## 7/21/2023

## 2Q Trends in Key States

## Cannabis Sector Equity Research



Key Highlights:

- 2 Q trends state by state.
- Trends are generally speaking, less bad.
- If fundamentals mattered, this could have been an inflection point.


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Dear reader: On Tue 7/18, we launched our cannabis equity research service (see Sector Launch report). We will publish thematic/macro reports during the first few weeks, and then follow with equity stock coverage. With the 7/18 report, we provided a blueprint for the various themes we will discuss in the year ahead. Here we go "in the weeds" with the state level data. Our databases are available upon request.

## High Level Summary

Arguably fundamentals do not drive the MSO group, with federal reform news flow being the main catalyst. That said, as we head into 2 Q earnings season, we review here key trends,

- When it comes to stocks, "less bad" is better than "still good", with the former generating delta, and the latter little movement on stocks. Obvious? We think this helps characterize $2 Q$, price deflation is still a factor, but it has not worsened; $2 Q$ typically sees a seasonal bounce (after 10 seq down), in several states yoy declines are less than in the past.
- Examples of the above: in IL the impact from MO rec is less than what we expected; FL deflation in 2Q lessened; yoy trends between $2 Q$ and $1 Q$ improved in $A Z$.
- On the whole, this may mean better sales trends for $2 Q$, although profit margins may change little from market-related factors (with internal cost savings initiatives the larger driver).
- MI stands out with $39 \%$ sales growth yoy, and accelerating vs. recent qtrs.
- In most states, it may be better to be a retailer than a grower/processor (say, AZ), based on the data, but there are exceptions, like MA, where we think growers are in a better place than retailers (especially, the larger growers).


## Trends State by State

Arizona: 2Q23 flat seq at $\sim \$ 341 \mathrm{Mn}$, down 1\% yoy (an improvement vs. -10\% yoy in 1Q23).

- Sales: Official state data (reported taxable sales) is out through April only (4Q was up $6 \%$ seq, and 10 flat), with average daily sales in Apr up $1 \%$ vs. the $1 Q$ average (we do not focus on tax collected figures as they are more volatile). Headset shows $2 Q$ sales (inc. June) flat seq, and only down 1\% yoy, an improvement vs. 1Q. Based on the official data, reported 1Q23 sales amounted to $\$ 341 \mathrm{Mn}(\mathrm{rec} \$ 251 \mathrm{Mn}$ ), down $10 \%$ yoy (rec $+20 \%$ and med -47\%).
- Stores: There are now 156 dispensaries in AZ now (21 per 1mn people; low for the group), as per potguide. That equates to about $\$ 8.7 \mathrm{Mn}$ in annual sales per store (that is not bad at all compared with states in the NW or MI). We estimate AZ store gross margins near $50 \%$ based on Headset ( $\$ 2.15 / \mathrm{gram}$ ). There are no caps on store ownership in the state (but the total licenses are limited at 167); Trulieve (TCNNF/NC) and Curaleaf (CULRF/NC) lead with >20 each.
- Prices: Wholesale prices are now at $\$ 761 / \mathrm{lb}$, the lowest in the country, and in line with CA. But retail prices for flower average $\$ 4.55 / \mathrm{gram}$ (above MI). So, compared with, say, MI, retailers enjoy better margins (higher retail prices, lower wholesale prices), and we attribute this to the "cap" (and concentrated) on the total number of stores in the state.
- Supplies: There are in essence no caps on the number of licensed growers.
- Brands: In flower, house brands (HB) have 38\% share (2Q23 Headset), and outside HB, ten brands have a combined $33 \%$ share (two brands account for $9 \%$ of the segment, High Grade and Shango). In the vape segment, house brands have $24 \%$, followed by STIIIZY with $16 \%$, Timeless $16 \%$, and Select $7 \%$. In edibles, WYLD has $23 \%$ share and house brands $12 \%$ (the top 10 brands ex HB have $67 \%$ share).


## California: 2Q23 sales of \$1.25Bnn, down 12\% yoy (flat seq).

- Sales: Official state \$ sales data is only out through 1Q23 (-7\% yoy and -6\% qoq). Headset projects 2 Q23 flat seq ( $-0.2 \%$ ), which translates to $\$ 1.25 \mathrm{Bn}$ for 2 Q 23 , or $-12 \%$ yoy (worse than recent prior qtrs with yoy drops in the high single digits).
- Stores: As of $7 / 20 / 23$, there are (in terms of active licenses, as per official state data), 1,216 retail storefronts and 498 retail non-store fronts (some of these may belong to store front owners). As we know, not all municipalities are open to cannabis retailing (CA's average 31 stores per 1 mn people is well below the likes of OR and CO), but the state does have high store density in some locations. That said, assuming negligible sales for non-store front owners without store fronts, the average rev/store of $\$ 4.3 \mathrm{Mn}$ is not bad compared with other states mentioned in this review.
- Prices: Wholesale prices at $\$ 761 / \mathrm{lb}$ (among the lowest in the country), although down $6 \%$ yoy, have recovered after a trough of $\$ 633$ in late Dec'22. Interestingly, CA flower retail prices are higher than in states like MI. As per Headset, average flower price per gram at retail is $\$ 5.84$ in CA. Importantly, gross margins are in the low $50 \%$ s, which implies pretty decent retailer gross profit per gram of almost \$3/gram.
- Supplies: We do not have precise data, and recognize the illicit market is a problem in the state. That said, as mentioned here, several of CA's metrics are most western states, as well as the likes of MI and MA .
- Brands: The flower market is quite fragmented; house brands lead with (only) $6.5 \%$ share, and the top 10 brands ex HB only have a combined share of 22\% (Cannabiotix leads with $3.7 \%$ share, but only four other brands have $>2 \%$ share). In vape, house brands only have $1.3 \%$ share, while the top 10 brands have a combined $59 \%$ share; STIIIZY leads with $24 \%$ (vs. 9\% in 1Q20), with Raw Garden next at \#2 with 7\% (down from 20\% in 1Q20). In edibles, Kiva leads with $30 \%$ share ( $33 \%$ in 1Q20) and WYLD is \#2 with $22 \%$ ( $15 \%$ in 1Q20); in total, the top 10 edibles brands have a combined $83 \%$ share.


