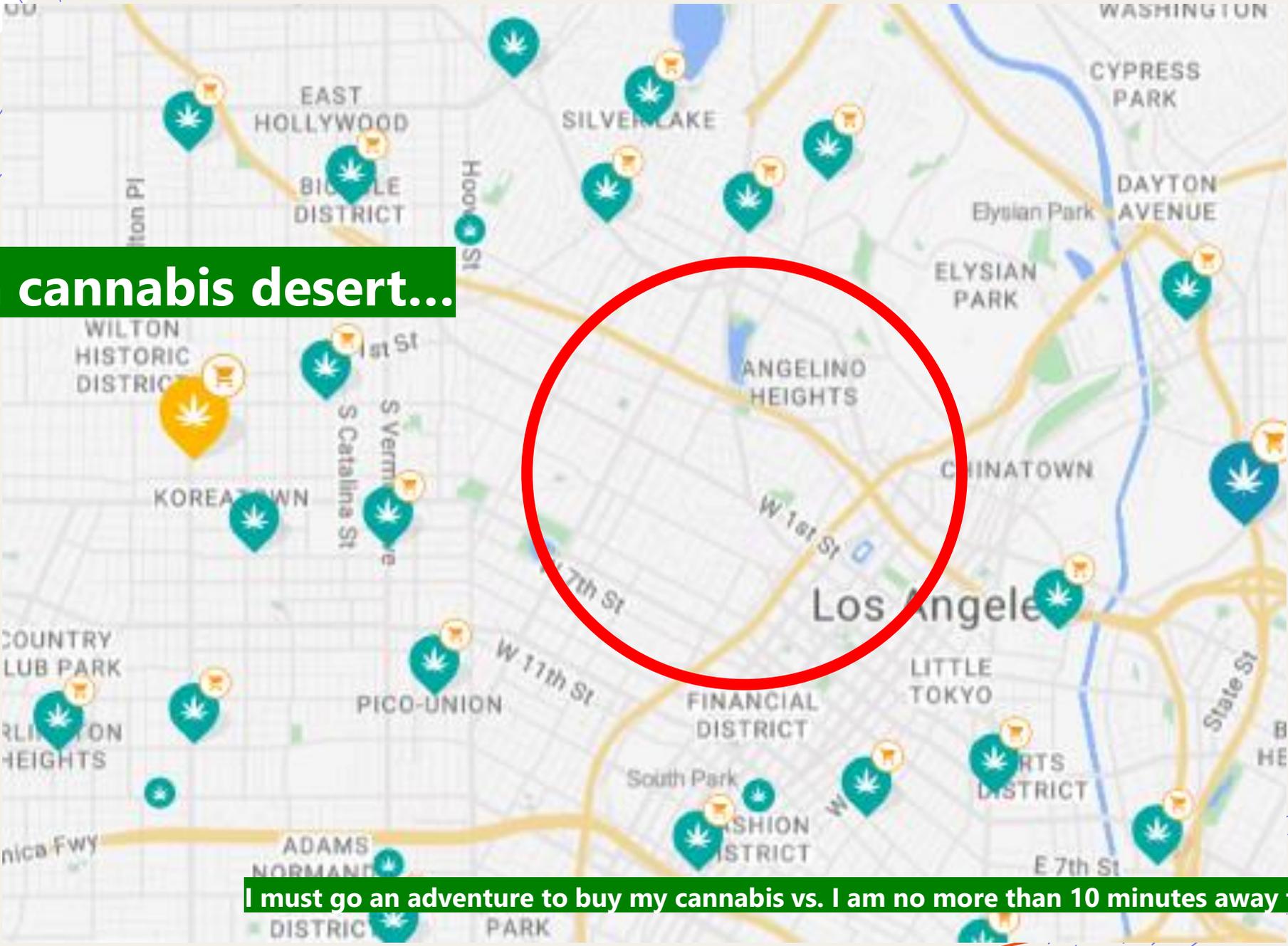
dispensary near me

Results

- OG Kush Dispensary**
4.6 ★★★★★ (1,604)
Cannabis store · 223 S Western Ave
Open 24 hours · (213) 663-0251
"Very friendly staff, convenient, and top notch product."
- DA GREEN CORNER CANNABIS & WEED DELIVERY LOS ANGELES MARIJUANA DISPENSARY**
4.2 ★★★★★ (599)
Cannabis store · 2315 S Vermont Ave
Open 24 hours · (310) 894-9727
"Their bud is always so fresh and can't beat the prices!!!"
- Green Queen Weed Dispensary Los Angeles**
4.9 ★★★★★ (1,283)
Cannabis store · 1051 S Broadway
Closed · Opens 10AM Thu · (213) 275-1034
"Beautiful inside and out and the knowledge on the budtenders is amazing."

WEED DELIVERY & DGC DIISPATCHH LOS ANGELES...
4.2 ★★★★★ (46)
Cannabis store · Open 24 hours

Google Maps



I live in a cannabis desert...

