### **FDA Commissioner Bifurcates**

Cannabis Sector Equity Research



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### **Our Take on FDA Commissioner's Comments**

It is now more than seven and half months since the HHS sent their rescheduling recommendation to the DEA. Supposedly, the 8-factor analysis can take up 3 to 6 months, then a report is written, and the DEA Administrator makes a final decision (\*). Some have speculated an announcement will be timed politically (4/20; summer; closer to the Nov election). Also, there is the question whether the DEA will reschedule by order rather than through the standard rulemaking process. \* See more color here on the review process: https://www.youtube.com/watch?v=AwfvZ\_jKsuU&t=1037s

More than questions about international treaties, we think the "hold up" is related to issues such as bifurcation (med vs. rec) and whether placing medical cannabis in Schedule III would federally legalize medical cannabis (see our <u>Potential DEA Questions</u> report of 3/19). FDA Commissioner, Robert Califf, on 4/11, while testifying to the House of Representatives Committee on Oversight and Accountability on Thursday (\*\*) touched on the issue of bifurcation. Yes, the headlines will focus on his "there is no reason for the DEA to delay" remark, but a) he himself gave context to the DEA delays (not that he speaks for the DEA); b) made the distinction between med and rec cannabis, and c) oddly to us, seemed to imply that it would be better for Congress to act on the matter more than the DOJ (at least on the subject of rec). Net, we think we will see progress this year (we prefer the incremental approach), with medical cannabis rescheduling only. To us this is a significant step forward for the industry, but it may not be what investors have been expecting. (\*\*) https://oversight.house.gov/hearing/oversight-of-the-u-s-food-and-drug-administration/

Timing of DEA decision. To questions by Congresswoman Nancy Mace regarding when the DEA would respond to the HHS's recommendation to reschedule cannabis, Commissioner Califf said he did not know, and could not tell her even if he knew, but emphasized he did not know. When she asked "this year", he said, "there is no reason for DEA to delay" (this is what garnered all the headlines), but qualified this by saying "they have to take into account all the regulations that are in play" (as if trying to explain the delay?).

Whether FDA role would change with rescheduling, and if FDA would have to take additional responsibilities. His first answer was "this is a very complicated topic". He noted there are "30 different forms of cannabis" (actually 113 cannabinoids have been identified), and he said in cannabis "state regulation has been dominant, so this is an area where it would be better for Congress to decide on how to proceed (contradicting in part the current Executive path). Actually, on various topics (not just MJ) he made the same argument, let Congress set the rules, and let the FDA be the "referee". Also, in answering the same question, he brought up the issue of bifurcation.

**Bifurcation: Med vs. Rec.** On the same subject of DEA timing and the FDA role, he distinguished between medical and recreational cannabis (note: recall the conventional wisdom narrative says that cannabis is not bifurcated in Schedule I, so it will not be bifurcated in Schedule III; we disagree with that view). He said, "medical cannabis is one thing when used for proven medical pathways, but then if it is used for recreational purposes there are no medical benefits in that case, and it does not fall into the typical FDA purview of regulations". In our interpretation, this would mean then that only medical cannabis can be rescheduled and not rec.



His repeated remarks about "Congress has to act". He seemed concerned with the harm caused by rec cannabis when used inappropriately, or in a dose that is dangerous, or when the product is packaged as candy for children. So, the FDA will "need help with the regulatory pathway". He said almost all the FDA work is in regard to the health benefits from new drugs (or devices), but this falls in an area of harm reduction when it is used for recreational purposes. As a "child of the 60s", he would like to see in his lifetime Congress come up with a "regulatory scheme" for cannabis (we assume here he was referring to rec). In the meantime, we continue to believe the DEA may decide to only reschedule medical cannabis (thus legalizing it at the federal level), while rec cannabis will be left to the states, until someday in the future "Congress acts", in the words of the Commissioner. So, 280e would only go away for med, but not rec (unless rec is de-scheduled at the federal level).