## Colorado: 2Q sales of $\$ 380 \mathrm{Mn}$, down 14\% yoy (1Q23 also -14\% yoy).

- Sales: Official state \$ sales data is out through May only (1Q23 was down $14 \%$ yoy, and 4Q22 down 18\%), with average daily sales for Apr/May down $3.5 \%$ seq vs. the 1Q average. Headset shows 2 Q sales (inc June) down $12 \% \mathrm{v}$ yoy ( $-1.7 \%$ seq). If we extrapolate the $3.5 \%$ for June, that means 2 Q 23 sales of $\$ 380 \mathrm{Mn}$, down $14 \%$ yoy Remarkably, $-14 \%$ is less bad than recent qtrs, if that is any solace.
- Stores: There are over 1,100 stores in the state (188 stores per 1 mn people) compared with 755 at the start of 2022 . That translates into about $\$ 1.4 \mathrm{Mn}$ sales per store (only OR is lower at $\$ 1.2 \mathrm{Mn}$ and OK ).
- Prices: Wholesale prices are now at $\$ 801 / \mathrm{lb}$ (among the lowest in the country ex $A Z / C A$ ), stable since 4 Q22, and slightly up from a trough of $\$ 756$ in late Dec. Retail rec prices for flower on average were at $\$ 3.16 / \mathrm{gram}$ in the June qtr (Headset), which is lower than MI. We estimate retailer gross margins in the high 50\%s as per Headset data, but this is a low \$1.84/gram for flower.
- Brands: In flower, house brands have $34 \%$ share (down significantly from $73 \%$ in 1 H 20 ), and ex HB, ten brands only have a combined $29 \%$ share; Maggie's Farm and Green Label each have $4 \%$ flower share. In the vape segment, house brands only have $4 \%$, while the top 10 brands have a combined 47\% share (Eureka! And Spherex lead with 7\% and 6\% share, respectively). In edibles, WYLD leads with $31 \%$ share ( $3 \%$ in 2Q20) and Wana is \#2 with $21 \%$ (down from $28 \%$ in 1Q20); in total, the top 10 brands have a combined $85 \%$ share in edibles.


## Florida: 2Q23 sales of \$477Mn (Headset), up 4\% yoy (vs. -1\% yoy in 1Q23).

- Sales: Headset projects med \$ sales in the state up 9\% qoq, and up $4 \%$ yoy. OMMU volumes point to $10-11 \%$ seq growth for flower and non-flower volumes. Triangulating these numbers would imply about $2 \%$ price deflation seq (a lot better than the high single digit drop we calculate for 1Q23 using the same logic). The state added 2,010 patients per week on average in 2 Q , about $3 \%$ better than the $1 Q$ pace of 1,945 . Assuming all these patients are active, monthly spend is about $\$ 212$.
- Stores: There are 579 stores in the state now compared with 509 at the end of 2022. Although Trulieve remains the leader with 126 stores, it has only opened 3 stores YTD; Verano (VRNOF/NR) is now at 69 stores (+7 YTD), AYR (AYRWF/NC) is at 61 (+6), and Curaleaf at $60(+5)$. We estimate average sales per store for 2 Q IN FL at $\$ 3.35 \mathrm{Mn}$ per annum (low). That said, OMMU implies Trulieve volumes per store are 2.4 x vs. peers (for flower this ratio has been steady at $2.5 x$ for the past year, but for non-flower the gap increased from $1.8 x$ to $2.3 x$ in favor of Trulieve).
- Prices: We have not completed our retail price surveys as of publication, and we do not have wholesale price data for FL.
- Supplies: As per Headset, $43 \%$ of sales in 2Q23 were flower, $25 \%$ vape, and $14 \%$ edibles.


## Illinois: 2Q23 sales of $\mathbf{\$ 4 8 4 M n}$, up $\mathbf{1 \%}$ and $+\mathbf{4 \%}$ seq.

- Sales: Official state $\$$ sales data is out through June, pointing to $\$ 484 \mathrm{Mn}$ sales for 2Q23, with rec at $\$ 401 \mathrm{Mn}$ (+3\% yoy) and med down $9 \%$ ( $-18 \% 2 \mathrm{yr}$ stacked) to $\$ 83 \mathrm{Mn}$. Although stores bordering with MO have seen a meaningful impact on sales, in the aggregate the impact has been less than we expected. True, out of state shoppers accounted for $25 \%$ of total rec sales this June vs. 32\% a year ago, and sales to out of state shoppers fell $15 \%$ yoy in June, but this was less than the 20\% drop seen in Apr/May.
- Stores: The IDFPR has issued 132 licenses for adult use dispensaries (inc. 20 issued this year), besides another 185 social equity licenses (CAUDO) issued $7 / 22 / 22$ (in the process of slowly opening). We estimate the number of open stores at present at 122 , which means rev/store of near $\$ 16 \mathrm{Mn}$ (among the highest in the US), with wide variance across stores (depending on location and operators). As explained below, gross profits per store of $\$ 8.8 \mathrm{Mn}$ are among the best nationwide.
- Prices: Wholesale prices at $\$ 2,332 / \mathrm{lb}$ (among the highest in the US) are down $32 \%$ yoy but have remained pretty stable since March - we attribute these to the opening of new stores in the state. We estimate retail prices per gram at $\$ 12$ and retailer gross margins at $56 \%$ in flower, or $\$ 6.70$ per gram. In short state economics remain quite attractive.
- Supplies: According to Headset, in 2Q23 flower accounted for $42 \%$ of sales, vape for $27 \%$, edibles for $13 \%$, and pre rolls for $10 \%$. The mix has been pretty consistent for the past two years.
- Brands: We do not have brand data at present.


## Maryland: 2Q sales up 5\% seq but down 7\% yoy.

- Sales: Rec sales began on $7 / 1 / 23$ in MD ( $\$ 21 \mathrm{Mn}$ sold in the first seven days of rec). Med sales in 2Q23 reached $\$ 123 \mathrm{Mn}$ (we calculate average $\$ 260$ monthly spend per registered patient), up 5\% seq but down 7\% yoy (still better than low-teen drops in recent qtrs.). The ongoing decline is understandable given the anticipation of the start of rec.
- Stores: The potguide website shows 94 stores open ( $69 \mathrm{rec} / \mathrm{med}, 23 \mathrm{med}$, and 2 just rec). If the latter numbers are accurate, that would mean about ${ }^{\sim} \$ 5 \mathrm{Mn}$ in sales per store.
- Prices: We do not have wholesale prices for MD. But we can estimate retail prices. According to Headset, in 2Q23 flower sales represented $47 \%$ of sales, vape $23 \%$, and edibles $12 \%$. Based on the retail volume data, that would mean average flower prices of $\$ 5.56 / \mathrm{gram}$ in June ( $\$ 19.46$ for $1 / 8 \mathrm{oz}$ ).
- Supplies: Stores clearly stocked up ahead of July 1st, flower volumes sold by growers was $1.5 x$ dispensary volumes sold in the month of June.