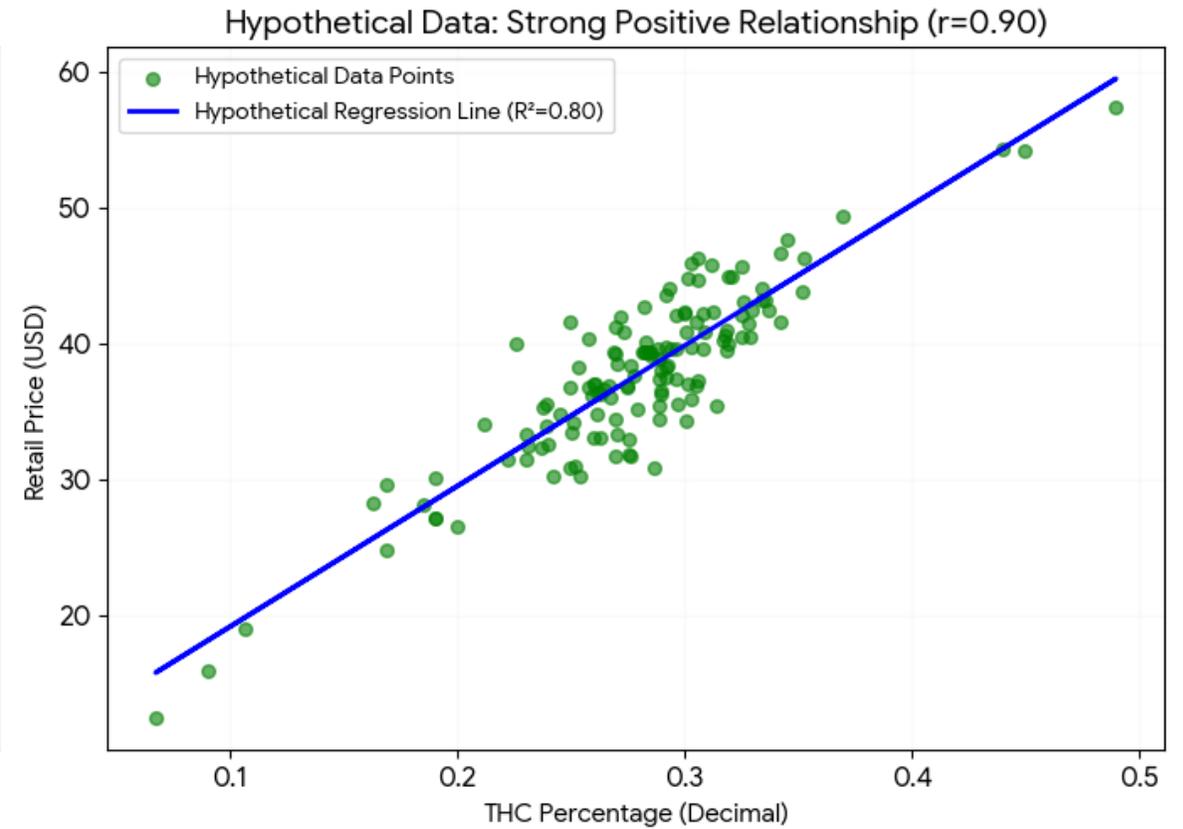
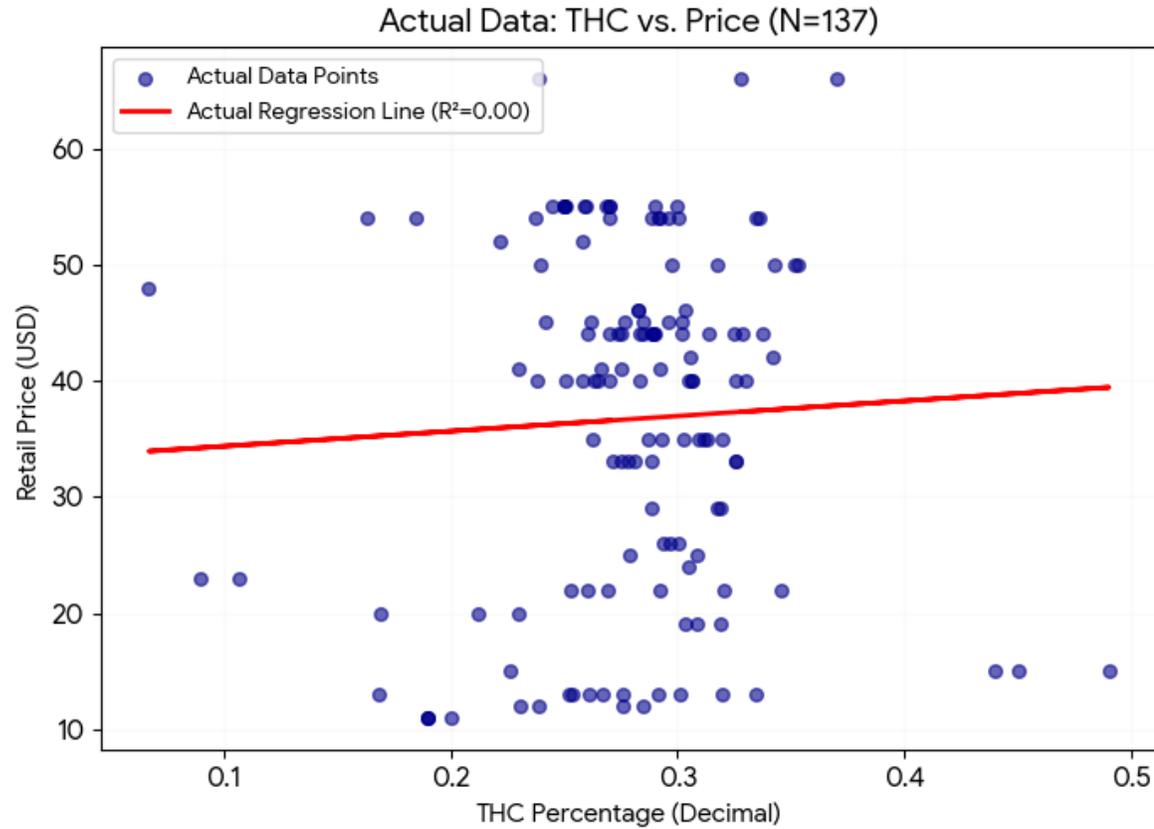
I must go an adventure to buy my cannabis vs. I am no more than 10 minutes away from buying alcohol

