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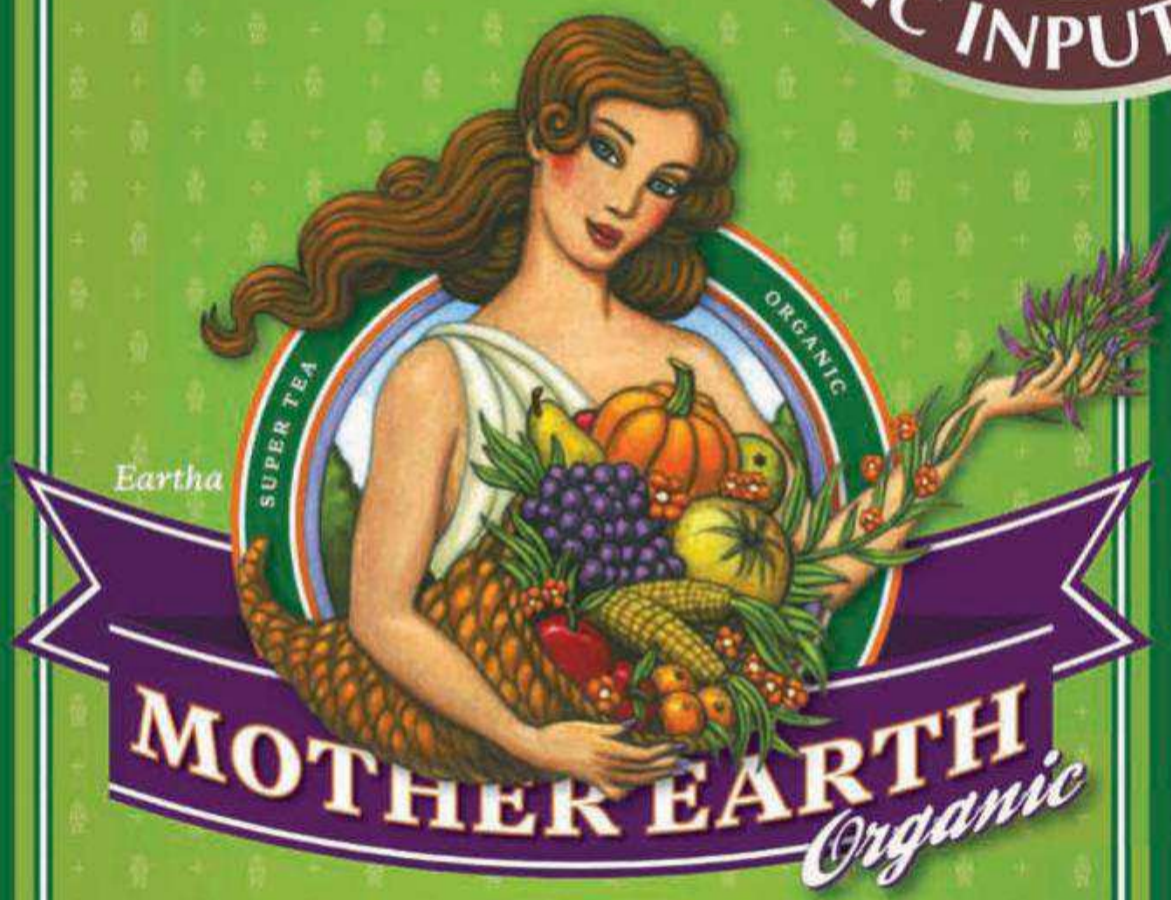
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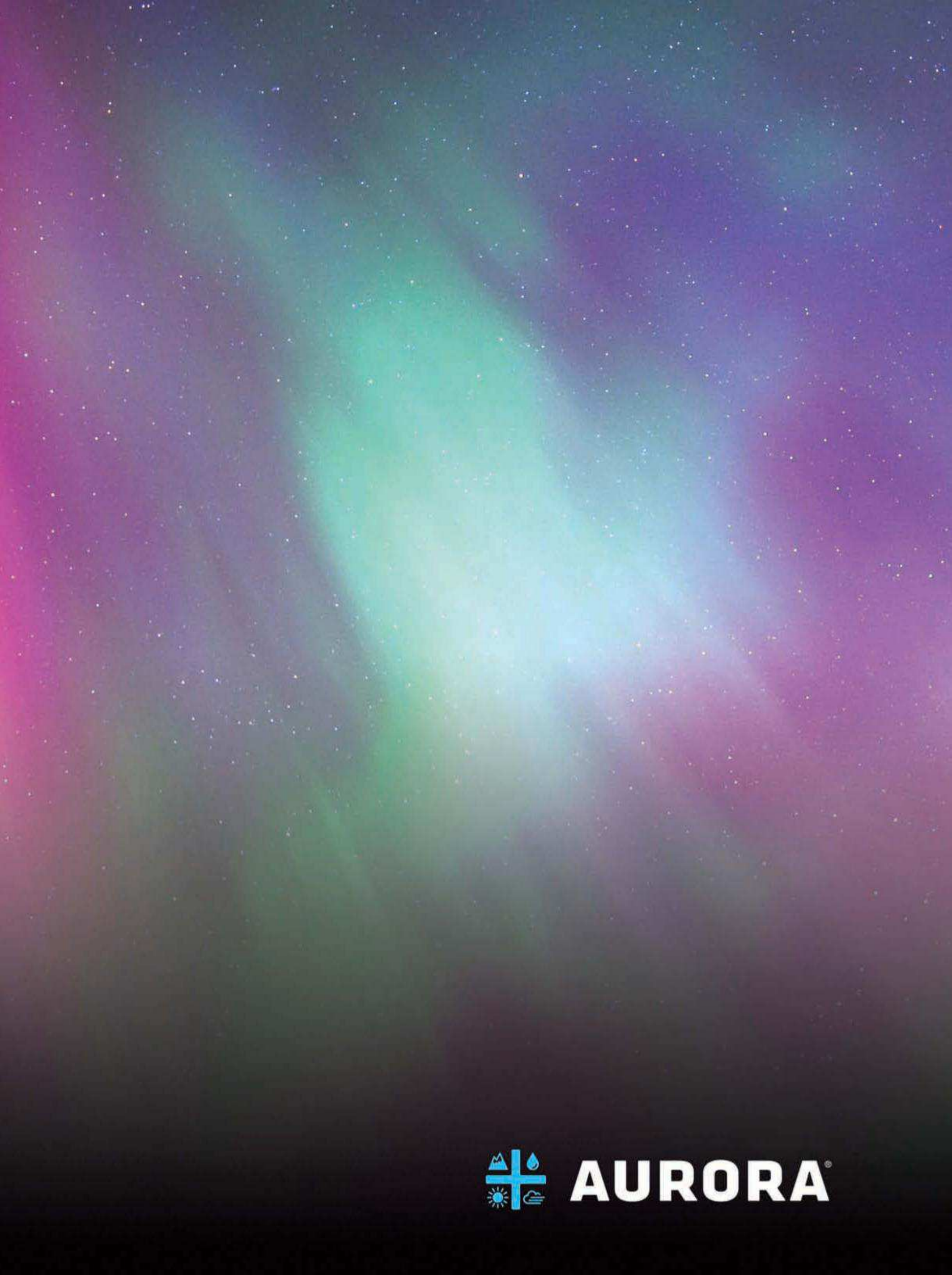
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ALTHOUGH HAWAII LEGALIZED MEDICAL MARIJUANA FOR QUALIFIED PATIENTS AND CAREGIVERS IN 2000, IT WASN'T UNTIL ALMOST 20 YEARS LATER, IN 2016, THAT THE STATE FINALIZED THE RULES GOVERNING ITS DISPENSARY PROGRAM.

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Learn the methods for a successful harvest from the pros, with an emphasis on proper trimming techniques. Plus, we take a closer look at the pros and cons of wet and dry trimming. *By Kyle Colpack*
- 66 GROWING LEGAL IN HAWAII**
Medical marijuana patients in the 50th state can finally go to a dispensary to purchase their cannabis. Take a trip inside one of the first state-licensed cultivation facilities in Hawaii and learn how they grow clean pot in a sustainable fashion. *By Danny Danko*

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Our cultivation department scoured the globe to find the world's greatest cannabis production equipment. We reveal our list of favorites for bigger yields and heavier harvests. *By Danny Danko*
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Voters can keep the marijuana momentum moving forward as medical and recreational cannabis measures are on the ballot in several states this year. Learn more about this election's pertinent pot initiatives. *By Russ Belville*
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Nearly a decade has passed since Charlie Sheen left *Two and a Half Men* and introduced the world to "Tiger Blood." Now committed to a healthier lifestyle, Sheen is embracing cannabis. *By Mary Jane Gibson*

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HIGH TIMES

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THE TRUTH ABOUT LEGALIZATION

The state of the union with legal cannabis and concentrates is strong!



It's been five years since the first adult-use cannabis laws took effect in the US. Colorado and Washington State voters made history by legalizing recreational cannabis in 2012 with Amendment 64 and Initiative 502 respectively—those laws made pot legal to possess and consume in 2013 (legal sales kicked off in 2014). At the time, certain pot prohibitionists jumped at the chance to smear legalization,

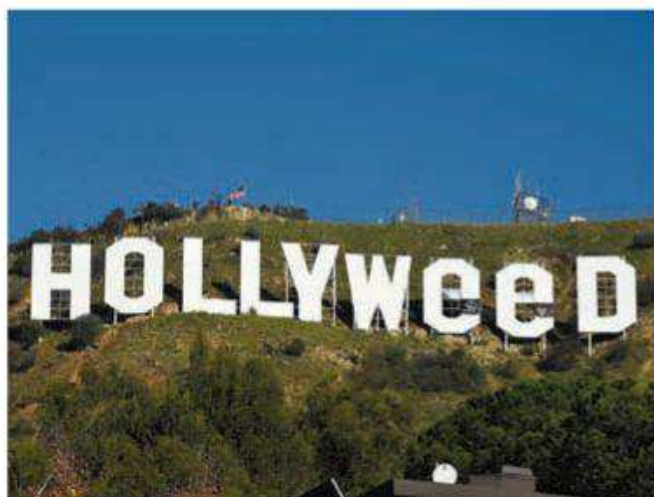
claiming it would lead to more addiction, cause an increase in car crashes and take a monetary toll on society similar to alcohol and tobacco. Turns out, they were wrong—really, really wrong. With half a decade of legalization under our belts, it's time to fact-check the prohibitionist claims about cannabis. Get the facts from our investigation: “Five Years into Marijuana Legalization: What Didn't Happen.”

ON INSTAGRAM

Generally speaking, the phrase “extract artist” refers to a highly skilled concentrates maker. However, some extracts are more artistic than others. We're big fans of meticulously constructed and visually appealing twax joints. But some folks are raising the bar for extract artistry. This taco dab, crafted by @loud_n_errl_, is a mind-blowing example of concentrate creativity. This “taco” boasts a White Cookies shell with Indiana Bubble Gum and Trainwreck live resin inside. It almost looks good enough to eat but it's definitely divine to dab. Give @loud_n_errl_ a follow if you'd like to see more concentrate creations.



HIGH AT THE MOVIES



Cannabis is an enhancer. Whether it's music, food, film or sex, pot makes most things more enjoyable. With that in mind, we unveil our picks for the 14 best films of 2018 to watch while high. This wide-ranging list has something for every movie-goer—comedies, animated films, horror movies, documentaries, indie flicks, action, fantasy and even blockbuster franchise films. Whatever movie genre you're into, we have a recommendation for you! So, check out *HT's* picks for the best films of the year to watch while high. Then, all that's left to decide is whether to pair the flick with a soaring, heart-racing *sativa* or a mellow, heady *indica*. **Head to hightimes.com for more!**



WE WANT TO HEAR FROM YOU!

Tweet your best high observations and comments our way @HIGH_TIMES_Mag for a chance to be featured on this page! And be sure to follow us on Facebook: (Facebook/HighTimesMag) and Instagram: (@hightimesmagazine) for all the latest news as it's happening!

@somthinSnazzay: @HIGH_TIMES_Mag I had some garlic cookies last week....man that was some lethal stuff!

@electricobot: @HIGH_TIMES_Mag Attitudes towards mmj need to change. We need to come out of the dark ages and embrace the medical efficacy of this amazing plant. It is not a dangerous drug, they lied to us all these years for the wrong reasons. Open the door to the cure and legalize medical marijuana.

@Gingerbr3d: @HIGH_TIMES_Mag Old school bubble! Oh man what I'd give for some of this.

@NotoriousNunez: @HIGH_TIMES_Mag I don't get how the argument is simply addictive = needs to be banned. Regulated sure, but banning something usually makes it more dangerous to obtain and rarely works to deter people from using it.

@Alex_Gepheart: The legislative #WarOnWax out West is a strange issue to be concerned about right now but it is def a growing political issue in that culture

@brendar89007212: @HIGH_TIMES_Mag i miss being able to blaze...stupid hospital job...at least i still have my #cbd #cbdoil....ty @HumansCbd for not making me have to go dry lol

@Lyric_Divine: @HIGH_TIMES_Mag My dr isnt comfortable having me use cannabis, though I live in a legal state and have qualifying conditions. He is fine having me try experimental drugs that are known to cause kidney and liver issues.

@North3ast1: @HIGH_TIMES_Mag I smoke whatever i want period never was deterred by what other people think or federal law says is legal

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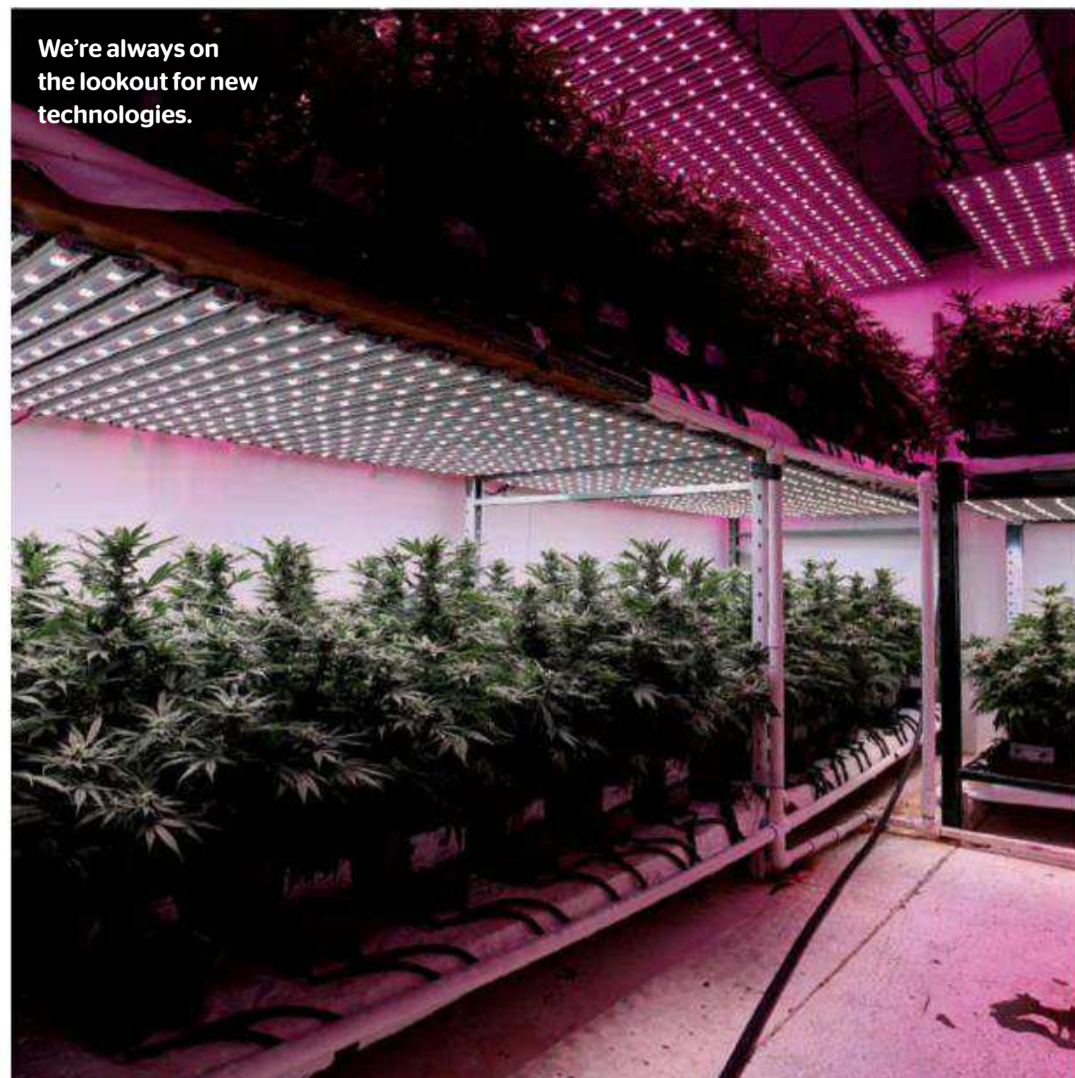
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20 YEARS OF GROW GEAR GUIDANCE

IN OUR JUNE 1999 ISSUE, my cultivation department colleagues Chris Simunek and Kyle Kushman introduced the *High Times* S.T.A.S.H. Awards, short for Significant Technological Achievements in Secret Horticulture. We committed to scouring the Earth, visiting as many weed farming facilities as possible and crashing all of the hydroponic “tomato” conventions to highlight pot production products that reduce growroom hassles while increasing yields.

To be chosen, a device or gadget needed to meet and exceed certain exacting criteria. Stealth, speed, output and weight of eventual harvest were keywords that assured anxious growers their purchases would be worthwhile. Over the next two decades, as cannabis cultivation equipment changed and advancements in futuristic technologies increased, we also witnessed a much needed return to the basic fundamental agricultural practices of the past.

These days, the emphasis for most conscientious cultivators has shifted from stealth, speed and yield to quality, cleanliness and sustainable organic practices. Concentrate production has also changed the way growers approach their tasks. Throughout the last 20 years, one constant remains—*High Times* continues to introduce readers to innovative products at the forefront of marijuana growing. We hope you enjoy the 20th annual *High Times* S.T.A.S.H. Awards.

Also in this issue, we travel to the islands of Hawaii to document a new medical marijuana production facility and our annual Pot Jobs feature reveals how to find a cannabis career. Growers will welcome our guide to proper pot trimming and cannabis users of all kinds can make better decisions at the ballot after reading our 2018 Election Guide.

You likely have also noticed that Charlie Sheen graces our October cover. In our epic and wide-ranging interview with the notorious actor, Sheen discusses his many years in the Hollywood spotlight, his various triumphs and flameouts and how he's turning over a new leaf and launching his own cannabis brand. So dig in—this issue is a winner!

Danny Danko
SENIOR CULTIVATION EDITOR

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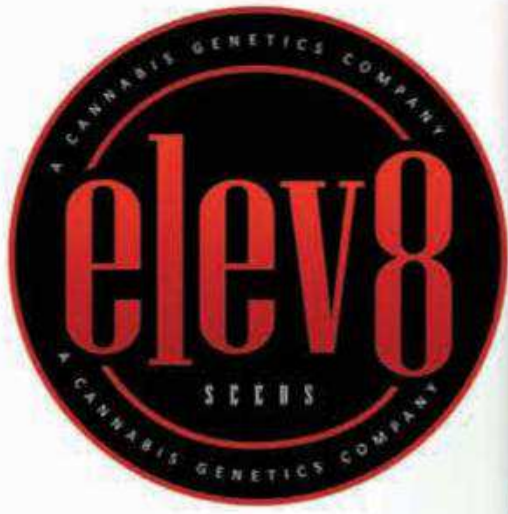
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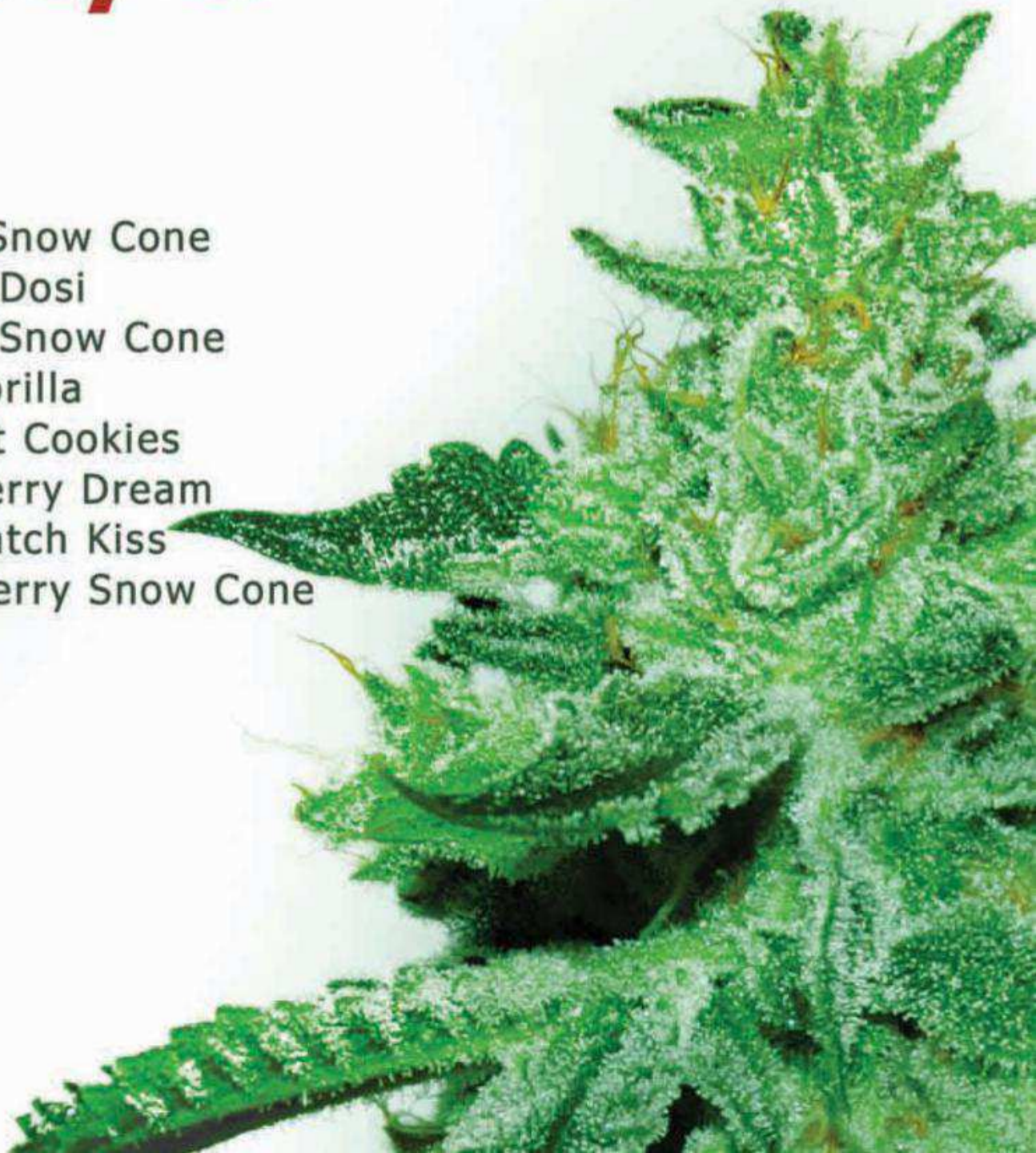
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A PILL OF GOODS

Hey, I was hoping you might be able to test something for me. I've taken four drug tests and I've come up clean for marijuana. I believe it's because I took extra strength Tylenol each time. I took three Tylenol the night before the tests and three the day of, and it worked. I did test positive for the other chemical in my system, however, but not for pot.

I smoked the night before my test pretty much every time. Maybe it's just me. But maybe I'm really on to something everyone needs to know about.

Clinton

How wonderful it would be if this were true. Imagine if an easily accessible, over-the-counter product could reliably help you pass a drug test! Unfortunately, when something seems too good to be true, it often is. In our long history of covering all things cannabis, we have not come across any evidence—scientific or anecdotal—of Tylenol being effective in passing a drug screening. It would be wise not to rely on this method.

The irony is, Tylenol is far more hazardous to your health than the substance being tested for. Acetaminophen, the active ingredient in Tylenol, is responsible for thousands of hospitalizations and hundreds of deaths each year, while cannabis is, of course, non-toxic.

END PROHIBITION NOW

Thank you *High Times* for the many years of service and value that you have added to my life. I'll never quit advocating for the legalization of cannabis. I think the United States government owes the American people a good explanation as to why they continue to insult our intelligence by keeping cannabis listed as a Schedule I drug, which says it has no medical value. We all know that isn't true and it's evident that the government has known it has medical values for decades.

The first time I tried cannabis was in 1990. That's when my persecution began. Cannabis is a taboo subject where I live in Tennessee. It's demonized and those who use it are always labeled and treated like lowlife trash. There are a lot of people who may still be alive today if they'd had access to cannabis and if they hadn't been brain washed into thinking it was evil.

I think the leaders in the state of Tennessee (and the federal government) don't really care about the people in this region of the country. The feeling I get is that they want us to hurry up



“THERE ARE A LOT OF PEOPLE WHO MAY STILL BE ALIVE TODAY IF THEY'D HAD ACCESS TO CANNABIS AND IF THEY HADN'T BEEN BRAIN WASHED INTO THINKING IT WAS EVIL.”

and die off. The streets here are flooded with dangerous drugs like crystal meth, fentanyl and, of course, alcohol, while they keep cannabis out of our reach. At the same time, we have to watch as people in other states get access to marijuana.

I thought that pot would be legal here by now. I have no choice but to get a new job and try to save up enough money to move to a place where people like me are welcome and have legal access to clean, quality, regulated cannabis from a dispensary.

It's too expensive and risky to buy it from the black market here—twenty bucks gets you a half gram of questionable stuff. I really enjoy knowing the name of the strains and their genetic information. Not to mention, guarantees on how it was grown.

Prohibition has also impacted my work life as in February I lost my job after two and a half years of working my tail off. I always went to work early and stayed late. I never went in high or under the influence of anything but coffee. However, my coworkers told my bosses about how I was advocating for pot to be legal on Facebook and so the bosses started monitoring

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my online activities. Facebook got me fired.

I've also been called a devil worshiper and other names in an attempt by the local church leaders to change my mind about cannabis.

*Anonymous
Tennessee*

Sorry to hear of your troubles. But your dedication to cannabis in the face of such ignorant opposition is admirable. Change cannot come soon enough. We urge everyone to vote in the 2018 election. Even if cannabis is not on the ballot where you reside, find out which candidates oppose pot and vote them out! Learn more about the upcoming election at mpp.org and norml.org.

HOORAY FOR HASH!

Loved the 710 Special (September 2018 issue). It was great to get all that extract info in one issue. The “Growing For Concentrates” piece was particularly helpful to me. Also, congrats on bringing Ed Rosenthal back into the fold. Danko's still my favorite but you

can't have too many grow gurus offering their wisdom.

*Steve
Bangor, Maine*

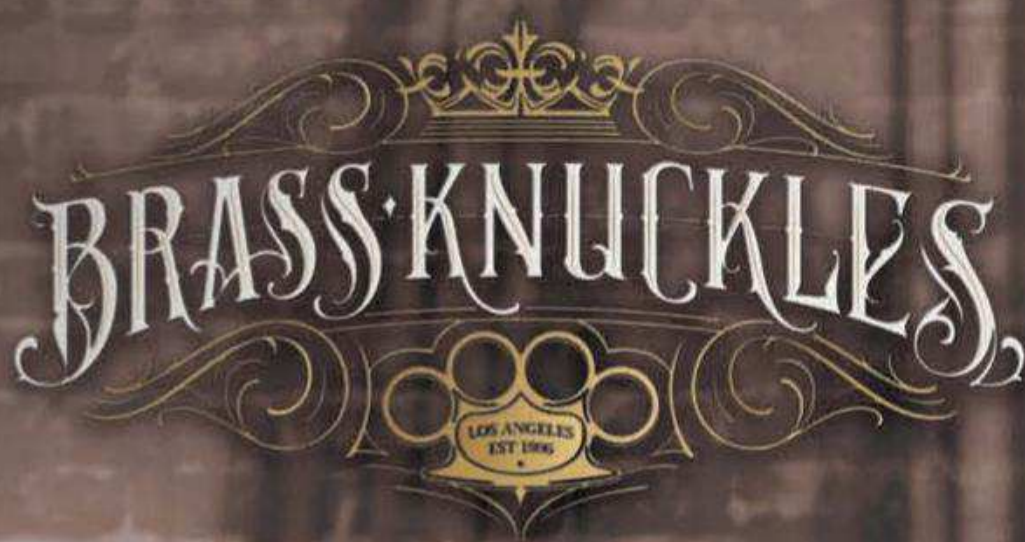
SKY HIGH

I have been a medical cannabis patient since the early 2000s in Colorado. Today, I live in Southern California and work as a flight attendant for a major airline that doesn't allow cannabis use of any kind according to FAA rules for flight crew.

I clandestinely continued to use cannabis over the past four years of my employment with the notion that my job could be at jeopardy upon a request for a urine sample. I use various methods to pass tests.

Cannabis for myself is medicine. I feel that the sluggish federal movement in regard to legalization and/or rescheduling of cannabis is keeping hundreds of thousands of aviation workers from seeking benefits of cannabis, then turning to alcohol and opioids. Possibly making air travel more unsafe.

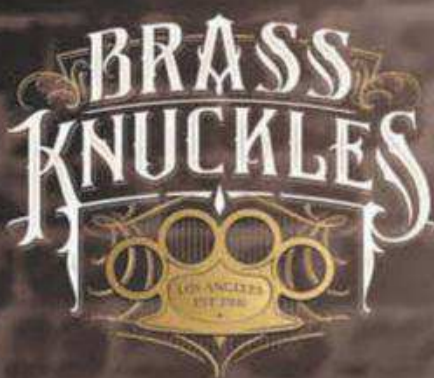
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REAP THE REWARDS Growing frosty flowers requires proper techniques and the best cultivation equipment. Discover the most innovative grow gear of the year in our 20th Annual STASH Awards (Significant Technological Achievement in Secret Horticulture) on page 81. *Photo by Justin Cannabis*





PRO TIPS FOR TRIMMING Harvesting is an incredibly important facet of cultivation, yet many growers overlook the process. We're here to remind you that proper harvesting can be the difference between mediocre nugs and top-shelf pot. To learn more about harvesting, with an emphasis on the trimming process, check out our "Pro Tips for Trimming" feature on page 58.