**About CBD.** He stated again the FDA's position that CBD does not meet the definition of dietary supplement (DS) due to "elevated liver enzymes", so despite several "citizen petitions" asking for the DS classification, the FDA will wait for Congress to act and formulate a regulatory pathway for CBD, and then the FDA will focus on harm reduction. The proposed House Bill H.R. 1629 (Hemp and Hemp-Derived CBD Consumer Protection and Market Stabilization Act of 2023) would allow the use of hemp, cannabidiol (i.e., CBD) derived from hemp, or any other ingredient derived from hemp in a dietary supplement, provided that the supplement meets other applicable requirements (if it passes), but for now the Food and Drug Administration's position is that CBD products may not be sold as dietary supplements.



Table 1: Stocks mentioned in this report

Company name	Ticker	Ticker	Rating		Company name	Company name Ticker
US MSOs					Canada LPs	
4Front Ventures		FFNTF	Not rated		Aurora Cannabis	Aurora Cannabis ACB
Acreage Holdings		ACRDF	Not rated		Auxly Cannabis Group	Auxly Cannabis Group CBWTF
Ascend Wellness		AAWH	Not rated		Avant Brands	Avant Brands AVTBF
AYR Wellness		AYRWF	Not rated		BZAM	BZAM BZAMF
Columbia Care		CCHWF	Not rated		Cannara Biotech	Cannara Biotech LOVFF
Cresco Labs		CRLBF	Not rated		Canopy Growth Corporation	Canopy Growth Corporation CGC
Curaleaf Holdings		CURLF	Not rated		Cronos Group	Cronos Group CRON
Glass House Brands		GLASF	Not rated		Decibel Cannabis Co	Decibel Cannabis Co DBCCF
Gold Flora		GRAM	Overweight		Organigram Holdings	Organigram Holdings OGI
Greenlane Holdings		GNLN	Not rated		Rubicon Organics	Rubicon Organics ROMJF
Green Thumb Industrie	es	GTBIF	Overweight	:	SNDL	SNDL SNDL
Grown Rogue		GRUSF	Not rated		Tilray Brands	Tilray Brands TLRY
Jushi Holdings		JUSHF	Overweight		Village Farms Intl	Village Farms Intl VFF
MariMed		MRMD	Overweight	:	Other	Other
Planet 13 Holdings		PLNHF	Overweight		Chicago Atlantic REFC	Chicago Atlantic REFC REFI
Schwazze		SHWZ	Not rated		Intercure	Intercure INCR
StateHouse Holdings II	nc	STHZF	Neutral		Irwin Naturals	Irwin Naturals IWINF
TerrAscend		TSNDF	Not rated		Leafly	Leafly LFLY
Tilt Holdings		TLLTF	Overweight		New Lake Capital Partners	New Lake Capital Partners NLCP
Trulieve Cannabis		TCNNF	Not rated		Smoore International	Smoore International SMORF
Verano Holdings		VRNOF	Overweight		Springbig	Springbig SBIG
Vext Science, Inc.		VEXTF	Not rated		WM Technology	WM Technology MAPS