What am I buying at Trees?

- + There are so many types of Cannabis Products: wax, topicals, edibles, infused drinks, pre-rolled joints, and so much more!
- + I want to use the smoking device I have already
 - + Bong
- + Only Flower.
- + I want this to last me but not too long that I get bored of it.
- + **Desired Item: 3.5 grams (An Eighth | $\frac{1}{8}$ th)**

If THC did determine Price

Actual Data (Weak Correlation) vs. Hypothetical Data (Strong Correlation)



If THC did determine Price

"Rainbow Belts" by 3C Farms

Predicted price for THC 27.03%: \$36.57

Actual price for that product: \$40.00

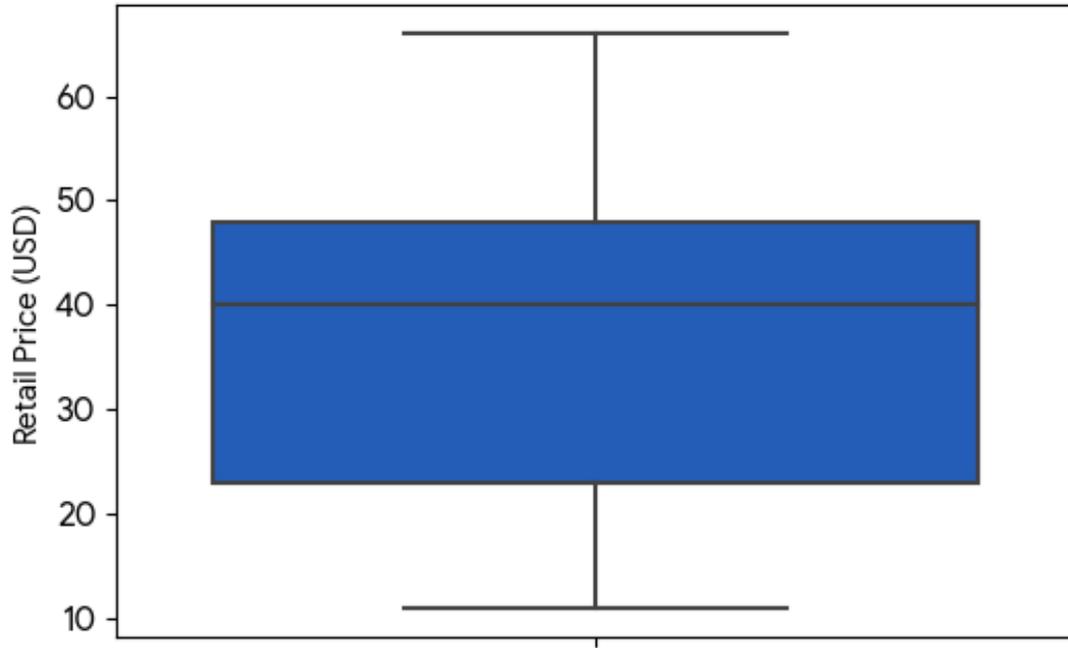
Residual: \$3.43

If the residual was \$0 then that would mean THC **does** determine price.

The value of these eighths is outside of the THC data (grow method, terpene profile, etc.)