## Massachusetts: up 5\% seq and yoy to \$445Mn (vs. -1\% yoy in 1Q23).

- Sales: 2Q sales reached $\$ 445 \mathrm{Mn}$ (official state data), with rec at $\$ 387 \mathrm{Mn}$ (+6\% yoy) and med at $\$ 60 \mathrm{Mn}$ (down $2 \%$ yoy and $-20 \%$ on a $2 y r$ stacked basis).
- Stores: There are now 396 dispensaries open in MA (potguide), or 57 stores per 1 mn people, but density varies by municipality (Boston 10 stores, Cambridge 12, Charlestown 14 , Somerville, Worcester 14). Rev per store is at $\$ 4.5 \mathrm{Mn}$.
- Prices: Wholesale prices are now at $\$ 1,306 / \mathrm{lb}$, stable since Feb, but down $40 \%$ yoy. Retail rec prices for flower on average were at \$5.82/gram in June (state data), below NV but higher than AZ and MI. We estimate gross margins in the mid 50s as per Headset data, and at $\$ 3.37 /$ gram for flower.
- Supplies: Total plants harvested in April were up $92 \%$ yoy, while $\$$ sales are up only midsingle digits. Obviously, this explains the wholesale price deflation. But as mentioned, retailer gross margins in \% terms remain robust.
- Brands: In flower, house brands have $38 \%$ share (2Q23 Headset), and ex HB, ten brands have a combined $21 \%$ share; Cresco's (CRLBF/NR) High Supply leads among flower brands with $6 \%$ share. In the vape segment, house brands have $29 \%$ share, followed by Fernway with $8 \%$ and Green Thumb's (GTBIF/NC) Rhythm with $6 \%$; the top 10 vape brands ex HB have $38 \%$ segment share. In edibles, Kiva leads with $15 \%$ share (house brands 14\%), followed by Wana at \#2 with $11 \%$ share, Coast Cannabis 7\%, Marimed's (MRMD/NC) Betty's Eddies 6\%, and Green Thumb's Incredibles 5\%.

Michigan: $2 \mathrm{Q} 23+\mathbf{2 3 \%}$ seq and $+39 \%$ yoy; in line with the 1 Q 23 pace, and above the $\mathbf{2 H} 22$ pace.

- Sales: 2 Q sales reached $\$ 792 \mathrm{Mn}$ (official state data), with rec representing the bulk of sales ( $\$ 770 \mathrm{Mn}$ ). Med sales were down 31\% yoy in 2Q23 while rec was up $55 \%$ yoy.
- Stores: There are now 694 active dispensary license operators with rec licenses, plus 305 with med licenses; adjusting for overlap there are 735 stores open (potguide). That equates to $\$ 4.3 \mathrm{Mn}$ in annual sales per store, which is not bad given the market's retail fragmentation (sales of $\$ 4 \mathrm{Mn}$ for a small mom-and-pop one store operation is not a bad number), and we estimate store gross margins in the mid 40s. But density is an issue, with only 135 municipalities opting in for rec vs. 1,373 opting out.
- Prices: Wholesale prices (end of June) at $\$ 1,006 / \mathrm{lb}$ have been stable YTD and bottomed at $\$ 933$ at the end of Sep'22. That said, we do not expect reflation. At retail, flower prices on average are $\$ 11.9$ for $1 / 8 \mathrm{oz}(\$ 3.40 / \mathrm{gram})$. So, gross profit per gram is low vs. other states at $\$ 1.53 /$ gram. But on whole these are not bad economics compared with some of the western states, and notwithstanding the large \# of stores in the state.
- Supplies: There are 919 active licensed growers (A to C) and 232 processors, for rec. As per the state data, flower accounted for $46 \%$ of rec sales in 2 , vape for $18 \%$, edibles for $10 \%$, and inhalable compound concentrates for $8 \%$.
- Brands: The flower segment remains rather fragmented, with house brands holding $28 \%$ share (2Q23 Headset), and ten brands with a combined $21 \%$ share (the \#1 brand, Pro Gro has $3.9 \%$ share). Vape is only slightly less fragmented (house brand $17 \%$ ), with the top 10 brands (ex-house brand) having a combined 45\% share (\#1 is Mitten 7.5\%; \#2 Drip 7.4\%). In edibles house brands only have 7\% share (WYLD 12\%, Choice 11\%, Kiva 9\%); in total, the top 10 brands ex HB have $61 \%$ segment share.


## Missouri: 2Q23 sales of $\mathbf{\$ 3 6 3 M n}$, up 286\% yoy and $\mathbf{3 6 \%}$ seq.

- Sales: Rec sales began in Feb'23 and reached $\$ 95 \mathrm{Mn}$ in the month of June (vs. $\$ 37 \mathrm{Mn}$ in med sales in Jan'23, or about 3x). But after the initial spurt monthly rec sales growth has stalled, with June up only $2 \%$ vs. March sales (supply constraints have been an issue, we are told). That said, total sales almost $4 \times 2 \mathrm{Q} 22$ levels is remarkable in such a short period.
- Stores: As per the state website, there are 197 dispensaries licensed to operate (for both rec and med services), but potguide shows 129 as open. If the latter is right, then that implies rev/store over $\$ 11 \mathrm{Mn}$ pa (again, a solid metric).
- Prices: We understand wholesale prices are about $\$ 2,500 / \mathrm{lb}$.


## Nevada: 2Q23 up >1\% to $\mathbf{\$ 2 1 6 M n}$, down 5\% yoy (an improvement vs. -9\% yoy in 1Q23).

- Sales: Official state data is out through April only ( 4 Q was flat seq, and $1 Q+1 \%$ ), with average daily sales up $1.5 \%$ vs. the $1 Q$ average. Headset shows $2 Q$ sales (inc. June) up $1.2 \%$. The official state data shows 1Q23 sales of $\$ 213 \mathrm{Mn}$, down $9 \%$ yoy. Visitor volumes to Las Vegas (LVCA) were robust in 1Q23 (+19\% yoy, and $+7 \%$ yoy in 4Q22), but are now up only $3 \%$ yoy thru May for the last 3 months.
- Stores: There are now 66 dispensaries in NV now (potguide), with 32 in Las Vegas; Clark County account for $77 \%$ of NV total sales. We estimate the Planet 13 (PLNHF/NR) store (in terms of in-store revenue) has 9\% share in Clark County and 7\% in NV overall.
- Prices: Wholesale prices are now at $\$ 1,486 / \mathrm{lb}$, down $16 \%$ yoy. Retail prices for flower on average are at $\$ 6.47 / \mathrm{gram}$ (Headset), well above neighboring AZ. Based on Headset, we estimate flower gross margins at 46\% (vape and edibles in the mid 50s).
- Brands: In flower, house brands have $17 \%$ share (2Q23 Headset), and ex HB, ten brands have a combined $37 \%$ share; Curaleaf has $12 \%$ flower share (not counting what it sells in its own stores), with the next brand at $4 \%$. In the vape segment, brands dominate (house brands only $2.6 \%$ share), with STIIIZY at $13 \%$ and Select at $8 \%$; the top 10 brands have $56 \%$ share. In edibles, WYLD has $31 \%$ share, and Wana and Incredibles each 9\% (the top 10 brands ex HB have $78 \%$ share, and house brands only $0.9 \%$ ).