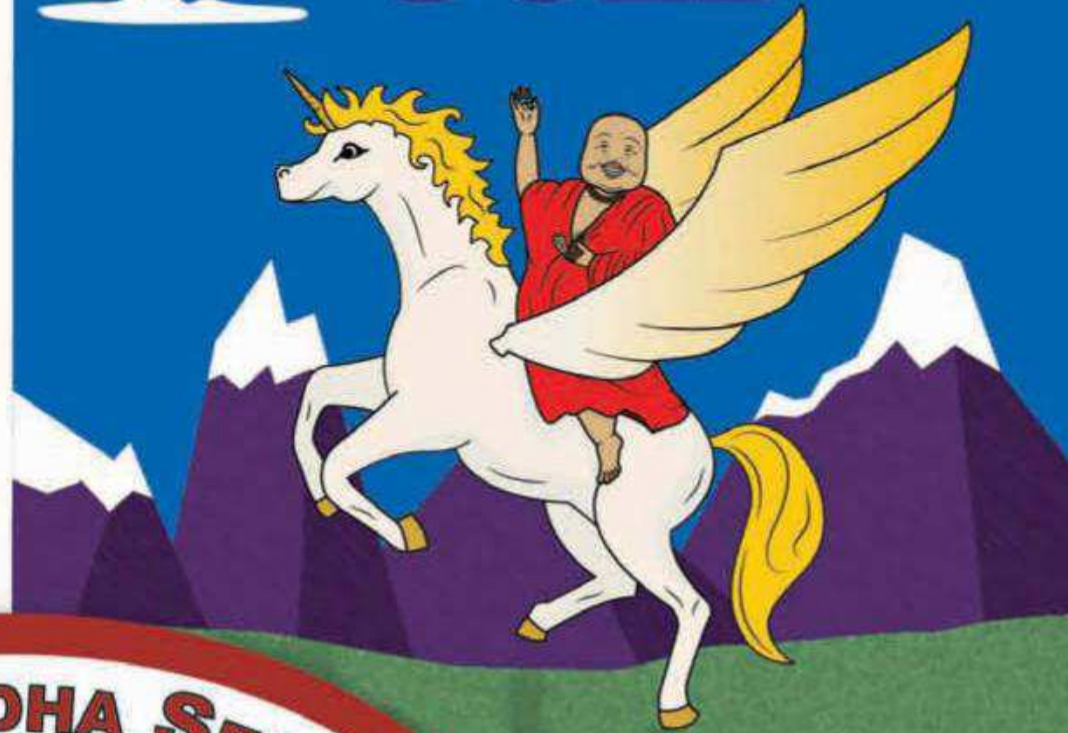


HAWAII GROWS BIG! Supplemental lighting enhances the plentiful sunshine in this legal ganja greenhouse on the island of Oahu. Learn more about Aloha Green Apothecary and their quest to cultivate clean medicinal cannabis for the patients of Hawaii on page 66. *Photo courtesy of Aloha Green Apothecary.*

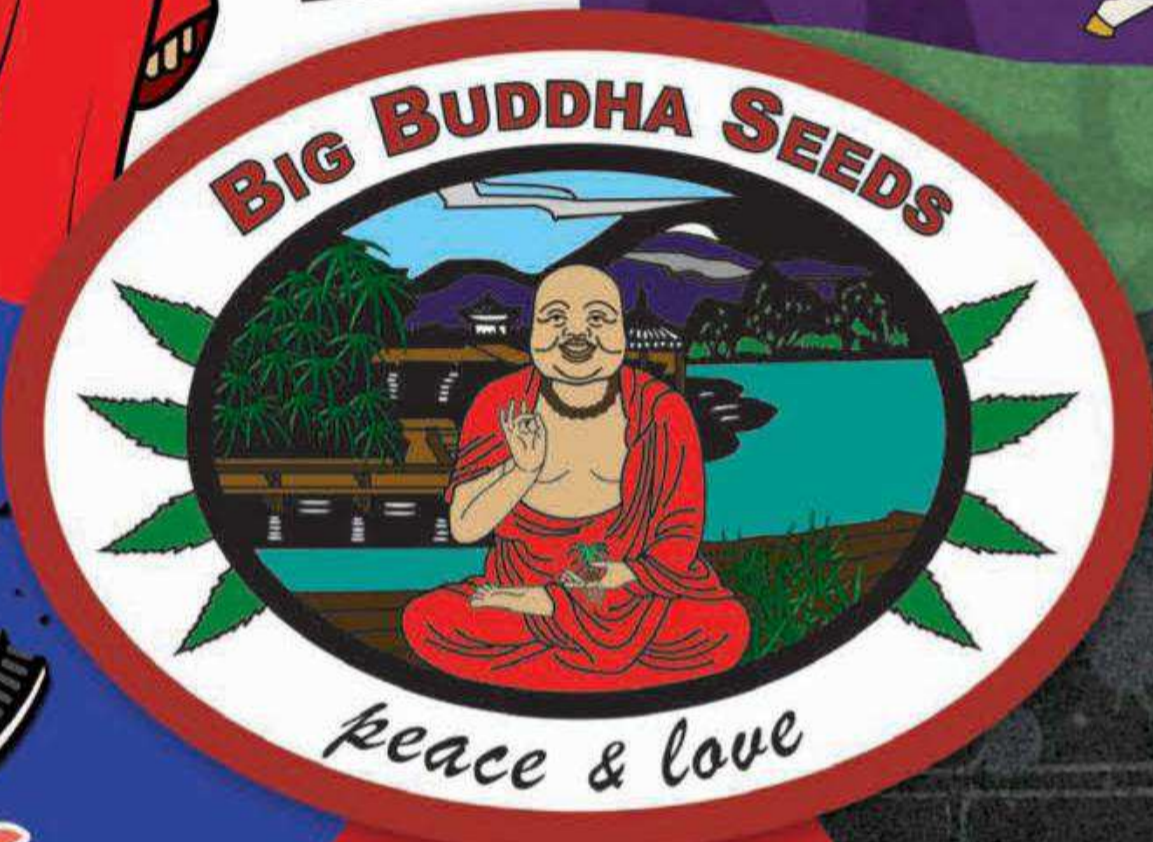


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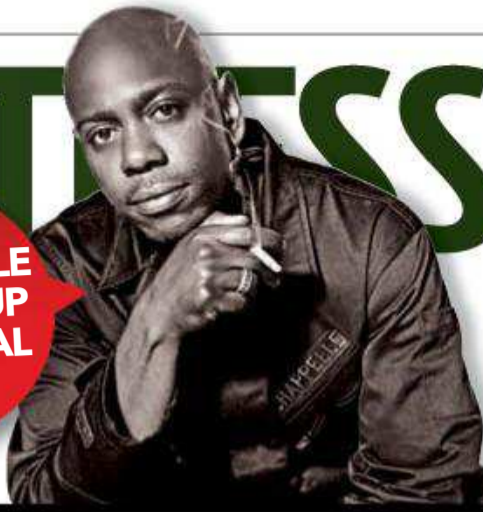
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HIGHWITNESS NEWS

CHAPPELLE SHOWS UP FOR LEGAL WEED



NEWS

GIANT JOINT

This 3-foot-long joint wrapped in 24K gold leaf papers was auctioned off for charity. p.28



ENTERTAINMENT

BAY AREA BUZZ

High Times hosted the second-ever fully legal Cannabis Cup in Santa Rosa, CA in June. p.30



Can cannabis unite us?



craven pandering?

In Connecticut, Democrats are claiming cannabis reform as their own. Recently added to the state-party platform: “The time for legalization of marijuana has come. Doing so will raise revenue, which can be used to benefit those suffering from the disease of addiction to prescription pain medications and other opioids.” (At the time of this writing, the Republican Party of Texas also voted to endorse decriminalization, medical cannabis and hemp.)

In Florida, cannabis is front and center in the gubernatorial race, with positions staked out along party lines. The four Democratic candidates all support legalization or decriminalization to some extent, and they’ve been tweeting their different reasons for doing so. Andrew Gillum: “so we can re-invest that revenue in our public schools & pay our teachers”; Philip Levine:

“With overcrowded prisons and an opioid epidemic ravaging our communities, it’s time...”; Chris King: “Our criminal justice system disproportionately targets minorities... That’s wrong.” The two Republican candidates, Ron DeSantis and Adam Putnam, have been lukewarm at best on cannabis reform.

No fewer than 11 candidates are vying for the governor’s mansion in Wyoming. Democratic longshot Rex Wilde is hoping to distinguish himself from the pack with audacity. “I’m running because there are some issues that have not been brought by former governors and those who are running,” he declared to the *Gillette News Record*. “My platform is as wild as my last name. This is going to be

THE GREEN-WAVE ELECTION

POLITICAL CANDIDATES ACROSS THE UNITED STATES ARE TALKING ABOUT CANNABIS, BUT NOT JUST AS ANOTHER ISSUE. LEGALIZATION IS BEING FRAMED, CORRECTLY, AS A MEANS TO ADDRESS AN ASSORTMENT OF SOCIETAL ILLS. BY MIKE DIPAOLO

THERE ARE STANDARD issues that dominate elections in the United States. The economy, jobs, crime, immigration, the opioid crisis and a few other things usually top the list. In 2018, a class of candidates—newcomers and incumbents—has emerged to talk about another issue: weed.

Around the country, candidates new and old are promoting cannabis.

When Donna Shalala was the head of the Department of Health and Human Services in the 1990s, she was very much against weed and was a pointed critic of the pioneer states that launched medical-marijuana programs. Now that she’s running for a congressional seat in Florida, however, she’s pushing a pro-med-pot agenda. An honest change of heart, or

“fun,” he promised, listing “full-blown legalization of recreational and medical marijuana” among his top priorities.

Nationally, the issue has been taken up by the president, who recently claimed he would support the congressional effort to end the federal ban on marijuana. Of course, Trump says lots of things and then does something else, and it's entirely possible that the president was just trolling his attorney general, Jeff Sessions, as ridiculous as that sounds. In any case, be guardedly optimistic about big changes in weed policy coming from the top down.

For those who prefer to mainline their democracy directly through voter initiatives, there are at least 10 states with cannabis referenda under consideration. The Arizona Legalization of All Drugs Initiative, for one, isn't fooling around. It would not only legalize weed, heroin, coke and peyote, but would prohibit the government from taxing or regulating all of the above. The initiative needs about a quarter-million valid signatures to make it to the ballot. Okay, that one's a longshot, but Michigan, Oklahoma and Utah all have more temperate cannabis

NATIONALLY, THE ISSUE HAS BEEN TAKEN UP BY THE PRESIDENT, WHO RECENTLY CLAIMED HE WOULD SUPPORT THE CONGRESSIONAL EFFORT TO END THE FEDERAL BAN ON MARIJUANA.

initiatives ready to go for November. More may make it to the ballots before then; to keep track, check out mpp.org/2018-ballot-initiatives.

Maryland *might* have had a weed initiative on the November ballot, but after brief debate in the General Assembly, the powers that be opted not to allow voters to decide on cannabis policy. “Marylanders do not get to vote on legalization this year, but they do get to weigh in on the legislators who declined to put it on the ballot,” said Kate Bell, legislative counsel for the Marijuana Policy Project. “Most people recognize cannabis prohibition has been a costly failure and they want to know where their candidates stand.”

US territories beyond the 50 states are also seeing green. While most of the field of Guam's gubernatorial candidates are tepid on cannabis, Lou Leon Guerrero is all in. “We support the legal adult use of marijuana. More Americans than ever

acknowledge that marijuana can be used responsibly by being informed,” she told *Marianas Variety*, noting that “schools, roads, law enforcement and our hospital [would] benefit from new tax dollars.”

The Commonwealth of the Northern Mariana Islands is closer to full legalization, as the Senate has recently passed legislation to that effect. The bill must now get the thumbs-up from the House and then approval from Governor Ralph Torres.

It isn't difficult to see how cannabis is connected to other top campaign issues. Is your state's economy sluggish, and are its coffers depleted? A vibrant marijuana industry can help. Want to create jobs for your constituents? Same answer. Ditto crime. Ditto the opioid crisis. Pot is here to help.

For more information on cannabis in the upcoming election, check out our voters' guide on page 90. ✨

HIGH FIVE

RAGE AGAINST THE DYING OF THE LIGHT

THESE UNDER-THE-RADAR PROHIBITIONISTS CONTINUE THE BATTLE AGAINST BUD. BY FRANK GREGORY



REPRESENTATIVE PETE SESSIONS

Pete Sessions (no relation to Attorney General Jeff) has been a US Representative for Texas since 1997. He currently serves as chairman of the House Rules Committee, where he steadfastly buries cannabis-related proposals, ensuring that they don't get a vote. Sessions has claimed marijuana is “made for addiction” and supports the gateway theory. He remains a major obstacle to federal marijuana legalization. For more on Pete, see page 92.



SHERIFF GRADY JUDD

The Polk County, FL, sheriff doesn't discriminate when it comes to medical or recreational cannabis. He opposes them both, and he's been active in blocking marijuana-law reform in Florida. Specifically, Judd believes that medical-pot proposals are a ruse to create a path for recreational legalization. He further claimed, without evidence, that only 6 percent use cannabis to treat cancer, HIV or AIDS in states with medical-use laws.



ATTORNEY BILL MONTGOMERY

Maricopa County Attorney Bill Montgomery has been a consistent marijuana antagonist since assuming office in 2010. Montgomery made headlines in 2015 when he called a veteran who was concerned about access to medical cannabis an “enemy of the state.” He also compared legal-pot expos to drug-cartel activity. Montgomery had worked tirelessly to repeal Arizona's medical-marijuana law, but was shot down by the state's Supreme Court in 2017.



ACTIVIST KEVIN SABET

A longtime opponent of marijuana-law reform, Kevin Sabet has poured his heart and soul into blocking legalization. In the process, he has become one of the country's preeminent anti-pot propagandists. His group Smart Approaches to Marijuana (SAM) fights efforts to commercialize cannabis. But mostly the group just lobs smear campaigns at the plant. Sabet's latest shtick involves comparing the legal-pot industry to Big Tobacco and ham-fistedly trying to tie cannabis to the nation's opioid crisis.



FORMER DRUG CZAR BILL BENNETT

While a majority of Americans support legalizing cannabis, crusty old Bill Bennett remains adamantly, incoherently opposed to pot. He often crops up in op-ed columns to rail against legalization, which he believes will increase use and lead to the downfall of society. Of course, the real societal damage comes from enforcing outdated pot laws that disproportionately affect people of color. Sadly, Bennett remains unmoved by logic or compassion.



THE REAL

NAPALM



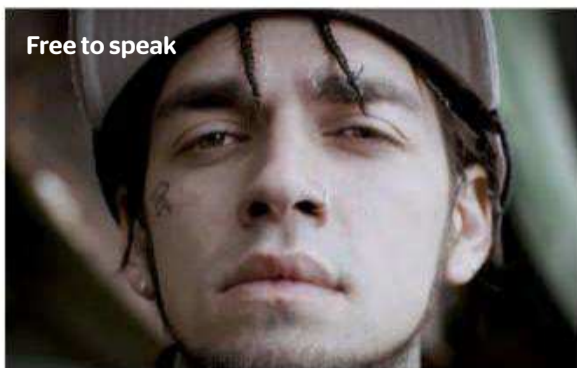
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BUM RAP

Turkish rapper Ezhel dodged some serious jail time recently after an Istanbul court acquitted him for charges of “inciting cannabis use through social media postings as well as song lyric,” according to the *New Arab*. The trial lasted a mere nine minutes before the judge called it for Ezhel, whose real name is Omer Sercan Ipekcioglu. Ezhel had been collared by narcs in May, who were likely not enamored of the Ankara-born songwriter’s 2017 debut album *Muptezhel*, which translates to “drug user” in Turkish slang. Since Ezhel had released the record on his own, absent a major label, he faced criminal charges alone. Human-rights observers have criticized Turkish President Recep Tayyip Erdogan, in particular for how he has overseen the decline of democratic niceties in the country, such as free expression. “We got an acquittal. We can say that justice has been done,” Ezhel’s lawyer, Fuat Ekin, said, as reported by the Media and Law Studies Association, a free-speech group.

TRAGIC BUS

For years, visitors to Denver could enjoy a nice relaxing bus tour in peace, the experience elevated by a certain legal product. But the city recently cracked down on a couple of cannabis-bus tour operators—namely My 420 Tours and Colorado Cannabis Tours—as Denver cops went undercover to bust 31 tourists and bus employees for public consumption, with one driver arrested to boot. A city spokesman told Colorado Public Radio that law enforcement was simply responding to complaints about public tokery, but when pressed for copies of those complaints, the city demurred, saying it needed secrecy to “protect the integrity of the current prosecutions.” The city claims that, since anyone can take a canna-bus, they are by definition a public space and therefore off-limits for pot consumption. The busts expose a sticky problem with Denver (and elsewhere): Where is someone supposed to go to enjoy a completely legal product?



FRIEND IN WEED

Maryland gubernatorial candidate Ben Jealous has a valuable ally in comedian Dave Chappelle, who is stumping for him on the campaign trail. In a recent debate, Jealous dropped the news that he had smoked weed with his old friend Chappelle—his “godbrother”—back in the day. The former president and CEO of the NAACP might not need Chappelle’s celeb power, but it helps now that Jealous has hitched his wagon to the star of cannabis, elevating it to a salient campaign issue in the Old Line State. Jealous’s embrace of legalization is for real, and he acknowledges Chappelle’s influence on his thinking. “I’m standing here with the first person who made the argument to me that cannabis should be legal for adult use,” Jealous said of his childhood friend. The candidate was the keynote speaker earlier this year at the National Cannabis Policy Summit in Washington, DC.



ROGUE'S ISLAND

Rhode Island has a modest medical-cannabis program with just three licensed dispensaries throughout the state. A plan to add another 12 to the mix was touted by Governor Gina Raimondo as a way to expand patient access, reduce prices and stymie the black market, but the state’s House Finance

Committee killed the plan. Why, you ask? The plan-killers themselves don’t have a coherent answer to that question. “The proposal would have created far too many centers,” House Speaker Nicholas Mattiello told the *Providence Journal*. “I don’t know what the right number is, but the whole system needs a comprehensive review before taking any further action. I don’t want to make a decision that may have to be pulled back.” The *Journal* estimates that some 70 new businesses had been relying on the expanded program, but now hundreds of recently created jobs are at risk. The chief (and only?) beneficiaries of the killed expansion are the three existing dispensaries, all of which had hired lobbyists to fight the bill.

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GIANT JOINT

A three-foot-long joint was auctioned off for charity recently by Stone Road Farms of Los Angeles. The elephantine blunt was shaped like an elephant's tusk, in homage to the African Wildlife Foundation, the conservation group for which the fund-raiser was held. "Smoking this would definitely be a multiday endeavor," Stone Road founder Lex Corwin told *HuffPost*. "After three or four hits, you'd be couch-locked." The fattie was created by blunt artist Weavers, who wrapped the tusk beauty in 24-karat gold-leaf papers (said to be worth some \$5,000) and crammed it with more than a pound of flower, two ounces of bubble hash and six ounces of concentrates (all donated by Team Elite Genetics, Stone Road and Soilgrown Solventless). The gargantuan rollie was sold for only \$4,000—20 grand less than its estimated retail value—but the elephants appreciate all the help they can get.

COLORADO BLOCKIES

Colorado Governor John Hickenlooper vetoed a trio of cannabis-themed bills recently, thereby arousing some anxiety in the state's medical and business communities. One bill would have added autism to the list of acceptable medical-marijuana conditions, another would have made investing in cannabis more flexible and a third would have allowed dispensaries to offer their clients tasting rooms. In putting the kibosh on the autism provision, Hickenlooper argued that more research was required. "In vetoing this bill, we do so on sole concern that medical efficacy of MMJ to treat [autism spectrum disorder] has yet to be fully studied by medical professionals and scientific experts," the governor wrote in a memo accompanying his veto. Some business folk are spooked by the veto that cut off new streams of investment capital, warning that it could make some cannabis concerns take their businesses elsewhere. There is some speculation that Hickenlooper, who has always been uneasy with the Centennial State's embrace of cannabis, is positioning himself for a presidential run.



GOOD TO BE KING

It's surprising that it took this long, but NBA star LeBron James finally has a strain of weed named after him. The new variety, "LA" Bron James, was introduced to the world by hip-hop star The Game, who has his own cannabis company, Trees by Game. He told TMZ it's "a strain inspired by my city & them trying to bring King James to the LAKESHOW," which is to say Game was hoping to convince the basketball megastar to bring his talents to Los Angeles to play for the Lakers. The rollout included a video with one of Game's partners twisting up a joint as the rapper enthused, "We just created a new brand, man. 'LA' Bron James. Would you look at this shit?" Well, sir, your cunning plan worked spectacularly. King James recently inked a four-year, \$154 million contract with Game's beloved team, becoming the highest-paid basketball player of all time.



HOPHEAD BREWERS

Lagunitas Brewing Company has a long, loving history with cannabis, declaring that "marijuana has helped fuel innovations and creativity for many of its most famous brews." Now comes the beer brewer's latest entry into adult beverage, Hi-Fi Hops, a sparkling hops drink infused with THC (from sun-grown

herb by AbsoluteXtracts). "We have come to realize that our passion for hops is a big part of our passion for beer," said brewmaster Jeremy Marshall. "We often dream of hops and their cannabis cousin partying together at their family reunion. We wanted to bring this party to life in a drink." The new line of drinkables will be available in a balanced THC/CBD dose of five milligrams each per 12-ounce can, or a more potent 10-milligram THC version. Either way, these are nonalcoholic drinks with zero calories. Alas, this happy hops brew will be available in California only.

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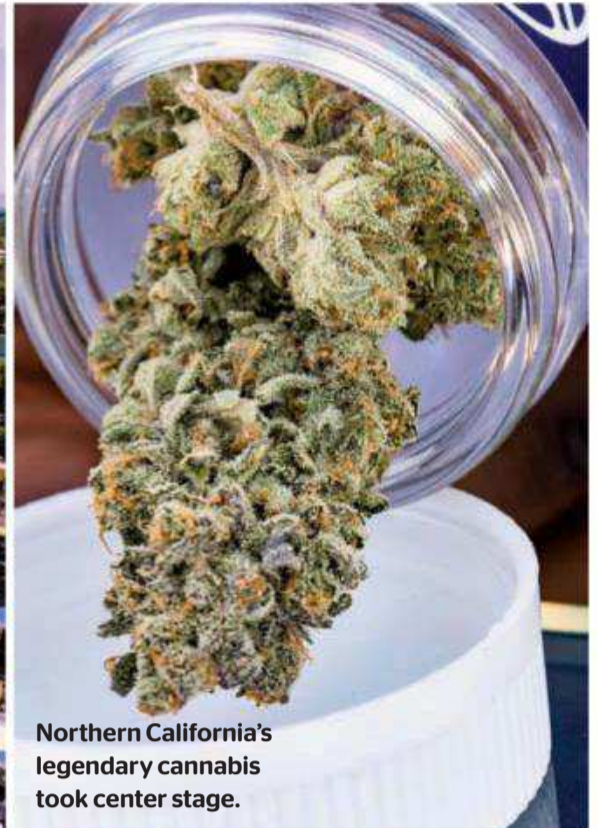
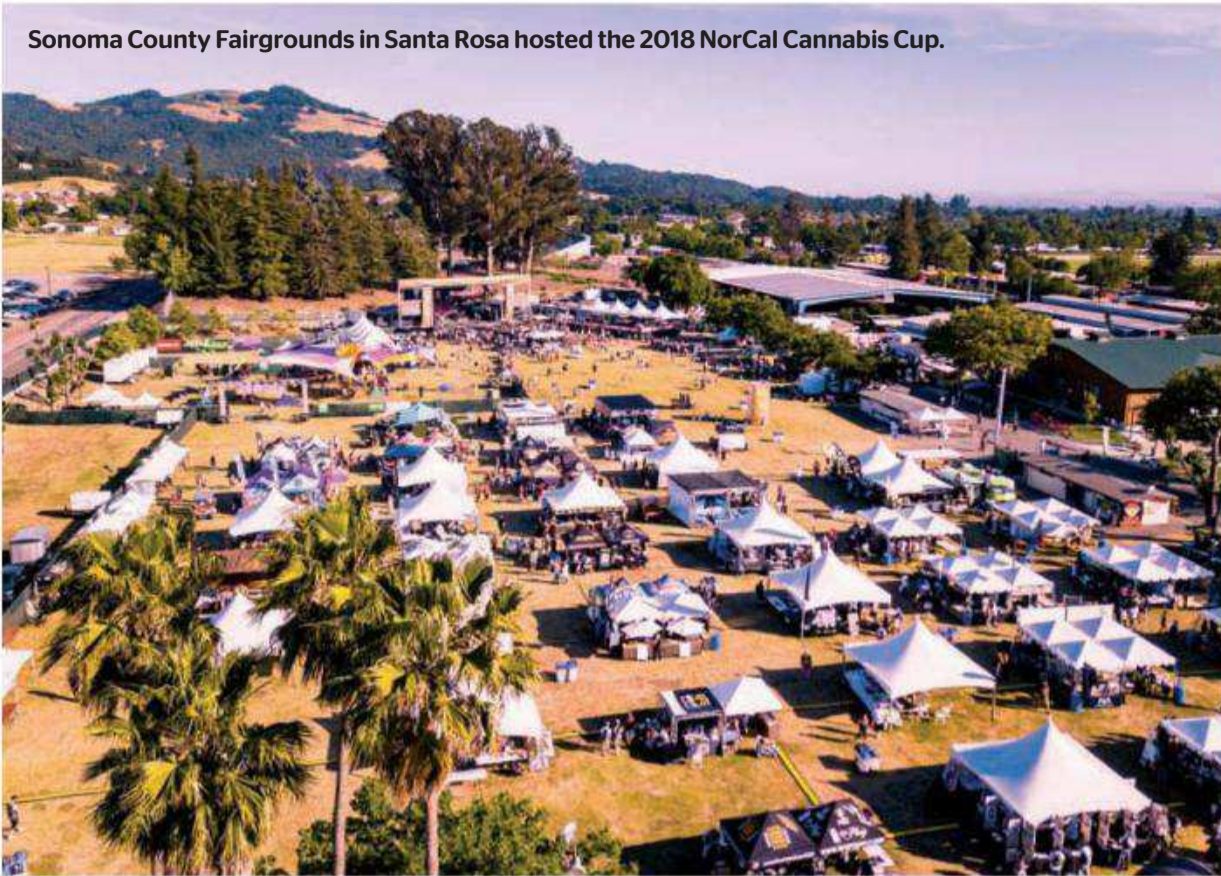
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Sonoma County Fairgrounds in Santa Rosa hosted the 2018 NorCal Cannabis Cup.



Northern California's legendary cannabis took center stage.

BAY AREA BUZZ

HIGH TIMES RETURNS TO NORTHERN CALIFORNIA FOR THE SECOND-EVER FULLY LEGAL CANNABIS CUP.

BY MIKE HUGHES, PHOTOS BY JESSE FAATZ

NORTHERN CALIFORNIA PLAYED HOST to the first-ever stateside Cannabis Cup in 2010. And while the event has grown exponentially in the intervening years, spreading across the country, *High Times* has always felt at home in NorCal, having held events in San Francisco (the Concourse), Richmond (the Craneway Pavilion), Daly City (the Cow Palace) and, of course, Santa Rosa (the Sonoma County Fairgrounds).

High Times made history this May by hosting the nation's first-ever fully legal cannabis event at Sacramento's Cal Expo Fairgrounds. In June, we returned to the city of Santa Rosa to host the second-ever fully legal Cannabis Cup at the gorgeous Sonoma County Fairgrounds.

Thanks to Proposition 64, which legalized adult use in the Golden State, *High Times* had the opportunity to work with state and local governments to obtain a license sanctioning the purchase, sale and consumption of cannabis at the event. Due to extensive, productive collaboration with these agencies, including California's Bureau of Cannabis Control, *High Times* was able to hold the second-ever adult-use event.

"We couldn't be more excited to host the nation's second state-sanctioned cannabis event, especially so soon after our successful pilot in Sacramento," said *High Times* CEO

Adam Levin. "We're not just proving that events like this are safe and enjoyable, but also the economic and social benefits they can provide for these communities."

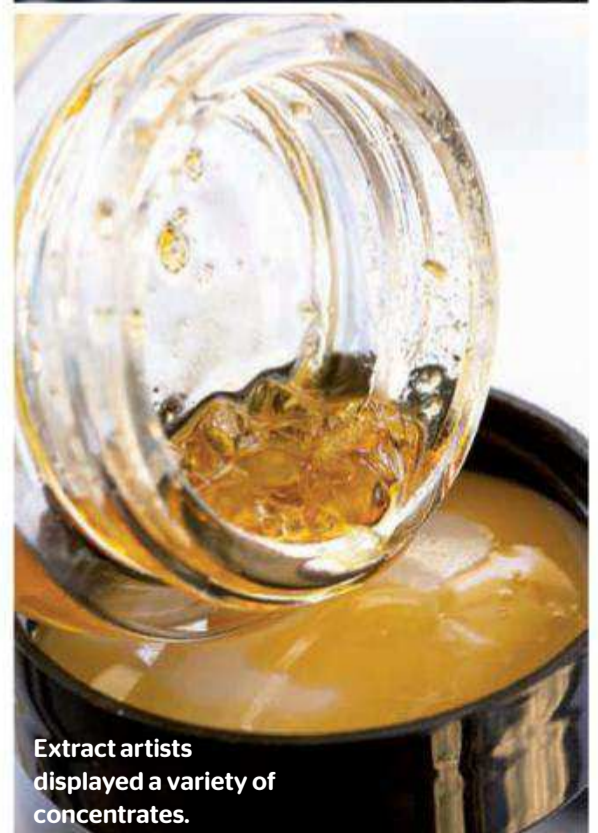
Northern California is a special place to host a cannabis competition. Legendary cultivators from the Emerald Triangle and pot-industry pros from San Francisco converged on the Sonoma County Fairgrounds on June 2 and 3. The festivities featured booths from some of the state's preeminent pot companies, like Alien Labs, GoldDrop, C.R.A.F.T., URB Delivery and the Village.

C.R.A.F.T. took top honors in the CBD Flower category with its CBD OG. Judges said the entry possessed "A+ flavor and smoke, which we felt behind the eyes and backs of the ears." Cannabis Cup mainstay GoldDrop added yet another Cup to its collection, finishing first in the Vape Pen Cartridge category for its Big Lemons Vape Cart collaboration with Lemon Tree. According to the judges, the Big Lemons Vape Cart was "Very clean. [With a] mellow but uplifting high. It had a good, subtle taste—not too harsh."

Other big winners from the weekend included Team Elite Genetics, which finished first in both the Hybrid Concentrate and *Indica* Flower categories, and Exotic Genetics, which won in the Best Booth and Best Product



Cali pot producers offered up samples of the Golden State's greatest strains.



Extract artists displayed a variety of concentrates.

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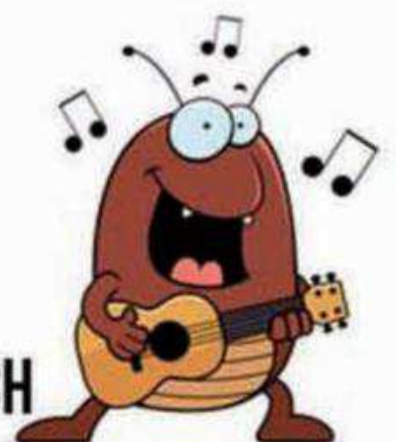
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MINI



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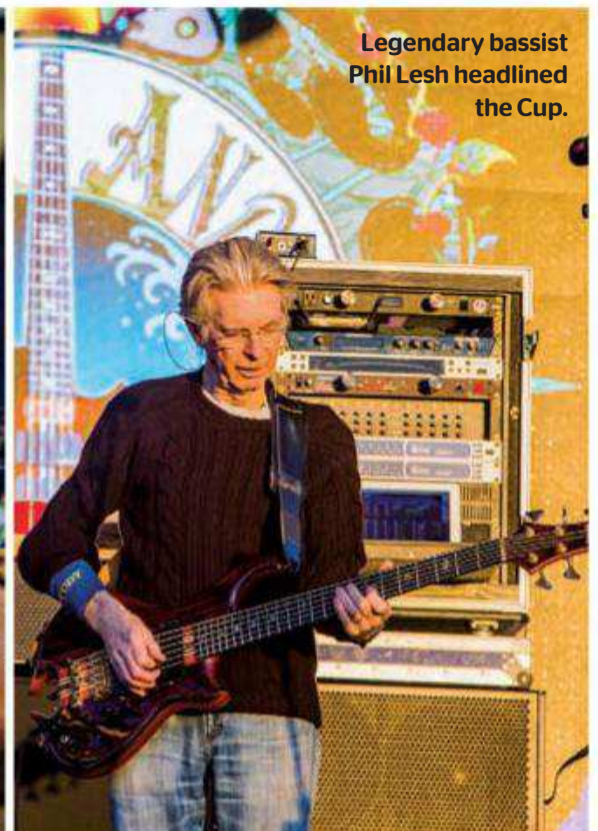
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MV



Multiple Cup winner C.R.A.F.T. displayed their wares.



Legendary bassist Phil Lesh headlined the Cup.

categories. Judges felt Team Elite Genetics' Crème De La Crème collaboration with OG Collective "had a pleasant, skunky aroma with sweet undertones and a nice, sweet, skunky flavor with grape undertones. There was clean, smooth smoke with a light gray ash. A nice high, and not too couchlock-y." You can check out all the winners from the 2018 NorCal Cup on page 34.

The Northern California Cup also boasted live recordings of *High Times* podcasts *The Green Room* and *Free Weed*. These shows featured cannabis-cultivation and -industry luminaries Mike from Exotic Genetics, the Grow Sisters, Nikka T from Essential Extracts, the Cuban Grower, Nichole West and Crockett from Crockett Family Farms. And Bay Area natives and 420 creators the Waldos were on hand to explain the origins of the world-famous stoner code.

In addition to legal weed, cultivation

advice and the latest pot products from innovative Cali companies, the NorCal Cup boasted an epic musical lineup. While recent Cups have been heavy on hip-hop, the NorCal lineup went in a decidedly jammy direction with veteran acts like Blues Traveler, G. Love & Special Sauce, Arrested Development and, of course, headliner Phil Lesh & Friends. The hometown hero and Grateful Dead founding member played an unforgettable, decades-in-the-making set that had attendees blissfully dancing into the night.

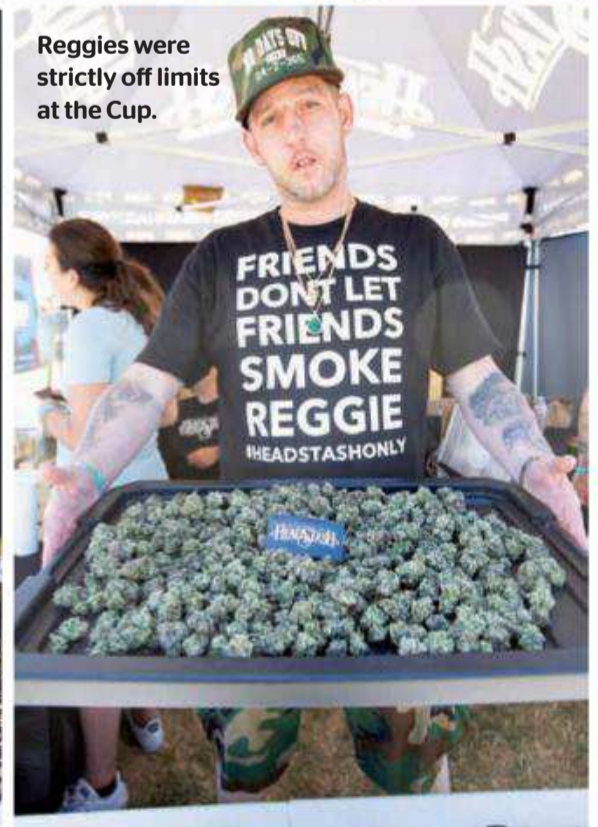
When the event wrapped up on Sunday evening, it became clear what a historic run *High Times* events have been on in 2018. With two fully legal recreational cannabis events in the books, we prepare to head back to Amsterdam next (July 13-15), where the Cannabis Cup began some 30 years ago, then on to Alaska (August 11-12) to break new ground in the name of marijuana freedom. ✨



Arrested Development took the mainstage Sunday.