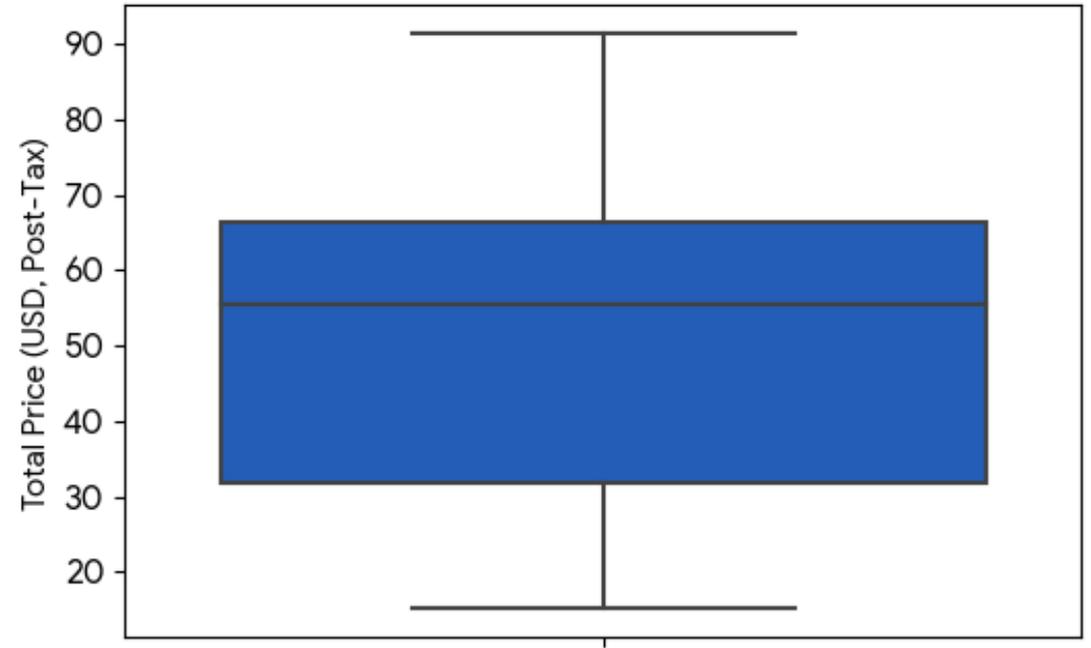
Price of an Eighth Pre- & Post- Tax

Distribution of Retail Price for Cannabis Eighths



Highest Price: \$66 Median: \$40
Lowest Price: \$11 Average Range: \$23 - \$48

Distribution of Total Price (Including 38.5% Tax)