## New Jersey: Sales seems to be slowing only one year after launch.

- Sales: 2 Q sales are not out yet, but in $1 Q 23$ total $\$$ sales were down $2 \%$ seq after only $3 \%$ seq growth in 4Q. Total 1 Q23 sales of $\$ 179 \mathrm{Mn}$, were comprised by $\$ 145 \mathrm{Mn}$ in rec sales ( $+9 \%$ seq) and $\$ 34 \mathrm{Mn}$ in med ( $-31 \%$ qoq and $-38 \%$ yoy). We attribute the paltry trends in total sales to high prices and the slow rollout of stores.
- Stores: As per potguide there were 30 stores in operation as of $7 / 20$, or which only 19 offered rec/med (the other 11 only offered med). That said, as of $6 / 21$ a total of 702 conditional retail licenses had been issued. If we just take rec sales, average rev per store for those 19 stores is $\$ 30 \mathrm{Mn}$. Red tape, township pushback, and capital constraints, all explain the slow opening of stores.
- Prices: Our retail surveys point to $\$ 14 /$ per gram (among the highest in the country). With $50 \%$ gross margins, we estimate stores on average generate $\$ 15 \mathrm{Mn}$ in gross profits per annum.
- Supplies: There are now 21 cultivation facilities licenses, and an additional 287 conditional cultivation licenses have been issued (as of 7/8).


## New Mexico: 2Q sales up $8 \%$ seq and $\mathbf{+ 2 1 \%}$ yoy.

- Sales: The official sales data point to $\$ 140 \mathrm{Mn}$ in sales for 2 Q 23 , up $21 \%$ yoy and $+8 \%$ seq. Rec sales only began in April 2022, and reached $\$ 96 \mathrm{Mn}$ in 2 Q 23 (+49\% yoy). Med sales sales of $\$ 43 \mathrm{Mn}$ were stable seq. and down $15 \%$ yoy. But we remain perplexed by the average patient $\$$ spend per month in NM (north of $\$ 350$ ).
- Stores: The number of licenses issued is now 1,047 , but the potguide website only shows 94 stores open ( $69 \mathrm{rec} / \mathrm{med}, 23 \mathrm{med}$, and 2 just rec). If the latter numbers are accurate, that would mean about $\$ 6 \mathrm{Mn}$ in sales per store per annum.
- Prices: Wholesale prices are now at $\$ 1,373 / \mathrm{lb}$, down $10 \%$ since the start of the year, and down $38 \%$ yoy. Still, compared with other western states, these are relatively good prices.


## Ohio: 2Q23 sales flat seq and yoy.

- Sales: Med sales of $\$ 119 \mathrm{Mn}$ in 2 Q 23 were flat yoy and seq; trend wise this is a slowdown vs. $5 \%$ yoy growth in 1Q23 and $+14 \%$ in 1Q23. There were 174,591 active patients as of $5 / 31$, which implies about $\$ 225$ monthly spend per patient.
- Stores: The state regulator has issued 92 certificates of operations for dispensaries, but according to potguide only 61 have opened (the official page says 41 stores are active only, but we take the potguide as accurate). If so (61), that would mean $\$ 7.8 \mathrm{Mn}$ in revenues per store (well above average for a med state).
- Prices: We do not have wholesale prices for OH , or retail for that matter, for now.
- Supplies: As of $6 / 27$ there were 32 operational cultivator licenses in the state ( 20 level I and 12 level II), which is mostly unchanged yoy.

Other: At the time of this report, we do not have reliable sales data for states like PA, VA, $\mathrm{MN}, \mathrm{CT}$, or NY. Brief color on these and other states,

- PA: We do not have a lot of fresh data. Wholesale prices in mid-July are \$1,754/lb, down $22 \%$ since Oct, but slightly up since Apr.
- NY: We await final news when and if existing med operators can start offering rec services and supplying $3^{\text {rd }}$ party rec retail stores.
- MN: The state will not begin rec sales until early 2024. There are only two licensees there for now, Green Thumb and Goodness Growth (GDNSF/NC).
- CT: Wholesale flower prices are now at \$2,689; although down 8\%, they are mostly stable YTD, and well above most states. There are 19 med stores in the state at present with most by now offering rec.
- ME is a small market, but we note rec sales increased $43 \%$ yoy in 2 Q 23 to $\$ 52 \mathrm{Mn}(+15 \%$ seq, partly on seasonality). Average price per gram at retail is low compared with other eastern states at $\$ 7.69 /$ gram (this is down $22 \%$ yoy). There are 120 rec stores in the state (\$1.7Mn rev/store).
- WA: 2Q23 sales are seen down 4\% yoy, but +3\% seq, as per Headset. Wholesale prices of $\$ 899$ are down 5\% yoy. Retail prices per gram are only \$3.36; retailer gross margins of $54 \%$ are equivalent to only $\$ 1.82 /$ gram. We estimate rev/store of $\$ 2.9 \mathrm{Mn}$ ( 434 stores, or 57 per 1 mn people).
- OR: 2Q23 sales of $\$ 242 \mathrm{Mn}$ (official data) were down $6 \%$ yoy (better than $-9 \%$ in $1 Q 23$ ), and mid-teen yoy declines for most of 2022. Wholesale prices of $\$ 734$ are the lowest in the country but are up 7\% yoy after a trough in mid 2022. Retail prices per gram are only $\$ 3.75$ are only slightly higher than WA, but retailer gross margins are higher at $64 \%$ for flower \$2.39/gram. With over 820 stores (200 per 1 mn people), we estimate rev/store pa at only $\$ 1.2 \mathrm{Mn}$.