Source: Z&A ratings



## **Appendix I: Valuation Comps**



**Exhibit 1: US MSO Valuation Multiples** 

								<u>Financial I</u>	Net Debt			<b>Broadly Defin</b>	ed Net De	<u>bt</u>
US\$Mn	<u>z&amp;/</u>	A Spot EV / S	ales	<u>Z&amp;</u> A	Spot EV / EE	BITDA	Sa	ales	EB	ITDA	<u>S</u> :	ales	EB	ITDA
10-Apr-24	2023	2024	2025	2023	2024	2025	CY24	Current	CY24	Current	CY24	Current	CY24	Current
US MSOs	2.1x	1.9x	1.7x	11.9x	9.7x	7.7x								
Acreage Holdings	0.4x	1.3x	na	3.2x	6.6x	na	-0.8x	-0.9x	-4.2x	-8.1x	-1.0x	-1.1x	-4.9x	-9.5x
Ascend Wellness	1.4x	1.3x	1.2x	6.8x	5.8x	5.1x	-0.4x	-0.4x	-2.0x	-2.1x	-0.8x	-0.8x	-3.5x	-3.7x
Ayr Wellness	1.5x	1.4x	1.3x	6.2x	5.7x	5.0x	-0.8x	-0.9x	-3.4x	-3.7x	-1.0x	-1.1x	-3.9x	-4.3x
Cannabist Co	0.9x	0.9x	0.8x	6.9x	6.1x	4.7x	-0.5x	-0.5x	-3.4x	-3.3x	-0.6x	-0.7x	-4.3x	-4.2x
Cansortium	1.4x	na	na	4.2x	na	na	na	na	na	na	na	na	na	na
Cresco Labs	2.0x	2.1x	2.0x	8.9x	7.9x	7.6x	-0.6x	-0.5x	-2.1x	-2.1x	-0.8x	-0.8x	-3.0x	-3.0x
Curaleaf	3.8x	3.6x	3.4x	16.9x	14.7x	12.8x	-0.5x	-0.5x	-1.9x	-3.2x	-0.8x	-0.8x	-3.2x	-5.3x
4Front Ventures	1.7x	1.5x	na	15.6x	7.5x	na	-0.7x	-1.0x	-3.5x	-6.9x	-1.1x	-1.5x	-5.3x	-10.3x
Glass House	5.3x	3.9x	na	34.7x	16.6x	na	-0.1x	na	-0.5x	na	-0.3x	-0.4x	-1.5x	-1.8x
Gold Flora	1.1x	0.9x	0.7x	na	15.9x	4.2x	na	-0.2x	na	na	na	-0.6x	na	na
Goodness Growth	1.1x	1.0x	na	5.9x	4.3x	na	-0.5x	-0.5x	-2.1x	-1.8x	-0.6x	-0.6x	-2.4x	-2.1x
Green Thumb	3.4x	3.2x	2.9x	10.9x	10.5x	9.7x	-0.1x	-0.1x	-0.4x	-0.4x	-0.2x	-0.2x	-0.5x	-0.6x
Grown Rogue	4.2x	na	na	18.0x	na	na	na	na	na	na	na	na	na	na
iAnthus	1.7x	na	na	na	na	na	na	-0.8x	na	-7.5x	na	-0.9x	na	-8.0x
Jushi	1.6x	1.5x	1.4x	10.3x	8.4x	7.0x	-0.7x	-0.7x	-3.7x	-8.6x	-1.0x	-1.1x	-5.8x	-13.5x
MariMed	1.3x	1.2x	1.0x	7.6x	7.4x	4.7x	-0.3x	-0.3x	-2.0x	-2.1x	-0.4x	-0.4x	-2.6x	-2.8x
Planet 13	2.2x	1.8x	1.4x	-4.5x	16.2x	7.9x	0.3x	0.3x	2.4x	35.1x	0.1x	0.2x	1.2x	18.2x
Schwazze	1.7x	1.7x	na	5.4x	6.6x	na	-0.8x	-0.7x	-3.1x	-2.4x	-0.9x	-0.8x	-3.6x	-2.8x
StateHouse	2.0x	na	na	na	na	na	na	-1.1x	na	-57.5x	na	-1.8x	na	-92.6x
TerrAscend	3.1x	2.9x	2.6x	14.4x	13.3x	11.3x	-0.5x	-0.5x	-2.5x	-1.9x	-0.7x	-0.7x	-3.5x	-2.7x
TILT	0.6x	0.6x	0.5x	52.2x	19.1x	11.4x	-0.3x	-0.3x	-8.7x	-5.8x	-0.5x	-0.5x	-16.8x	-11.2x
Trulieve	2.6x	2.5x	2.4x	9.1x	8.9x	8.4x	-0.5x	-0.5x	-1.6x	-1.7x	-0.6x	-0.6x	-1.9x	-2.1x
Verano	2.6x	2.7x	2.5x	8.1x	8.2x	7.6x	-0.3x	-0.3x	-0.9x	-0.8x	-0.6x	-0.5x	-1.8x	-1.5x
Vext	1.8x	1.2x	na	9.5x	4.9x	na	-0.6x	-1.1x	-2.6x	-8.1x	-0.6x	-1.1x	-2.6x	-8.1x