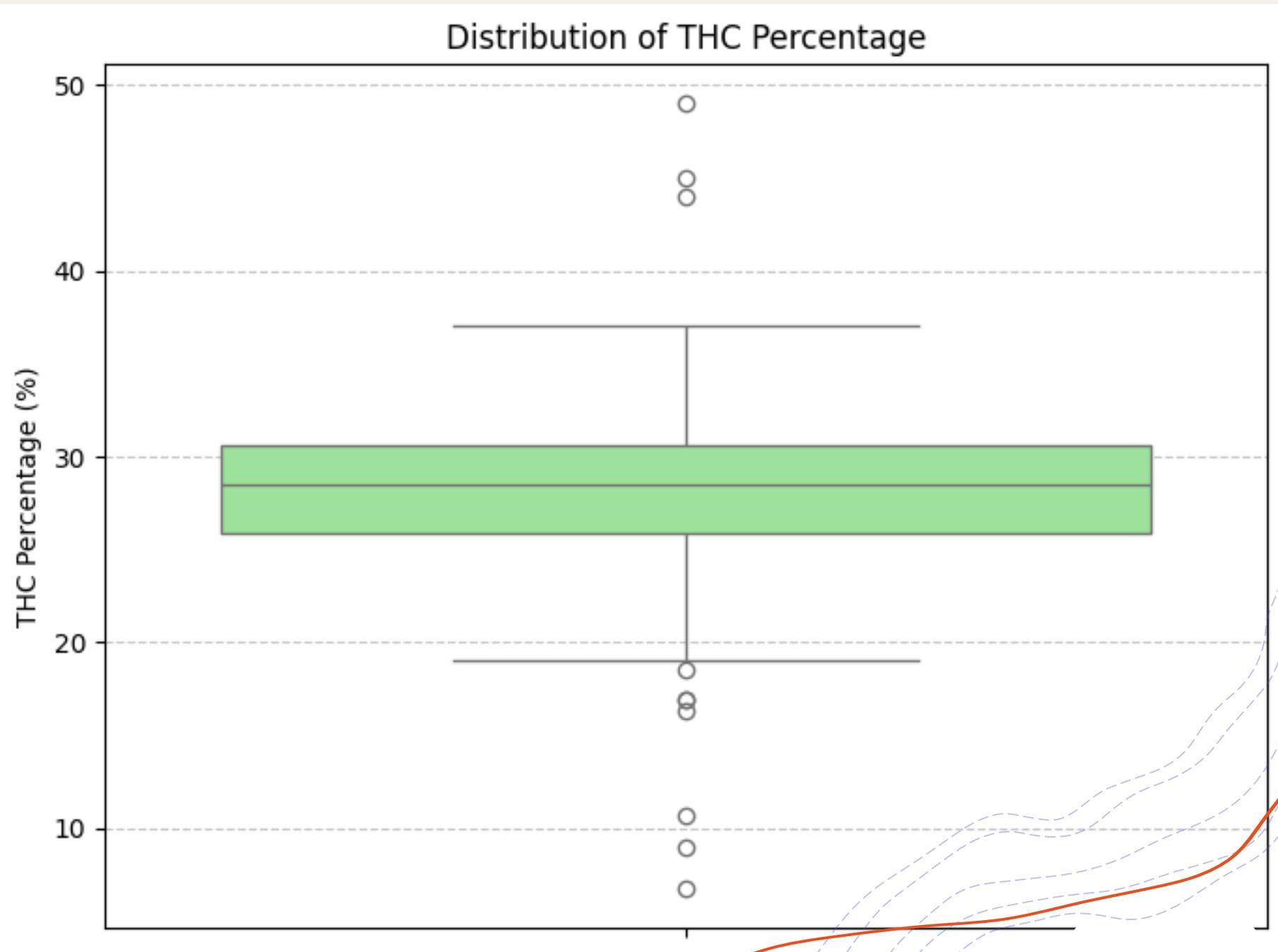


Highest Price: \$91.41 Median: \$55.40
Lowest Price: \$15.24 Average Range: \$31.86 - \$66.48

Range of THC

The small range of THC percentage (with outliers being either “infused” or “CBD-dominant” means that nearly every product is created to be “high THC”.

Before Prop 64, many products were testing below 20% because it was about the smell not the percentage.



Budget: 45\$

- +Cannabis Worker Tip: \$5
- +The online menu only shows *pre-tax price*.
- +The highest priced eighth I can get, *that considers the **38.5% tax** and still being able to tip the worker is: **\$28.88***
- +**42 Items below \$28** | 30.66% of all eighths

Available $\frac{1}{8}$ ths Under \$28

Brand: **Sticky**

Options:
Ray Gun (H)
30.05%

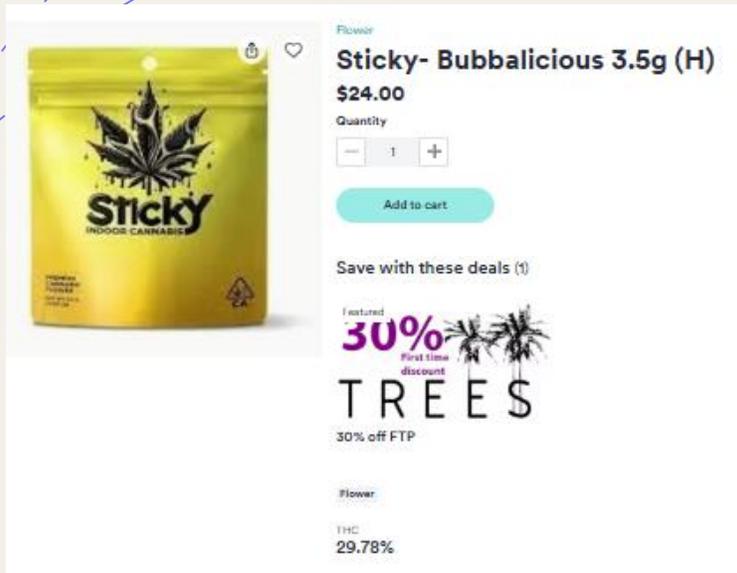
Crash Out (S)
29.64%

Tootsie (I)
29.41%



What other information is available?

Sticky Brand (H)
Alt: Bubbalicious



Flower

Sticky- Bubbalicious 3.5g (H)
\$24.00

Quantity

- 1 +

Add to cart

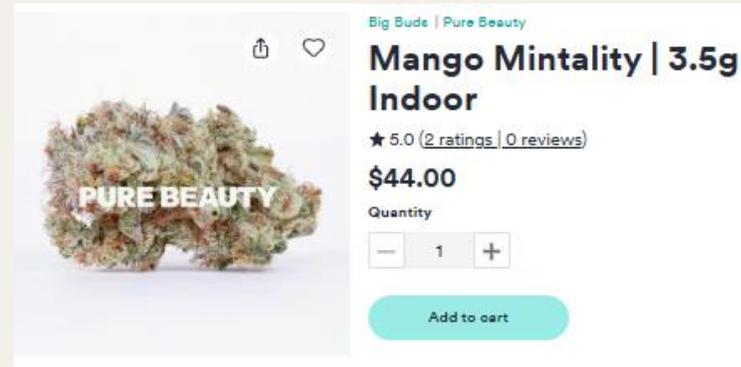
Save with these deals (1)

Featured
30%
First time discount
TREES
30% off FTP

Flower

THC
29.78%

Product Details Vary by Company
What is a customer to do?