The Waldos sat in on a live recording of the *Free Weed* podcast.



Reggies were strictly off limits at the Cup.

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NORCAL CANNABIS CUP WINNERS

BEST BOOTH

1st Place: Exotic Genetix
2nd Place: Eve Farms
3rd Place: Nug

BEST GLASS

1st Place: Jerome Baker, Mellow Yellow Bong
2nd Place: Smoke Cartel
3rd Place: iDab Glass

BEST PRODUCT

1st Place: Mint Chocolate Chip Seeds by Exotic Genetix
2nd Place: Loaded Pre-Roll by Golden State Banana
3rd Place: Papaya Flower by Eve Farms

BEST EDIBLE

1st Place: Strawberry Express Edible Tincture by Val's Organics with the Weed Studio City and Critical Minds
2nd Place: Milk Chocolate Nug Bar by NUG
3rd Place: Origin by Atlas Edibles

BEST TOPICAL

1st Place: Hawaiian Cream by Val's Organics with the Weed Studio City
2nd Place: Smarties Cream by Connected in collaboration with Carter's Aromatherapy Designs
3rd Place: Relief Balm made with Sherbert and AC/DC by Native Humboldt Farms

BEST CBD EDIBLE

1st Place: Caramel CBD Dark Chocolate by Chill, the Highest Chocolate

2nd Place: Liquid Dreams CBD 20:1 25 mg Capsule by Day Dreamers
3rd Place: Sour Tsunami Micro Dose Elixir by Chad Smith with Receptor Nectar

BEST CBD VAPE PEN CARTRIDGES

1st Place: Pineapple Tsunami by Talking Trees Farms in collaboration with Blue River and Gold Drop
2nd Place: Lemon Penny CBD Vape Cartridge by Gold Drop with Blue River and Lemon Tree
3rd Place: MediHaze by Chemistry

BEST CBD FLOWER

1st Place: CBD OG by C.R.A.F.T.
2nd Place: Pac-Man CBD by The Kaiser Select with Urb Delivery and The OG Collective
3rd Place: Sour Cyclone by Skunk Tek presented by Fig Farms

BEST CBD CONCENTRATE

1st Place: Kosher Jack CBD by Pearl Pharma with Terps on the Rocks
2nd Place: Black Mamba by MGOT with Terps on the Rocks
3rd Place: Raspberry Sherbert CBD Sauce by Fleur D'Elite in collaboration with Guild Extracts & DH Estates

BEST MEDICALLY INFUSED CANNABIS

1st Place: THCA covered Solventless Geodes with White Buffalo Flower, Gorilla Glue Rosin, and Red Dragon White Buffalo Kief by Sovereign
2nd Place: Loaded Preroll Blunt by Loaded in collaboration with LA Kush
3rd Place: Pomegranate by Next Level Prerolls

BEST PREROLL

1st Place: Loaded Preroll by Loaded in collaboration with Critical Concentrates
2nd Place: Kimber Cannon by Garrison Lane
3rd Place: T.I.T.S. Preroll by IC Collective

BEST VAPE PEN CARTRIDGES

1st Place: Big Lemons Vape Cart by Gold Drop with Lemon Tree
2nd Place: Mimosa Live Resin Sauce Cartridge by Moxie with the Village
3rd Place: Pineapple Express Vape Cart by The Bloom Brand

BEST NON-SOLVENT HASH

1st Place: Sherbet Live Rosin by Eve Farms in collaboration with Ahti
2nd Place: Cuban's Strawberry 90 micron Whole Plant Fresh Frozen Rosin by Critical Cannabis in collaboration with @Eldaggy and Cuban Tech
3rd Place: Papaya Live Rosin by JDI Farms in collaboration with Str8 Organics and Frosty

BEST INDICA CONCENTRATE

1st Place: Albert Walker by First Class Concentrates
2nd Place: Strawberry Banana by Synergy
3rd Place: Zkittlez by Terp.n.time

BEST SATIVA CONCENTRATE

1st Place: Forbidden Fruit by Gas House with Synergy
2nd Place: Rebel Sour Live Resin Sauce by Rebel Grown with

Humboldt's Finest Raw and Uncut
3rd Place: Sour Diesel Live Resin Diamond Sauce by Fresh Off the Bud in collaboration with Moxie

BEST HYBRID CONCENTRATE

1st Place: Candy Nova by Team Elite Genetics
2nd Place: Strawberry Banana Sauce by Guild Extracts in collaboration Bon Vivant
3rd Place: Lemon Sugar Kush Live Resin Sauce by Rebel Grown with Humboldt's Finest Raw and Uncut

BEST INDICA FLOWER

1st Place: Creme De La Crème by Team Elite Genetics with OG Collective
2nd Place: OG T.I.T.S. by Diamondback Genetics
3rd Place: Gelato 41 by Connected

BEST SATIVA FLOWER

1st Place: Gelonade by Connected
2nd Place: Mimosa #A5 by Atrium Farms
3rd Place: Master Blaster by Purple Frost Genetics

BEST HYBRID FLOWER

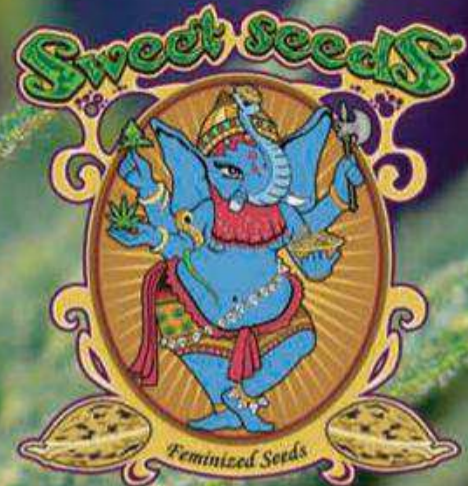
1st Place: 40 Elephants by Garrison Lane
2nd Place: 365 Lemon Tree by 365 Canna Farms in collaboration with Dying Breed Seeds and Compassionate Heart
3rd Place: Peanut Butter Breath by Dubz Garden

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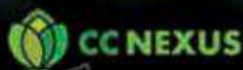
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THE RIGHT BYTES

WRATHFUL YOUNG PUNKS MAKE AN ALBUM WORTH CONTROL-CLICKING ON.

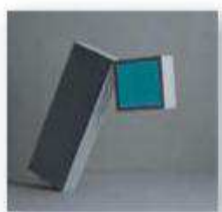
BROOKLYN-BASED ART PUNKS Bodega don't just have their finger on the pulse of modern life; they have their sharp-taloned hands deep in its throbbing heart. Led by Ben Hozie and Nikki Belfiglio, the band here delivers a glittering handful of brief, angular, needle-sharp post-punk tunes that musically recall such progenitors as Killing Joke, Gang of Four, Wire and the Pixies, and lyrically serve as a dispatch from the dagger edge of life in the digital chasm.

Speak-shouting with a clarity that encourages the listener to sing along, Hozie addresses the realities of living in a monitored, quantifiable, social-media-driven world. "How did this happen?" he asks, yelping over the album's opening track, referring to our current dystopia, in which "your

playlist knows you better than a closest lover." One answer can be found a few tracks later in the stuttering "Bookmarks": "All day at work, stare at computer / Come home from work, stare at computer." "I use my computer for everything," announces a disembodied masculine eight-bit voice at

the beginning of "Bodega Birth," before describing the results of such activity by referencing a classic Smiths song: "Heaven knows I'm miserable now."

Interspersed among these and other eminently danceable, acerbic tunes ("Can't Knock the Hustle," "Truth Is Not Punishment") are a couple of sunnier, hazier outliers. These include the jammy "Williamsburg Bridge," with its lulling feedback and repetitive, contemplative licks; the warm but ominous "Jack In Titanic," in which Hozie at once asserts and denies his own power and individuality as a lover; and the jangly, wistful "Charlie," with its primitive but emotional guitar solo. From their use of "wave of the future" VR to reveal the inglorious actuality of playing a local show to a few bored acquaintances scrolling, faces bluishly aglow, through their phones to their simple, memorable hooks and spiky lyrics, this band is as fresh and bloody as yanked teeth—and a lot more fun! *Polly Watson*



BODEGA
Endless Scroll
(What's Your Rupture?)

MUSIC RECOMMENDATIONS



THE COATHANGERS
Live
(Suicide Squeeze Records)

The Coathangers are not merely "one of the best live female bands." They're one of the best live bands period—no gender qualifiers. Always inventive, the Atlanta-based trio captured on vinyl their post-punk verve unleashed at famed Alex's Bar in Long Beach, CA, during a free two-night

stand in November 2017. The group's captured imaginings run the gauntlet from the melodic shrieks of "Springfield Cannonball" and jagged "Adderall" to the furious "Hurricane." While "Shut Up" slams a locked door of distortion on any who dare doubt the Coathangers. *Mark Miller*



THE NECTARS
Sci-Fi Television
(Jaba Music)

The latest punk band to come out of the dirty Jerz dropped their debut album, *Sci-Fi Television*, earlier this year to some real acclaim that could rocket them into the mainstream. Front-woman Jessica Kenny is as mesmerizing and explosive as Gwen Stefani when she first made the scene, but

Kenny has a beautiful yell all her own. The Nectars are consummate stoners, and their creativity lends legitimacy to the slow-burning, methodical headbang that is sure to commence while listening to standout tracks like "Heaven," which showcases their hyped-up, gritty NJ energy. *Mary Schumacher*

VIDEO GAME RECOMMENDATIONS



DETROIT: BECOME HUMAN
Sony Interactive Entertainment
(PlayStation 4)

Partway through one of *Detroit: Become Human's* segments, you may find yourself flipping back and forth between your conversation choices (think a *Choose Your Own Adventure* book) and the in-game flowchart showing the myriad ways your story can go. You might be tempted to try to control the story. But once you give up control and just play through the consequences of your actions, *Detroit* offers one of the best experiences of any media so far this year.

Swapping through different story lines, you control the actions and fates of three androids: Connor, who is working with the police to solve a murder; Kara, who is trying to protect a young girl from a violent world; and Markus, whose aim is to establish a world where androids have equal rights (or depending how you play, are the rulers).

Calling this an "interactive movie" is probably more accurate, as it doesn't possess the typical video-game conventions. Rather, you explore

your environment and interact with it through swipes and gestures. That makes it especially annoying when some fight scenes, which can be particularly difficult, go the wrong way because you swiped the wrong way. Ultimately, though, that just plays into one of the story's main themes—you can't change your mistakes.

Detroit: Become Human has a big story to tell, with lots of parallels to modern society, that can completely change as you play—there are up to 45 different endings. After you beat the game, you'll want to immediately start a new playthrough to see how other story lines play out. While I, of course, also want to see how those play out, I know my original ending will be the "canon" for me, and that canon will be different for someone else. That's where *Detroit's* beauty lies: seeing through the eyes of someone else, and seeing just how different the interpretation of that perspective can be. *Casey Holliday*



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FAIR AND BALANCED

THERE'S NO PLACE FOR FAKE NEWS IN DATA ABOUT CANNABIS.



J.J. McCoy is Senior Managing Editor for New Frontier Data

IN THE ERA of fake news, there's no lack of rumors, urban myths or flat-out political propaganda being repeated about cannabis, whether in dark opposition or overly sunny sales pitches.

As an industry-analysis firm, New Frontier Data takes no stance on the legalization of cannabis. Our aim is to provide unbiased, vetted, authoritative and actionable data to allow readers, investors, policymakers, researchers and academics to make informed decisions about the growing industry. So when someone goes either all *Reefer Madness* or makes claims about a miraculous panacea, we tend to look askance even as we take a dive into the data.

Incredibly, the spirit of the 1936 classic propaganda film still lingers amid the debate about cannabis policy. Last May, Sheriff Howard Buffett of Macon County, Illinois, told a local newspaper that cannabis legalization would mean the demise of trained drug-sniffing dogs. The son of investment magnate Warren Buffett, the lawman's private foundation paid \$2.2 million in 2016 to support K-9 units in 33 counties across the state. "The biggest thing for law enforcement is, you're going to have to replace all of your dogs," Buffett said. "So to me, it's a giant step forward for drug dealers, and it's a giant step backwards for law enforcements and the residents of the community."

The director of Macon County's K-9 Training Academy, Chad Larner, promptly added that retraining 275 certified dogs would amount to "extreme abuse," and that since the dogs were trained not to be distractedly sociable, they would ultimately have to be euthanized.

Despite a few alarming headlines, the claim was immediately and widely rejected. A cursory review of how legalized states had long since dealt with their narcotic-detection dogs after legalization quickly disproved the assertion.

As an advocacy and lobbying agency, the National Organization for the Reform

of Marijuana Laws (NORML) constantly deals with such claims. Erik Altieri, NORML's executive director, recalled how in testimony to the Utah Senate last March, DEA Special Agent Matt Fairbanks warned the Utah Senate of stoned rabbits if it legalized the cultivation of edible forms of medical marijuana.

"We've also had numerous instances of anti-marijuana legislators citing fake online news stories claiming [that] legalization in Colorado caused 37 deaths in just the first day of retail sales," Altieri added. "Thankfully, in the age of Google and easily accessible scientific information, most of these absurdist claims are quickly debunked and seem to have little or no impact on persuading the public against marijuana-law reform."

Among the commonly repeated claims is that cannabis is a "gateway drug" that leads to consumers' use of other, more potent drugs. Yet, according to the federal government's National Institute on Drug Abuse, "the majority of people who use marijuana do not go on to use other, 'harder' substances. Also, cross-sensitization is not unique to marijuana. Alcohol and nicotine also prime the brain for a heightened response to other drugs and are, like marijuana, also typically used before a person progresses to other, more harmful substances."

Ironically, as NORML points out, "in jurisdictions where marijuana is

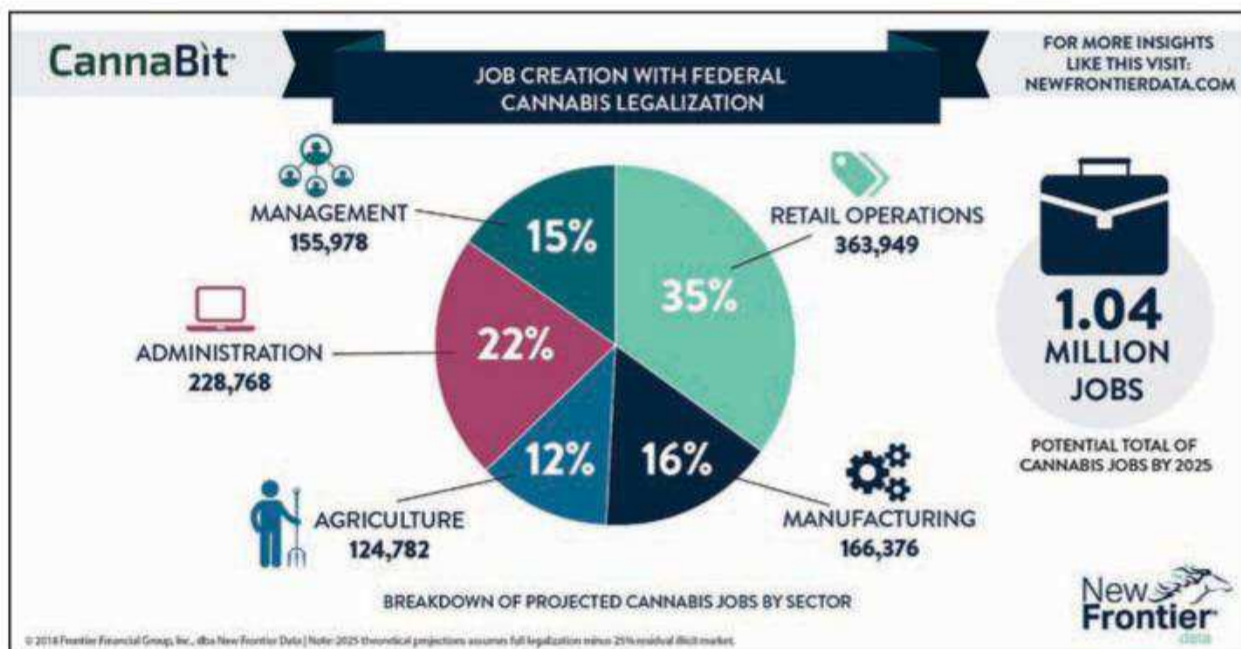
legally accessible, adults typically report decreasing their use of other controlled substances. In this sense, marijuana appears to act more as a potential 'exit drug' rather than as an alleged 'gateway.'"

Indeed, an August 2017 paper in *Harm Reduction Journal* actually concluded that "the growing body of research supporting the medical use of cannabis as an adjunct or substitute for opioids creates an evidence-based rationale for governments, health care providers, and academic researchers to consider the implementation and assessment of cannabis-based interventions in the opioid crisis."

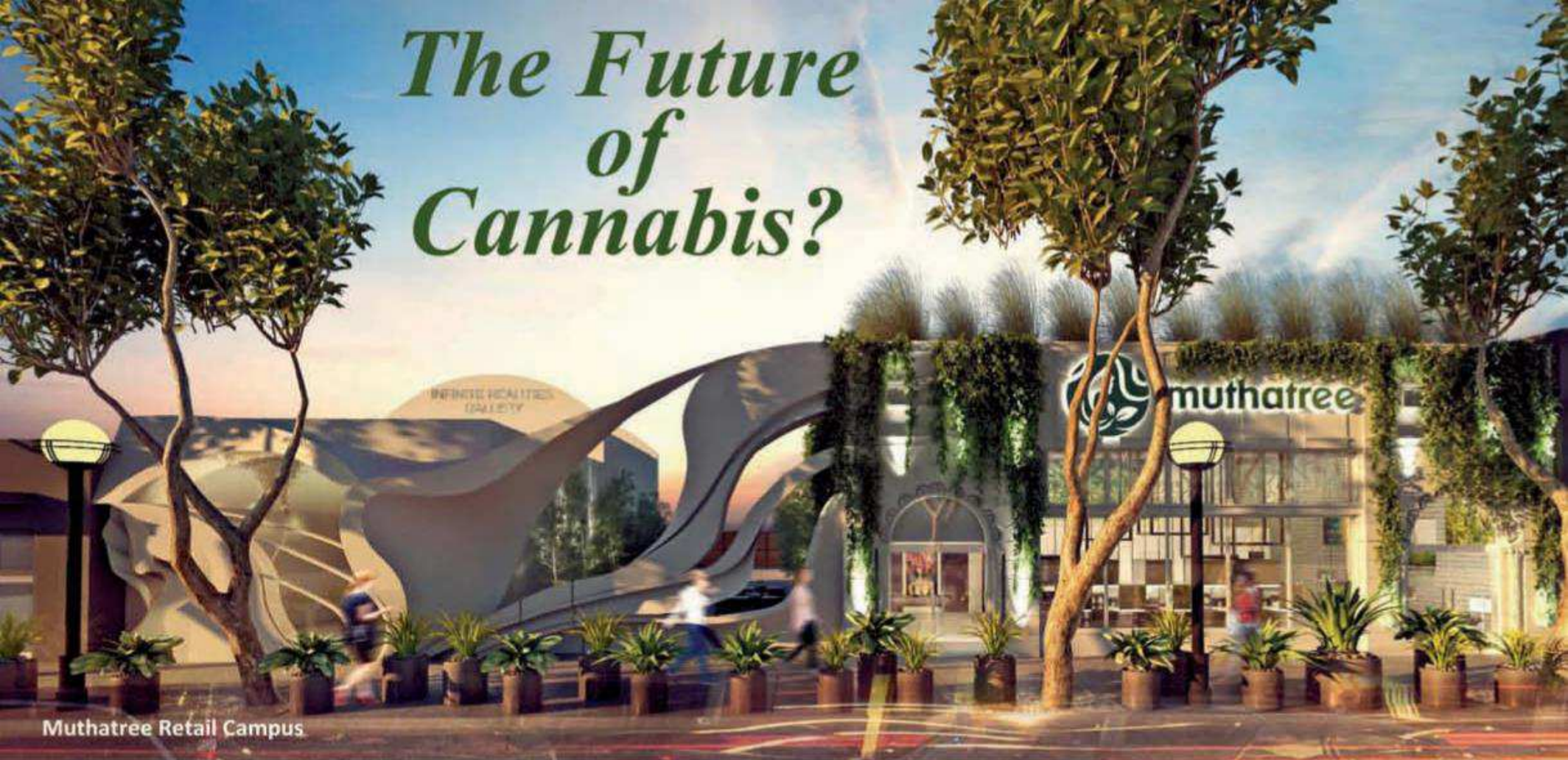
Meanwhile, a separate 2017 article in the *Journal of Psychopharmacology* found that more than three-quarters of medical-cannabis patients (76.7 percent) reported having reduced their use of opioids after taking medical cannabis. Likewise, roughly two-thirds of patients decreased their use of anti-anxiety (71.8 percent), migraine (66.7 percent) and sleep-aid (65.2 percent) medications.

To be sure, this all comes with the caveat that additional research is necessary, whether regarding touted benefits, the accuracy of breathalyzers or the levels of CBD in one's coffee.

The key is to approach debate with open minds and verifiable data rather than cynical fictions or commercial claims intended to cloud the discussion before it honestly begins. 🌿



The Future of Cannabis?



Muthatree Retail Campus



Retail



Consumption Salon



Performance Stage



Gallery & VR Exhibit

A Social Equity Ecosystem for Sustainable Change

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Our Muthatree retail campus is designed as a dedication to those seeking the highest quality cannabis products and the purest of lifestyle indulgence. It is a multidimensional place to explore cannabis-inspired exhibits and experiences of narrative, visual and creative art and an open space for interconnective engagement of our souls, thoughts and intellectual discoveries. It will emerge as a co-branded experiential partner with iconic brands and social equity entrepreneurs symbiotically welcoming the adventurous, curious, socially conscious and seekers of well-being.



Our Think and Grow Lab accelerator hub is a quintessential element of our ecosystem that promotes access to the "new green economy" through industry specific consulting services, capital investment and employee job training.



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Let's Shape Its Future Together*

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TOP 5 STRAINS

- 1 BLUE DREAM**
\$248
- 2 GORILLA GLUE**
\$297
- 3 PINEAPPLE EXPRESS**
\$367
- 4 KUSH**
\$435
- 5 GELATO**
\$350

(Strawberry Cough)
"This sweet-smelling, soaring *sativa* is pretty much perfect."
-New York, NY

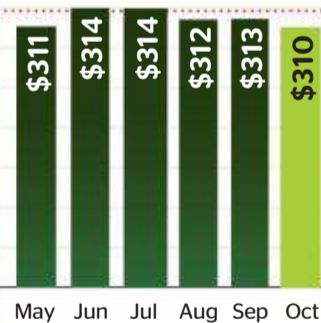
(Granddaddy Purp)
"This classic Bay Area strain is still one of my favorites. Its medicinal benefits are second to none."
-San Francisco, CA

MARKET ANALYSIS

Prices by the ounce

The US Price Index for October was down slightly from its previous month's average thanks to declines in the Southern and Western indices. Meanwhile, the Eastern Index finished the month \$3 above its previous month's average. Blue Dream and Gorilla Glue remained the top two submitted strains, while Kush returned to the top five after a brief absence along with newcomers Pineapple Express and Gelato.

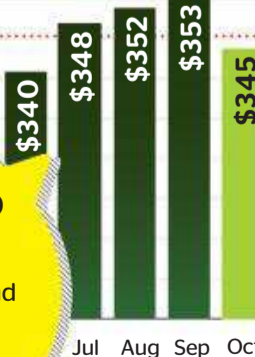
US Price Index
YTD Average: \$314



Eastern Index
YTD Average: \$335



Southern Index
YTD Average: \$346



Western Index
YTD Average: \$261



(Jack Skellington)
"A *sativa*-dom hybrid providing instant euphoria and creativity."
-Montpelier, VT

TRANS HIGH MARKET QUOTATIONS

STATE	CITY	STRAIN	PRICE
ALASKA	Anchorage	Chernobyl	400
ARIZONA	Mesa Scottsdale	Blue Dream Conspiracy Kush	232 155
ARKANSAS	Little Rock Rogers	Gas OG Kush	170 450
CALIFORNIA	Anaheim San Francisco	Blue Dream Granddaddy Purp	240 350
COLORADO	Boulder Denver	Cheese Train Haze Purple Dream	220 260
DELAWARE	Newark Wilmington	AK-47 401 Gasband	300 425
FLORIDA	Fort Walton Beach Tarpon Springs	Gorilla Glue Alien OG	300 280
GEORGIA	Atlanta	Gelato	420
HAWAII	Honolulu	Granddaddy OG	200
ILLINOIS	Aurora Chicago	Cindy '99 Lemon Diesel	450 230
INDIANA	Indianapolis	Cat Piss	420
IOWA	Ankeny	Loud Dream	240
KANSAS	Wichita	Mendo Purps	280
LOUISIANA	New Orleans Slidell	Green Crack AK-47	400 300
MASSACHUSETTS	Agawam	Blue Dream	220
MICHIGAN	Detroit	Cookies N Chem	420
MINNESOTA	Maple Grove	Gorilla Glue	300
MISSOURI	Marshall	Headband	450
MONTANA	Helena	Super Silver Haze	250
NEVADA	Las Vegas	Zkittlez	260
NEW MEXICO	Taos	Super Silver Haze	345
NEW JERSEY	Seaside Heights Woodbury	Arcata Trainwreck Sour Diesel	315 230
NEW YORK	Buffalo New York	Blueberry Dream Strawberry Cough	230 400
OHIO	Cleveland	Blue Cookies	450
OREGON	Beaverton	Moby Dick	210
PENNSYLVANIA	Pittsburgh	Pineapple Express	360
RHODE ISLAND	Warwick	Gorilla Glue	290
SOUTH CAROLINA	Charleston	Gelato	280
SOUTH DAKOTA	Sioux Falls	Lemon Skunk	500
TENNESSEE	White House	Granddaddy Purp	280
TEXAS	Dallas Houston	Pineapple Express OG Kush	350 420
UTAH	Salt Lake City	Blue Dream	300
VERMONT	Montpelier	Jack Skellington	350
VIRGINIA	Richmond	Cherry Kush	320
WASHINGTON	Bremerton Yakima	Dr. Who Hurkle	275 240
INTERNATIONAL			
AUSTRALIA	Mackay	Bush Bud	AU\$320
CANADA	Saskatoon	God Bud	C\$280
ISRAEL	Tel Aviv	Sour Bull	\$345

High Times wants to know what you're smoking. Submit your strain information including location and price by the ounce to thmq@hightimes.com, or tweet us (#THMQ).

(401 Gasband)
"Quality medicine that works."
-Wilmington, DE



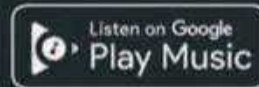
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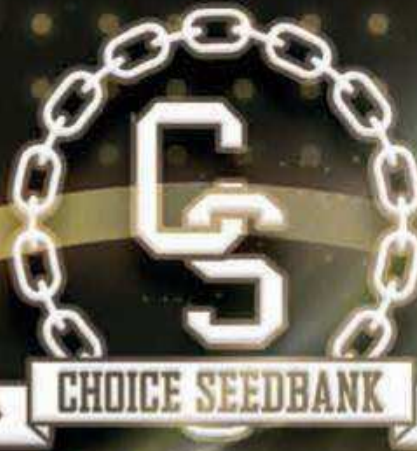
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2018 POT JOBS REPORT

THE TIME IS RIGHT TO JOIN THE CANNABIS INDUSTRY AS THERE ARE PLENTIFUL JOB OPPORTUNITIES FOR EVERY SKILL SET AND LEVEL OF EXPERTISE. SO DIVE RIGHT IN AND FIND THE CANNABIS CAREER THAT'S RIGHT FOR YOU. *BY JEN BERNSTEIN*

THIS PAST 4/20, New Frontier Data released revised market projections as part of its upcoming 2018 industry outlook, forecasting that the US legal cannabis market could grow to \$25 billion by 2025. If one thing is very clear about Americans and weed, it's that our love affair with this miracle plant is far from over and only gaining momentum as we continue to fight for federal legalization. And legalization on the federal level is what most Americans want. According to a 2017 Gallup poll, a whopping 64 percent responded in support of legalization, a record high for the survey.

One of the many benefits of legalization is the tremendous job opportunities it brings with it and the incredible financial impact it has on the economy. "One of the things that makes the cannabis industry so compelling as an economic engine is the number of sectors impacted by legalization

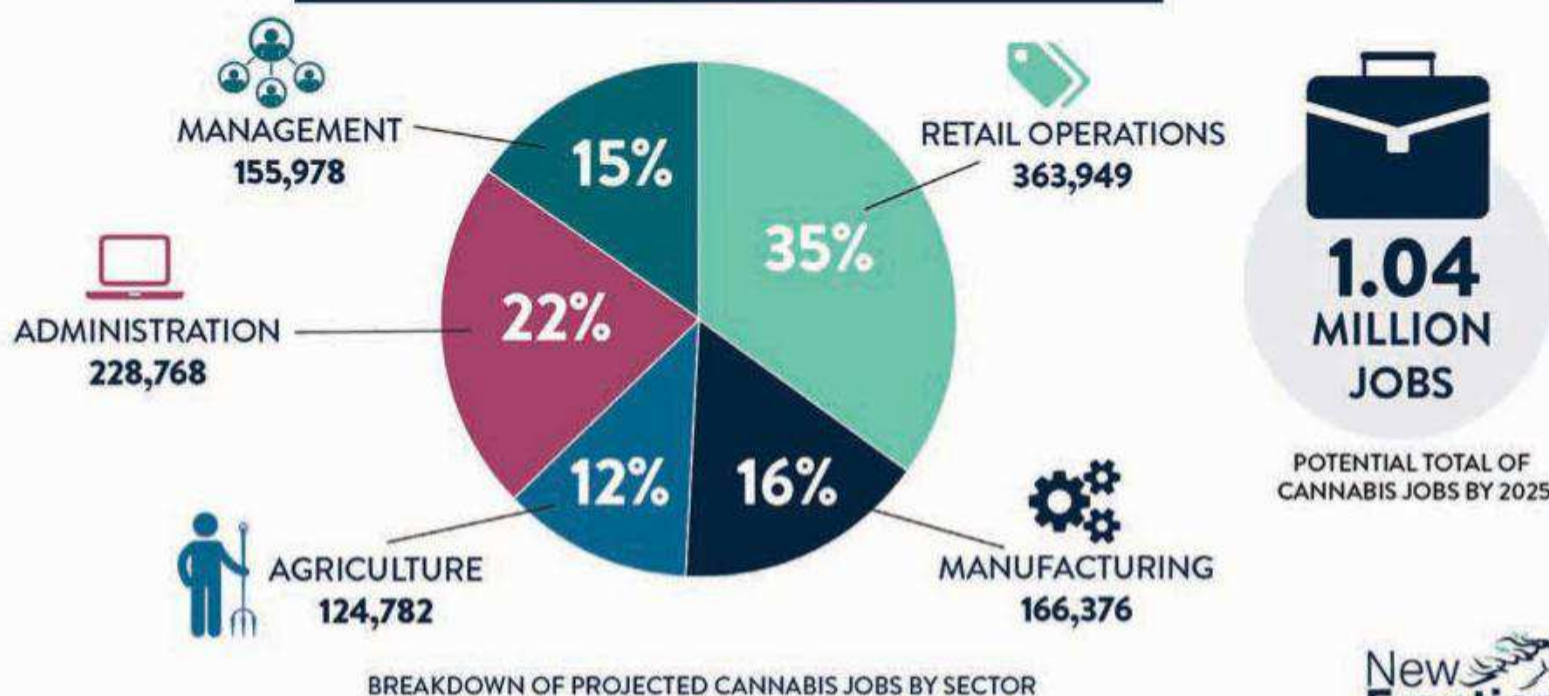
and the activation of an industry," says John Kagia, executive vice president of industry analytics for New Frontier Data. "Taking a look at cultivation, we've seen opportunities in an agricultural sense, of course, but then there's jobs in purchasing and extractions, supply materials, food science, consumer goods and ancillary goods," he adds. "It means that legalization generates a lot of jobs, but also a very broad base across many sectors."

