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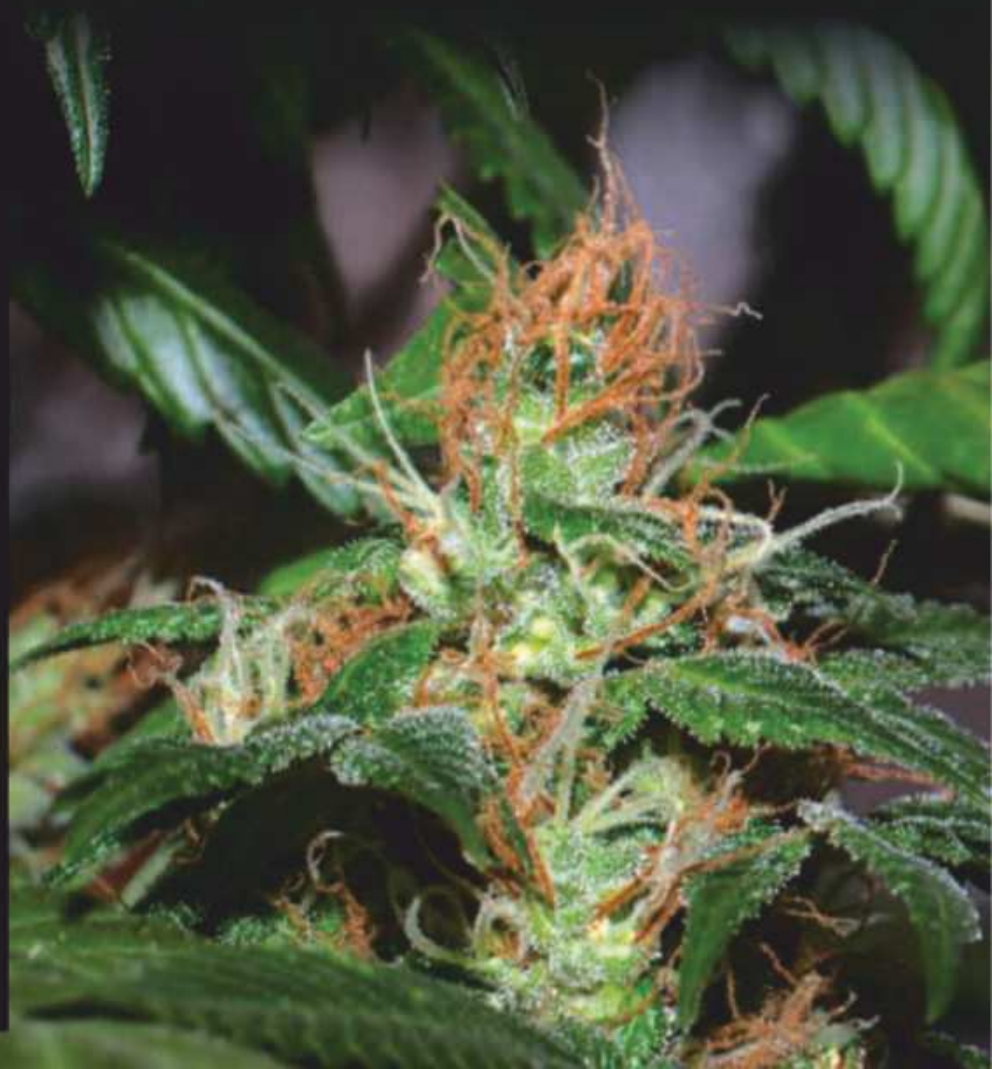
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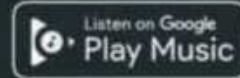
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HIGH TIMES JANUARY



WHEN FOLKS FIRST NOTICED THESE CONCENTRATES SEPARATING OUT IN SUCH A WAY, THEY FIGURED THEY WERE DEFECTIVE AND BREAKING DOWN. NOW WE CELEBRATE THIS SORT OF CONSISTENCY, KNOWING THE CRYSTALS ARE CONCENTRATED THC-A FLOATING IN A SYRUPY STEW OF TERPENES.