## Appendix I: Market Projections \& Data

Exhibit 1: US Legal Cannabis Sales at Retail

| US\$ Mn | CY20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | CY21 | 1Q22 | 2Q22 | 3Q22 | 4Q22 | CY22 | 1Q23 | 2Q23 | 3Q23e | 4Q23e | CY23e | CY24e | CY25e |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 17,888 | 5,675 | 6,455 | 6,428 | 6,372 | 24,930 | 6,122 | 6,589 | 6,557 | 6,627 | 25,895 | 6,687 | 7,158 | 7,187 | 7,319 | 28,352 | 31,513 | 36,409 |
| rec | 11,478 | 3,690 | 4,341 | 4,301 | 4,229 | 16,561 | 3,987 | 4,325 | 4,348 | 4,384 | 17,045 | 4,240 | 4,551 | 4,484 | 4,558 | 17,833 | 19,387 | 22,117 |
| med | 6,410 | 1,985 | 2,114 | 2,127 | 2,143 | 8,369 | 2,134 | 2,263 | 2,210 | 2,242 | 8,850 | 2,447 | 2,607 | 2,704 | 2,762 | 10,519 | 12,126 | 14,292 |
| Total (med/rec) | 17,888 | 5,675 | 6,455 | 6,428 | 6,372 | 24,930 | 6,122 | 6,589 | 6,557 | 6,627 | 25,895 | 6,687 | 7,158 | 7,187 | 7,319 | 28,352 | 31,513 | 36,409 |
| AZ | 1,034 | 419 | 517 | 493 | 505 | 1,934 | 480 | 470 | 443 | 451 | 1,844 | 418 | 414 | 413 | 418 | 1,663 | 1,677 | 1,695 |
| CA | 4,480 | 1,341 | 1,565 | 1,429 | 1,445 | 5,780 | 1,328 | 1,413 | 1,298 | 1,343 | 5,382 | 1,250 | 1,314 | 1,284 | 1,333 | 5,181 | 5,299 | 5,418 |
| CO | 2,191 | 562 | 588 | 577 | 503 | 2,229 | 459 | 447 | 451 | 411 | 1,769 | 394 | 398 | 403 | 398 | 1,593 | 1,629 | 1,680 |
| CT | 117 | 37 | 40 | 42 | 44 | 163 | 45 | 45 | 45 | 45 | 182 | 59 | 68 | 77 | 90 | 294 | 429 | 593 |
| FLA | 842 | 308 | 360 | 385 | 403 | 1,456 | 428 | 446 | 416 | 450 | 1,740 | 437 | 477 | 524 | 534 | 1,973 | 2,231 | 2,418 |
| GA | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 5 | 7 | 16 | 9 | 12 | 16 | 23 | 60 | 198 | 312 |
| IL | 1,035 | 377 | 448 | 471 | 481 | 1,776 | 452 | 479 | 482 | 494 | 1,907 | 467 | 484 | 498 | 508 | 1,957 | 2,034 | 2,127 |
| MA | 921 | 346 | 407 | 452 | 439 | 1,644 | 426 | 425 | 458 | 446 | 1,755 | 423 | 447 | 461 | 455 | 1,786 | 1,819 | 1,853 |
| MD | 453 | 138 | 140 | 137 | 136 | 551 | 134 | 132 | 125 | 119 | 509 | 118 | 123 | 155 | 178 | 575 | 938 | 1,232 |
| ME | 41 | 14 | 20 | 32 | 30 | 96 | 32 | 39 | 53 | 47 | 171 | 48 | 47 | 62 | 56 | 214 | 254 | 302 |
| MI | 985 | 359 | 451 | 498 | 484 | 1,793 | 461 | 569 | 630 | 635 | 2,294 | 642 | 792 | 635 | 622 | 2,690 | 2,810 | 2,901 |
| MN | 20 | 5 | 5 | 7 | 8 | 25 | 10 | 12 | 15 | 18 | 55 | 25 | 28 | 34 | 41 | 128 | 219 | 275 |
| MO | 21 | 24 | 41 | 66 | 79 | 210 | 84 | 94 | 101 | 111 | 390 | 266 | 363 | 371 | 379 | 1,380 | 1,649 | 1,807 |
| NH | 35 | 11 | 11 | 11 | 11 | 44 | 12 | 13 | 13 | 13 | 50 | 13 | 14 | 14 | 14 | 54 | 55 | 60 |
| NJ | 196 | 50 | 52 | 56 | 59 | 217 | 56 | 139 | 178 | 183 | 556 | 179 | 187 | 199 | 210 | 776 | 923 | 1,057 |
| NM | 119 | 29 | 30 | 30 | 30 | 119 | 0 | 116 | 121 | 122 | 358 | 130 | 140 | 141 | 144 | 554 | 560 | 572 |
| NV | 780 | 253 | 284 | 259 | 246 | 1,042 | 234 | 227 | 211 | 211 | 882 | 213 | 215 | 211 | 207 | 846 | 866 | 890 |
| NY | 200 | 60 | 61 | 63 | 66 | 250 | 72 | 74 | 75 | 80 | 300 | 82 | 88 | 95 | 109 | 374 | 739 | 1,421 |
| OH | 223 | 83 | 95 | 97 | 104 | 379 | 114 | 120 | 116 | 118 | 467 | 120 | 119 | 130 | 134 | 503 | 552 | 614 |
| OK | 428 | 123 | 125 | 125 | 128 | 502 | 144 | 147 | 147 | 150 | 588 | 169 | 173 | 173 | 176 | 690 | 810 | 950 |
| OR | 1,111 | 299 | 317 | 299 | 269 | 1,184 | 253 | 258 | 248 | 235 | 994 | 231 | 242 | 253 | 239 | 966 | 985 | 1,005 |
| PA | 765 | 307 | 350 | 360 | 377 | 1,394 | 359 | 377 | 375 | 373 | 1,483 | 374 | 364 | 354 | 344 | 1,436 | 1,379 | 1,777 |
| RI | 50 | 15 | 15 | 14 | 14 | 58 | 15 | 16 | 16 | 19 | 66 | 42 | 48 | 58 | 69 | 217 | 365 | 567 |
| VA | 10 | 1 | 4 | 9 | 12 | 27 | 16 | 20 | 29 | 36 | 101 | 44 | 51 | 58 | 65 | 218 | 372 | 1,032 |
| VT | 37 | 13 | 13 | 13 | 13 | 52 | 18 | 18 | 18 | 19 | 73 | 23 | 24 | 24 | 24 | 94 | 108 | 117 |
| WA | 1,380 | 371 | 381 | 368 | 345 | 1,464 | 328 | 327 | 323 | 316 | 1,294 | 304 | 313 | 325 | 318 | 1,259 | 1,265 | 1,272 |
| WV | 0 | 4 | 4 | 4 | 3 | 15 | 3 | 4 | 5 | 7 | 20 | 10 | 12 | 14 | 16 | 52 | 73 | 85 |
| Other states | 414 | 127 | 131 | 132 | 135 | 526 | 156 | 162 | 163 | 168 | 648 | 197 | 205 | 206 | 214 | 822 | 1,275 | 2,378 |