Big Buds | Pure Beauty

Mango Mintality | 3.5g Indoor

★ 5.0 (2 ratings | 0 reviews)

\$44.00

Quantity

- 1 +

Add to cart

Product description

Sativa Dominant Hybrid

A modern Sativa - bred by Purple City Genetics and grown by Pure Beauty - Mango Mintality has a unique, coral-like bud structure and an impressive nose. With notes of frankincense and green mangos, and arms that reach towards you, these buds covered in trichomes can draw anyone in. What do mangos dream about?

Lineage: Mango Haze x Gush Mints

THC and CBD levels may vary

Big Buds

THC
28.96%

Product description

FULL INDICA

Lineage: *Pineapple Pez Melonade x Styrofoam Cup* – Bred by Team Elite Genetics

A deeply sedating and mind-warping indica, Arctic Wall is designed for those seeking an intensely heavy and immersive high. This strain delivers a delirious cerebral haze paired with a lethargic body melt, making it perfect for late-night relaxation or total sensory escape.

Effects*

Brace yourself for the ultimate couch-lock experience, where your mind drifts into a dreamlike haze, untethered from reality, and your body succumbs to a deep, gravity-defying melt. With its deeply intoxicating and sluggish high, Arctic Wall is ideal for those looking to shut off the world and dissolve into pure tranquility.

Flavor Profile

Arctic Wall is a bold fusion of sweetness and funk, offering sugar-soaked pineapple chunks dipped in maple syrup, layered with intense undertones of gasoline and burnt chemical funk. This rich, complex flavor profile makes every hit a decadent yet powerfully gassy experience.

Dominant Terpenes

β-Myrcene
α-Pinene
δ-Limonene

*effects are not claims and vary by consumer

Flower

THC
27.51%

Team Elite Genetics:
Arctic Wall (I) \$44

Additional Data

+ Price and THC have almost no correlation so what else?

+ **Brand Recognizability**

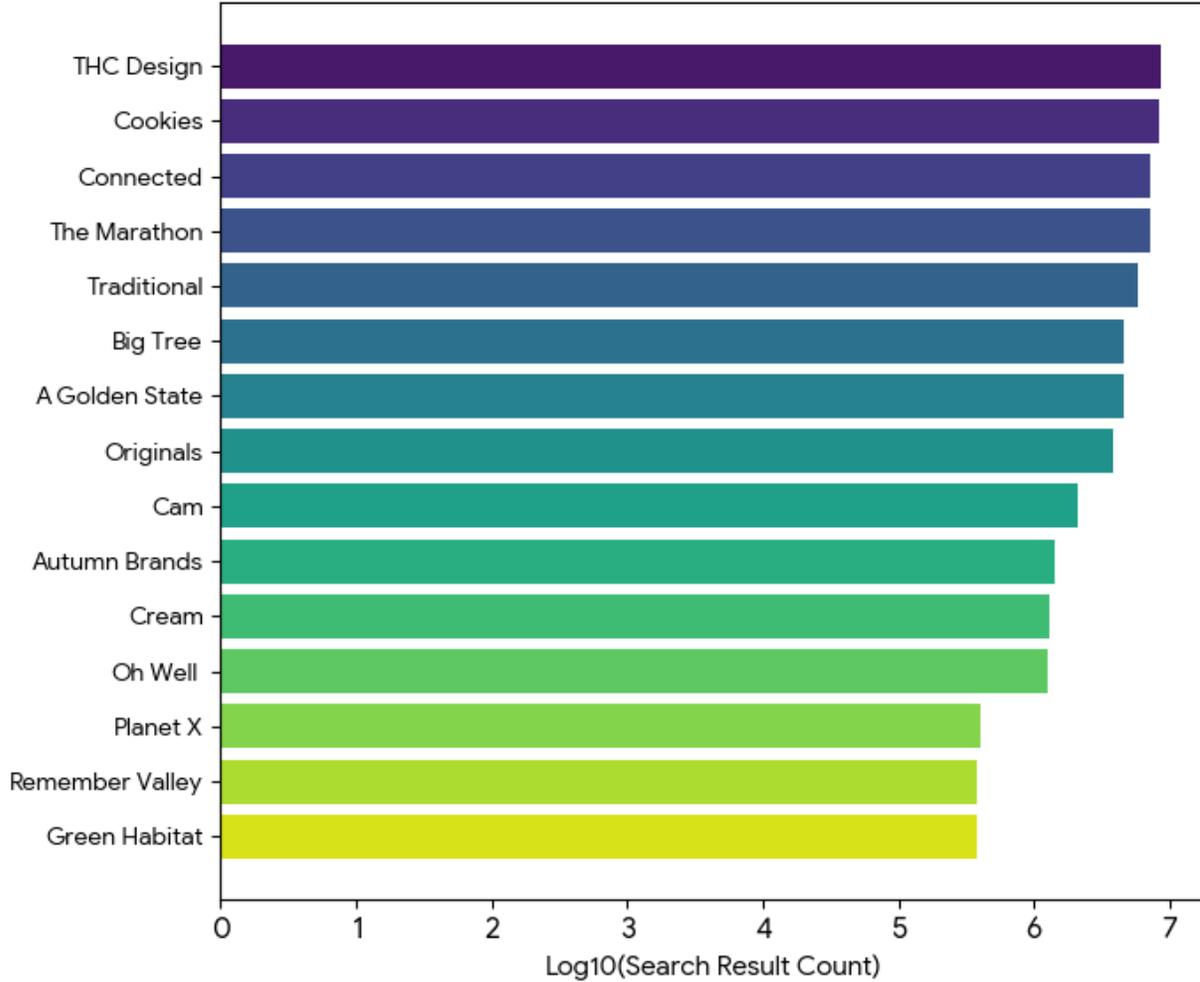
+ Based on the number of google search results, does brand recognizable affects its price?