Now that Oklahoma voters have approved State Question 788, 30 states and the District of Columbia all have some type of medical- or legal-cannabis law on the books. We've only just begun to understand the huge economic impact cannabis will have on our country. According to New Frontier, legalization at the federal level could create 1.04 million jobs by 2025, with most of them in retail operations (35 percent), administration (22 percent), manufacturing (16 percent),

management (15 percent) and agriculture (12 percent). If the federal government decided to legalize cannabis in all 50 states today, there would be more than 650,000 jobs created.

So how does one go about joining the cannabis industry? It's not as hard as you may think. What makes the cannabis industry so unique is that it's very easy to transfer your current skill set to a job in this space. "We've seen many make the transition from other sectors to this one," says Kagia, "from lawyers to soil makers and everything in between." The idea being that if you're a good manager at a retail store in a shopping mall, you can apply your experience to retail in cannabis at a dispensary, and so on.

From entry-level positions like budtenders or delivery drivers to more senior-level executives in brand and dispensary management, there's room for everyone to launch a career in cannabis.



© 2018 Frontier Financial Group, Inc., dba New Frontier Data | Note: 2025 theoretical projections assumes full legalization minus 25% residual illicit market.

New
Frontier
data

5 TIPS TO GET STARTED NOW

GETTING YOUR FOOT IN THE CANNABIS-INDUSTRY DOOR IS EASIER THAN EVER. HERE ARE FIVE WAYS YOU CAN KICK OFF YOUR CANNABIS CAREER.

KNOW YOUR NETWORK

Networking and meeting people who are already working in the cannabis industry remains the best way to get your foot in the door. Strike up conversations, ask relevant questions and request a business card so you can follow up. And be sure to follow through with your new contact. Chances are that your contacts will be able to point you in the right direction, know of a job opening or be willing to pass along your information to relevant employers if you stay in touch. “Your most important interactions happen at social events and gatherings,” says Todd Hinden, a New York City activist. “I’ve had some great introductions, but it’s up to you to keep in contact.”

ATTEND INDUSTRY EVENTS

All around the country, cannabis expos, meetups, seminars and weed-related events are happening. Scout out local chapters of the National Organization for the Reform of Marijuana Laws (NORML), Students for Sensible Drug Policy (SSDP), and conferences like MJBizCon or the Cannabis World Congress and Business Expo (CWCBE) to get a feel for the industry and where there are available job opportunities. Scott Giannotti, founder of the Cannabis and

Hemp Association, recommends “coming prepared with a strategy and a goal” to a cannabis convention, adding that the “first goal should always be to have fun and to enjoy your job-hunt process.” Recently, there have been cannabis-specific career fairs as states ready themselves for legalization. Check out Vangst Career Fairs, the Hemp & Cannabis Career Fair and Join the Green Rush for upcoming events.

BUILD YOUR CANNABIS RÉSUMÉ

If you’re searching for your first weed-related job but feel like you don’t have any relevant experience, think again. Many industry positions require the same skills you would need in any business. Even if you’re starting from scratch or it’s your first job, “don’t leave anything even slightly relevant out,” says Aliza Sherman, CEO of Ellementa, a global cannabis wellness network for women. “When building your résumé for a cannabis job, reframe your skills and abilities for the industry. If you’re skilled at social-media marketing, highlight that even if you’re applying to be a budtender or a floor manager,” says Sherman. “You could negotiate for more pay by taking on additional responsibilities or get your foot in the door for a bigger position.”

APPLY FOR THE RIGHT JOB

Do your research. Look into companies that match your personality, values and work ethic. Are you willing to move or relocate for the position? States that are already legal or have a medical program have more positions available than non-legal states, but that could mean a commute or moving to a cannabis-friendly state. “If you want to find the right fit in the cannabis industry, it helps if you are geographically located in the right place for your desired work,” says Giannotti. “The cannabis industry is definitely different than the average job market because the types of jobs available vary state to state.”

EDUCATE YOURSELF

If you’re looking for an advantage over other potential job candidates, get a leg up by attending a cannabis university. If you’re considering a budtending position, try a class like “Budtender & Patient Relations” from Oaksterdam University in California. Interested in advocacy, intellectual property or organic gardening? Oaksterdam offers classes on those topics too. Not in California or a legal state? Try an online program. THC University has seven courses that offer certification in areas such as horticulture (led by grow guru Jorge Cervantes) and safety regulations. Recent high-school graduates deciding what their college course of study should be would be wise to look into horticulture or biology if considering a career in cultivation, or biochemistry or chemical engineering for extractions. Look into business administration for a future in dispensary management.



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TIMES



Quality cannabis cultivators are always in demand.

TOP 10 CANNABIS JOBS

WHAT'S FASCINATING ABOUT THE CANNABIS INDUSTRY AND THE CURRENT JOB OPPORTUNITIES OFFERED IS THAT THERE REALLY IS SOMETHING FOR EVERYONE. EVERY SKILL SET AND EVERY EXISTING POSITION IS APPLICABLE AND TRANSFERRABLE TO WORKING IN WEED—IT'S JUST UP TO YOU TO FIND THE RIGHT FIT.

1. MASTER GROWER

There would be no cannabis industry without the cannabis, making the job of cultivator or master grower crucial. While we sometimes take purchasing weed for granted, it's taken thousands of hours to grow those beautiful buds to perfection. The role of cultivator is the most hands-on position in the industry, and whoever occupies it is responsible for everything from planting to pest management to overseeing every aspect of the grow. Cultivating cannabis can be a very rewarding job, but it's far from easy and takes a lot of heavy lifting, often under hot lights or in a greenhouse. If you're hardworking and you enjoy being in a garden and love weed, this is a great gig for you.

2. EXTRACT ARTIST

Safety, skill and expertise are all necessary traits for employees who perform cannabis extractions. Whether you're

operating heavy-duty extraction machinery or spending hours fine-tuning and operating the lab (all while abiding by your state's strict safety standards and regulations), it takes a person with a lot of knowledge (think master's degree or PhD) or with an engineering background to work with concentrated forms of cannabis. By far one of the most exciting sectors of the cannabis industry, extractions could lead to the development of new research and products.

3. EDIBLES CHEF

Edibles offer a wonderful, delicious and healthy way to consume cannabis, and chefs are in high demand. If you have a background in cooking, testing and creating recipes and enjoy pairing cannabis with a wide array of flavors, then it may be high time to apply your culinary skills to the cannabis space. Food safety, accurate dosages and high-quality ingredients are critical factors in creating

a successful product from any cannabis kitchen. One way to get your foot in the door is as a food packager—a position that's responsible for safely packaging and readying edibles for distribution.

4. WRITER

It used to be that *High Times* magazine and a handful of blogs were the only sources for cannabis news and information, but things have definitely changed since states are legalizing and adopting medical-marijuana programs. There's a high demand for journalists and writers at newspapers, magazines, websites and even on staff at a growing cannabusiness. With an ever-changing and evolving industry, writers are responsible for helping keep the public informed. From product and strain reviews to in-depth features on growroom technology to debunking the War on Drugs, writers and journalists play an important role in the cannabis industry.

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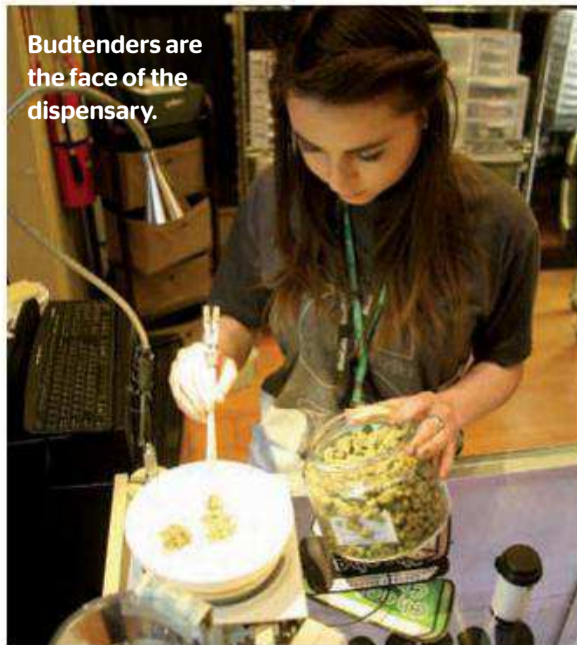
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Our first release is the result of three years of R&D with taste science and how concentrates are best consumed. Meet Big-E™, our portable quartz e-nail platform. Free of nasty glue, plastics and foul taste. Big-E™ eliminates combustion and, because we love glass and want you to be able to use your best pieces, can be used with any rig. Display your glass collection or head to your local and select a piece unique to you. This is the apex of flavor, clouds and comfort without compromise.

Big-E™ replaces the torch that has long dictated how one would use extracts with something much more versatile and less worrisome. We advocate for low-temp dabbing but give a range of temperatures (320-750 with a bonus 900) for those who wish to customize their dabbing experience. We've engineered our hardware to be functional yet polished; the versatile design travels with you- both at home and on the road, taking you from stigma to sophistication.



Budtenders are the face of the dispensary.

5. BUDTENDING

Combining a thorough knowledge of products and strains with awesome people skills, the role of budtender is a great position to pursue. Budtenders need to be comfortable recommending strains to treat different ailments and learning from the consumption preferences of their customers to make the sale. If you have retail experience, it's pretty simple to transfer your skills to the cannabis industry in this position.



Pot events are a big business that need to be staffed.

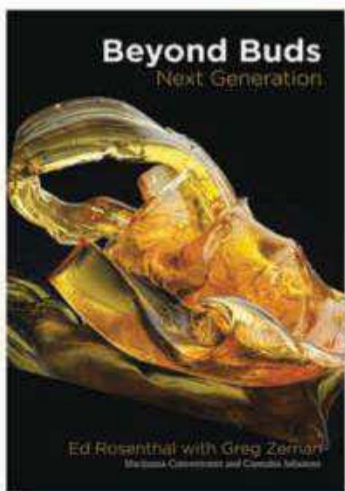
6. EVENT-PRODUCTION STAFF

From the High Times Cannabis Cup to pot-infused dinners, marijuana-related events are popping up all over the country. Becoming an event staff member is a particularly great way to gain an entry-level position and learn about the cannabis industry and the company that is hosting the soiree. Depending on your skills, you may be utilized anywhere from helping with site-plan logistics to setting up and building out the event space. Cannabis conferences and expos are common, and every new market and state will field requests for help.



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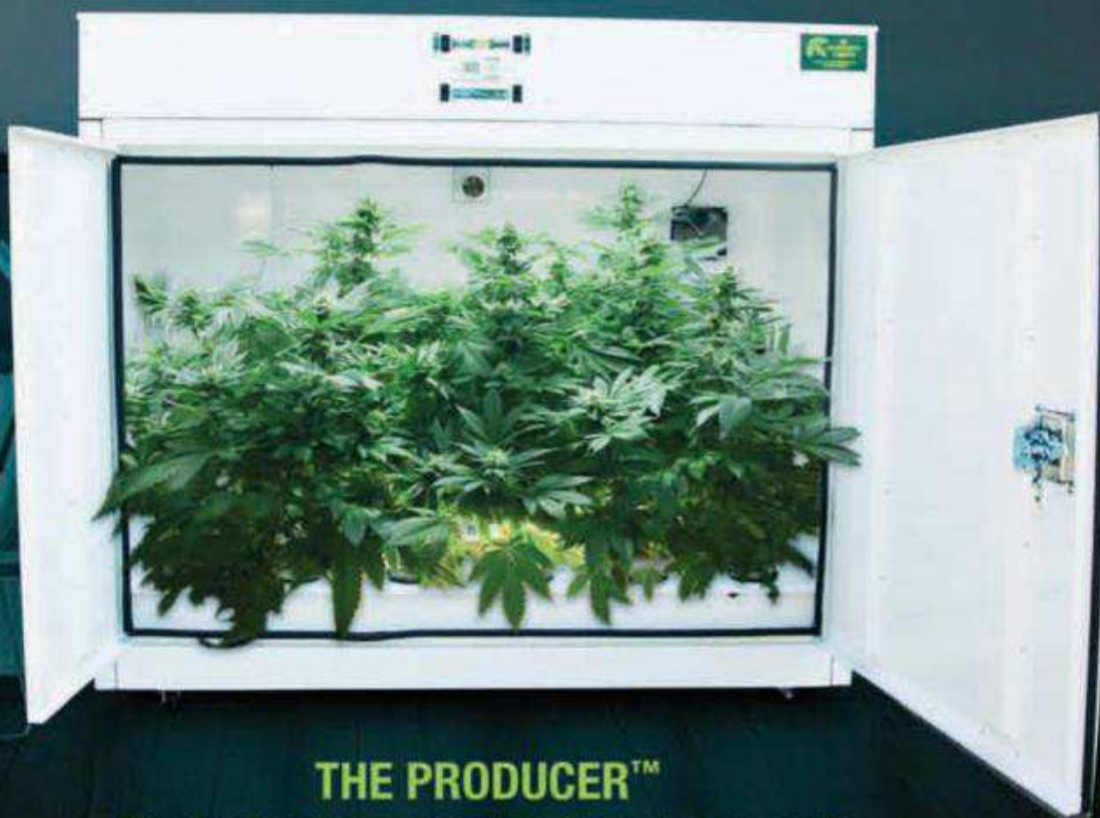
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A strong social media presence is crucial for cannabis businesses.



7. SOCIAL-MEDIA SPECIALIST

Every cannabis brand that has an online media presence needs someone on staff to help build brand awareness through social media. If you love cannabis and already spend a great amount of time on Twitter, Facebook and Instagram, then a job in social media is right for you.

Raising your company's profile with carefully curated imagery and text is a well-honed skill that you may have unknowingly been building over time. Keep an eye out for how the larger cannabis companies post to their accounts and find an up-and-coming cannabis brand that could use your help.

8. COMPLIANCE

Are you a natural problem solver? Are you extremely thorough and pay attention to every single detail? Then this vocation might be right for you. Because compliance in the cannabis industry can be tricky and rules and regulations are constantly changing, a compliance officer is one of the most relied-upon positions at every company. Along with performing inspections and oversight, compliance officers are also responsible for ensuring that all federal, state, county and municipal laws are followed. All companies within the cannabis industry rely heavily on this position, and if you're the right person for the job, you'll be in high demand and can bank on a lot of job security.

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Security is essential for operating a safe and successful pot business.



9. SECURITY

If you've been in the military or law enforcement, the cannabis industry can put someone like you to work. Every dispensary employs security at its front door, and cannabusinesses, which are forced to operate as cash-only, are big targets for thieves. Security is also employed to help with the transportation

EVERY SKILL SET AND EVERY EXISTING POSITION IS APPLICABLE AND TRANSFERRABLE TO WORKING IN WEED—IT'S JUST UP TO YOU TO FIND THE RIGHT FIT.

of product, which is highly valuable. Security officers at dispensaries are sometimes asked to register patients and approve visitors, and they're the first point of contact with customers and patients. If you're applying for this type of position, most employers will want to know you're a team player and ready to step up in any type of situation.

10. DELIVERY DRIVER

Are you friendly, outgoing and punctual? Do you have a clean and well-running car? Drivers are in high demand in both medical and legal states to help deliver much-needed medicine to patients. Dispensaries employing drivers will want someone with a car, a valid driver's license, car insurance, a medical-marijuana card and a clean driving record. The hours are usually flexible and offer good pay; some, if not most, employers will provide mileage reimbursement as well as pay a portion of your cell-phone bill. While not necessary, it is helpful to have a good understanding of cannabis and the assortment of products you'll be delivering. ✨

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PRO TIPS FOR



TRIMMING YOUR BUDS AFTER HARVEST IS AN IMPORTANT PART OF THE PROCESS THAT CAN GO A LONG WAY TO ENSURING A HEADY, FLAVORFUL CROP. WE TAKE A CLOSER LOOK AT THE TWO METHODS FOR TRIMMING—WET AND DRY—AND PROVIDE ESSENTIAL ADVICE FOR THIS ALL-IMPORTANT PROCESS. *BY KYLE COLPACK, CEO HARVEST MASTERS*

IT'S IMPORTANT TO MAKE A HARVEST PLAN. All strains develop and mature at their own pace, so one must determine the right time to harvest by evaluating the trichomes of each plant. Use a loupe or other magnification device to examine your crop. Generally speaking, you should wait until most of the trichomes are cloudy. Some will be amber and some will be clear. But if the majority of the trichomes are cloudy, you're ready to harvest. Remember that the trichomes will continue to mature even after you harvest, so it's important not to wait too long before taking your plants down. Once you've determined which plants are the ripest, it's time to make a cutting schedule. This will give you and your crew a guideline for picking. Harvesting a plant early or late can have detrimental effects on the potency and flavor of the buds.

Once the picking schedule has been created, it's time to decide how you're going to trim. This is where the great debate begins—dry trimming versus wet trimming. Do you go with the traditional method or the modern method? "Dry" and "wet" trimming simply alludes to whether there is still moisture contained within the bud when it is trimmed. Some growers are adamant about dry trimming, the traditional method, because that's what they're used to. Other cultivators are receptive to new methods.

Dry trimming is familiar to most growers. The process begins with picking branches that contain mature buds, hanging those branches with the buds attached until they're dry, then bucking the buds to the desired size and then trimming them, usually by hand. This process is effective, yet it has some drawbacks. The first major drawback is space. Where are you going to hang all the branches? The second major drawback is time—it takes longer to dry the plant when you use this method.

TRIMMING



Proper trimming
can help ensure
connoisseur quality
cannabis.



Hand-trimming is the preferred method of craft cannabis growers.

The wet-trimming method is gaining popularity due to the efficiency of the process—particularly for large, commercial grows. Gardens are a bit larger today than they were 10 years ago. Licensed producers are growing acres of plants and yielding tons of product. Like dry trimming, wet trimming begins with picking branches; however, instead of taking the branches inside to hang dry, the branches are taken directly to the bucking area, where the buds are removed from the branches (for larger grow ops, this is usually done by a crew using bucking machines). Once the buds are removed from the stem, they are ready to be trimmed. Larger grows run the buds through a wet-trim machine to remove most of the foliage (roughly 95 percent), after which they're touched up by hand trimmers. Once the trimming is complete, the buds are dried on mesh racks.

This modern method is industrial yet gentle. The plants are handled shortly after being picked, so they are essentially still alive. Moisture at this stage is beneficial to trichome preservation. Bucking machines allow for most buds to be removed from the stem without being touched by a human hand, which also preserves trichomes.

With the modern method, there is a small percentage of trichome loss when machine trimming, but there is also a percentage lost when trimming by hand. In fact, you could lose more surface glands due to an inexperienced trimmer or improper trimming than you would using a machine. There are some machines that are better suited for wet material, so it behooves the grower to ensure that their trimming machine is used properly for the trimming method employed.

THE PROS & CONS OF EACH TRIMMING METHOD

MODERN (WET) TRIM

PROS

- Trichomes are pliable and more likely to remain attached.
- Space is better utilized by removing stems and excess foliage.
- Buds dry more quickly and are ready for the market once cured.
- The technique is fast! It saves time and money for the grower compared to dry trimming.

CONS

- Requires machinery and a crew of laborers to accomplish

TRADITIONAL (DRY) TRIM

PROS

- It's less labor-intensive.
- Once the branches dry, you can return to cut at will.
- The trim can be accomplished with very little upfront cost.

CONS

- The drying time is slower.
- It requires a large amount of space to hang dry.
- Trichomes become brittle and are more likely to break off.

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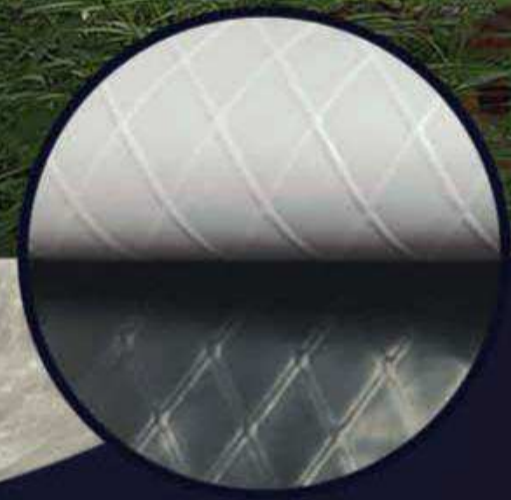
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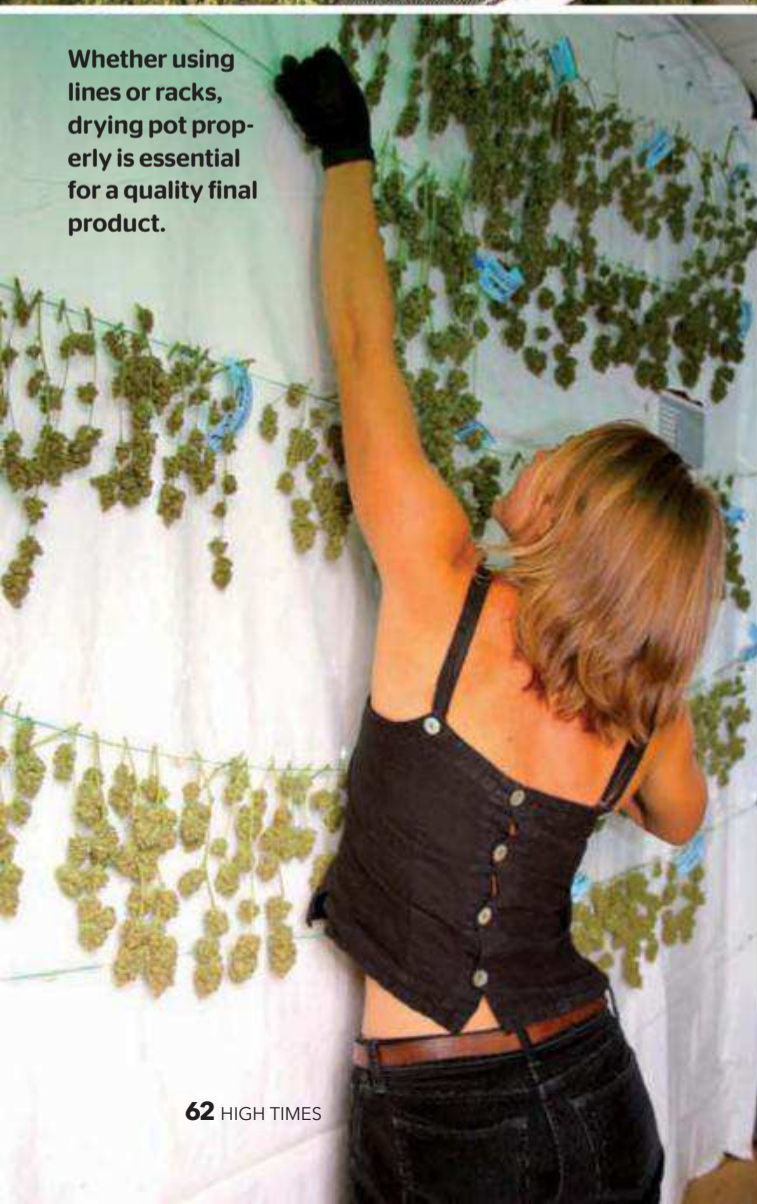
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Drying buds on racks can save space.



Whether using lines or racks, drying pot properly is essential for a quality final product.

THE DRYING STAGE IS COMPLETE WHEN THE BUDS FEEL DRY ON THE OUTSIDE AND THE STEM CAN BE SNAPPED RATHER THAN BENT... WHEN SQUEEZED, THE BUD SHOULD COMPRESS AND NOT DISINTEGRATE.

Trichomes contain THC and other cannabinoids, and therefore it is important to handle them with care. If you choose to harvest dry (hanging branches prior to trimming), you will be handling and trimming the plants when the trichomes are brittle, which leads to a greater loss of THC. This loss occurs during a dry harvest whether you are machine trimming or hand trimming. Trichomes are better preserved with a wet-trim technique.

The last major difference between wet trimming and dry trimming is the amount of space it takes to dry. Hanging branches on lines takes up a tremendous amount of space compared with hanging racks of trimmed buds. Plus, you don't have to worry about a bud coming out of the rack and falling onto the floor.

It is important to establish a designated drying area for your crop. Drying rooms are

clean, cool and dark. The rooms must be clean to avoid potential bacterial issues. The ideal temperature is between 65 and 68°F. Relative humidity should be as close to 50 percent as possible—too much humidity can lead to bacterial growth and too little will dry the buds too fast and unevenly. It is imperative that your drying area is properly set up to allow for a low-and-slow drying process. (“Low and slow” refers to the temperature and time, respectively.)

The drying stage is complete when the buds feel dry on the outside and the stem can be snapped rather than bent. At this point, the interior of the bud still contains moisture. When squeezed, the bud should compress and not disintegrate. Moisture meters can be used to precisely determine the remaining humidity levels. Once the buds are dry, it's time for curing.



FRIENDLY FARMS

The folks at Friendly Farms began their careers in the cannabis industry exactly where the name implies, the farm.

For several years Friendly Farms built relationships with the 420-friendly people of Northern California, and forged bonds with cultivators, processors, and those who simply enjoy cannabis.

As time passed the team saw an opportunity to move into cannabis extractions and selected live resin as its product of choice. In May of 2017, Friendly Farms launched its brand in a new direction and presented to the world its high-quality concentrates.

Every flavor is a hit for Friendly Farms, and its menu of extractions offers a variety of strains with something for everyone to enjoy. Friendly Farms' house strains include potent and flavorful contenders that delivers clean, tested, and effective dabs with every concentrate.

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Large commercial grows use trimming machines to save time and money.

HARVEST HELPERS

One option that growers have is hiring a trim crew to help them with their harvest. Harvest Masters is one such full-service trim crew, offering trim-machine rentals, temporary labor and consulting services.

Harvest Masters' wet-trim process is capable of gently harvesting hundreds—or thousands—of pounds in a timely manner. This process includes field trimming to remove fan leaves, which enhances ripening prior to picking; flushing to ensure a safe smoke; and picking techniques that preserve plant integrity. This is accomplished through planning and carefully utilizing labor as well as cutting-edge machinery and proper drying and curing techniques.

As you enter the critical harvesting stage of your grow, Harvest Masters can help—regardless of the trimming technique you prefer. Visit harvestmasters.com for more info.

Curing is essentially the second stage of drying, wherein the goal is to remove the remaining moisture content while preserving the trichomes and terpenes. This process allows the aromas and flavors to expand, leading to a delectable smoke. Like your drying room, the curing area should be kept cool (65-70°F). Darkness is ideal, as bright light will degrade the terpenes. However, running a dim nightlight will allow you to navigate the room without disturbing the curing process.

The drying and curing processes are notably faster when wet trimming because the stems and leaves have already been removed from the buds. The absence of excess vegetation results in an overall reduction in humidity and shorter drying and curing periods. Once the buds have cured, they are ready for packaging and distribution. Remember, if you were using the traditional dry method, you would be removing the branches at this point

to start trimming. This is where the extra handling really makes an impact, because now the trichomes are dry and brittle. There is very little that you can do to avoid detaching trichomes from the buds once they're dry.

Grow guru Ed Rosenthal endorses wet trimming in his *Marijuana Harvest* book, stating, "The space and time savings of trimming wet with machines adds up quickly." Hand trimming may be feasible for craft growers but not for industrial producers. Rosenthal adds: "Machine trimming makes sense for all growers [and] can be used for all grades of flowers, including top-shelf."

Dry trimming is called the traditional method because it is inevitably becoming a thing of the past. There is no denying that trimming wet is quicker, more efficient and cheaper for the grower. Additionally, growers benefit from being first to the market, giving them an edge over their competition. ✨

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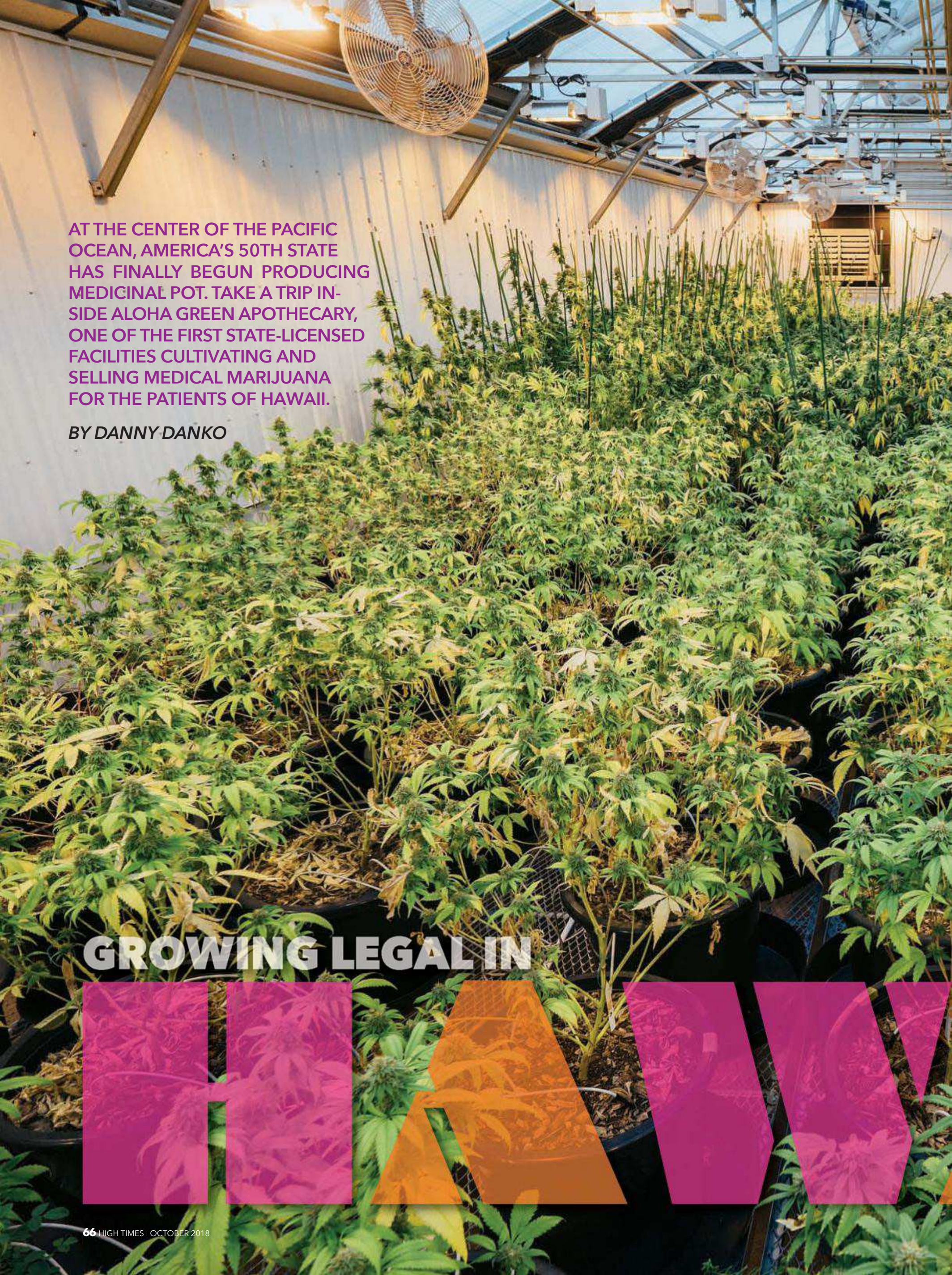


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BY DANNY DANKO

GROWING LEGAL IN

HAWAII



A view of the organic soil mix trials in one of Aloha's greenhouse rooms





Hurkle develops under the Hawaiian sun in Aloha's greenhouse.

POT IN PARADISE

Nobody knows when marijuana first appeared in Hawaii, but the remote islands have been inextricably linked to the legend of the *pakalolo*, or numbing leaf, for centuries. The combination of rich volcanic soil, plentiful sunshine, tropical breezes and abundant rainfall proved irresistible to resourceful locals looking to produce their own tropical cannabis. Guerrilla weed growers thrived in their camouflaged hilltop plots, growing cannabis crops year-round for the insatiable appetites of the laid-back island populace.

Over time, strains brought to the islands from across the oceans adapted and acclimated to Hawaii's unique environment and were passed down from generation to generation. These

exotic varieties, such as Kona Gold, Puna Budder and, of course, the legendary Maui Wowie, inspired generations of surfers and hippies looking for the signature "electric" buzz. Old-timers still rave about the uplifting aspects of these *sativa*-dominant strains, eagerly reminiscing about their mildly hallucinogenic high with no "ceiling"—a toker could keep puffing and puffing and yet still reach new heights of blissful euphoria.

Recent research has found that these varieties are especially rich in THCV, dubbed the "sports car of cannabinoids" by Steep Hill Labs, due to the quick onset and relatively short duration of psychoactive effects. Strains with higher levels of THC come on quite strong and can induce panic and anxiety in some users

if they aren't careful. Some patients also report that THCV works as an appetite suppressant, which, if true, imparts this compound with tremendous potential from a pharmaceutical perspective.