Source: Official state data, Headset, company reports and Z\&A estimates

Exhibit 2: Sales Trends for 16 MSOs

|  | CY20 | 1Q21 | 2Q21 | 3Q21 | 4Q21 | FY21 | 1022 | 2 Q 22 | 3Q22 | 4 Q 22 | FY22 | 1Q23 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SALES |  |  |  |  |  |  |  |  |  |  |  |  |
| Acreage | 114.5 | 38.4 | 44.2 | 48.2 | 58.1 | 188.9 | 56.9 | 61.4 | 61.4 | 57.5 | 237.1 | 56.0 |
| Ascend | 143.7 | 66.1 | 83.4 | 94.4 | 88.5 | 332.4 | 85.1 | 97.5 | 111.2 | 112.1 | 405.9 | 114.2 |
| AYR | 155.1 | 58.4 | 91.3 | 96.2 | 111.8 | 357.6 | 99.5 | 110.1 | 119.6 | 136.3 | 465.6 | 117.7 |
| Columbia Care | 179.5 | 86.1 | 102.4 | 132.3 | 139.3 | 460.1 | 123.1 | 129.6 | 132.7 | 126.2 | 511.6 | 124.5 |
| Cresco | 476.3 | 178.4 | 210.0 | 215.5 | 217.8 | 821.7 | 214.4 | 218.2 | 210.5 | 199.6 | 842.7 | 194.2 |
| Curaleaf | 626.6 | 260.3 | 312.2 | 317.1 | 306.3 | 1,196.0 | 296.1 | 337.6 | 339.7 | 363.0 | 1,336.3 | 336.5 |
| 4Front | 57.6 | 23.0 | 27.1 | 25.9 | 28.5 | 104.6 | 26.0 | 28.4 | 32.5 | 31.6 | 118.6 | 30.4 |
| Green Thumb | 556.6 | 194.4 | 221.9 | 233.7 | 243.6 | 893.6 | 242.6 | 254.3 | 261.2 | 259.3 | 1,017.4 | 248.5 |
| Jushi | 80.8 | 41.7 | 47.7 | 54.0 | 65.9 | 209.3 | 61.9 | 72.8 | 72.8 | 76.8 | 284.3 | 69.9 |
| Marimed | 50.9 | 24.6 | 32.6 | 33.2 | 31.0 | 121.5 | 31.3 | 33.0 | 33.9 | 35.8 | 134.0 | 34.4 |
| Planet13 | 70.5 | 23.8 | 32.8 | 33.0 | 29.9 | 119.5 | 25.7 | 28.4 | 25.6 | 24.8 | 104.6 | 24.9 |
| Schwazze | 24.0 | 19.3 | 30.7 | 31.8 | 26.5 | 108.4 | 31.8 | 44.3 | 43.2 | 40.1 | 159.4 | 40.0 |
| TerrAscend | 148.0 | 53.4 | 58.7 | 49.1 | 33.0 | 194.2 | 48.6 | 64.8 | 67.0 | 67.4 | 247.8 | 69.4 |
| Tilt | 158.4 | 46.8 | 48.5 | 53.4 | 54.1 | 202.7 | 42.4 | 47.1 | 40.5 | 44.3 | 174.2 | 42.3 |
| Trulieve | 521.5 | 193.8 | 215.6 | 224.1 | 304.9 | 938.4 | 317.7 | 318.5 | 300.8 | 302.8 | 1,239.8 | 289.1 |
| Verano | 228.5 | 120.9 | 198.7 | 206.8 | 211.4 | 737.9 | 202.2 | 223.7 | 227.6 | 225.9 | 879.4 | 227.1 |

Source: Company reports, and Z\&A estimates

## Exhibit 3: Adj EBITDA Margins

|  | CY20 | 1Q21 | 2 Q 21 | 3Q21 | 4Q21 | FY21 | 1Q22 | 2 Q 22 | 3Q22 | 4Q22 | FY22 | 1Q23 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EBITDA MARGIN |  |  |  |  |  |  |  |  |  |  |  |  |
| Acreage | -26\% | 4\% | 18\% | 13\% | 15\% | 13\% | 15\% | 17\% | 14\% | 12\% | 15\% | 19\% |
| Ascend | 21\% | 24\% | 24\% | 25\% | 22\% | 24\% | 19\% | 21\% | 25\% | 25\% | 23\% | 20\% |
| AYR | 32\% | 32\% | 30\% | 27\% | 23\% | 27\% | 16\% | 18\% | 18\% | 22\% | 19\% | 22\% |
| Columbia Care | -11\% | 4\% | 11\% | 23\% | -47\% | 13\% | 14\% | 9\% | 16\% | 14\% | 13\% | 13\% |
| Cresco | 13\% | 20\% | 22\% | 26\% | 26\% | 24\% | 24\% | 23\% | 20\% | 15\% | 20\% | 15\% |
| Curaleaf | 23\% | 24\% | 21\% | 23\% | 21\% | 22\% | 28\% | 22\% | 22\% | 20\% | 23\% | 27\% |
| 4Front | 28\% | 19\% | 28\% | 29\% | 38\% | 32\% | 28\% | 32\% | 29\% | 6\% | 27\% | 12\% |
| Green Thumb | 32\% | 37\% | 36\% | 35\% | 31\% | 34\% | 28\% | 31\% | 32\% | 31\% | 31\% | 31\% |
| Jushi | 5\% | 11\% | 17\% | 11\% | -7\% | 7\% | -1\% | 1\% | 1\% | 9\% | 2\% | 11\% |
| Marimed | 32\% | 33\% | 43\% | 38\% | 6\% | 35\% | 33\% | 27\% | 25\% | 17\% | 24\% | 21\% |
| Planet13 | 12\% | 25\% | 19\% | 8\% | 6\% | 14\% | 10\% | 5\% | 2\% | -3\% | 3\% | 3\% |
| Schwazze | -32\% | 30\% | 33\% | 28\% | 28\% | 30\% | 25\% | 34\% | 37\% | 33\% | 33\% | 36\% |
| TerrAscend | 32\% | 40\% | 40\% | 19\% | 47\% | 36\% | 10\% | 9\% | 17\% | 25\% | 16\% | 18\% |
| Tilt | -5\% | 12\% | 15\% | 9\% | 8\% | 11\% | 4\% | 2\% | 1\% | -1\% | 2\% | 0\% |
| Trulieve | 50\% | 47\% | 44\% | 44\% | 33\% | 41\% | 33\% | 34\% | 33\% | 34\% | 32\% | 27\% |
| Verano | 77\% | 50\% | 41\% | 54\% | 41\% | 46\% | 43\% | 34\% | 36\% | 35\% | 37\% | 35\% |