+ **Brand Prevalence in-store**

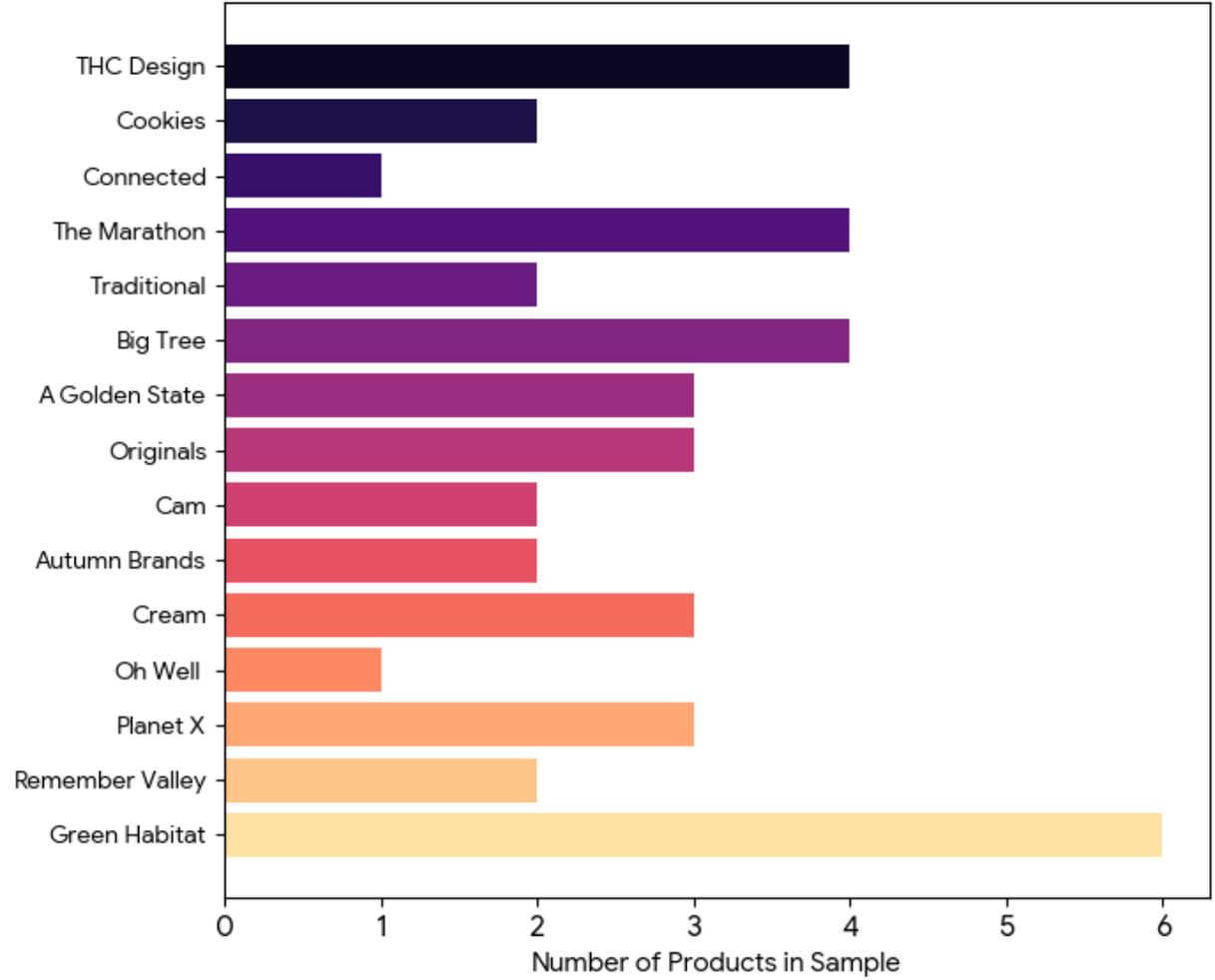
+ Based on if a brand more has options in-store, does that affect its price?