HAWAIIAN PUNCH

Hawaii's marijuana history, however, took a turn for the worse in the 1980s with Operation Green Harvest, a decades-long campaign that saw federal, state and local law-enforcement agencies using assault helicopters, masked officers with AK-47s and more in an attempt to eradicate domestic cannabis cultivation and lock up farmers. This aggressive effort devastated the islands' cultivation community as well as pot consumers, and many say the misguided fiasco helped lead to an epidemic of hard-drug



A grower performs one of many daily plant maintenance tasks.

use and a methamphetamine crisis that continues to this day. The dark days for Hawaiian dankness would continue for years until the voters finally decided to make a change.

Although Hawaii legalized medical marijuana for qualified patients and caregivers in 2000, it wasn't until almost 20 years later, in 2016, that the state finalized the rules governing its dispensary program. These new regulations require eight state-licensed dispensaries to grow, manufacture and sell their own products to eligible patients with a valid state registration card. The one I'm visiting, Aloha Green Apothecary, opened in 2016 with a traditional Hawaiian blessing ceremony in downtown Honolulu on the beautiful island of Oahu. Everything it sells must be lab-tested for

cannabinoid profile, pesticides, mycotoxins, heavy metals, moisture content, microbial impurities and solvents (when applicable).

The strict guidelines also require an FBI background check for all employees or visitors, which means that for the first time in my cannabis-cultivation reporting career, I have to apply for permission from the government to visit a legal grow. As Aloha's director, Helen Cho, assists me through the process, I joke about how the times have changed: When I first started covering clandestine indoor pot farms for *High Times* almost 20 years ago, I sometimes had to ride in the trunk of a car or wear a blindfold. Now I was politely asking the feds to allow me to pay a visit to a licensed facility!

ALOHA GROWS GREEN

Aloha produces its flowers and extracts on the island of Oahu on land that was formerly part of the massive Dole Plantation. I drove out to meet this dedicated team of locals to find out more about their commitment to creating quality medicine using locally sourced materials. Upon approach, the tropical landscape gave way to a well-protected seven-acre plot surrounded by ample security fencing and cameras. The rich, dark-red volcanic soil and bright sunshine reveal this as a place where agriculture has thrived for ages and will continue to do so.

My tour begins with Aloha's senior grower, Daniel Richardson, excitedly explaining his philosophy for growing artisanal cannabis for the community of patients in Hawaii. The goal is to tread lightly, making use of as much local material as possible while taking advantage of the natural environment by using greenhouses to grow some of Aloha's flowers. By reusing whatever they can, the Aloha team strives to treat the community and their patients with the respect they deserve.

In fact, Aloha is the first state licensee to use several greenhouses to grow its flowers, which has cut the cost of production by a third—all the more important as Hawaii has the most expensive electricity in the United States. The company also has plans to convert to solar for much of its power usage in the future as well. Aloha's growers are even experimenting with cover crops such as clover to provide nitrogen while also acting as a mulch to conserve water potentially lost to evaporation. Wood chips on top of the growing medium acts as insulation from water loss as well.

MOMS AND CLONES

Mother plants at Aloha are nurtured under fluorescent and HID (high-intensity discharge) lighting and hand-fed with a nutrient solution to keep them thriving. Mother-plant vegging rooms are climate-controlled with fans, ensuring that air is circulating and not stagnant. The moms are grown in large containers so that their roots can find plenty of space and expand. This ensures that the plant up top stays healthy and continues to create new growing shoots from which to take and root clones.

Clones root in plugs in meticulously labeled plastic trays with clear lids under fluorescent lighting tubes to maintain heat and humidity for ultimate rooting success. They're cut from healthy mother



Chocolope growing in one of Aloha's four indoor grow rooms.

plants, dipped into rooting-hormone gel and then gently secured into their individual rooting cubes. The larger fan leaves are then trimmed down to alleviate the pressure on the cutting to maintain life. Once they're showing healthy white roots from the bottom of their plugs, they're ready to plant into larger pots filled with premixed growing medium and move into the vegetative stage of growth. Lower branches and leaf growth are removed to increase airflow beneath the canopy to avoid possible humidity buildup.

LIGHT, SOIL AND WATER

In all, there are four indoor flowering rooms and four greenhouse sections at Aloha for a total of eight separate growing chambers. The indoor plants are grown under Gavita double-ended HPS (high pressure sodium) 1,000-watt lights on a staggered flowering schedule and harvested every two weeks. Plants in the greenhouses are supplemented with lighting as well when sunlight isn't sufficient.

For the growing medium, the team at Aloha make their own "supersoil" mix. It's a combination of rich local soil plus

compost from a nearby school. Aloha's organic mix begins with a unique, volcanic soil variety. It is one of almost 300 on the island due to Hawaii's many natural micro-climates. Volcanic pumice is added instead of perlite to loosen up the soil. This airy loam is then amended with local Hawaiian chicken manure, worm castings, fish waste and seaweed. The company has even been experimenting with macadamia-nut shell biochar.

Aloha's goal is to use no added nutrients, and it utilizes drip emitters to provide mostly plain water directly to the root zone. Local mulch from the wood of the monkeypod tree keeps the soil surface cool and reduces water waste from evaporation. Ideally, Aloha will reuse its soil over and over in a closed-loop system that improves the growing medium with each growing cycle. Each plant is tagged from seed to harvest with its strain name and germination date, and wooden stakes are used to hold up branches that become weighed down with heavy flowers.

The water itself comes from a 1,000-foot-deep well tapped on the

premises. The water is filtered naturally through lava rock and comes out with very low levels of any minerals or contaminants. Multiple drippers in each growing container also provide redundancy in case of a clogged tube or emitter. Wet walls and swamp coolers reduce heat in the greenhouses on really hot days and desiccant-based dehumidifiers remove moisture in the air when necessary. Plants sit on trays that allow airflow underneath the canopy to reduce the probability of mold or mildew collecting in moist air pockets. Excess water and nutrient solution easily drain out of the bottom of the containers to prevent the pots from sitting in stagnant liquid.

INSECT CONTROLS

Chief operating officer Tai Cheng and director of integrated strategy Helen Cho explain the strict governmental regulations to me, which include requirements to grow all plants indoors, lab-testing all of the products and using only state-approved pesticides on the crops. In fact, as Cheng tells me, "We can't have testing show more than 1 ppm [part per million]

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The post-harvest team bucks freshly harvested cannabis for wet trimming before moving into the drying and curing rooms.



in the finished product of any banned pesticides, which is essentially the same as none. We're also not allowed to use beneficial bugs because they are not available in abundance on the island. Strict [agricultural] controls don't allow for them to be delivered. So we have the strict pesticide regime of Oregon without the help of beneficials."

Aloha growers use beans as indicator, or trap, plants, and rosemary and other deterrent plants to repel insects as well. Workers and visitors alike wear full-body protective suits including booties and hoods in most areas to avoid any potential contamination, and yellow sticky pest strips are everywhere in order to get an early warning as to any potential pest invasions. A strict integrated pest-management system ensures that the flowers and concentrates produced here are clean and pass their tests with flying colors.

FADED FLUSH

As the plants at Aloha approach maturity, they're aggressively flushed with plain pH-balanced water. Senior grower Richardson emphasizes the importance of a proper flush in order to produce flowers that can be considered proper medicine for patients. He insists that whether Aloha's end product is used for flowers, concentrates, edibles or tinctures, it's clean and free of excess chlorophyll and nutrient-salt buildup.

As I walk around the growing chamber next to be harvested, I can see the fall colors of the fan leaves on display. These fading hues are a sure sign of a successful flush, and the end result will be buds that burn cleanly to a wispy white ash—perfect for connoisseurs and patients alike. The properly flushed plants are now in the final stretch, during which their trichome gland heads will swell with essential oils in preparation for harvest.

HAWAIIAN HARVEST

When the time to take down a roomful of vegetation has been determined, the plants are pre-trimmed while still alive. Large fan leaves are removed by hand from each plant in preparation for the drying process. Then branches are individually hung to dry in rooms environmentally controlled by Argus climate systems. Sensors maintain specific temperature and humidity while UV light kills off any potential pests or mold spores, and Airocide filters purify the air.

The indoor harvests are all hand-trimmed dry prior to curing, while the yield from the greenhouses is machine-trimmed using industrial Twister units and then dried on individual racks. Trim and leaf leftovers are set aside for ethanol extraction to make RSO (Rick Simpson Oil) for oral ingestion. The company also produces oil, shatter, rosin wax, balms and tinctures, so there's something for every patient on the shelves of Aloha Green Apothecary. 🌿



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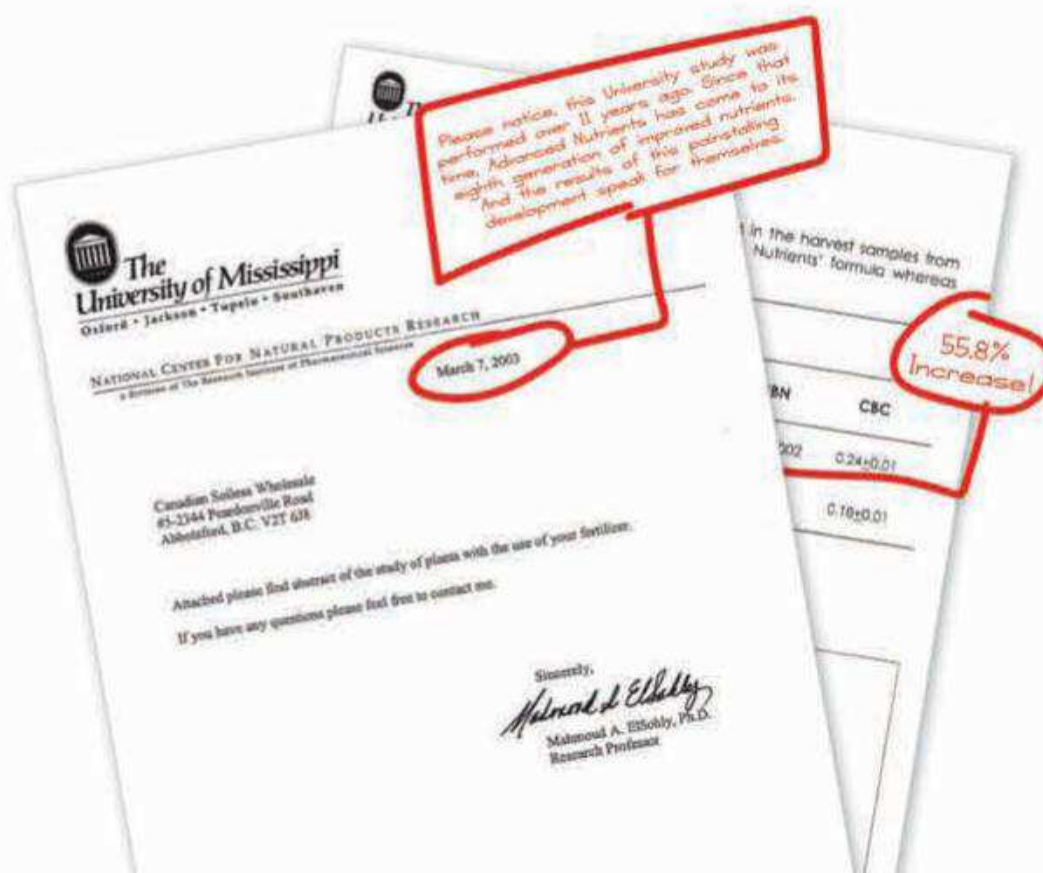
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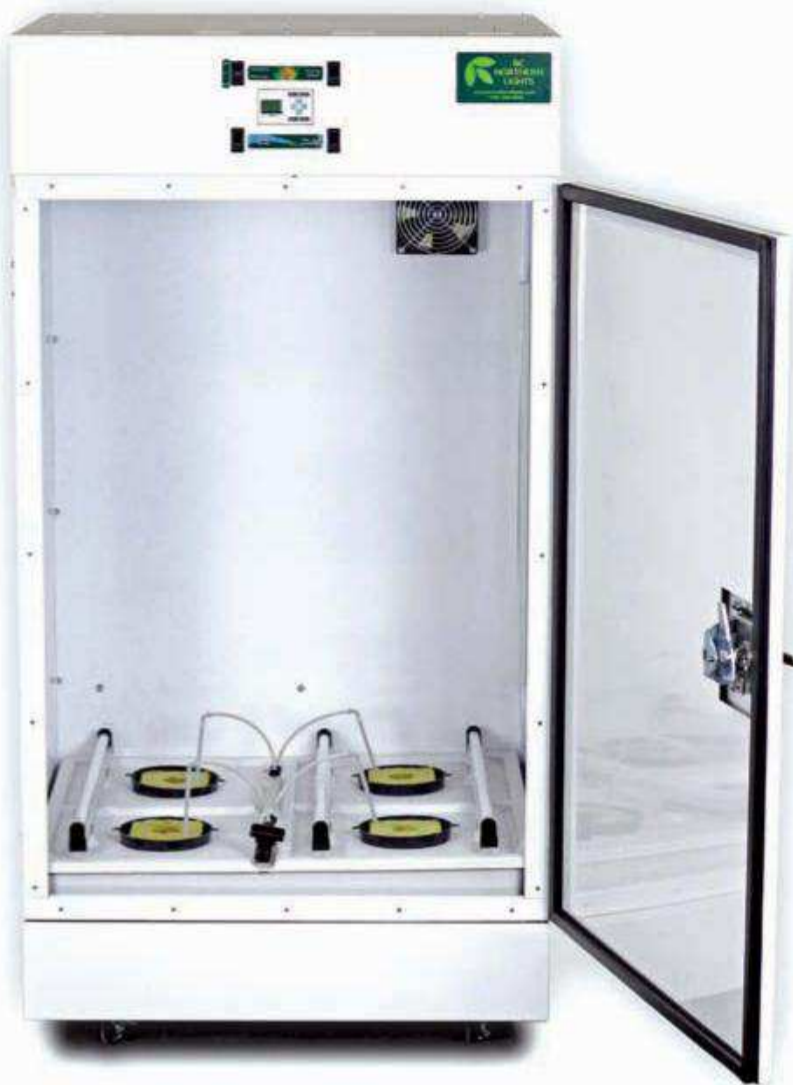
2018 STASH AWARDS

OUR ANNUAL ROUNDUP OF THE BEST GROW GEAR OF THE YEAR STARTED IN 1998 AND WAS DUBBED THE STASH AWARDS (FOR SIGNIFICANT TECHNOLOGICAL ACHIEVEMENTS IN SECRETIVE HORTICULTURE). BEHOLD OUR INFORMED CHOICES FOR THE FINEST CULTIVATION EQUIPMENT OF 2018. *BY DANNY DANKO*



The Under Current hydroponic growing system from Current Culture H2O maximizes productivity for hobbyists and commercial growers alike (more on page 86).

ERIK BIKSA



BEST GROW BOX

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bcnorthernlights.com

For almost 20 years, BC Northern Lights has created and innovated the highest-quality grow boxes on earth. The state-of-the-art units the company produces are still the only CSA/UL safety-approved boxes available, and the BCNL customer-service team provides round-the-clock support. Aspiring growers interested in growing a few plants for personal use will love the Roommate—a compact, lockable, odor-free and automated box on casters that’s discreetly shipped and ready to plug and play in soil or hydroponic applications.

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ultratrimmer.com

The biggest knock on industrial trimmers has always been that they destroy the gland heads containing the essential oils we’re after. The units from Ultra Trimmer simulate scissors and avoid manhandling precious flowers while preserving the trichomes. The company’s even been giving live demonstrations with microscopes at our Cannabis Cups for over five years to show how gently the machines work. It’s no secret why Ultra Trimmers are the first products to be federally patented specifically for trimming cannabis.



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questhydro.com

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highdrogro.com

If you seek an affordable grow tent that's easy to assemble and take down, look no further than the Stash Box. This sturdy tent is built with three windows, heavy-duty lightproof zippers, a ducting port for venting and air-purification equipment, and a removable inner flood-prevention insert tray. It's shipped in a compact and discreet box with everything you need to get growing including T5 fluorescent lights to keep heat at a minimum, carbon filters, humidity and temperature monitors, and quiet but efficient fans.



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\$26.89, 30 lbs.

dealzer.com

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BEST WETTING AGENT

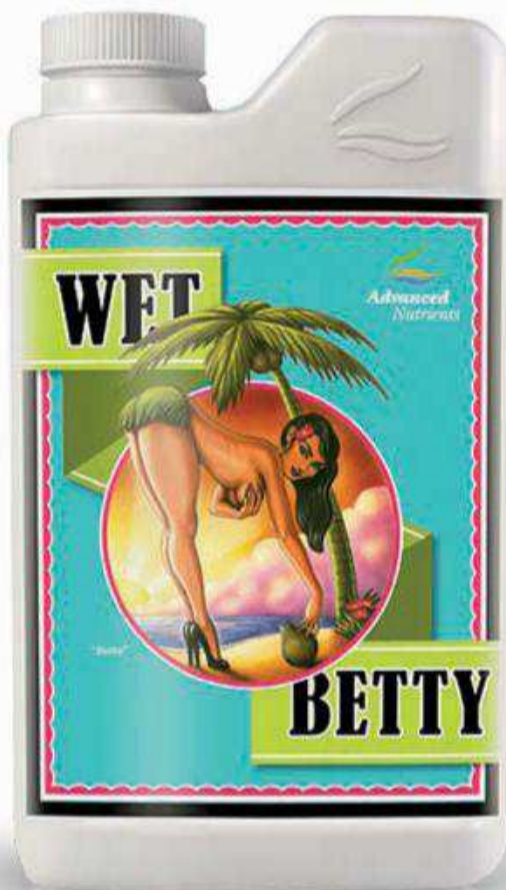
WET BETTY

from Advanced Nutrients

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advancednutrients.com

The plant scientists at Advanced Nutrients understand that when plant-food solution sits on top of hard soil, roots can't properly absorb the vital liquid and food. Wet Betty, a non-ionic surfactant, lessens surface tension while softening and enhancing water droplets for better uptake, leading to stronger growth and bigger harvests. Great as a soil drench or foliar feed, Wet Betty helps your nutes permeate more efficiently and effectively to maximize yields.



BEST FLAVOR ENHANCER

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Proper feeding during the middle to late stages of flowering can make or break a harvest due to the specific nutritional requirements of blooming cannabis plants. Suite Leaf Finish is a vegan formulation designed to naturally enhance essential-oil production during this all-important phase of growth. Perfect for soil or hydroponics, this nutritional supplement greatly improves the flavor and scent of your flowers and will increase the terpene profile significantly. Grow loud and finish strong!



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Solis Tek has been at the forefront of indoor grow-lighting equipment research and technology for over a decade. Its complete line of products includes the best digital HID (high-intensity discharge) lighting systems including HPS (high-pressure sodium) and MH (metal halide) fixtures as well as cutting-edge efficient CMH (ceramic metal halide) units with both single and double-ended lamps. Solis Tek's controllers, remote ballasts and reflectors make safely growing cannabis with multiple lighting systems heat-free and simple.

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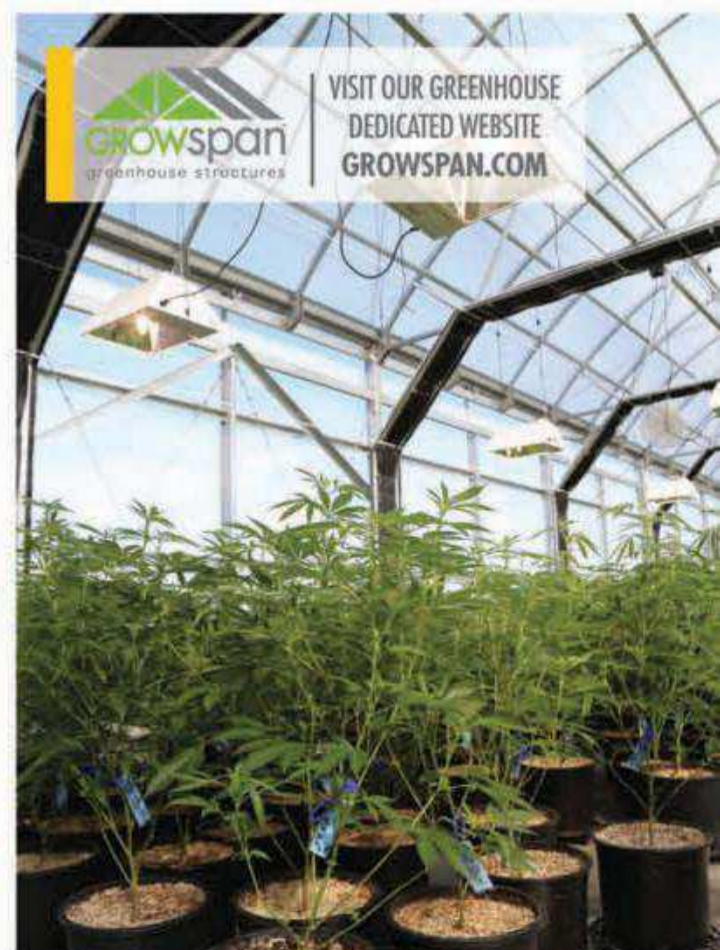
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Prices vary

xtreme-gardening.com

Organic growers have learned the benefits of colonizing their living soil medium with a beneficial fungal network. These microbes work in conjunction with plant roots to break down nutrients and also act as an inoculant to protect the plant from pests, pathogens and disease. OMRI-certified Mykos contains a single species found to help store plant food and water while enhancing root uptake and increasing yields substantially. Available as a granular spread or a wettable powder, this miracle product works wonders. 🌱



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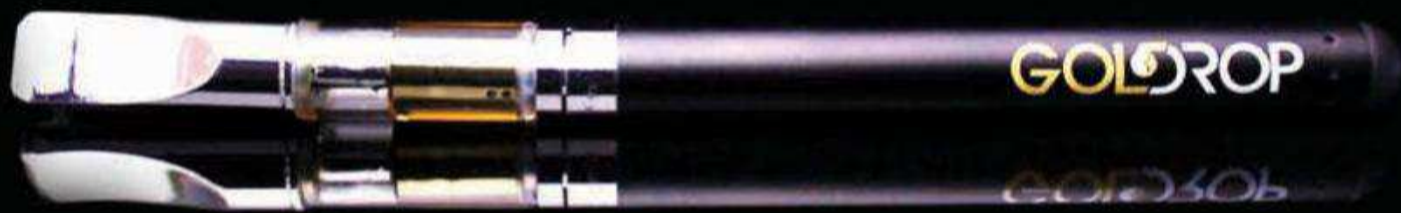
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HIGH TIMES

2018 CANNABIS ELECTION GUIDE

WITH MEDICAL MARIJUANA INITIATIVES IN OKLAHOMA, MISSOURI AND UTAH, AS WELL AS AN ADULT-USE MEASURE ON THE BALLOT IN MICHIGAN, VOTERS IN 2018 CAN KEEP THE MARIJUANA MOMENTUM MOVING FORWARD. FIND OUT MORE ABOUT THE PERTINENT POT INITIATIVES—AND WHAT STANDS IN THEIR WAY—IN OUR HANDY 2018 VOTER'S GUIDE. *BY RUSS BELVILLE*

IN 2016, WATERSHED elections doubled the number of legalized marijuana states and brought medical marijuana to three more. Since then, increasing majorities support legalization, with West Virginia passing a medical-cannabis law and Vermont and Canada having legalized recreational marijuana.

Despite rising national support, efforts at marijuana-law reform have been stalled at the federal level (see sidebar). That leaves it, as usual, up to the states to be the “laboratories of democracy” by passing their own reforms. Here are the statewide votes to be watching for this election night.

OKLAHOMA MEDICAL MARIJUANA

This election year, we've already added the 30th medical-marijuana state. Voters in the June 26 Oklahoma primary gave a resounding “yes” to State Question 788, despite a last-minute barrage of nearly a half-million dollars in scaremongering ads from the opposition.

Under Oklahoma's initiative, there is no list of qualifying conditions for a medical-marijuana card. Like California, the responsibility of recommending cannabis is up to a doctor's determination. Patients can possess up to three ounces of flower and eight more ounces at home. Home growing of up to six mature and six immature plants is allowed. A system of commercial production, processing, testing and retail will exist, taxed at 7 percent (in addition to the state's sales tax). Patients are protected from discrimination in employment, housing, education and parental rights. The initiative even set punishment of possession of 1.5 ounces without a card to a misdemeanor fine of \$400, if one can

demonstrate a medical need.

The only downside to Oklahoma's new law is that it is statutory, not a constitutional amendment. As such, it is subject to alteration by the State Legislature. Most Oklahoma politicians are not fond of marijuana, so you can bet there will be some changes made to the program in the next legislative session.

MICHIGAN LEGALIZATION

The big prize up for grabs this year is Michigan. After polls close at 8 p.m. on November 6, the 10th-largest state by population is poised to become the 10th state to legalize marijuana for all adults 21 and older.

MI Legalize, the grassroots group in the Wolverine State, was thwarted in its effort to put legalization on the 2016 ballot. This time around, the group teamed up with the Marijuana Policy Project and gathered far more signatures than necessary.

The initiative, known officially as the Michigan Regulation and Taxation of Marihuana Act, grants more marijuana liberty than most legal states. Adults 21 and older would be permitted to possess 2.5 ounces of flower or 15 grams of concentrate. Home growing of up to 12 cannabis plants would be allowed. One would be able to possess all the flower produced by those plants, plus an additional 10 ounces of flower at home.

But no initiative is perfect. Michigan's would still allow landlords and leaseholders to ban growing and smoking marijuana. Employers would still be able to discriminate against legal cannabis consumers. Municipalities would be able to ban or limit any marijuana establishments.

If passed, the initiative would establish a regulated system of commercial cannabis that includes the welcome addition of microbusiness licensing. You could be your own marijuana dealer, legally growing up to 150 cannabis plants, processing and packaging the harvest, and selling it directly to consumers. The larger commercial operators would be licensed as separate growers, processors, testers, distributors and retailers.

Marijuana in Michigan would come with a 10 percent excise tax on top of the state's 6 percent sales tax. Revenue from the marijuana taxes is estimated to be \$63 million annually. That money would be divided among the school-aid fund (35 percent), road and bridge repair (35 percent), and the cities and counties with operating marijuana businesses (30 percent).

MISSOURI MEDICAL MARIJUANA

(New Approach)

There was much lamentation in 2016 when Missouri's marijuana activists fell short by just 23 signatures to get a medical-marijuana proposal on the ballot. This time around, Missourians may have three choices on the ballot for legalizing medical marijuana.

New Approach Missouri is the group that was behind the 2016 effort. As of press time, it had submitted over 370,000 signatures of the 160,199 required to make the ballot. Barring an incredible turn of events, having more than twice the signatures needed usually guarantees a spot on the ballot.

The group's initiative, the Missouri Medical Marijuana and Veteran Healthcare Services Initiative, is backed by Drug Policy Action, the campaign arm of



the Drug Policy Alliance, and has raised almost a million dollars. It is a constitutional amendment that would legalize medical marijuana by establishing a list of qualifying conditions. Also, in reaction to the opioid-overdose crisis, the initiative allows for medical marijuana as an opioid replacement.

New Approach's initiative would buck the recent trend of no-smoking, no-home-grow medical-marijuana laws by allowing patients and their caregivers to cultivate up to six mature cannabis plants and specifically allowing marijuana smoking. Patients and their caregivers would be able to possess up to a 60-day supply of medicine or a 90-day supply if they grow their own, so long as it stays at the grow site.

Under the New Approach initiative, patient and caregiver cards would cost only \$25, and patient cards from other medical-marijuana states would be honored. Possessing a patient card would not disqualify the patient from receiving organ transplants.

A commercial system for medical-marijuana production and sales would also be established, with patients limited to purchasing up to four ounces in a 30-day period. Medicine at these dispensaries would be taxed at 4 percent (plus state and local sales taxes), with the proceeds benefiting a newly created Veterans Health and Care Fund. The New

Approach initiative would even open the door for potential public consumption spaces for patients.

MISSOURI MEDICAL MARIJUANA

(Find the Cures)

New Approach Missouri faces the prospect of potentially winning enough votes to pass but being blocked from taking effect. There is another constitutional amendment likely to be on the ballot proposed by a group called Find the Cures, which has submitted over 300,000 signatures. Whichever constitutional amendment has the greater number of votes would become law.

Find the Cures' initiative is officially called the Missouri Medical Marijuana and Biomedical Research and Drug Development Institute Initiative. It is backed by one man, Brad Bradshaw, an attorney and physician who has sunk almost \$1.5 million into the campaign.

Bradshaw's initiative also has a qualifying-conditions list, but it lacks the opioid-replacement condition that New Approach offers. Smoking cannabis flower would be expressly allowed by Find the Cures, but unlike New Approach, no home grow by patients and their caregivers would be allowed.

Getting a \$100 patient card under Find the Cures' proposal would also be more difficult than under New Approach's. If Bradshaw's proposal

becomes law, physicians would only be able to write one medical-cannabis recommendation for every three drug prescriptions they write. Doctors would also be limited to earning only 25 percent of their income from recommending cannabis, which would hamper the establishment of specialty medical-marijuana clinics.

The newly created Biomedical Research and Drug Development Institute would control all aspects of the commercial medical-marijuana system. Marijuana would be sold with a \$9.25-per-ounce flower excise tax, a \$2.75-per-ounce trim excise tax, plus a 15 percent point-of-sale tax, with all the proceeds going to the institute.

Find the Cures' commercial aspects dictate fewer licenses, higher fees, smaller canopy limits, no outdoor cultivation and triple the residency requirement length for licensure (three years) compared with New Approach's, as well as a smaller purchase limit for patients (three ounces every 30 days) and no public consumption spaces.

MISSOURI MEDICAL MARIJUANA

(Missourians for Patient Care)

Further complicating the vote in Missouri is the existence of a third initiative from a group called Missourians for Patient Care. This initiative is a statutory measure, not a constitutional

REEFER REFORM ROADBLOCK

Getting marijuana reform done at the federal level means passing laws through Congress. Despite supermajority support for reform, bipartisan measures to change federal marijuana laws are often stymied by just one member of Congress. Most often, that reefer-mad roadblock is Congressman Pete Sessions (R-TX) in the US House of Representatives.

Representative Sessions is not related to our diminutive attorney general, Jeff Sessions, except in their shared reefer madness. Like Jeff, Pete believes that marijuana is a gateway drug to heroin and that the "Just Say No" tactics of the 1980s actually worked.

Sessions represents Texas's 32nd Congressional District

(the northeastern Dallas suburbs) and is chair of the House Rules Committee. This committee doesn't cover any specific area of policy; it oversees directing bills to the House floor that are reported out of other committees. If Sessions doesn't like the measure, it goes nowhere.

In this Congress, Representative Sessions's committee has single-handedly blocked all voting on marijuana amendments, including:

- allowing the Department of Veterans Affairs to study the benefits of medical cannabis;
- allowing VA doctors to recommend medical cannabis;
- protecting VA benefits for medical-marijuana patients;
- shielding VA employees

from being fired for medical marijuana;

- protecting the water rights of state-legal cannabis cultivators;
- legalizing industrial hemp;
- banking protections for hemp-research programs;
- banking protections for state-legal marijuana businesses;
- fixing the IRS 280E tax issue that penalizes legal marijuana businesses;
- allowing Washington, DC, to establish regulated marijuana sales;
- shielding legal-marijuana states from federal prosecution; and
- a resolution apologizing for the War on Drugs to communities of color.

Many of these measures have broad bipartisan support

and might pass if given a full vote on the House floor. But Representative Pete Sessions has bottled up every attempt at reform for the past two years.

To make matters worse, ousting Pete Sessions from his office in the general election might not be enough to break the logjam. The House Rules Committee is effectively an arm of the House leadership. If the next House speaker doesn't want marijuana to be voted on, he or she can just direct the next Rules chair to do just as Pete Sessions has done. And even if the next chair brings up these amendments, a party-line vote can stop any progress in its tracks.

That is, if the next Congress remains in Republican control...



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amendment. The only way it can become law is if it gets a majority vote and both New Approach's and Find the Cures' proposals fail to garner 50 percent of the vote.

Patient Care's initiative is like New Approach's in allowing marijuana smoking, marijuana as an opioid replacement and possession of a 60-day supply of medicine. However, Patient Care is like Find the Cures' in prohibiting home grows and offering fewer commercial licenses.

Patient Care does provide the lowest tax rate for commercial marijuana, at just 2 percent, and the lowest fees for commercial licenses. Licensing would be handled by the Division of Alcohol and Tobacco Control, and growers and dispensers would be vertically integrated, required to grow 70 percent of all product sold.

Missouri's polls close at 7 p.m. Central time, so around the same time we learn if Michigan is the 10th legal-marijuana state, we'll learn if—and how—Missouri becomes the 31st medical-marijuana state.

UTAH MEDICAL MARIJUANA

It will be two hours later, at 8 p.m. Mountain time, when the polls in Utah close. Voters there will decide on a statutory initiative called the Utah Medical Cannabis Act.