<sup>1)</sup> By "current", we mean the latest reported qtr annualized; 2) Multiples calculated using FactSet consensus (when available) for 2023, 2024, and 2025

<sup>3)</sup> As there are no consensus estimates for Cansortium, Grown Rogue, iAnthus, and StateHouse, we take "current" sales for each of them



**Exhibit 2: US MSOs EV Calculations** 

										. (	74		
US\$Mn	FactSet	Z&A	US\$	mn	mn	Total	Financial	Net	ST income	Conting	ITM deriv	Total	Pref Stock
10-Apr-24	Spot EV	Spot EV	price	shares	deriv	Mkt Cap	net debt	leases	tax liab.	Cons.	inflow	BDND	Min Int
US MSOs													
Acreage Holdings	232	336	0.51	139.9	29.7	87	-214	-2	-34			-250	
Ascend Wellness	770	724	1.30	206.9	13.3	286	-244	-134	-60			-438	
Ayr Wellness	755	705	2.65	76.6	5.0	216	-417	6	-78	0		-489	
Cannabist Co	651	483	0.33	429.3		143	-272	-23	-45	0		-340	
Cansortium	140	146	0.21	298.3	6.3	65	-49	-7	-26			-81	
Cresco Labs	1,270	1,552	2.17	436.9	8.2	966	-415	-54	-111	-6		-586	
Curaleaf	4,346	5,160	5.22	744.3	7.9	3,926	-672	-18	-345	-81		-1,115	119
4Front Ventures	286	203	0.09	648.6		61	-95	-6	-41	0		-142	
Glass House	594	850	8.90	75.7	3.2	702	-26	0	-21	-29		-76	72
Gold Flora	130	143	0.25	287.5	0.2	73	-26	-32	-8	-4		-71	
Goodness Growth	109	101	0.40	108.7		43	-50	-8				-58	
Green Thumb	3,309	3,561	13.82	237.1	7.1	3,374	-147	-23	-11	-33	28	-187	
Grown Rogue	75	106	0.62	170.8		106	4	-3	0	0		0	
iAnthus	143	298	0.02	6,510.5		143	-146	-9				-155	
Jushi	401	419	0.67	196.6	1.1	132	-183	1	-106			-288	
MariMed	186	189	0.27	375.1	5.8	103	-52	-1	-14			-67	19
Planet 13	174	220	0.74	320.6	1.3	237	32	-6	-5	-5		17	
Schwazze	229	291	0.77	171.3		132	-138	-3	-18	0		-159	
StateHouse	151	203	0.04	255.6	141.0	17	-114	-13	-39	-24	7	-184	2
TerrAscend	805	991	2.00	351.2	15.3	733	-186	-7	-59	-6		-258	
TILT	118	108	0.03	384.8	10.9	13	-49	-43	-3			-95	
Trulieve	2,157	2,929	12.10	186.0	3.3	2,290	-537	-16	-81	-4		-639	
Verano	2,260	2,470	5.50	343.5	9.8	1,943	-271	-4	-248	-4		-527	
Vext	46	65	0.20	149.8	0.4	30	-35	0				-35	