Source: Company reports, and Z\&A estimates

## Exhibit 4: Operating Cashflow Before Income Tax Payments

|  | CY20 | 1Q21 | 2 Q 21 | 3 Q21 | 4Q21 | FY21 | $1 Q^{2} 2$ | 2 Q 22 | 3 Q 22 | 4Q22 | FY22 | 1Q23 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| OCF BEFORE TAX PAYMENT |  |  |  |  |  |  |  |  |  |  |  |  |
| Acreage | -95.0 | -0.3 | -21.0 | 2.1 | -13.3 | -32.5 | -3.5 | -0.7 | -6.8 | -28.7 | -39.7 | -6.2 |
| Ascend | -5.6 | -3.1 | 7.8 | -17.5 | -5.1 | -17.9 | -10.7 | 0.9 | -0.6 | 15.3 | 4.8 | 3.7 |
| AYR | 42.4 | -3.8 | -1.6 | 2.8 | -3.5 | -6.1 | 0.5 | -7.6 | -1.3 | 2.4 | -5.9 | 10.5 |
| Columbia Care | -65.8 | 6.0 | -10.5 | -18.7 | -3.7 | -26.9 | -32.4 | -21.6 | -16.1 | -60.0 | -130.0 | -1.4 |
| Cresco | -0.1 | 9.3 | 6.6 | -18.8 | 46.6 | 43.7 | 2.2 | 21.7 | 21.1 | 14.8 | 59.8 | 50.7 |
| Curaleaf | 31.2 | -5.8 | 16.2 | 45.2 | -21.1 | 34.6 | 43.3 | 56.8 | 71.5 | 14.8 | 186.5 | 2.1 |
| 4Front | -8.9 | 3.7 | 1.4 | -0.6 | 2.8 | 7.2 | -2.6 | 0.5 | 1.1 | 7.1 | 6.1 | -6.4 |
| Green Thumb | 169.1 | 56.5 | 68.3 | 55.8 | 90.7 | 271.3 | 55.2 | 49.2 | 78.8 | 67.3 | 250.5 | 82.1 |
| Jushi | 9.2 | 6.9 | -5.7 | 7.6 | -4.8 | 4.1 | -53.2 | 34.9 | -7.2 | -6.8 | -32.3 | -2.9 |
| Marimed | 5.4 | 8.0 | 14.6 | 14.7 | -1.7 | 35.6 | 8.6 | 5.3 | 4.4 | -0.1 | 18.2 | 0.8 |
| Planet13 | 12.9 | 0.1 | 7.3 | 3.8 | 2.3 | 13.6 | 0.0 | 6.7 | 2.2 | -1.8 | 7.1 | 3.0 |
| Schwazze | -10.7 | 2.2 | -0.1 | 3.7 | 5.0 | 10.8 | 3.6 | -4.8 | 6.9 | 15.2 | 21.0 | -1.5 |
| TerrAscend | -28.5 | 10.9 | -2.6 | 1.8 | 12.7 | 22.8 | -34.3 | 4.2 | -42.4 | 26.4 | -46.1 | 9.4 |
| Tilt | 13.9 | 3.1 | 1.0 | -8.7 | -17.8 | -22.4 | 2.7 | -8.3 | 10.8 | 5.4 | 10.6 | 4.6 |
| Trulieve | 200.5 | 57.6 | 61.1 | 67.5 | -49.0 | 137.2 | 38.2 | 43.1 | 25.8 | 56.4 | 163.5 | 48.7 |
| Verano | 78.3 | 16.6 | 50.8 | 76.1 | 35.7 | 179.2 | 27.9 | 62.8 | 30.2 | -19.3 | 101.6 | 50.2 |

Source: Company reports, and Z\&A estimates

## Appendix II: Valuation Comps

## Exhibit 5: Valuation Comps - Part I

| Company name | 7/21/2023 |  |  |  |  |  |  | 1yF Estimates (US\$ Mn) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ticker | Listing | Price US\$ | Mkt <br> Cap | shares | net (debt) | Ent Value | $\begin{gathered} \text { EV/Sales } \\ 1 \mathrm{yF} \\ \hline \end{gathered}$ | $\begin{gathered} \text { EV/EBITDA } \\ 1 \mathrm{yF} \\ \hline \end{gathered}$ | Sales | EBITDA | EBITDA mgn \% | Net debt EBITDA |
| US MSOs |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4Front Ventures Corp. | FFNTF | US OTC | 0.15 | 94 | 643 | -226 | 320 | 2.1x | $8.7 x$ | 153 | 37 | 24\% | -6.2x |
| Acreage Holdings, Inc. Class D | ACRDF | US OTC | 0.20 | 7 | 34 | -215 | 222 | 0.9x | 4.8 x | 237 | 47 | 20\% | -4.6x |
| Ascend Wellness Holdings LLC Class A | AAWH | US OTC | 0.64 | 119 | 188 | -489 | 608 | 1.2x | 5.1x | 512 | 118 | 23\% | -4.1x |
| Ayr Wellness, Inc. | AYRWF | US OTC | 1.00 | 60 | 60 | -577 | 637 | 1.2 x | 4.7 x | 544 | 135 | 25\% | -4.3x |
| Columbia Care, Inc. | CCHWF | US OTC | 0.43 | 168 | 391 | -519 | 687 | 1.2 x | 6.4 x | 551 | 107 | 19\% | -4.9x |
| Cresco Labs, Inc. | CRLBF | US OTC | 1.72 | 484 | 281 | -549 | 1,032 | 1.2 x | 6.2 x | 828 | 167 | 20\% | -3.3x |
| Curaleaf Holdings, Inc. | CURLF | US OTC | 3.56 | 2,220 | 624 | -988 | 3,207 | 2.3 x | $9.0 x$ | 1,414 | 358 | 25\% | -2.8x |
| Glass House Brands Inc | GLASF | US OTC | 3.04 | 169 | 56 | -59 | 229 | 1.2x | 12.4 x | 195 | 18 | 9\% | -3.2x |
| GOLD FLORA CORPORATION | GRAMF | US OTC | 0.16 | 17 | 108 | 30 | -13 | $-0.2 \mathrm{x}$ | 0.3 x | 76 | -43 | -56\% | -0.7x |
| Goodness Growth Holdings, Inc. | GDNSF | US OTC | 0.15 | 13 | 87 | -124 | 137 | 1.4 x | 7.8x | 95 | 18 | 18\% | -7.1x |
| Green Thumb Industries Inc. | GTBIF | US OTC | 7.12 | 1,474 | 207 | -358 | 1,832 | 1.7 x | 5.4x | 1,108 | 341 | 31\% | -1.0x |
| Grown Rogue International Inc. | GRUSF | US OTC | 0.19 | 33 | 171 | -3 | 37 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Jushi Holdings Inc Class B | JUSHF | US OTC | 0.47 | 93 | 197 | -295 | 388 | 1.2x | 7.2x | 316 | 54 | 17\% | -5.5x |
| Lowell Farms Inc | LOWFL | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| MariMed Inc | MRMD | US OTC | 0.40 | 136 | 341 | -26 | 162 | 1.0x | 3.8 x | 164 | 43 | 26\% | -0.6x |
| Planet 13 Holdings, Inc. | PLNHF | US OTC | 0.56 | 124 | 220 | 25 | 99 | 0.9x | 12.5x | 112 | 8 | 7\% | 3.2 x |
| Red White \& Bloom Brands, Inc. | RWBYF | US OTC | 0.05 | 21 | 470 | -142 | 163 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Schwazze | SHWZ | US OTC | 0.96 | 53 | 55 | -114 | 167 | 0.8x | 2.3 x | 213 | 74 | 35\% | $-1.5 x$ |
| StateHouse Holdings Inc | STHZF | US OTC | 0.03 | 8 | 252 | -140 | 148 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| TerrAscend Corp. | TSNDF | US OTC | 1.60 | 415 | 260 | -216 | 632 | 1.9x | 9.0x | 328 | 70 | 21\% | -3.1x |
| TILT Holdings, Inc. | TLLTF | US OTC | 0.03 | 11 | 334 | -102 | 114 | 0.6x | 20.2x | 191 | 6 | 3\% | -18.2x |
| Trulieve Cannabis Corp. | TCNNF | US OTC | 4.35 | 695 | 160 | -269 | 964 | 0.8x | 3.0x | 1,174 | 326 | 28\% | -0.8x |
| Verano Holdings Corp. Class A | VRNOF | US OTC | 2.95 | 963 | 327 | -414 | 1,377 | 1.4 x | 4.2x | 1,007 | 326 | 32\% | $-1.3 x$ |
| Vext Science, Inc. | VEXTF | US OTC | 0.20 | 16 | 82 | -30 | 46 | 0.8x | 2.3 x | 56 | 20 | 36\% | -1.5x |

