SUPPLEMENTAL FIGURES

Supplemental Figure 1. Price comparison of Hybrid herbal products with <15% THC and ≥15% THC. (**A**) Price and potency distribution of all Hybrid herbal products. (**B**) Price and potency distribution of flower Hybrid herbal products. (**C**) Price and potency distribution of preroll Hybrid herbal products. *P<0.05 between groups by Welch's t-test (unpaired, one-tailed). Data shown as mean ± SD.

Supplemental Figure 2. Cannabis CBD content (absence 0% or presence >0%) and price associations in flower and preroll products with CBD information. (**A**) Price distribution and CBD content of flower products. (**B**) Price distribution and CBD content of preroll products. *P<0.05, between groups by Welch's t-test (unpaired, two-tailed). Data shown as mean ± SD.

SUPPLEMENTAL TABLES

Supplemental Table 1. Inclusion and Exclusion criteria of Dispensary sampling and collection.

	Inclusion Criteria	Exclusion Criteria			
Web Presence	 Independent Website Presence 	 No web presence or website Presence only via third-party website like weedmaps.com, leafly.com, heartjane.com or treez.io 			
Menu	 Had a menu on their independent website Embedded menu from a third-party website on their independent website Link or access to a menu on the dispensary's page or on a third-party menu website 	 No menu available or accessible from dispensary website No THC content available for any products 			
THC content of products	 Included at least one flower product with THC content. THC content listed in percentage form 	 No flower products listed a THC content anywhere in the product description page THC amounts only in weight (mg) form on menu 			

Supplemental Table 2. Inclusion and Exclusion criteria of product collection from online menus of dispensaries.

Inclusion Criteria	Exclusion Criteria
Herbal Productsflower or preroll	 Not an herbal product (edibles, extract, oils, vape, tincture, topical)
THC amount was available	No THC content listed
Percentage Form (2019)	 THC listed as gram amount (mg) this format does not comply with CA regulations (2019)
 THC content located in product title, product specs, or paragraph description 	If THC content only available in product image
Price listedNatural cannabinoids	 No price listed for the product Stated it was infused. If products had THC >50% we considered these products as potentially infused and they were excluded.
 Weight of the amount of product listed in product specs, paragraph description, or in image (grams) (converted to grams if listed as ounces) 	Weight could not be determined

Supplemental Table 3. Number and percent of product type in top 10 products displayed in online menus and percent of dispensaries displaying these products in top ten products.

Product Types in Top 10	Median (Range)	Average ± % of Dispensaries that have Product in Top 10		% Total Product				
Most Recent Analysis								
Flower	9.5 (2-10)	7.8 (3.059)	80	62				
Preroll	3 (2-4)	3 (1.414)	20	6				
Concentrate	3 (3)	3 (0)	10	3				
Pill/Capsule	3 (3)	3 (0)	10	3				
Edible	2 (1-5)	3 (2.082)	30	8				
Topical	1 (1-6)	3 (2.887)	30	8				
Vape/Cartridge	1 (1-5)	2 (2.309)	30	7				
Beverage	1 (1)	1 (0)	10	1				
Tincture	1 (1)	1 (0)	10	1				
	Analysis c	onducted five	weeks earlier					
Flower 9 (5-10) 8 ± 2.268 80 64								
Vape/Cartridge	5 (1-6)	4 ± 2.646	30	12				
Preroll	2.5 (1-4)	2.5 ± 1.732	40	10				
Edible	2.5 (1-4)	2.5 ± 2.121	20	5				
Pill/Capsule	3	3	10	3				
Other/Misc	2	2	10	2				
Beverage	2	2	10	2				
Concentrate	1	1	10	1				
Topical	1	1	10	1				

Supplemental Table 4. Rank of product types found in filter menus and percent of dispensaries displaying these types of products in their filter menus.