**Exhibit 3: Canada LP Valuation Multiples** 

								<u>Financia</u>	l Net Debt		<u>B</u> 1	roadly Def	fined Net Deb	ot
Multiples	<u>Z&amp;A</u>	Spot EV / S	<u>sales</u>	<u> </u>	pot EV / El	BITDA	<u>Sal</u>	<u>es</u>	EBIT	DA .	<u>Sal</u>	<u>es</u>	EBIT	ΓDA
10-Apr-24	Current	2024	2025	Current	2024	2025	Current	CY24	Current	CY24	Current	CY24	Current	CY24
Aurora Cannabis Inc.	1.9x	1.5x	1.3x	27.7x	14.0x	9.2x	na	na	na	na	0.1x	0.1x	1.7x	0.9x
Auxly Cannabis Group Inc.	1.1x	na	na	12.9x	na	na	-0.1x	na	-1.6x	na	-0.3x	na	-3.5x	na
Avant Brands Inc	2.1x	na	na	-41.7x	na	na	-0.4x	na	7.6x	na	-0.9x	na	18.0x	na
BZAM Ltd	0.6x	na	na	5.5x	na	na	-0.3x	na	-3.1x	na	-0.5x	na	-4.6x	na
Cannara Biotech	1.6x	na	na	6.1x	na	na	-0.6x	na	-2.2x	na	-0.6x	na	-2.2x	na
Canopy Growth Corporation	1.9x	2.2x	2.0x	-16.9x	-65.3x	-46.1x	-1.4x	-1.5x	11.8x	45.8x	-1.2x	-1.3x	10.5x	40.6x
Cronos Group Inc	1.9x	1.7x	1.2x	-0.8x	-4.8x	-6.1x	na	na	na	na	8.9x	8.2x	-3.6x	-22.6x
Decibel Cannabis Company Inc	0.9x	0.8x	0.7x	4.3x	3.4x	2.9x	-0.3x	-0.3x	-1.7x	-1.4x	-0.4x	-0.4x	-1.9x	-1.5x
High Tide, Inc.	0.6x	0.5x	0.5x	16.2x	7.4x	5.4x	0.0x	0.0x	-0.7x	-0.3x	0.0x	0.0x	-0.9x	-0.4x
Nova Cannabis Inc	0.4x	0.4x	0.3x	4.2x	3.6x	2.8x	0.0x	0.0x	-0.1x	-0.1x	0.0x	0.0x	-0.4x	-0.4x
OrganiGram Holdings Inc	1.6x	1.5x	1.2x	-13.7x	39.2x	16.5x	na	na	na	na	0.3x	0.3x	-2.4x	7.0x
Rubicon Organics, Inc.	0.6x	na	na	4.7x	na	na	0.0x	na	-0.1x	na	0.0x	na	-0.1x	na
SNDL Inc.	0.5x	0.5x	0.5x	36.1x	11.6x	na	na	na	na	na	0.2x	0.2x	14.0x	4.5x
Tilray Brands, Inc.	2.3x	2.1x	1.9x	44.6x	19.2x	12.1x	-0.2x	-0.2x	-4.8x	-2.1x	-0.4x	-0.3x	-6.8x	-2.9x
Village Farms International, Inc.	0.6x	0.6x	0.6x	-71.0x	15.3x	10.1x	-0.1x	-0.1x	6.3x	-1.4x	-0.1x	-0.1x	6.7x	-1.4x



**Exhibit 4: Canada LP EV Calculations** 

<i>C\$Mn</i> <b>10-Apr-24</b>	FactSet Spot EV	Z&A Spot EV	C\$ price	mn shares	mn deriv	Total Mkt Cap	Financial net debt	Net leases	ST income tax liab.	Conting Cons.	ITM deriv	Total BDND	Pref Stock Min Int
Aurora Cannabis Inc.	423	483	9.12	54.5	1.6	512	89	-48		-11		30	
Auxly Cannabis Group Inc.	191	118	0.06	1,250.3	249.9	86	-15	-17		0		-32	
Avant Brands Inc	30	41	0.09	258.3	3.4	23	-7	-10				-18	
BZAM Ltd	121	54	0.05	180.8	0.2	9	-31	-14				-45	
Cannara Biotech	85	126	0.88	90.0	1.5	80	-45	0	-1			-46	
Canopy Growth Corporation	na	608	12.30	9.1	9.6	230	-426				48	-378	
Cronos Group Inc	197	239	3.52	381.1	7.8	1,369	1,132	-3				1,130	
Decibel Cannabis Company Inc	88	106	0.14	409.0	16.7	58	-42	-6				-48	
High Tide, Inc.	276	275	3.43	75.1	0.5	259	-12	-4				-16	
Nova Cannabis Inc	1	107	1.69	57.2		96	-4	-7				-11	
OrganiGram Holdings Inc	233	233	2.79	94.1	4.2	274	42		0			42	
Rubicon Organics, Inc.	26	24	0.39	56.2	4.1	24	0	0				0	
SNDL Inc.	480	502	2.79	236.7	12.8	696	232	-37				194	
Tilray Brands, Inc.	2,375	2,428	2.72	742.7		2,024	-260	-83		-28		-371	34
Village Farms International, Inc.	231	254	1.89	110.2		208	-23	-1				-24	22