Utah's medical-marijuana law would ban home grows until 2021. After that, a patient living more than 100 miles from

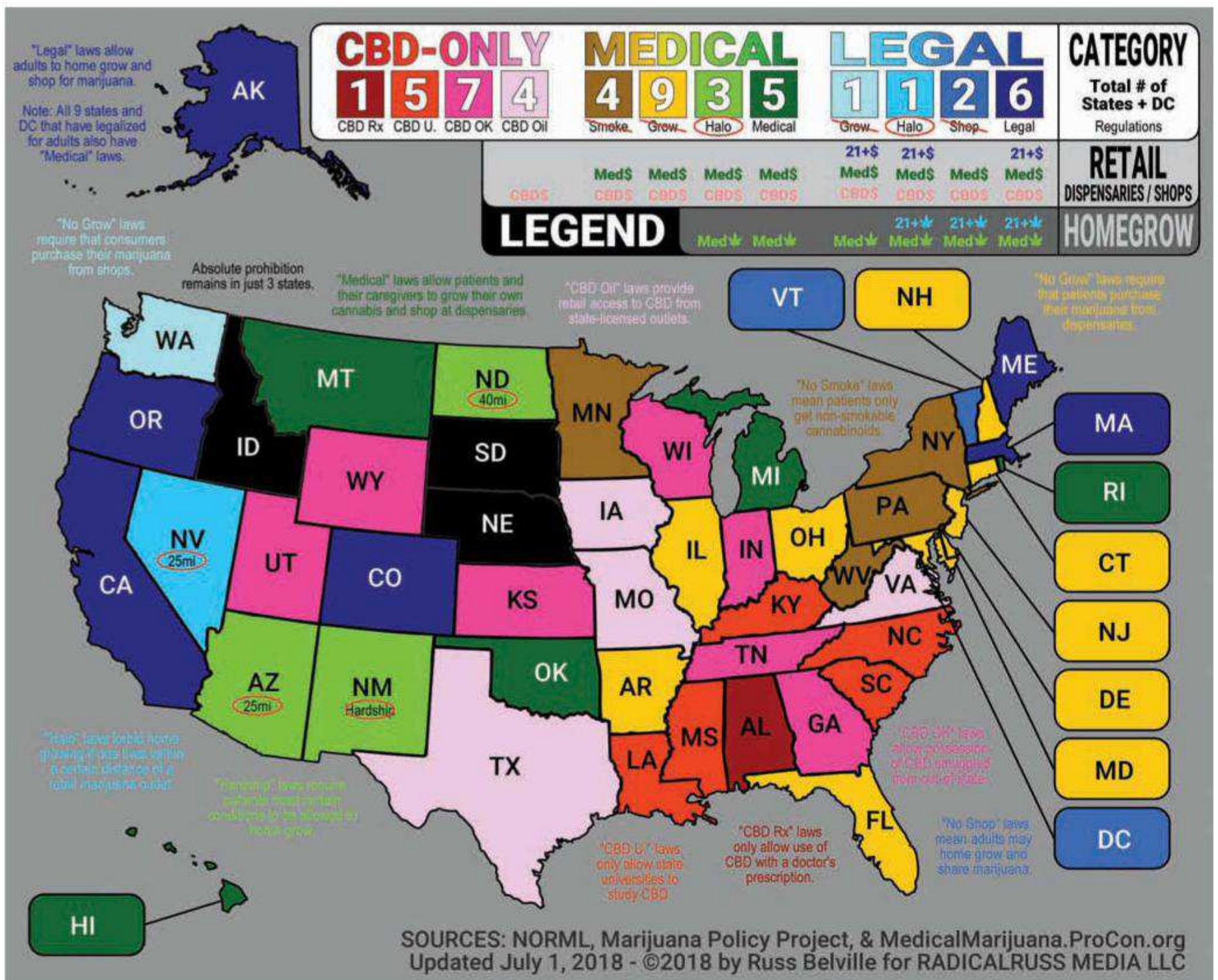
a dispensary would be able grow six plants. The number of dispensaries would be limited to just one per 150,000 county residents. Purchases from those dispensaries would be limited to two ounces of flower or 10 grams of THC within cannabis products every 14 days.

There would be a list of qualifying conditions like most states, but with the addition of opioid replacement. Most physicians would only be able to write recommendations for one out of five of their patients. And despite allowing possession of cannabis flower, patients would be forbidden from smoking it.

But Utah's initiative does protect patients by forbidding local bans of marijuana licensees and discrimination in organ transplants and housing.

SMOKE THE VOTE!

It will be exciting for cannabis consumers to vote in Michigan, Missouri and Utah this year. But no matter where you live, the elections matter. Candidates for the city councils and governorships will have an impact on the future of marijuana reform. Political control of Congress could determine whether federal reform proceeds or continues to be roadblocked. *Norml.org* and *mpp.org* are great resources to learn about the issues and candidates that will impact marijuana policy for years to come. Do your homework and make sure you register. Then come out to vote on November 6! ✨



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How Select became the best-selling cannabis brand on the West Coast

Photography: Tyler Lyon

In 2015, from our home base in Portland, Oregon, Select Oil launched with our flagship product – a sturdy and reliable vaporizer pen made with an organic cotton wick, and filled with clean, flavorful cannabis oil. We got our start by identifying and solving a problem – our founder wanted to help a friend with chronic health issues enjoy the benefits of cannabis, without burning his throat with harsh smoke.

Today we've expanded from Oregon, to California and Nevada. We're laser focused on our mission to provide customers with the cleanest, most flavorful cannabis oil, using the safest delivery methods available.

Because of that, Select is now the best-selling cannabis brand on the West Coast. Here is what you should know about the Select brand:

We make oil – We pride ourselves on producing solvent-free and pesticide-free cannabis oil with the highest quality possible. Our attention to detail ensures a consistently pure and potent product.

We're known for our Select Elite vaporizer line and exceptional cartridge and battery technology – Select cartridges utilizes the most innovative hardware available for vaporizing cannabis and hemp oils. Our organic cotton wick is unbleached, allowing the fiber structure to cleanly wick viscous oil. The ceramic core technology means longer, smoother, stronger puffs that won't scorch the oil or the wick. Our pressure-fit, tamper-proof mouthpiece helps protect pets and children, while creating a tight seal for the oil in the cartridge to prevent leaking or malfunction.

We're here because we truly believe in what we do. We are dedicated to destigmatizing cannabis consumption, while at the same time educating customers about the plant and its many benefits. We maintain a desire to shift perspectives on cannabis, and tirelessly commit our efforts to normalize the image that's associated with cannabis use, by making products that are easy-to-use, discreet, safe and innovative. Find us in California, Oregon & Nevada dispensaries, or online at SelectOil.com.

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With his hard-partying days now behind him, Charlie Sheen is embracing pot.



CHARLIE SHEEN

THE HIGH TIMES INTERVIEW

BY MARY JANE GIBSON
PHOTOS BY LAUREN HURT

ONE OF THE MOST RECOGNIZABLE PEOPLE ON THE PLANET, CHARLIE SHEEN IS FAMOUS AND INFAMOUS, PERHAPS IN EQUAL MEASURE. THE WORLD HAS HAD ITS EYES ON SHEEN SINCE HE BURST ONTO THE HOLLYWOOD SCENE IN THE 1980S AS A SEXY BAD BOY IN *FERRIS BUELLER'S DAY OFF*. HE FOLLOWED THAT ROLE UP WITH SEARING PERFORMANCES IN OLIVER STONE'S OSCAR-WINNING *PLATOON*, AND *WALL STREET*. HIS CAREER LEAPED FROM ONE BOX-OFFICE SUCCESS TO ANOTHER, INCLUDING NOW-CLASSIC FILMS LIKE *YOUNG GUNS* AND *HOT SHOTS*. SHEEN'S COMEDIC CHOPS THEN LANDED HIM ON NETWORK TV IN *SPIN CITY* IN 2002, AND THEN, IN ONE OF HIS BEST-KNOWN ROLES, AS THE FREEWHEELING, HEDONISTIC CHARLIE HARPER FOR 177 EPISODES OF *TWO AND A HALF MEN*.

IT'S HARD TO TELL WHERE THE CROSSOVER BETWEEN CHARLIE SHEEN AND CHARLIE HARPER LIES, EXACTLY, BUT OVER THE YEARS, SHEEN BECAME AS KNOWN FOR HIS SENSUAL APPETITES AS HE WAS FOR HIS ACTING WORK. HIS WELL-PUBLICIZED EXPLOITS WITH WOMEN AND DRUGS, AS WELL AS MESSY, SOMETIMES VIOLENT DOMESTIC SITUATIONS, WERE DEVoured BY GOSSIP-HUNGRY TABLOID READERS. IN 2011, FOLLOWING HIS DISMISSAL FROM *TWO AND A HALF MEN*, SHEEN HAD A PARTICULARLY INCANDESCENT MELTDOWN. IN 2015, HE PUBLICLY REVEALED THAT HE IS HIV POSITIVE. SINCE THEN, HE'S KEPT A FAIRLY LOW PROFILE.

WHEN WE MET UP WITH SHEEN FOR AN INTERVIEW AT THE WHTC DISPENSARY IN LOS ANGELES, HE WAS IN HIGH SPIRITS, EXCITED TO ANNOUNCE THE LAUNCH OF HIS LATEST PROJECT—A CANNABIS BRAND CALLED SHEENIUS. WILL SHEENIUS CAPITALIZE ON THE LEGENDARY ENERGY OF ONE OF HOLLYWOOD'S MOST NOTORIOUS ICONOCLASTS AND DIRECT IT TOWARDS HELPING, HEALING, AND HAVING A GOOD TIME? SHEEN SAT DOWN WITH *HIGH TIMES* TO TALK ABOUT WEED, SEIZING THE DAY, AND RIDING THE JETSTREAM INTO THE NEXT CHAPTER.

What is your relationship to marijuana at this point in your life?

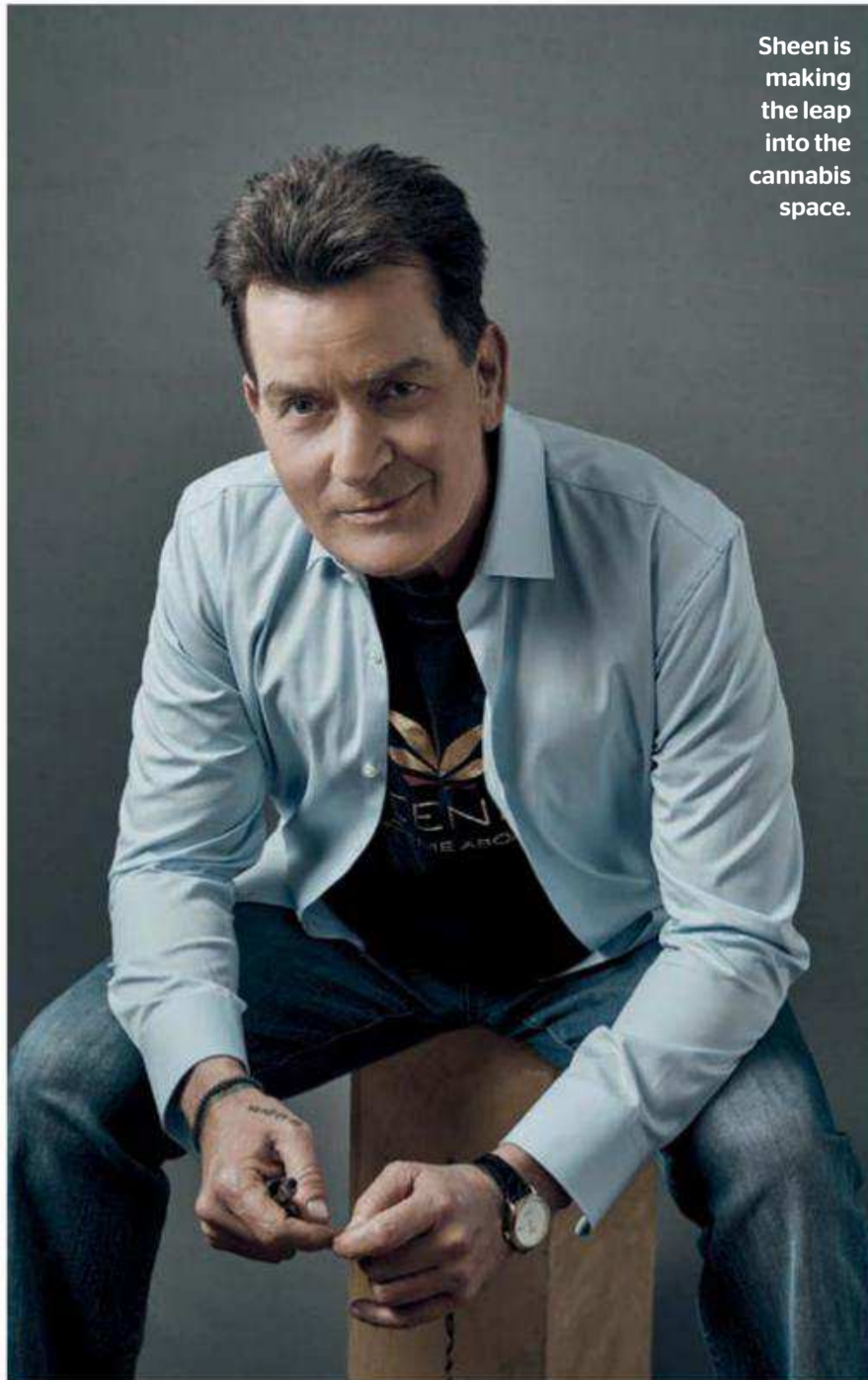
I guess you could say it's the longest relationship I've ever had. I'm starting up this company, and I'm excited about possibly getting a foothold in this whole game. We're very grassroots. I smelled pot the first time when I was 9. I grew up in Malibu. You know, we had a culture out there that was a little more free-flowing, a little more laid-back and experimental.

The cast of characters that would come in and out of my parents' house when I was growing up that I knew were high as fuck—Tommy Chong, for instance. I think Cheech Marin made an appearance at one point, but it was the Nick Noltes and Jason Millers and people like that, they had a different kind of ease about them

Guys I was going to school with, their dads were growing—illegally at the time, obviously. So we'd get a little bit here and there, but I didn't really smoke until I was 11. It was always fun—you go swimming or watch a movie or go to the ice-cream store. But then, when I got deeper into athletics, I stopped.

As a young adult, it should've been the drug that I gravitated toward and stayed with, instead of other shit I stepped in. It would have been a less—slightly less—bumpy ride if I'd just stayed on the weed train.

This [brand] was born out of already having a presence in the cannabis world—not just the community, but in the commerce of it all. You know, I went on that whole fricking meltdown years ago, and I guess a lot of catchphrases came out of that insane maelstrom—from heaven or hell, or somewhere in the middle. And people have been capitalizing on that for years.



Sheen is making the leap into the cannabis space.

“[CANNABIS] SHOULD’VE BEEN THE DRUG THAT I GRAVITATED TOWARD AND STAYED WITH, INSTEAD OF OTHER SHIT I STEPPED IN. IT WOULD HAVE BEEN A LESS—SLIGHTLY LESS—BUMPY RIDE IF I’D JUST STAYED ON THE WEED TRAIN.”

There's stuff that's named after me, and strains named after quotes that I had, and it became quite popular. So I'm sitting back thinking, "Geez man, there's somebody out there making a ton of dough off shit that I created accidentally. Why shouldn't I be in this game officially?" And that's when my partners approached me and said, "Hey man, we're patients and cultivators, and we think that now will be a fabulous time to put your name on a brand and put it into the mix."

Will your products be named after your infamous catchphrases?

Well, Malibu Dream is one of them. Milli's Vanilla is another one.

Can we expect something called Tiger Blood?

We decided to stay away from that because it didn't seem original. There's one called Dolphin Hugs.

That sounds nice.

Yeah, it sounds like a good time. A dolphin hug. It's not a bad day. Clown Mace

is pretty good, because what clown shouldn't be maced? One of our favorites is Grandma's Perfume. And then we have one called The Legend. This strange thing happened in the past few years where millennials, these kids come up from the street, and they're like, "Wow, man, I get to meet the legend." I'm kind of not totally comfortable with that, you know? It's nice. It's flattering. It's cool. But it turned into such a thing that we figured we would just name a strain The Legend. It sounds horribly arrogant and totally self-serving and completely... whatever, but we kind of had to.

Another thing happened with a girl a long time ago—she says, "I bought your weed." I'm like, "I don't have weed. What weed did you buy?" And she pulls out this bottle of flowers, it's OG Charlie Sheen. She's like, "I just always wanted to get high with Charlie Sheen," and I said, "Well, let's do this." I just remember her being super freaking high, and she was like, "Wow, wow, now I get it." So anyway, there's been a presence and an energy in and around my name in this world.

I think the medicinal progress that's being made is stunning. Especially with epilepsy, with depression and post-traumatic syndromes. That's the beautiful, karmic aspect of all of this. I mean, they were using hemp in World War I to make parachute ropes, you know what I'm saying?

You're releasing something you recommend for people living with HIV?

We're coming out with one that's an acronym: Happy I'm Vaping. Yeah. What are those initials? Right. Just fucking meet that shit head-on. You know, they tried to pigeonhole me into some poster child for that fucking thing, and there's only so much you can do, and only so much goodwill you can offer at the end of the day. It all comes down to two words: no cure. No cure. It's like, all

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right, fuck it, you know, can't get too bogged down in that. So why not support it in a way that's offering something that can generate relief? Or for more extreme cases down the line, with appetite and sleep and depression and all that? So yeah. Happy I'm Vaping.

Do you have memories of smoking weed on film sets? Seems like there was probably some cocaine on the set of *Wall Street*.

Wall Street wasn't a weed set. There was a little bit of cocaine on *Wall Street*, as there was on *Wall Street* at the time. *Wall Street* was a pretty substantial drinking set. It was tough because we were trying to finish the movie before a directors' strike that was imminent. We crammed the last 22 days into 14, which is nearly impossible. We were doing like 20-hour days. So yeah, I needed a little bit of fuel on the engine.

Platoon, I've only seen the film a couple of times. After that scene with the drinkers and the potheads, "Tracks of My Tears," then the movie goes into that next phase. It's just pure brutality. That's like our last moment to celebrate something together, you know. So, everybody was totally baked for that scene. Totally baked. That was pretty cool.

It's easier to fricking smoke real pot in a movie than it is to smoke the fake shit that they give you. Those actors—rumor would have it that they've basically been high their whole career on set—I'm a huge fan of that and I look at their work and I'm like, "That's amazing." I can't imagine, especially doing something really complicated, I don't want to give any names, but you know, flying the *Milennium Falcon*, for instance, that is a complicated thing to pull off. But people are just, you know... Certain brains are wired differently. It works for some people.



Sheen with the lovely ladies of WHTC Dispensary in L.A.

"I THINK THE MEDICINAL PROGRESS THAT'S BEING MADE IS STUNNING. ESPECIALLY WITH EPILEPSY, WITH DEPRESSION AND POST-TRAUMATIC SYNDROMES. THAT'S THE BEAUTIFUL, KARMIC ASPECT OF ALL OF THIS."

When you're the wild and fun person everyone wants to party with, and your life changes, how does that change your relationships to people around you?

There's compartments or sections that are enhanced, and you get better relationships with your children, and your family, and people that aren't insane. There's also a whole planet or energy field that just vanishes. And that's hard to get used to. Yeah, you go to fucking rehab. And you come out and you see, you know, your fucking dealer, your pals that you were just

getting sideways with, and they're being respectful and they're not showing up with a, you know, fucking crack pipe and a gallon of vodka. But there's still... Everybody knows something's missing. Something's missing.

I'm not saying what was there was the best. The most positive shit that could've been going on. But it was a devil-may-care, damn-the-torpedoes fucking energy, like a jet stream that you caught. And it was exciting and it ruled the night. It ruled the day. You know, just thinking of things you get used to: You

never leave home without shades. I don't care what time it is. Because back then, you don't know how many days you're going to be gone, you know, or what boulevard you're stumbling down. Sometimes you wear double underwear. You're stuck out there for three days. You've already got backup underwear.

Double Underwear might be a good name for a Sheenius strain of weed.

[Laughing] We just launched it. But you spend enough time away from it, and then, enough depositions



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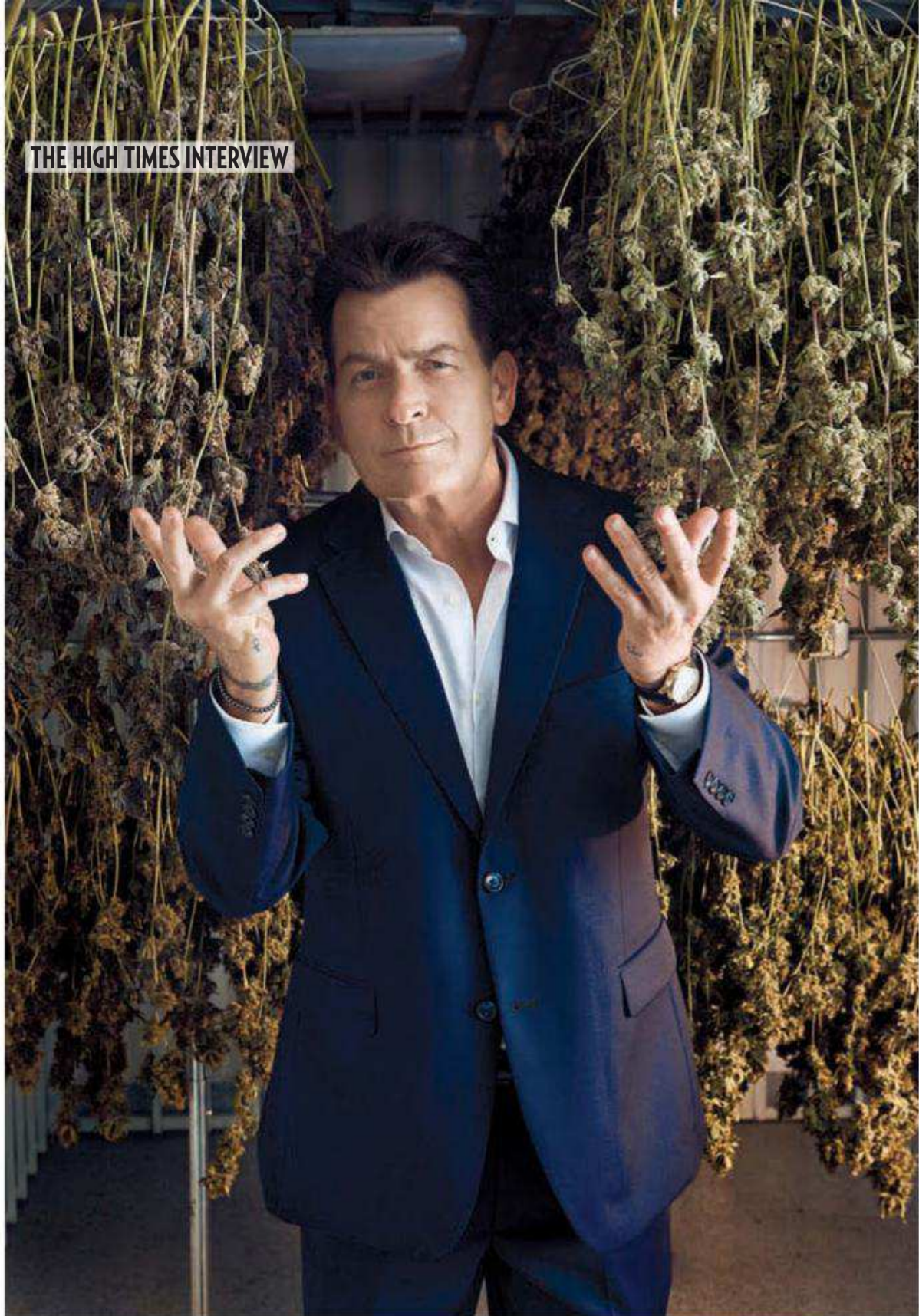
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THE HIGH TIMES INTERVIEW



and fucking lawsuits and bad press, and all of the sudden you're like, "Huh, okay, what is the common denominator or element?" And it was the dope or whatever. So yeah.

Unless people stop on their own, they're not stopping. All the shit about interventions and this and that. They're just in there, looking at the clock, just biding time, you know. "Okay. Twenty-two more days."

The only person who can stop you is yourself.

Yeah. And then when you finally do it on your own, you're like, "Oh, that was fucking easy."

Do you remember the moment when you decided to flip that switch?

Yeah, I quit drinking again recently. So that's pretty good. I just don't do well on booze. I quit drugs five years ago. It was just a hard thing. Just feels like

something a little bit deeper in your chest and you're feeling like, "Good gosh. I'm probably one moment from begging to stay here."

You want to stick around.

Yeah. Suddenly it's a shitty day you're begging to still be a part of. It's a trip. Yeah. I'm glad that I'm alive to tell a lot of the cool stories. It'll be in a book one day. It has to be. But grabbing that jet stream is still something you kinda look back on fondly, you know. I mean, if all that shit didn't happen, then kids aren't walking up in the street calling me the legend.

You seem to be on a lifelong quest. It seems that's how you've gotten through so much of what would have killed many people. That moment in *Wall Street* where you're asking "Who am I?" resonates with people who are looking for something.

You know, it's funny, I told Oliver

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Contact us to learn more:

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THE HIGH TIMES INTERVIEW

[Stone], I said, “Please don’t make me say that line out loud.” Because in the moment that, you know, the way it’s lit, the way it’s shot, you know he’s thinking that: *How did it all come down to this?* He’s like, “No, no, no. Just say it.” And then some fucking critic, I loved it—he picked out the 10 worst lines of any movie in 1988, whatever year it was. And I was number one. “Who am I?” I was like, “Nailed it.” The worst line ever. It’s right up there.

I read a tweet of yours about ABC canceling *Roseanne*.

Dude. Fucking hashtag Tourette’s. Fuck. I mean, I melted horribly and on a global stage, but I don’t recall saying things that horribly offended, you know, so many fucking good and decent hardworking people. I took a couple of shots at my bosses or whatever. Stupid. But I didn’t go to any places that were just that inhumane. Forget off-limits, just inhumane.

People have meltdowns on social media. Do you have any thoughts about Kanye West’s comments about dragon energy?

It’s hard to crawl into the mind of somebody, like everybody loves to do, and write the narrative or know exactly where that moment—what its genesis was. You know, some people, they get in a mood, they go do something that they probably should’ve canceled, because some other shit was going on, and passion takes over. You know, you kind of forget where you are sometimes. I mean, leading with passion is fabulous. A lot of people get accused of anger issues. You can counter that with “No, I have extreme issues of passion. I can care too much.” And then there’s some folks—I think some of it can be a little bit manufactured, a little bit planned.

“UNLESS PEOPLE STOP ON THEIR OWN, THEY’RE NOT STOPPING. ALL THE SHIT ABOUT INTERVENTIONS AND THIS AND THAT. THEY’RE JUST IN THERE, LOOKING AT THE CLOCK, JUST BIDDING TIME.”

You think some public meltdowns are premeditated?

Yeah. Mine was not rehearsed. It just kinda got away from me. Yeah. That was... Wow. It was quite a ride.

Your body of work is so broad, from Oscar-winning films to network sitcoms. Do you have a sense of what your artistic legacy will be?

No idea. I hope they’ll add to that that he was a guy that contributed greatly to the world of cannabis. Because, you know, Hollywood can be forgiving. But it can also be pretty tyrannical, pretty oppressive. When they decide that they’re done with you, at least for a while, that door is not just locked, man—it’s welded shut. And that’s all right. So you can sit around and mope, and woe is me—no one wants to hear that crap. Or you can pursue other things. And create opportunities for yourself, just always remembering and trying to keep in mind that there’s a reason that all that cool shit happened. You know, you were betting on yourself then. Then a couple missteps or U-turns or whatever—you’re still you. You didn’t have a fucking lobotomy, you didn’t get body-snatched. I think that that’s important, to maintain our sense of nobility and value. So it’s not happening over here? You got to go somewhere else and generate something cool. ✨



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Send your cannabis cultivation questions to [@deardanko](https://twitter.com/deardanko) or deardanko@hightimes.com.

SUBJECT: **Leaf Fade**

FROM: **Terpene Cowboy**

🌿 I've taken your advice on flushing my plants and I'm happy with the results, but I've noticed that the color of the leaves on my plants starts fading and turning lighter, especially in the veins. Aren't these signs of deficiencies that I should be trying to avoid? Am I going overboard by flushing for a full 2 weeks?

Dear TC,

It's perfectly normal for your leaves to fade and turn "fall" colors such as yellow, pink, red and light purple. This is a signal that your flush is working and you're successfully removing the built-up nutrient salts. You're correct that these are signs of deficiencies earlier in the plants' life, but the last 2 weeks of flowering are a time to remove nutrients and not add them. Your buds will burn and taste better, and joints will turn to a wispy white ash when smoked. Unflushed pot burns like charcoal, always needing to be relit and leaving a dark chunky ash.



Danko Tip: Use a light meter to measure whether you're getting the minimum of 6,000 lumens per square foot at the plant's canopy level.



Marigolds act as a repellent to deter insect infestations.

SUBJECT: Mother-Plant Soil Change

FROM: Nick

🌱 When keeping a mother plant for cloning, do I need to change out soil periodically?

Dear Nick,
You should replot your mother plants once they become too root-bound in their containers. Rather than changing out the soil entirely, which is bound to shock your plant's roots and cause issues with recovery, your best bet is to replot your mother plant into fresh soil in a larger container. Wet your existing mom's soil thoroughly to keep it all together. Turn over the container while carefully holding the main stem and gently remove the entire plant with the roots and surrounding soil. Now place the root-ball into your preprepared larger container partly filled with mix. Backfill the container with your remaining soil mix and water it all in. Your formerly root-bound mother plant will rebound in a few days and begin producing new growth from which to take cuttings.

SUBJECT: Companion Plants for Pot

FROM: Deon

🌱 Greetings from Cape Town, South Africa!

I love your podcast—the cultivation sections are amazing! I especially enjoy the rare info and insight on growing *sativas* and growing organically; the perspectives provided by you and the growers you talk to are comprehensive and inspiring!

I'd love to hear if you have any ideas about using permaculture guilds or other forms of companion planting that see other plants (besides beneficial fungi) provide cannabis with pest repellent, beneficial-insect attractant or other useful qualities. It's a topic that is frustratingly scarcely covered in permaculture literature.

Dear Deon,
Thanks for the kind words about the *Free Weed* podcast! We're so happy to be back on a weekly basis!

Permaculture is a great way to grow outdoor marijuana. What permaculture means is simply that you improve the quality of your soil each year by using compost, beneficial bacteria and organic

additives. All of these practices increase the microbial activity in your soil as well as help loosen clay soils. As for companion plants, marigolds will help keep away whiteflies while peppermint deters aphid populations and dill discourages spider mites. Beneficial insects such as ladybugs, predator mites and praying mantises can all be a part of a permaculture approach to cannabis farming.

SUBJECT: Early Flower

FROM: Terry H.

🌱 What nutrients do you water plants with during their first week of budding? I've always wondered if I should keep giving them the vegetative food or switch over to the budding nutes.