Menu Product Type Filters	Median (Range)	Average ± SD	% of Dispensaries that have product in filter menu					
Most Recent Analysis								
Flower	1 (1-4)	1.7 ± 1.3	100					
Vape/ Cartridge	2 (2-3)	2.2 ± 0.5	100					
Edible	3 (1-5)	3.3 ± 1.8	100					
Preroll	3 (2-6)	3.6 1.8	71					
Concentrate	4 (3-4)	3.8 ± 0.5	57					
Extract	4	4	43					
Sublingual	6	6	14					
Other/Misc	6.5 (5-8)	6.5 ± 1.4	86					
Topical	7 (5-7)	6.4 ± 0.8	100					
Plant/Seeds	7.5 (6-9)	7.5 ± 2.1	29					
Beverage	8.5 (8-9)	8.5 ± 0.7	29					
Tincture	9 (6-11)	8.8 ± 2.2	57					
Pill/Capsule	9.5 (9-10)	9.5 ± 0.7	29					
An	alysis conduc	ted five weeks	s earlier					
Flower	1 (1-5)	2.3 ± 1.704	100					
Vape/Cartridge	2 (1-3)	2 ± 0.816	100					
Edible	3 (1-5)	3 ± 1.528	100					
Preroll	3 (2-6)	3.6 ± 1.817	71					
Concentrate	4 (3-4)	3.75 ± 0.5	57					
Extract	4	4 ± 0.0	43					
Sublingual	6	6.0	14					
Other/Misc	6.5 (5-8)	6.5 ± 1.378	86					
Topical	7 (5-7)	6.4 ± 0.787	100					
Plant/Seeds	7.5 (6-9)	7.5 ± 2.121	29					
Beverage	8.5 (8-9)	8.5 ± 0.707	29					
Tincture	9 (6-11)	8.8 ± 2.217	57					
Pill/Capsule	9.5 (9-10)	9.5 ± 0.707	29					

Supplemental Table 5. Rank of product type found in the visual scroll down order of product category and percent of dispensaries displaying these types of products in in the scroll down order of product category.

Product Categories	Median (Range)	Average ± SD	% of Dispensaries that have Product in scroll down categories				
Most Recent Analysis							
Flower	1	1 ± 0	100				
Vape/ Cartridge	2 (2-4)	2.5 ± 0.8	89				
Edible	3 (2-5)	3.3 ± 1	100				
Concentrate	4 (2-5)	3.5 ± 1.2	67				
Extract	4	4 ± 0	33				
Preroll	5 (2-6)	4.3 ± 1.4	78				
Topical	6 (4-7)	6.1 ± 1	89				
Sublingual	6	6.0	11				
Plant/Seeds	8 (6-9)	7.5 ± 2.1	22				
Other/Misc	7 (5-8)	6.6 ± 1.1	78				
Beverage	8.5 (8-9)	8.5 ± 0.7	22				
Pill/Capsule	9.5 (9-10)	9.5 ± 0.7	22				
Tincture	10 (8-11)	9.7 ± 1.5	33				
An	alysis conduc	ted five weeks	s earlier				
Flower	1	1 ± 0.00	89				
Vape/Cartridge	2 (1-4)	2.4 ± 0.916	89				
Edible	3 (2-5)	3 ± 0.866	100				
Concentrate	4 (2-5)	3.5 ± 1.225	67				
Extract	4 (4-5)	4.3 ± 0.577	33				
Preroll	5 (2-6)	4.3 ± 1.380	78				
Topical	6 (4-7)	5.9 ± 1.246	89				
Sublingual	6	6	11				
Plant/Seeds	6	6	11				
Other/Misc	7 (5-8)	6.6 ± 1.134	78				
Beverage	8.5 (8-9)	8.5 ± 0.707	22				
Pill/Capsule	9.5 (9-10)	9.5 ± 0.707	22				
Tincture	10 (6-11)	9 ± 2.646	33				

Supplemental Table 6. THC and CBD concentration from top ten products surveyed that included this information.

	Flowe	r (%)	Vape/Ca	_	Prero	II (%)		ble oduct)		erage erving)	Top (mg/app or ou	lication	Pill/Ca (mg/ca	
	THC	CBD	THC	CBD	THC	CBD	THC	CBD	THC	CBD	THC	CBD	THC	CBD
Average	24.57	3.34	63.41	20.50	20.23	1	63.13	73	10	5	82.5	45	62.5	N.I.
Median	24.7	0.1	70.6	20.5	20.45	1	75	95	10	5	60	10	62.5	
SD	4.01	9.31	22.09	27.57	0.93		42.00	48.17	0	0	45	70	53.03	
N	35	18	3	2	4	1	8	5	2	2	4	4	2	0

N.I., no information provided

Supplemental Table 7. Price comparison between products with 0% or >0% CBD in products with ≥15% THC in all herbal products or divided in flower and preroll products.

	≥15% THC						
Price (US\$/1g)	0% CBD	>0% CBD	P- value				
All Products	15.04±4.59 n=227	12.83±4.10 n=294	*				
Flower	14.41±3.87 n=113	12.77±4.09 n=253	*				
Preroll	15.66±5.15 n=114	13.24±4.24 n=41	*				

^{*}P<0.05, between 0% and >0% CBD groups by Welch's t-test (unpaired, two-tailed).