**Exhibit 5: Stock Performance** 

10-Apr-24	Sto	ice	
	Last	Last	Last
Ticker	30d	90d	12mo
US MSOs (mkt	cap >\$200N	ln)	
AAWH	9%	8%	53%
AYRWF	38%	34%	334%
CRLBF	38%	37%	46%
CURLF	23%	25%	120%
GLASF	37%	70%	202%
GTBIF	14%	26%	93%
PLNH	46%	3%	-3%
TSNDF	22%	19%	39%
TCNNF	21%	120%	136%
VRNOF	19%	19%	99%
US MSOs (mkt	cap <\$200N	ln)	
ACRDF	143%	155%	-36%
CBSTF	8%	-28%	-34%
CNTMF	15%	124%	165%
CXXIF	-4%	37%	54%
FFNTF	2%	-6%	-50%
GRAMF	-4%	15%	51%
GDNSF	14%	59%	199%
GRUSF	24%	130%	377%
ITHUF	15%	-12%	16%
JUSHF	8%	26%	35%
LOWLF	-34%	-31%	-64%
MRMD	8%	-6%	-32%
SHWZ	-31%	8%	-29%
STHZF	30%	2%	-6%
VEXTF	15%	-8%	-2%

	Sto	ock Performar	<u>ice</u>
	Last	Last	Last
Ticker	30d	90d	12mo
Canadian LP	s		
ACB	113%	48%	2%
AVTBF	-12%	-39%	-51%
BZAMF	12%	-60%	-85%
CBWTF	276%	257%	204%
CGC	199%	100%	-43%
CRON	31%	28%	37%
DBCCF	27%	-6%	-6%
ETRGF	-21%	-35%	-70%
HITI	56%	48%	90%
LOVFF	-10%	7%	12%
NVACF	-10%	80%	160%
OGI	2%	44%	-25%
ROMJF	-2%	-26%	-37%
SNDL	52%	37%	34%
TLRY	19%	1%	-26%
VFF	95%	79%	79%
Cannabis - I	nternational		
CLVR	49%	13%	-33%
IMCC	135%	63%	-49%
INCR	30%	4%	-21%
LGPPF	na	na	na
PCLOF	72%	9%	25%
Tech			
LFLY	20%	-38%	-61%
SBIG	-18%	-9%	-79%
MAPS	40%	44%	87%

	Sto	ock Performan	<u>ice</u>
	Last	Last	Last
Ticker	30d	90d	12mo
MJ Fincos			
AFCG	-3%	-5%	1%
CNPOF	-5%	-15%	-16%
IIPR	1%	4%	36%
NLCP	13%	10%	45%
PW	-15%	-17%	-85%
SHFS	-16%	-46%	66%
SSIC	1%	18%	23%
REFI	-6%	-5%	11%
Pix & Shovel			
AGFY	-19%	-72%	-94%
GRWG	14%	0%	-25%
HYFM	22%	9%	-35%
SMG	6%	18%	-6%
UGRO	-11%	13%	-25%
Vape parts			
GNLN	8%	-6%	-86%
ISPR	-43%	-50%	-21%
SMORF	24%	27%	-28%
TLLTF	-19%	29%	-53%
Index			
S&P 500	1%	8%	26%
S&P 477	0%	3%	1%
Nasdaq	5%	11%	16%
MSOS ETF	20%	37%	83%
YOLO ETF	22%	31%	46%

Source: FactSet



# Appendix II: 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 five years he launched coverage of over 40 companies in the US, Canada, and overseas (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. 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 Zuanic can be contacted via the company's portal www.zuanicassociates.com; via email pablo.zuanic@zuanicqroup.com; or via X @4200dysseus*.



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