Dear Terry,
The transitional period between when you induce flowering and when flowers actually appear is an important stage of growth, and many cannabis farmers run into problems during this time. Because buds are only just beginning to form, the



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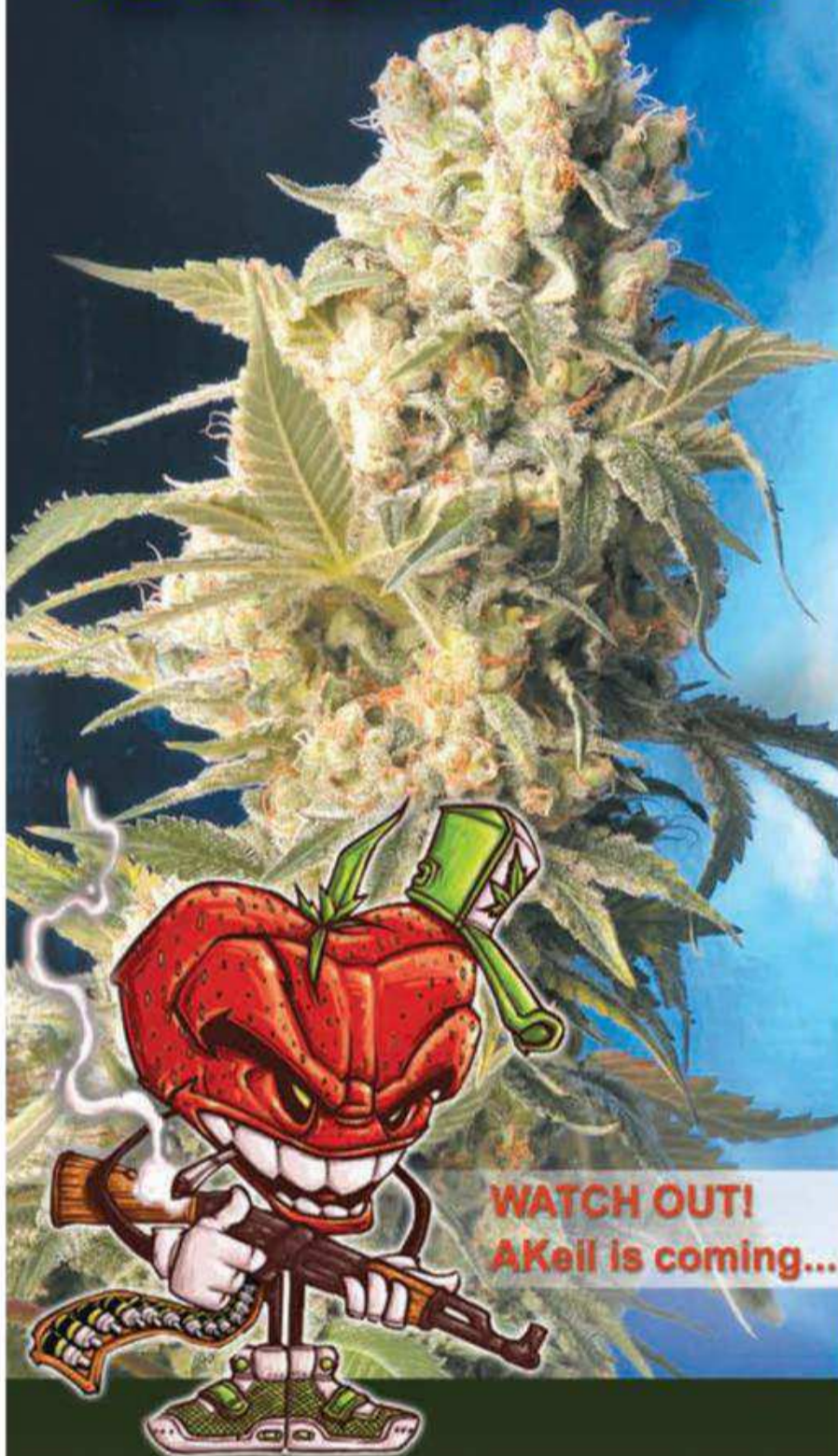


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DEAR DANKO

Danko Tip: Cure your buds in opaque glass jars. Never use paper or plastic bags for curing or storage.

plants don't need phosphorous and potassium in the quantities that they will need them in upcoming weeks. Your best bet is to go mild with your flowering nutrients and keep some nitrogen in the mix as well.

Plants will continue to stretch for several weeks before they really start packing on the buds. Some purer *sativas* barely show signs of budding at all for over a month after you've switched to the 12 /12-hour light/dark flowering light cycle. Feed these plants lightly during this period to avoid overfertilizing them. Go with about a quarter- to half-strength of what's recommended on the bottle. You'll have plenty of time to go bigger with the nutrients during weeks 3-6, when the stretch period is over and flower formation takes priority.

SUBJECT: **Transplanting During Flowering Stage**

FROM: **Sour Wonder**

🌱 Is it okay to transplant to bigger pots two weeks or more into flower? Will it stunt the plants? Will more roots even grow? I'm afraid my plants are too root-bound to produce much bud.

Dear Sour,

I don't recommend transplanting anytime during the flowering stage of plant growth due to the recovery time of 1-2 weeks. Transplant into larger containers at least 2 weeks before you induce flowering in order to allow the plant's roots to recover from the shock of exposure and jostling. Always transplant gently in order to limit the amount of time the plant will take to spring back into growth. If you must transplant during the flowering stage, factor in at least a week or two of recovery time into your flowering time. The roots will eventually grow into the fresh soil you've added, but only after some time.

SUBJECT: **Feeding Time**

FROM: **Justin S.**

🌱 Are there certain times during a plant's life during which it wants to be fed more nutrients, or should you always feed about half of what the label says? I've heard so many differing opinions and I'd like to get a definitive answer.

Dear Justin,

Yes, plants have different nutritional requirements at different times during their life cycles. During the vegetative stage, the plant will need more high-nitrogen food after a few weeks of growth than when it first goes into its container. As the plant develops a bigger root system and the stem, branches and leaves grow larger, it will require higher levels of nutrients added to the solution with which you're feeding.

During the flowering stage, the plant will need more food from week 2-5 or so, depending on the flowering time of the strain you're growing. The early stage of flowering is a transitional phase, during which not much food is required. Once flowers begin forming and growing larger after a couple of weeks, you should boost the high-phosphorus and -potassium nutrient levels in your feeding solution. Cut back around week 6 or 7 of flowering, depending on your strain's total flowering time,



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DEAR DANKO

Danko Tip: Use a sharp razor blade to cut clones. Scissors or serrated knives will damage the cut end.

and begin the flushing process of watering with plain water only. This ensures that any remaining built-up nutrients are leached out of the plant matter and the resulting buds will burn properly and taste the way they should.

SUBJECT: **Plant Transplant**

FROM: **Greenhorn**

Let's say I have a handful of strong females between the ages of a month and a month and a half old. They're in shallow 2-gallon buckets and the roots are covering the bottom of the pots already. Clearly, they need to be transplanted. How long would it take for them to reach the bottom of a 5-gallon bucket? And what's the most efficient way of keeping a 5-gallon bucket moist at the bottom without drowning my girls?

Dear Greenhorn,
Sounds like you definitely need to transplant your plants into larger containers. Water your plants thoroughly first and then gently remove them from their containers. Place them into the larger 5-gallon pots that have been prefilled with your soil mix. Fill in the empty space around your soil ball with mix until level and then water it in again. It will be several weeks before the roots reach the bottom and much longer before the plants become root-bound again. There should be plenty of time for you to finish your harvest without having to transplant again.

You can keep your mix moist by bottom-feeding the plants. This entails watering them from below by allowing the roots to take up what they need. Just make sure they don't sit in standing water for too long (no more than an hour). This method also has the added benefit of keeping the top few inches of your soil from always being oversaturated, which creates a haven for pests and molds. It also helps conserve water as well.

SUBJECT: **Water Trouble**

FROM: **Kase Dismissed**

I mixed my soil up exactly like the directions say, but it's puddling and doesn't seem to get wet by water. What gives? If your fix for this is adding soap to the water, what is the exact mix? My soil is staying bone-dry.

Dear Kase,
When a soil mix has been dry for a long period of time, it can become "hydrophobic," meaning it will not absorb water. Sometimes the soil mix just floats on top of any water you try to add to it. One option is to soak the bucket by bottom-watering it. Simply fill the container you normally use to catch the water that comes out of the bottom of your bucket, and place the bucket in it for an hour or so while it slowly absorbs water from below.

Another option is, as you mentioned, to add a drop of natural dishwashing liquid to a gallon of water, stir it in and then water your plants from above. The dish soap will "soften" the water, allowing it to become better absorbed by your soil and breaking the surface tension. Try not to let your mix dry out completely between waterings. Just the top inch or two should be totally dry before you decide to add more nutrient solution. 🌿

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PATIENTS

Sifting through the changing landscape of medical marijuana laws in your state can become overwhelming. MarijuanaDoctors.com is here to help.

Our site is designed to serve patients and physicians alike, providing information about state legislation information, practices nearby, and dispensaries in your city for patients and comprehensive outreach services for physicians to connect with patients in the area.

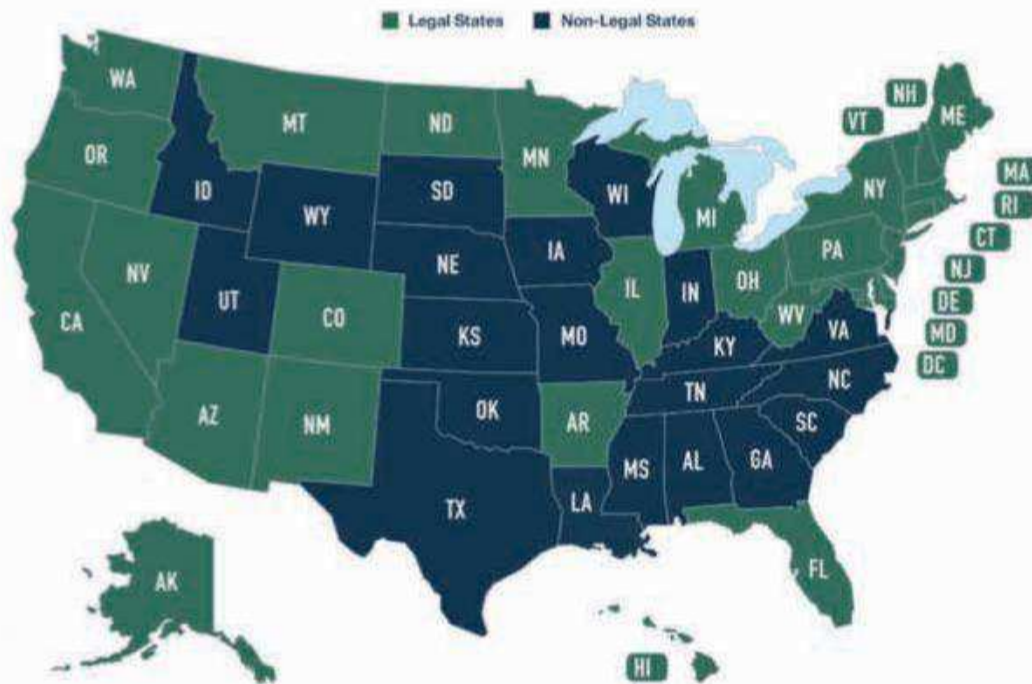
Your Journey with MARIJUANADOCTORS.COM

Patients can start by checking our database of legal and non-legal states to learn about medical marijuana laws in their states. Our state database includes information about qualifying for medicinal cannabis and how to complete the registration process.

For patients with limited mobility, we have information about telemedicine services in qualifying states -- which helps bring care right into the patient's home.

Find a QUALIFIED PHYSICIAN

Once the registration requirements are known for each state, patients can check out our list of physicians certified to recommend medical marijuana. Not only can patients search for physicians that are nearby, but they can also view reviews and ratings for physicians to get a feel for a practice before making an appointment. We've made it easy for patients to pick the right physician -- including practice information, office hours, and pre-visit requirements. Patients can schedule their appointment online right from the comfort of their home. A recommendation from a qualified physician in our database helps patients obtain the legitimate medical documentation they need in order to start the registration process for a medical marijuana card in their state.



Fill Your Recommendation CLOSE TO HOME

After patients have completed the registration process and obtained their medical marijuana card, MarijuanaDoctors.com can help them find a dispensary to fill their recommendation. Not only do we constantly update our list of dispensaries in legal states, but we have our finger to pulse of non-legal states with changing legislature and are first on the scene when dispensaries open in these states.

Patients can find rating and review information about local dispensaries to help them find the best budtender for their needs. Soon our team will be integrating ordering functionality so that patients can order directly from dispensaries, making it even easier to get the medical marijuana they need to treat their qualifying conditions.

The Nation's #1 Medical Marijuana Network



Marijuana Doctors: One-Stop Portal

If you're a medical marijuana patient or doctor, finding the resources and dispensaries you need can be difficult.

If you're a medical marijuana certified physician, MarijuanaDoctors.com has the resources to connect you with thousands of patients every month.

PHYSICIANS

Our subscription services help us optimize your profile to help draw more patients to your practice. We are constantly adding services to help physicians connect with patients in this digital age.

Digital Appointment Assistant PRACTICE MANAGER

We are happy to offer a paperless HIPAA Compliance Check-In System for physicians registered on our site. Practice Manager, the new electronic check-in system, will process forms and instantly store files into the EMR. The system will make processing patient paperwork easier, leaving physicians and practice managers just to review notes and schedule follow ups. The check-in system will also have functionality to set up reminders for patients about scheduling follow-up appointments through the Marijuana Doctors site, text, or email. The system will also give patients the opportunity to rate the practice and their experience, helping boost the practice's credibility with great reviews and testimonials.

Our new registration and digital signature automation will technically streamline workflow for practices using telemedicine. Doctors can connect with telehealth patients by simply clicking a few buttons in their Practice Manager. Once a doctor connects with a patient through Practice Manager, patients have the ability to see when doctors are available for a live chat about their medical marijuana treatment options. Doctors have the ability to use MarijuanaDoctors.com to have patients fill out telehealth forms, process payments, receive medical records, schedule a HIPAA compliant virtual appointment, add notes, finalize appointments, and schedule follow-ups to boost patient retention. This system is the most

At Your Fingertips TELEMEDICINE

seamless way to manage your practice's patients and reach out to new patients by connecting with the tens of thousands of unique visitors that use MarijuanaDoctors.com every day to understand medical marijuana.



New Functionality BUDTENDERS & DISPENSARY OWNERS

Catering even further to the medical marijuana industry, MD also provides marketing solutions for producers, dispensaries and cannabis clinics. Once a patient has received a medical marijuana recommendation and the physician has registered the patient on the state's department of health website, patients can now request an appointment with local dispensaries using our network.

MarijuanaDoctors.com gives producers the

ability to vertically integrate within their market, understanding that patients using medical marijuana to treat debilitating and chronic conditions hold a lifetime value as customers of a dispensary.

As with physicians, producers now have the ability to create profiles optimized for their location and benefit from the patient funnel that is generated by our network's skillfully developed infrastructure.

Producers will now share the

automated-functionality of scheduling patient appointments, and have access to the telehealth portal by which they may consult with patients online, instead of in-person. Furthermore, producers may also choose to become featured advertisers, opting for advanced placement in the state and city static listings, which always come up first in the search results.

ABOUT



Marijuana Doctors seeks to educate patients in states where medical marijuana is legal. Our goal is to be one-stop resource for patients to have their medical marijuana needs met in one location. In order to best serve our patients, we will provide information about medical marijuana laws, availability of physicians in patients' areas, on-demand access to physicians and pharmacists,

information about dispensing options, delivery services, ancillary products, easy online ordering, and automated product ordering. As we continue to expand our patient resources, we are excited to offer 360-view tours of featured dispensaries, the cultivation process, the manufacturing process, and products. Our patients are able to do everything—from research to ordering to reordering—from the comfort of their homes.

As a MSO, Marijuana Doctors can facilitate these services on behalf of medical organizations with medical marijuana licenses in qualifying states. We have created security checks and balances to ensure that deliveries and sales can only be obtained legally, taking the pressure off our patients. As your go-to resource for marijuana, we will keep adding the information you need to make receiving the medical marijuana you need to treat your qualifying condition as easy as a click.

Edibles



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CANNABIS-INFUSED SPICY MUSTARD

ENJOY THIS SPICY, HEADY CLASSIC ON YOUR FAVORITE SUMMER DISHES!
BY JOANNA O'BOYLE

MUSTARD IS A pretty unusual condiment in that it's used and loved globally. Much like its fellow plant cannabis, the mustard seed has a fascinating history, with record of the spicy staple being used as early as 3000 BC.

Mustard is also surprisingly healthy, containing calcium, iron, zinc, selenium and magnesium, as well as being a great source of soluble fiber. The outside coating of the mustard seed, the mucilage, happens to be a natural emulsifier, which makes mustard seeds perfect for combining an oil like cannabis extract with other liquid ingredients.

Simple variations to this basic recipe (like adding honey for a sweet mustard, or subbing the vinegar for beer and skipping the white wine) make this mustard perfect to adapt as an ingredient for a number of dishes, and its use as a condiment allows dosage to be completely customizable.

INGREDIENTS

3 tbsp. whole mustard seeds (yellow and brown and/or black—the darker the seeds, the spicier the mustard)
2 tbsp. ground mustard (powder)
¼ gram activated cannabis distillate
¼ gram liquid sunflower lecithin
¼ cup apple-cider vinegar
2 tbsp. white wine
¾ tsp. fine sea salt

DIRECTIONS

Grind the whole mustard seeds with a mortar and pestle, or with a spice grinder for about 15 seconds, just slightly crushing the seeds, not fully pulverizing them into a powder. Combine the semi-crushed seeds, the mustard powder and the salt in a jar. Stir to mix thoroughly.

Pour the apple-cider vinegar and white wine into a high-speed blender (or a glass mason jar if using a handheld immersion blender). Mix the ¼ gram (or an equal amount by weight, aiming for a one-to-one ratio) of liquid sunflower lecithin into the ¼ gram of cannabis distillate. Heat gently if needed to thoroughly incorporate the two ingredients.

Slowly add the lecithin/cannabis mix to the vinegar and wine in the blender while blending. Continue to blend at high speed until

emulsified. Don't worry if a foam develops; it will settle a few minutes after blending (it's created by trapped air bubbles in the oil).

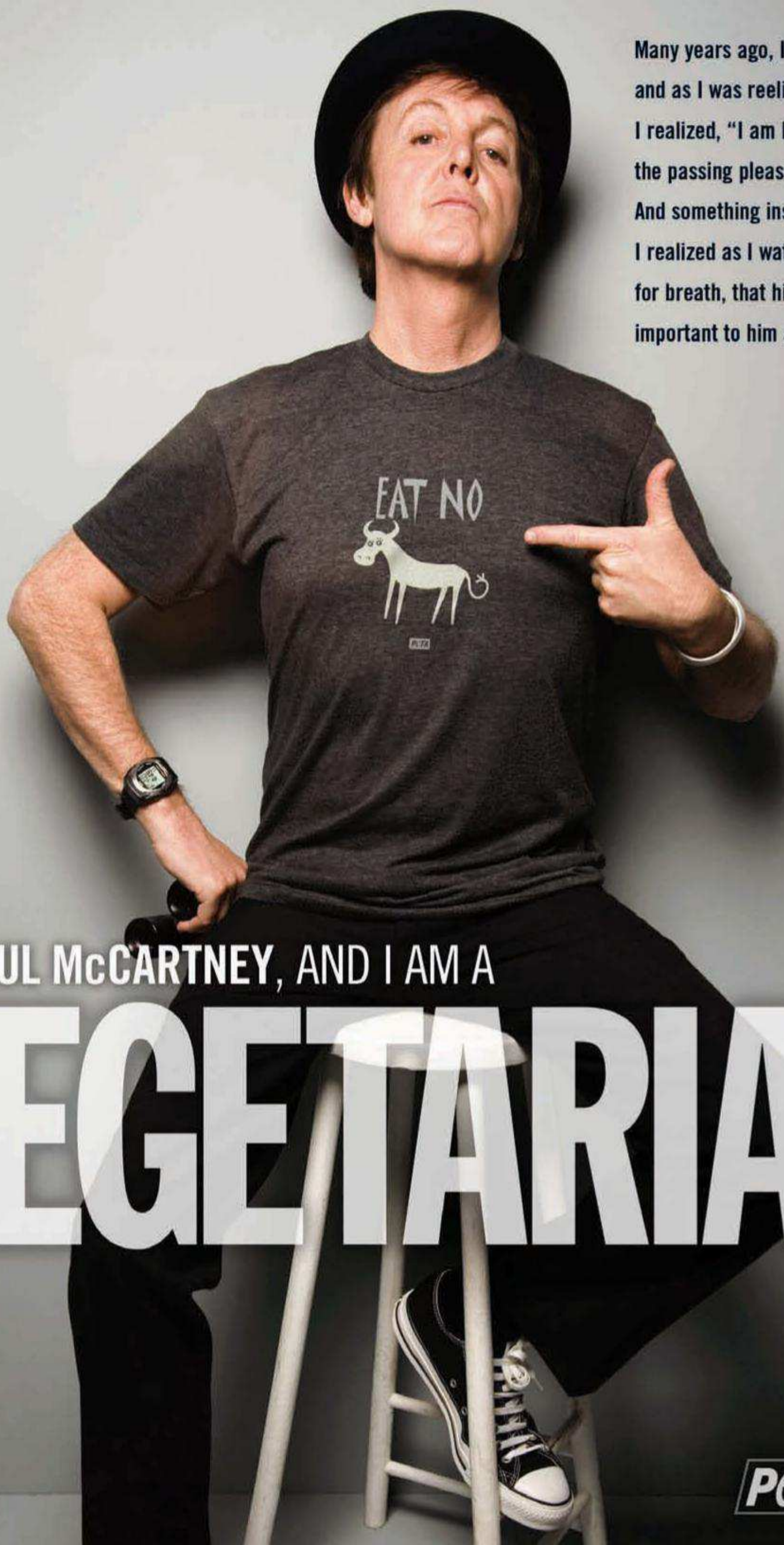
After the liquid mixture has cooled fully from the heat of the blending and the foam has dissipated, stir the liquid ingredients into the dry ingredients. The temperature of the liquid is key for determining the spiciness of your mustard—cool liquid will retain the most sharpness, while warmer liquid will result in a milder bite.

The mustard will be soupy at this point, as it takes about 8-12 hours to thicken. Leave the mustard on the counter to cure for a few days. I recommend at least two full days or more as a cure time before consuming or storing in the fridge, allowing the flavor to fully mellow and develop. This recipe produces six ounces of infused spicy mustard.

POTENCY

I used ¼ gram of pure activated Jack Herer distillate at 88 percent THC and 1.49 percent CBD. This gave the six ounces of finished mustard a total of 220 milligrams of THC, with each tablespoon containing approximately 18.3 milligrams THC. As always, please consume responsibly—take it slow and remember to label your edibles clearly. ✨

Photo © 2007 PETA Communications, Ltd./Max Vadukul



Many years ago, I was fishing,
and as I was reeling in the poor fish,
I realized, "I am killing him—all for
the passing pleasure it brings me."
And something inside me clicked.
I realized as I watched him fight
for breath, that his life was as
important to him as mine is to me.

I AM PAUL McCARTNEY, AND I AM A

VEGETARIAN

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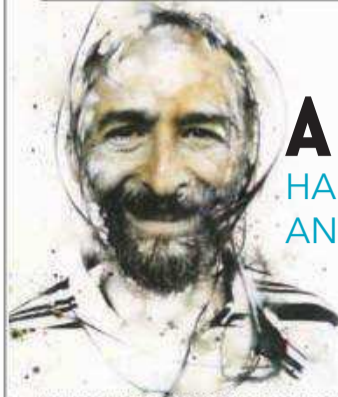
And that was just last year.

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Got a question for Dr. Mitch? Email him at 420research@gmail.com.



Edibles can be trippy but pot is not a hallucinogen.

A recent edibles experiment has left me wondering why cannabis is not classified as a hallucinogen. Any thoughts?

Leery Tim

Hello Leery,
Although formal definitions of hallucinogens emphasize changes in thought, perception and mood, they also stress little memory impairment, changes in arousal or craving. Cannabis doesn't quite fit these criteria. Hallucinogens don't work in the cannabinoid neurotransmitter system, either. Cannabis-induced experiences tend to have more "volition" (the ability to control yourself) and "intensity" (an experience of a rush or a high). It probably seems like academic hairsplitting, especially when you're lying on the floor after a surprising brownie, but that's the rationale.

Could my daily dose of CBD be wrecking my buzz? I just don't seem to get as high as I did before I started taking it.

Fly Yin Lo

Hi Fly,
CBD definitely takes out some of the magical ideation and perceptual oddities that often accompany high doses of THC. New data also suggest that it

might reduce THC-induced euphoria. Nevertheless, 200 milligrams of CBD per day can decrease depressive and psychotic-like symptoms in daily users. It also has phenomenal antioxidant effects. Perhaps a smaller dose or a week off here and there could get you everything you need.

I watched a friend die in the hospital and I know I could have made his last days a ton better with a daily hit off the vaporizer. The staff made me sneak around and freaked when they caught me. WTF?

D.W. Dignity

Hey Dignity,
So sorry for your loss. My lab recently published work showing that attitudes about cannabis in end-of-life care still suck, but they're improving. Our data showed that over 60 percent of folks working in hospice or palliative care endorsed cannabis for their patients, especially for sleep and appetite. Back in 2001 another study suggested only 33 percent did. Let's keep spreading the word! 🌿

Dr. Mitch Earleywine, PhD, is the author of Understanding Marijuana and The Parents' Guide to Marijuana.

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COMPLIANCE IS THE KEY TO LONGEVITY

Scott Holtby Is A Freelance Writer With A Pulse On Cannabis Industries.

Over the last few years, we have seen an unprecedented push towards greater legalization of cannabis in a number of key markets, most notably in the U.S. and Canada. Unlike Canadian markets, pushed forward through federal support, U.S. legalization efforts have been driven by state legislation. This has led to a worry that the legal cannabis industry is in a "wild west" phase, crying out for greater regulation and enforcement.

Despite strong public support and a powerful movement of entrepreneurs and activists in key states like California and

Colorado, there remains heavy pushback from much of the public. For cannabis to fully integrate into the mainstream of American life, clearer rules and stronger enforcement surely will be necessary. In particular, this will likely be a key part of the inevitable federal legalization of cannabis. State governments from both sides of the political spectrum in the United States are leaning consistently in favor of greater cannabis legalization. This is a common theme from both Americans concerned with freedom from government control, to Americans concerned about unevenly-

enforced drug laws that unfairly target minorities.

This consensus is steadily increasing day-by-day, but the final hurdle will involve skeptics concerned about public health and child safety.

In order to satisfy the demands of a concerned public that represents a large portion of the American population, it is inevitable that cannabis will see greater enforcement. This includes a long list of possible regulations. An example could be a law restricting dispensaries from operating within a given distance of a school or daycare.

Or a law capping the total volume of cannabis a customer can buy in a given timeframe.

Businesses currently operating legally at the state level need to be ready for a shift in cannabis regulation. So far, the Federal Government has stayed largely outside of legal cannabis at the state level, but there has never been a clear sign this would be the case forever. Should the Federal Government take a strong stance on cannabis, companies need to be ready to meet the scrutiny and necessary commitments that likely would be needed.

Companies already operating at a level of compliance and transparency are on the right track to ensuring their practices will fall in line with any eventual mandate set out by the Federal Government to regulate the cultivation, sale and distribution of cannabis.

Industry actors like *Alternate Health Corp.* (OTCQB:AHGIF) recognize this need to be prepared and are building compliance and transparency directly into their products and services. Companies also need to be prepared as governments and political parties change and electoral whims get passed into law. They need to recognize that regulators will have a wide range of flexibility on how they choose to enforce their mandate.

Therefore, cannabis companies need to prepare for government changes and protect themselves from risks in the future. And for investors, the key to longevity will be embracing the regulations of the marketplace.

AlternateHealth.com

Women In Cannabis



Gia Morón

Executive VP, Women Grow

▶▶ **Any advice for emerging female entrepreneurs in the Cannabis Industry?**

Come prepared to work hard. This is a unique space that is writing the rules as we grow - Most people entering are expecting the same support and guidelines as other industries, but the industry is not there yet, so if you have the expertise, bring it, because it is needed. This is a wonderful opportunity to be a part of an industry, where you can contribute to building. Come with an open mind and flexible shoes ready to pivot at any moment. This

is an exciting time to work with thought leaders and game changers. Ladies, network constantly, join cannabis member organizations where for profit or not profit. Those circles are important. Stay up to day on the news in the industry, subscribe to magazines like High Times and most importantly find a mentor in this space. Create a circle of contacts you can build relationships with.

Lastly, begin to learn the businesses in this industry. It will help guide you in the direction you will want to land.

▶▶ **What is the biggest trend in the cannabis space right now?**

It depends on location. What jumps out most are the ancillary services coming to market. These businesses are coming up with creative solutions to support businesses and consumers. From convenience to luxury services whether door to door service to 420 friendly mobile vehicles for safe and easy consumption I am seeing more family owned businesses entering this space; Old school practices meets legal industry. More college students

Continued ...▶▶



NEW OPPORTUNITIES ARISE IN CANNABIS COMPLIANCE

Nick Swan is an avid investor and advocate for Medical Cannabis Industries

The shift to legalized medicinal and recreational marijuana is underway in many states and this process is opening up new opportunities in regulation and compliance. Public concerns about age verification, child-proof packaging and impaired driving in particular are capturing the attention of businesses and the public alike.

Although the issue of impaired driving is nothing new, legal cannabis is pushing this debate to the forefront of the public conversation. More attention has been placed on how to monitor, test and control cannabis to ensure no one operates a vehicle under the influence.

Concepts affiliated with controlled substance legislation, like road side testing, childproof packaging, and age verification already have obvious precedents in other markets.

Alcohol, tobacco and prescription medications have long-established guidelines and regulations in place.

The cannabis industry is adapting these models to address public concern, but each model must be redesigned to fit this unique industry. Packaging must address deterioration of the product; age verification online will have to be addressed and a new technology for roadside testing will need to be developed to close all the existing gaps in compliance.

A system that provides a fool-proof method of age verification, especially online, is needed to address the concerns regulators have of cannabis falling into the hands of underage consumers.

That's why companies like *Alternate Health Corp.* (OTCQB:AHGIF) have a built-in application for age verification through their *CanaPass* Compliance Blockchain System that ensures the person who places and receives the order is of legal age.

Like many medications, a child-proof container for cannabis is another step towards safety. However, there are other considerations to be taken into account

that are specific to cannabis in terms of packaging and maintaining the quality of the product within. Over time, the deterioration of an organic compound like cannabis must be considered in packaging. Companies like *eBottles.com* and *Kush Bottles* are already moving into this space, developing custom products for the legal cannabis industry.

There is no technology that mirrors a breathalyzer for detecting cannabis impairment. This concerns regulators and has sparked a race among companies to develop the technology and become the standard in this space. *Hound Labs*, for example has developed a handheld device similar to a breathalyzer that has reached the stage of clinical trials.

In the regulated legal cannabis market, compliance will be key. Companies that are working with governments and regulators to ensure that cannabis is always consumed in a safe and legal manner are the ones that will survive in this industry.

AlternateHealth.com

are looking at cannabis as a serious career path where they can build the next solution. I see rising trends in cannabis-infused feminine products. Women in general are interested to learn how such products could support needs from chronic pain to intimacy accessories. This is a big deal for women of a certain age seeking for solutions as their bodies are changing. Anyone in the cannabis, intimacy and feminine-product space are geniuses, addressing a large pool looking to support them.

▶▶ **How is Women Grow adapting to rapid industry fluctuations?**

When the company first launched the focus was female entrepreneurs. In the beginning the company grew fast and we scaled back. Also there was a shift we were beginning to see more female professionals less interested in launching a business, but instead wanted to work for a business in a leadership capacity. Our goal is to remain tapped into both the women business owners and c-suite professionals, along with advocacy leaders.

Our roles are important and must remain connected. We are eager to work with women at all levels of their careers. Those who are familiar with the Women Grow

model know we have markets (formerly known as "chapters") across the country and Canada. We are preparing for growth again but at gradual pace. We are currently making changes to our Market Leaders program. Our goal is to increase education to keep up with industry growth, connect with the next generation of women leaders who are currently exploring this industry - tapping the graduate level scholars for education and opportunities in cannabis and some other soon-to-be-announced projects. *Women Grow* is preparing for its greater footprint in the market now. We see a bright future for our company.

Connect with : womengrow.com

FREE WEED

FROM **DANNY DANKO**



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Growing your own marijuana can be both a liberating and political act. In this pot-cast, *High Times* Senior Cultivation Editor and author Danny Danko provides news, activism reports and cannabis cultivation tips for connoisseurs, aficionados and medical patients alike.

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NORMLIZER by Catherine Nacier



HOW THOSE UNDER 21 CAN GET INVOLVED IN THE CANNABIS SPACE

THINK YOU'RE TOO YOUNG TO BE A PART OF THE GREEN RUSH? HERE ARE FOUR WAYS TO GET INVOLVED.

Catherine Nacier is an intern at NORML. Visit norml.org.

I'M A 20-YEAR-OLD who wanted to work in the marijuana space, so imagine my dismay when I found out I couldn't even apply for most jobs in the industry because of requirements that applicants be 21 or older. You might be in the same predicament, but fortunately there are ways to get involved before your first legal drink.

If you want to work in the marijuana industry in the future, it is important to understand the hard work that is being done on the ground to improve marijuana laws for patients, casual users, businesses and those caught in the criminal-justice system, so take this time before your 21st birthday to learn about the War on Drugs and its detrimental effects on communities. Advocate for change in the public sector so that people are not treated like second-class citizens before you enter the private sector and the marijuana industry. Learn about the history of prohibition and the fight to end it, and how the legal marketplace has evolved and is changing as the laws change. Your future job or company can only exist if there is policy reform.

While working on the advocacy side, you will meet innovators and history-makers who are passionate about marijuana. And you'll walk away with a better idea of where you fit in the industry, which can make you a more valuable participant in the future.

ADVOCACY HAS NO AGE

Advocacy groups are run by dedicated people who spend every day trying to build a better world for marijuana users. Give some of your time or money to help the cause. Volunteer and put in the work. I can say from experience that you will learn a ton and be more prepared for the industry when your time comes.

Learn more about groups like NORML, Students for Sensible Drug Policy (SSDP) and Americans for Safe Access (ASA) and find out how you can get involved (or even, eventually, employed).

LOBBY YOUR ELECTED OFFICIALS

Lobbyists get a bad rap. But the word was meant to describe people who entered elected officials' lobbies to voice their opinions. You have a voice and you too can have your say. Lobby your legislators in person, by mail or over the phone to make a change. Find out who your representative is and make your voice heard.

HAVE THE TOUGH CONVERSATIONS

Generally, when you say that you want to work in the marijuana industry, people have questions. Sometimes you have to deal with the "Marijuana is a gateway drug!" person in your life questioning your morals. This is the moment when you can speak up and try to change someone's mind. Have the difficult conversation. These one-on-one conversations matter because word of mouth is how public opinion changes and influences politics, policy and economies.