[^0]Exhibit 6: Valuation Comps - Part II

|  | 7/21/2023 |  |  |  |  |  |  | 1yF Estimates (US\$ Mn) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company name | Ticker | Listing | Price US\$ | $\begin{aligned} & \text { Mkt } \\ & \text { Cap } \\ & \hline \end{aligned}$ | shares | $\begin{gathered} \text { net } \\ \text { (debt) } \end{gathered}$ | $\begin{gathered} \text { Ent } \\ \text { Value } \end{gathered}$ | $\begin{gathered} \mathrm{EV} / \text { Sales } \\ 1 \mathrm{yF} \end{gathered}$ | $\begin{gathered} \text { EV/EBITDA } \\ 1 \mathrm{yF} \\ \hline \end{gathered}$ | Sales | EBITDA | EBITDA mgn \% | Net debt EBITDA |
| Canada |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Aleafia Health, Inc. | ALEAF | US OTC | 0.01 | 6 | 403 | -34 | 39 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| Aurora Cannabis Inc. | ACB | NASDAQ | 0.52 | 181 | 345 | 54 | 127 | 0.6x | 10.7x | 196 | 12 | 6\% | 4.6x |
| Auxly Cannabis Group Inc. | CBWTF | US OTC | 0.01 | 13 | 906 | -132 | 145 | 1.3 x | 68.5x | 114 | 2 | 2\% | -62.2x |
| Avant Brands Inc | AVTBF | US OTC | 0.15 | 31 | 206 | 3 | 29 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| BZAM Ltd | BZAMF | US OTC | 0.14 | 21 | 157 | 0 | 21 | 0.2x | 38.7x | 111 | 1 | 0\% | 0.0x |
| Canopy Growth Corporation | CGC | NASDAQ | 0.39 | 202 | 517 | -459 | 661 | 2.1x | $-4.7 x$ | 309 | -141 | -46\% | 3.3 x |
| Cronos Group Inc | CRON | NASDAQ | 1.87 | 712 | 381 | 874 | -162 | -1.5x | $3.5 x$ | 106 | -46 | -43\% | -19.0x |
| Decibel Cannabis Company Inc | DBCCF | US OTC | 0.09 | 36 | 405 | -34 | 70 | 0.6x | 2.1x | 123 | 33 | 26\% | -1.0x |
| Entourage Health Corp | ETRGF | US OTC | 0.02 | 5 | 307 | -91 | 96 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| High Tide, Inc. | HITI | NASDAQ | 1.24 | 88 | 71 | -33 | 121 | 0.2x | 3.7 x | 525 | 33 | 6\% | -1.0x |
| Nova Cannabis Inc | NVACF | US OTC | 0.41 | 24 | 57 | -40 | 64 | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A | \#N/A |
| OrganiGram Holdings Inc | OGI | NASDAQ | 1.35 | 106 | 78 | 73 | 33 | $0.2 x$ | 3.2x | 133 | 10 | 8\% | 7.0x |
| Rubicon Organics, Inc. | ROMJF | US OTC | 0.36 | 20 | 56 | -1 | 22 | 0.4x | 2.3 x | 54 | 9 | 18\% | -0.1x |
| SNDL Inc. | SNDL | NASDAQ | 1.38 | 325 | 235 | 116 | 208 | $0.3 x$ | 8.8x | 750 | 24 | 3\% | 4.9x |
| Tilray Brands, Inc. | TLRY | NASDAQ | 1.65 | 879 | 533 | -208 | 1,087 | $1.6 x$ | 13.6x | 679 | 80 | 12\% | -2.6x |
| Village Farms International, Inc. | VFF | NASDAQ | 0.59 | 65 | 110 | -49 | 115 | 0.4x | 29.9x | 286 | 4 | 1\% | -12.8x |

[^1]
## Exhibit 7: Valuation Comps - Part III



Source: FactSet, company reports, and Z\&A estimates

## Appendix III: Bio and Disclaimers

## Analyst Bio

Pablo Zuanic is a well-known and highly rated equity analyst following the cannabis and psychedelics sector. Over the past four years he launched coverage of over 35 companies (MSOs, LPs, CBD, ancillary, psychedelics), kept close track of sectoral trends, and followed the reform process in the US and elsewhere. His firm Zuanic \& Associates publishes equity research on the cannabis and psychedelics sectors, both from a macro/sectoral level in a thematic manner, as well as specific reports on listed stocks. The research service is aimed at institutional investors and corporations. The firm is also available for short term consulting and research advisory projects (www.zuanicassociates.com). At various points in his career, Pablo was II ranked and called as expert witness in industry investigations. He has a deep global background having covered stocks over the past 20 years in the US, Europe, Latin America, and Asia, across consumer sub sectors. Prior employers include JP Morgan, Barings, and Cantor Fitzgerald. An MBA graduate of Harvard Business School, he started his career as a management consultant, which brings a strategic mindset to his approach to equity research. Pablo can be contacted at pablo.zuanic@zuanicgroup.com.

## Disclosures and Disclaimers

About the firm: Zuanic \& Associates is a domestic limited liability company (LLC) registered in the state of New Jersey. The company's registered address is Five Greentree Centre, 525 Route $73, \mathrm{~N}$ Suite 104, Marlton, New Jersey 08053, USA. Pablo Zuanic is the registered agent. The firm publishes equity research on selected stocks in the cannabis and psychedelics sector, as well as thematic macro industry notes. The firm also provides consulting and advisory services. Potential conflicts of interest are duly reflected in the respective specific company reports.

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[^0]:    Source: FactSet, company reports, and Z\&A estimates

[^1]:    Source: FactSet, company reports, and Z\&A estimates