Brand Recognition vs. Product Volume in Sample (Top 15 Brands)

A: Brand Recognition (Log10 of Google Search Results)



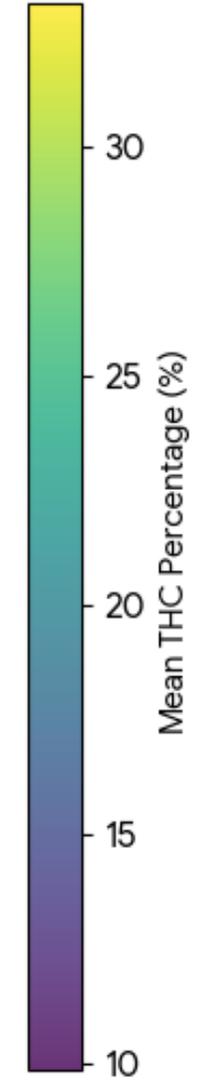
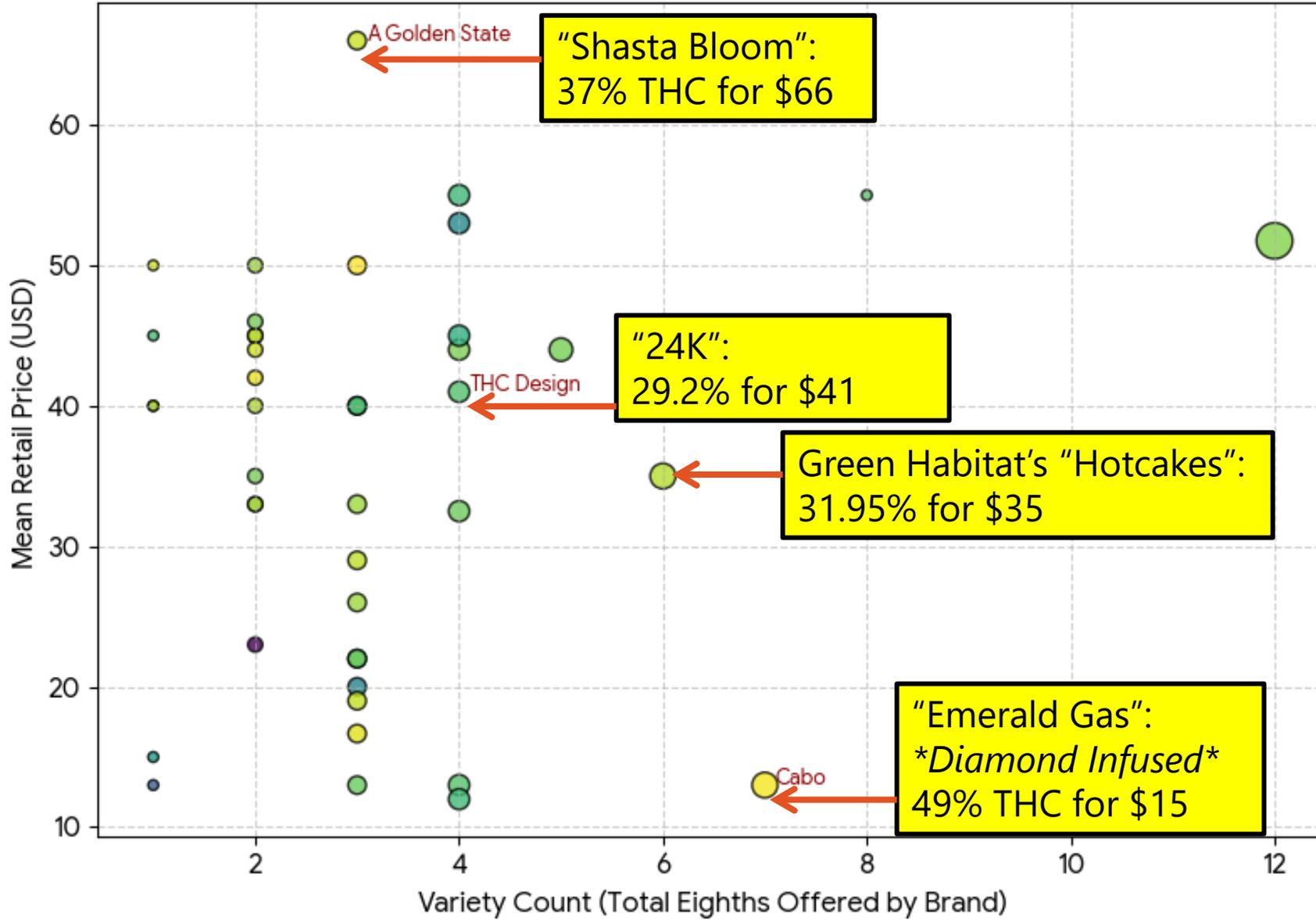
B: Product Volume in Sample (Shelf Space)



Average Retail Price vs. Search Result Count per Brand



Mean Price vs. Variety Count, Colored by Mean THC (%)



Out of 47 Brands

If I wanted to pick the eighth with the most THC % and the lowest price, it would be Cabo's "Emerald Gas"