VOTE

In the 2016 presidential election, only 46 percent of the 69.7 million millennials ages 18-35 voted compared with 69 percent of the 72 million baby boomers ages 52-70, according to the Pew Research Center. But it's not just the big elections that influence the future of cannabis in the country. Elected officials at the state and local levels have tremendous influence on how prohibition ends, so vote the anti-marijuana judges, politicians and sheriffs out of office.

Imagine if millennials and Generation Zers started using the full power of their vote. How much better would marijuana laws be today? Your vote matters, and the 2018 elections are right around the corner.

For information on registering to vote, as well as upcoming elections and out-of-state voting, check out vote.org. You can even get registered right now at norml.org/act.

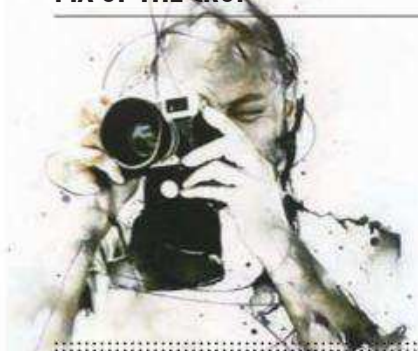
For those under 21, even though you may not be able to work full time in the marijuana industry yet, you can help make a difference in the cannabis space right now. ✨

**REMEMBER
PROHIBITION?**



IT STILL DOESN'T WORK.

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POT SHOTS

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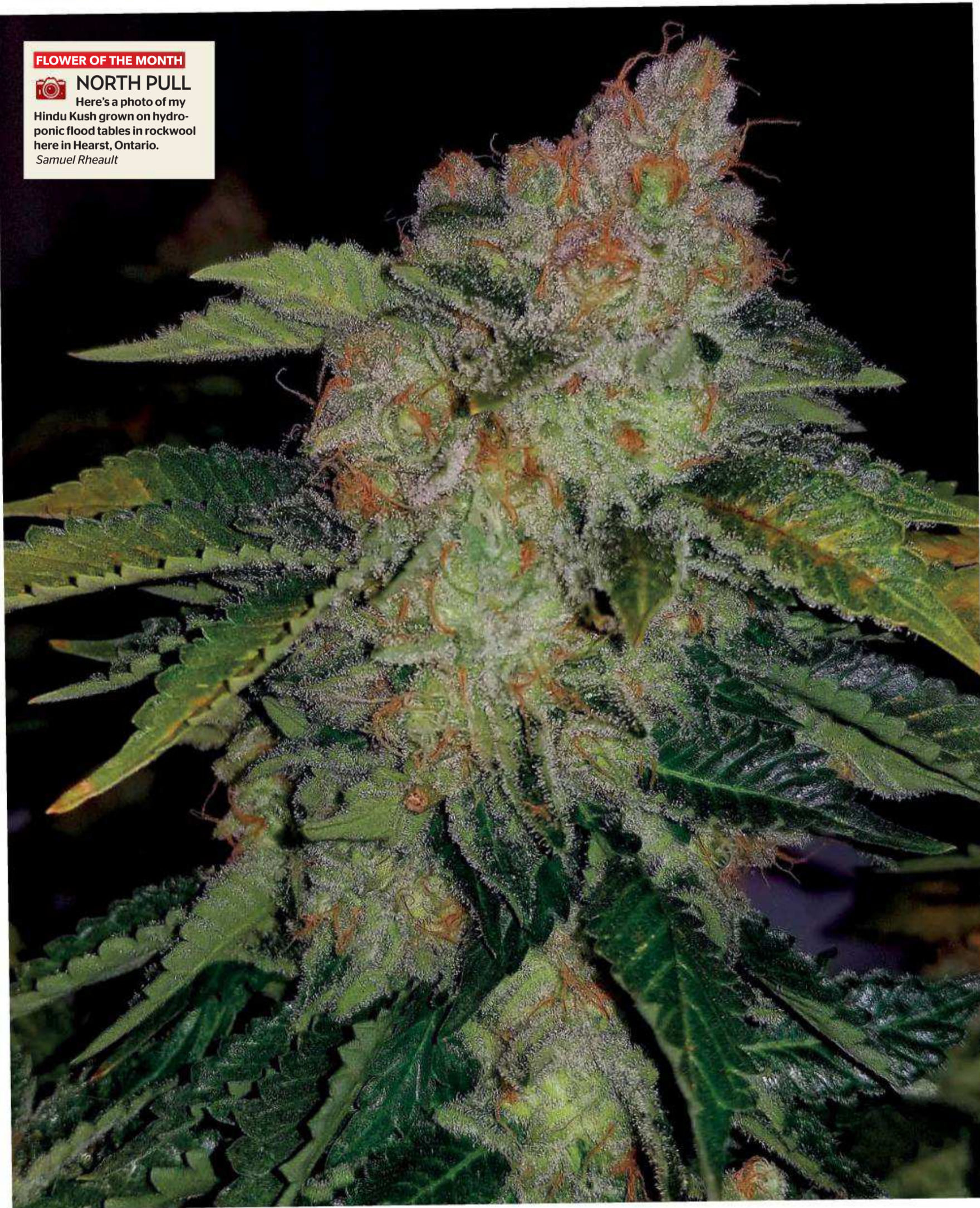
FLOWER OF THE MONTH



NORTH PULL

Here's a photo of my Hindu Kush grown on hydroponic flood tables in rockwool here in Hearst, Ontario.

Samuel Rheault



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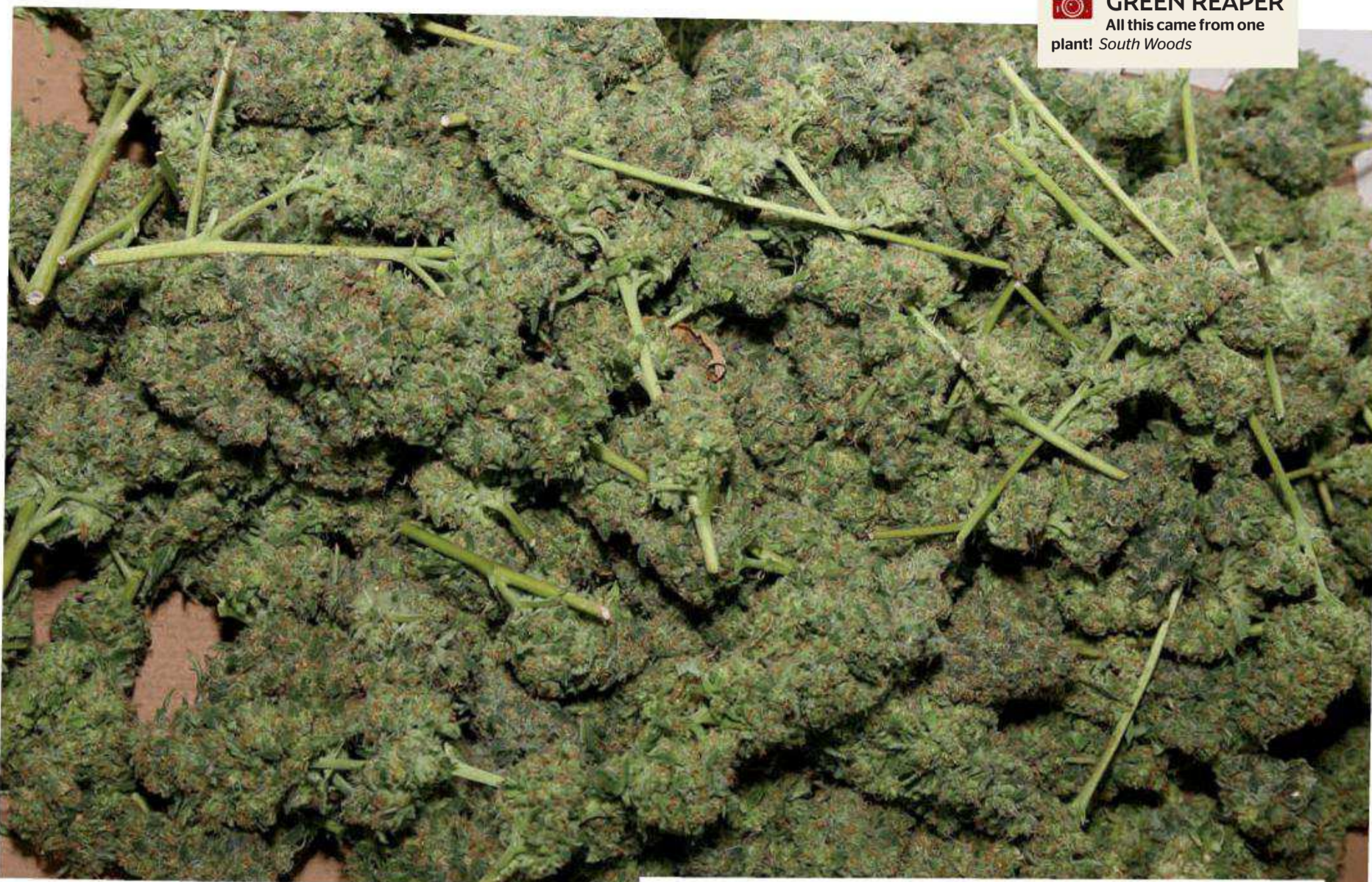


NUGS OF THE MONTH



GREEN REAPER

All this came from one plant! *South Woods*



COLA OF THE MONTH



BRITTANY'S SPEARS

Some AK grown in France from seeds we acquired in Spain. Ooh la la! *The French Guys*



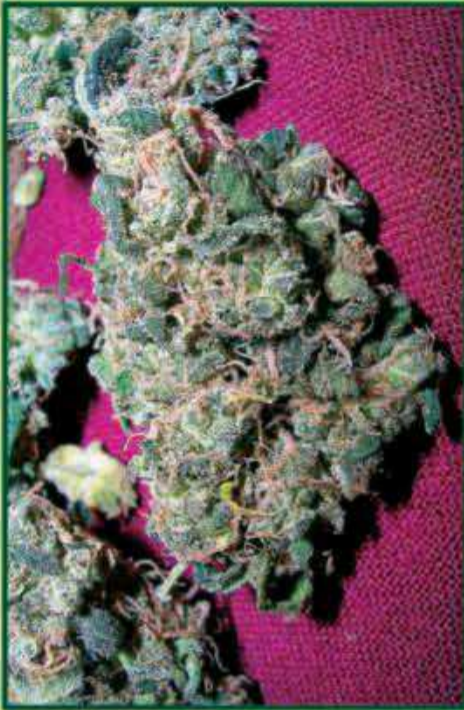
CLOSE UP OF THE MONTH



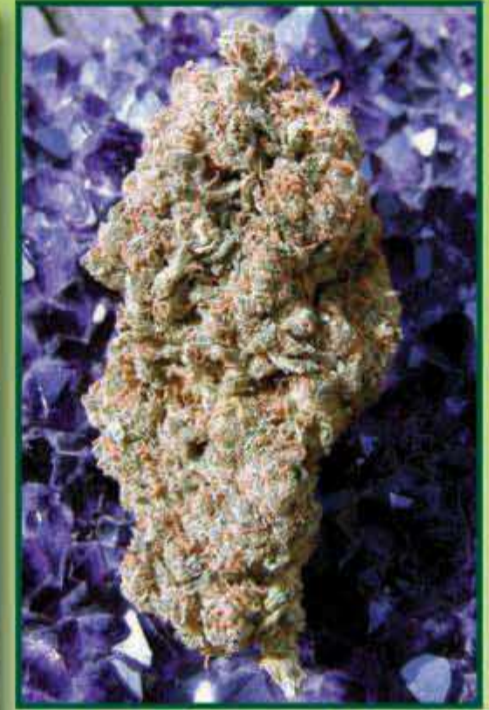
BEAN SPROUT

My name is Jeff and I love cannabis! I was using 2 1000-watt full spectrum LEDs over the winter. I also have an instagram account where i post up some cool pictures @Medical_Mischief. *Jeff Chapman*

"In this excellent field guide, Danny's years of experience translate into easy-to-reference information on more than 125 strains, all at the flip of a finger, condensing everything you need to know into an easy-to-read, well-researched, concise package—with great photos too!" —JORGE CERVANTES, AUTHOR OF *MARIJUANA HORTICULTURE: THE INDOOR/OUTDOOR MEDICAL GROWER'S BIBLE*

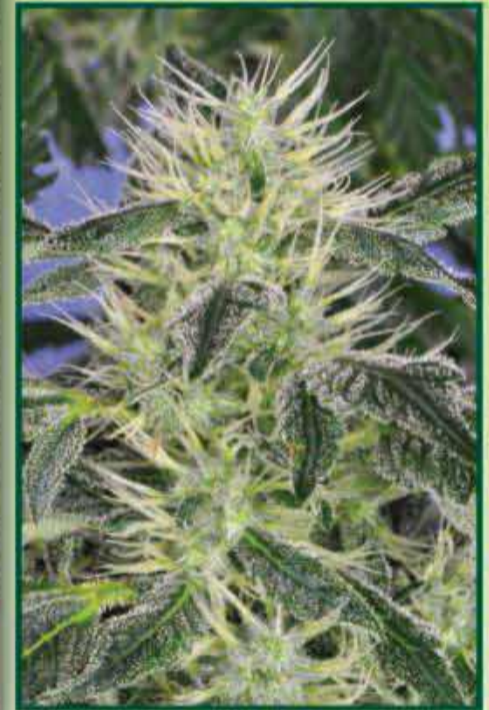


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 with a foreword by Jorge Cervantes



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18 **Martian Mean Green • DNA Genetics**

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 • 1st Place 2017
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DOPE RIDER

ON THE BONNEVILLE SALT FLATS, DOPE RIDER AND WILD BILL ARE GOING TO RACE FOR PINK SLIPS!

THAT BONEMOBILE'S GOIN' TO THE BONEYARD.

DID I TURN OFF THE STOVE? I CAN'T REMEMBER.



MJ GIVES THE SIGNAL AND THEY'RE OFF!

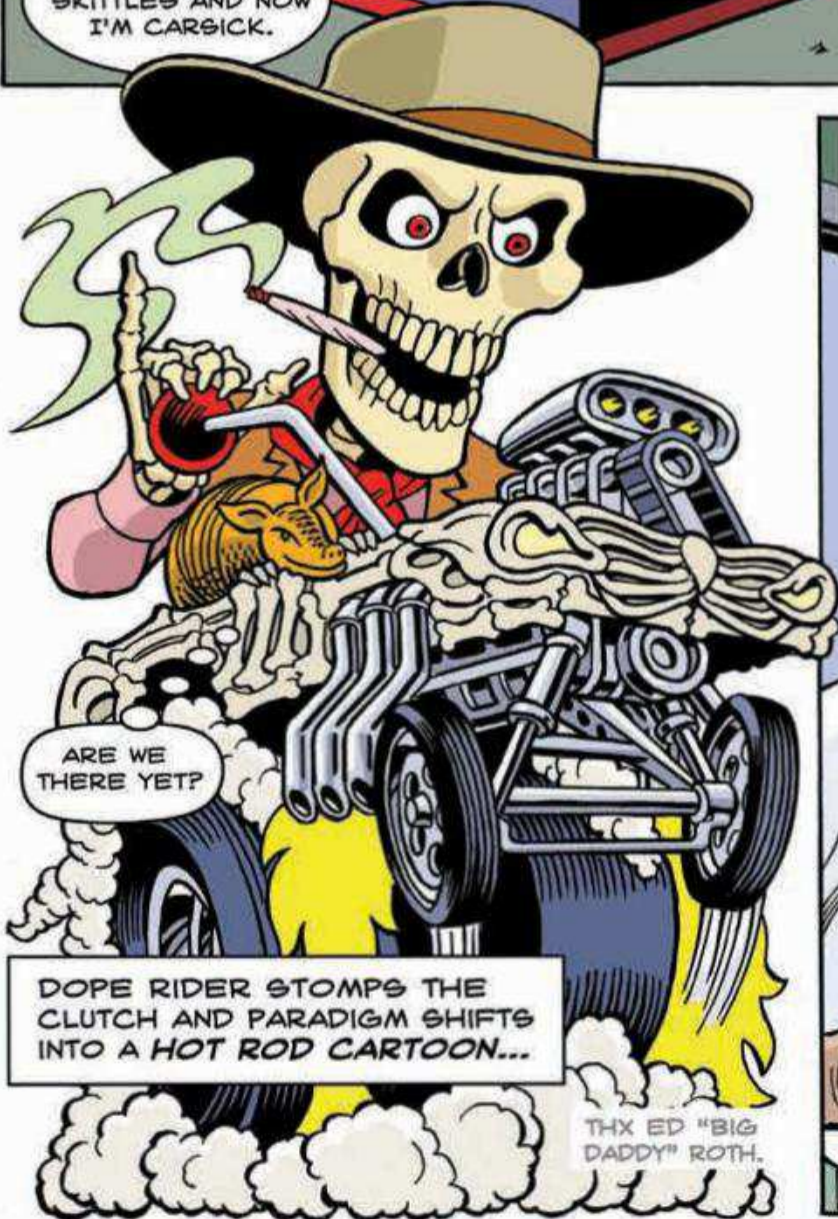
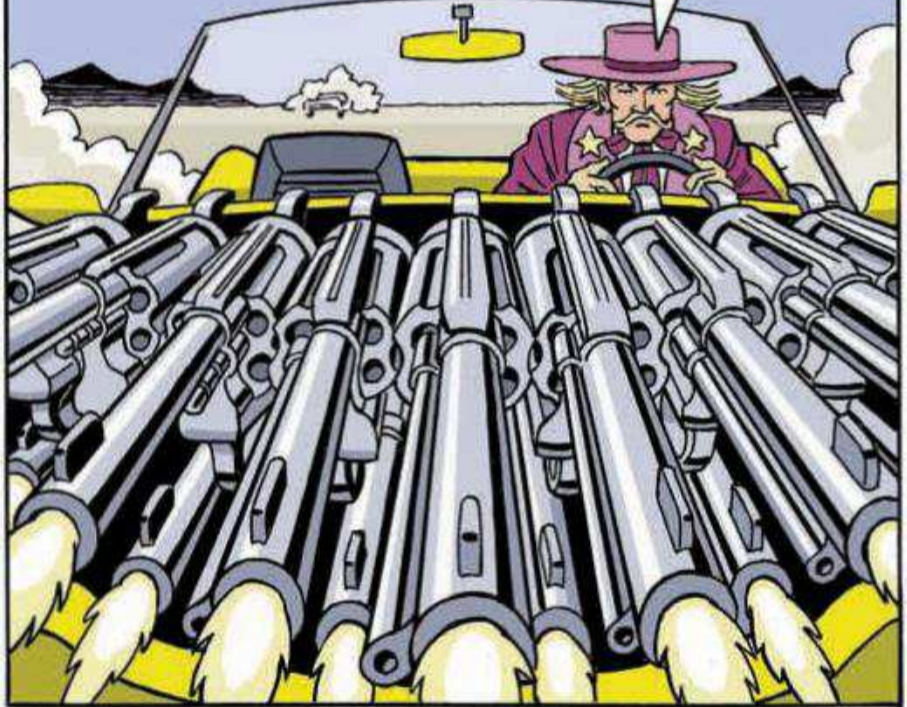
RACEWAY

FOR A FEW MOMENTS THEY'RE NECK AND NECK.

I ATE FLOOR SKITTLES AND NOW I'M CARSIK.

WILD BILL GUNS HIS ENGINE AND PULLS AHEAD.

EAT MY DUST, BONE DUDE!



ARE WE THERE YET?

DOPE RIDER STOMPS THE CLUTCH AND PARADIGM SHIFTS INTO A HOT ROD CARTOON...

THX ED "BIG DADDY" ROTH.

...ON THE T-SHIRT OF A TRUCKER AT A DINER NEAR ELKO, NEVADA.

IT'S ALL ABOUT THE HOT SAUCE.

GULP'n'GO DINER

OPEN 24

DRIBBLE SOME OF THAT CHILI ON ME, WILL YAP?

HOURS LATER, ON THE SALT FLATS.

WHERE IS THAT S.O.B.? WHEN HE GETS HERE I'M REALLY GONNA RUB HIS NOSE IN IT.

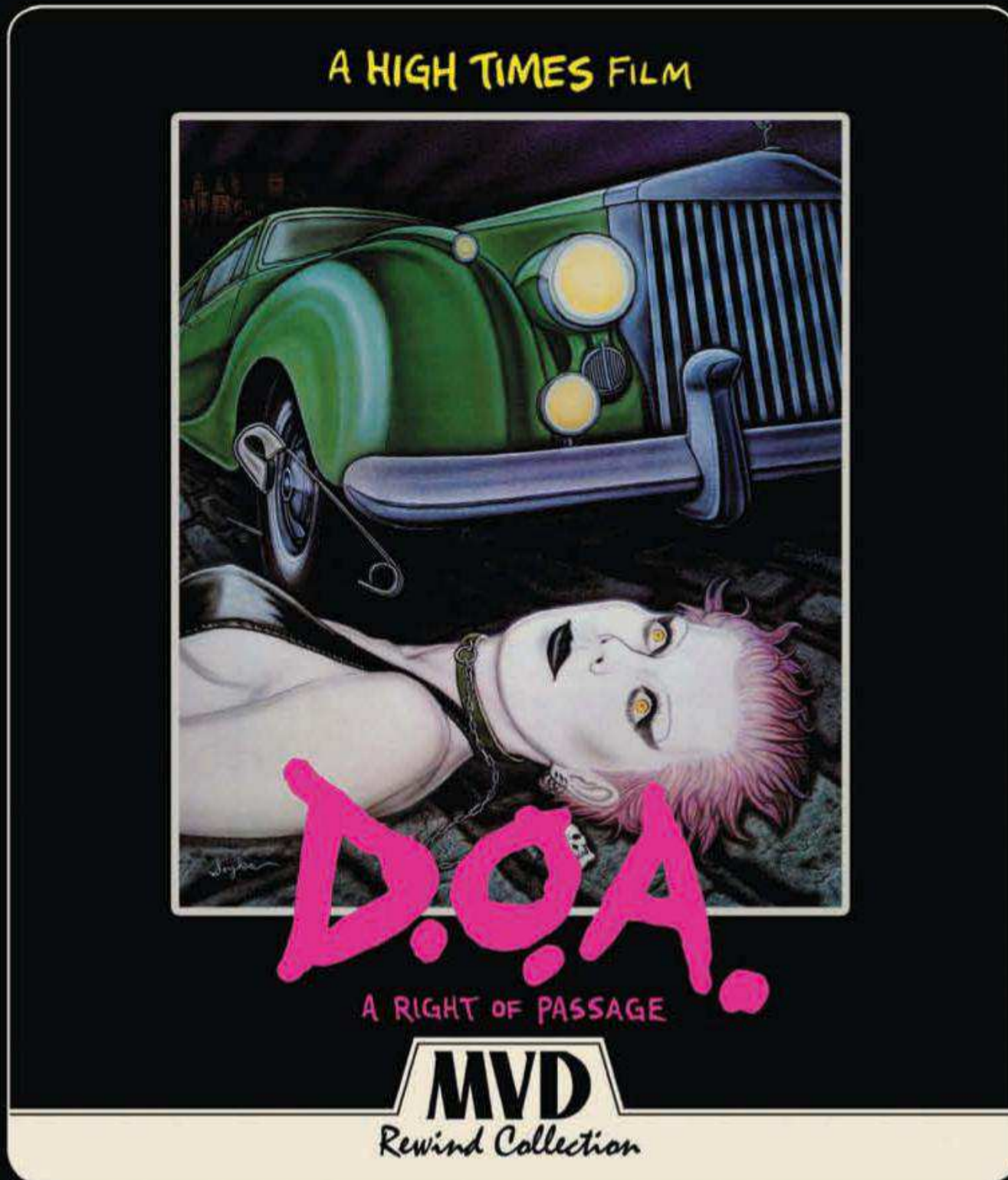
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"Dead On Arrival: The Punk Documentary That Almost Never Was" - A feature length documentary about the making of "D.O.A. A Rite of Passage" produced by award-winning filmmaker (and former MTV Senior Producer) Richard Schenkman (HD)

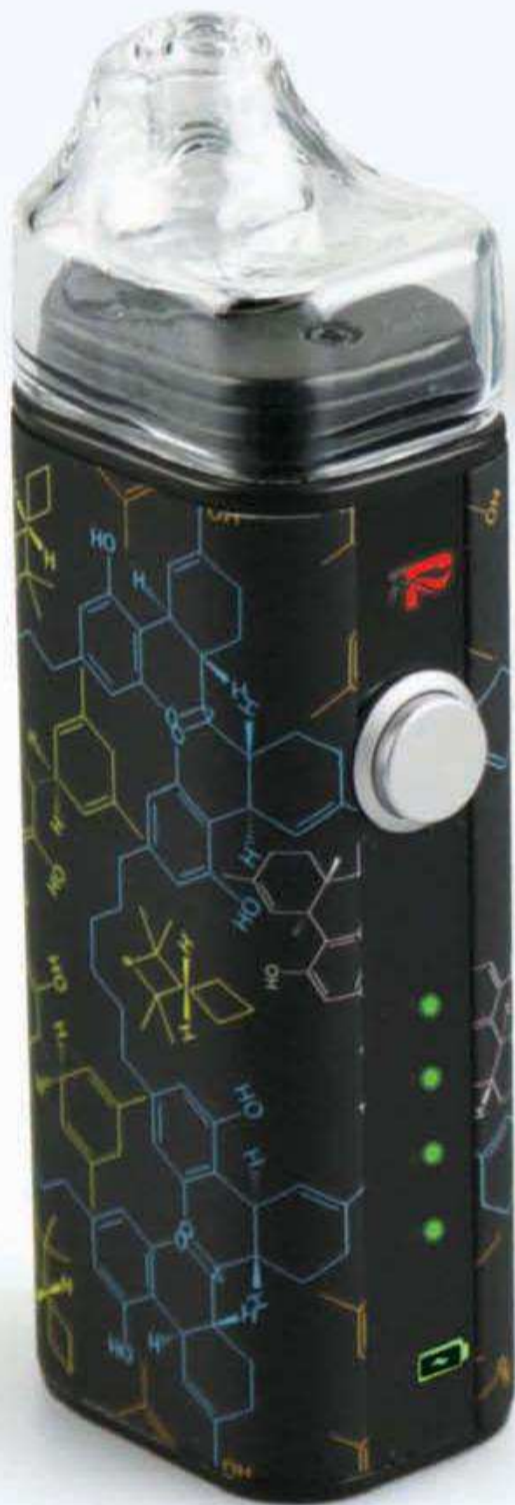
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VapeGossipGirl

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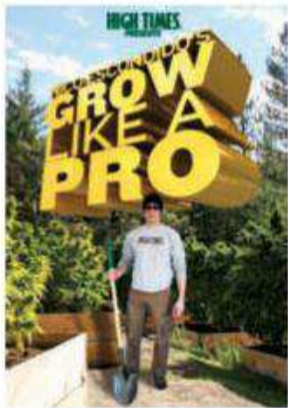
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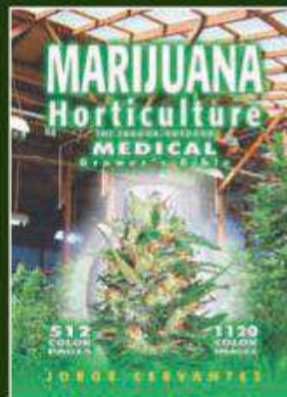


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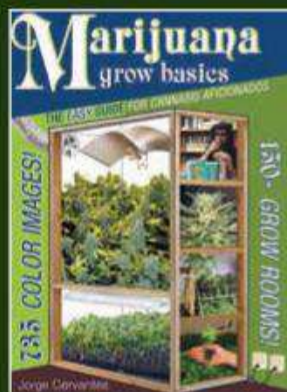
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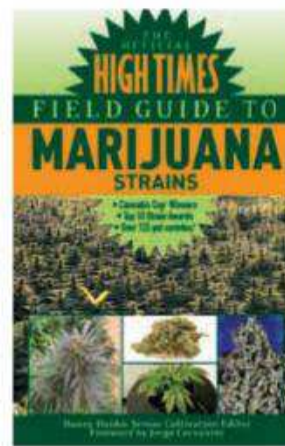


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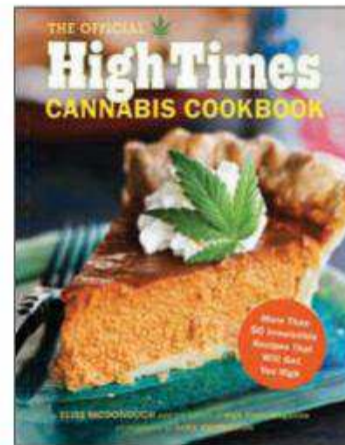


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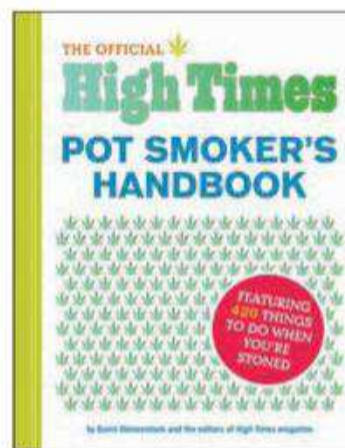
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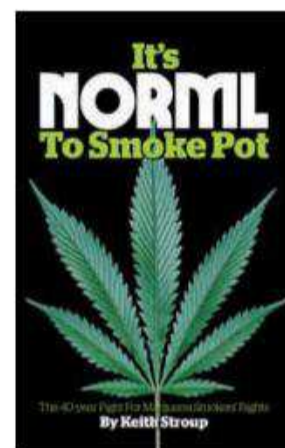
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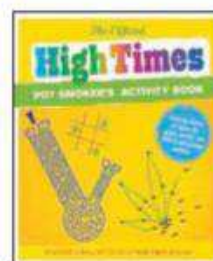
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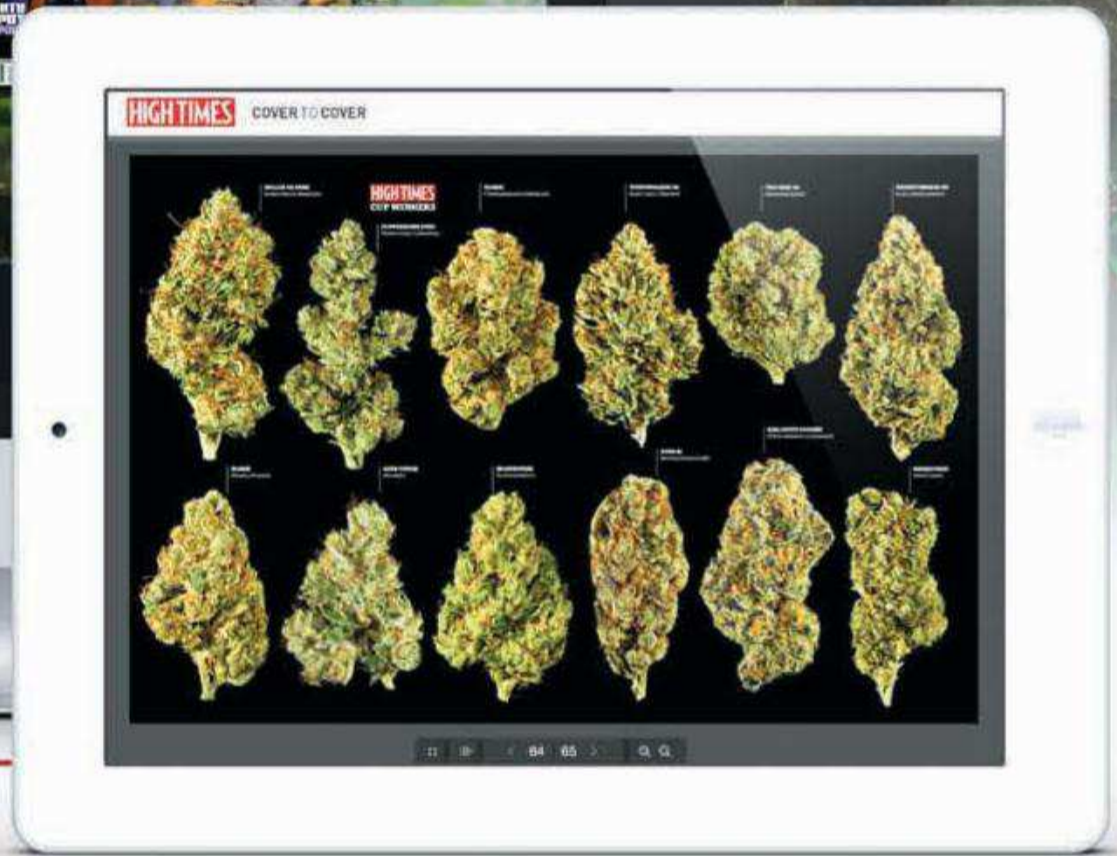
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