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Cannabis concentrates have come a long way in a short time. Get an insider's view on the state of concentrates as well as the most popular extraction methods currently on the market. *By Dave Malone*

54 TIPS ON ORGANIC GROW MEDIUMS

Healthy roots lead to stronger plants and the medium you choose can improve essential oil production. We reveal the best clean and green options. *By Stoney Tark*

64 MOB RULES

Learn the intoxicating secrets of growing and smoking a powerful *indica* cannabis strain from legendary bud breeders T.H. Seeds called MOB or Mother of Berries. *By Green Born Identity*

76 REEFER MADNESS COMICS

We examine how cannabis was depicted in comics from the early days of prohibition in this excerpt that collected the best illustrated pot propaganda from the 1930s through the 60s. *By Craig Yoe*

88 MIDWEST CANNABIS CUP

High Times returns to Michigan to host an epic Midwest Cup. Check out all the highlights as well as the winning pot, hash, edibles and more! *By Ab Hanna*

96 AN INTERVIEW WITH RICHARD PRINCE

Renown artist Richard Prince has a new collection of drawings titled "High Times." Learn about his creative process and his new cannabis venture. *By Bill Powers*

HIGH TIMES.

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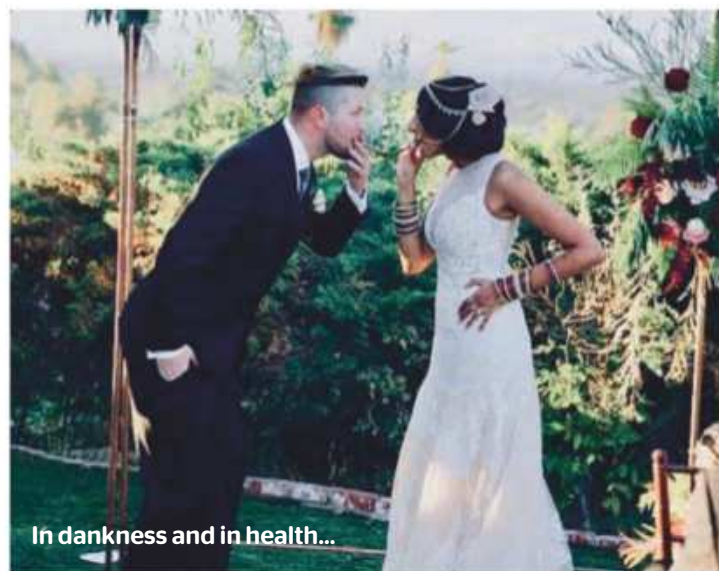
Scenes from Sin City

When Nevada voters approved recreational cannabis use in the Silver State in 2016, you knew Las Vegas would go big. Sure enough, the Strip did not disappoint, as dispensaries opened and exposed connoisseurs and novices alike to the best genetics the state had to offer. Now a new attraction has come to Las Vegas, the Cannabition Cannabis Museum. This immersive experience boasts

enormous buds and bongas as well as a slide that drops guests into a giant pool of nugs. But it's the museum's unique installations that truly make Cannabition worth a visit, as attendees can get a better sense of the history of pot—as well as cannabis culture—through photographic and interactive displays.

Among the many sights to see, Cannabition is fittingly displaying Hunter S. Thompson's 1973 Chevy Caprice, nicknamed the Red Shark. This was the car Thompson actually owned, and which was used in the filming of *Fear and Loathing in Las Vegas*.

Cannabition's owners hope to incorporate a social consumption aspect to the venue—as soon as the law allows. In the meantime, head to hightimes.com to learn more about the Cannabition Cannabis Museum.



In dankness and in health...

HOW TO THROW A WEED WEDDING

Cannabis is becoming more widely accepted—legalization now enjoys the support of most Americans—and, as a result, marijuana weddings are more popular than ever. For some couples, cannabis plays an important role in the relationship. So why shouldn't their wedding also celebrate the sacred herb? If you're thinking about throwing a pot wedding, *High Times* has you covered. Check out our feature, "Here's What You Need to Know to Throw a Lit Weed Wedding," and your nuptials will truly be something to remember. Our article discusses how to handle non weed-friendly family members, appropriate venues and vendors, edibles etiquette and CBD options for less adventurous guests. So before you tie the knot, visit hightimes.com and learn everything you need to know to throw a great weed wedding.

ON INSTAGRAM

Check out these colorful offerings from the greenhouse of [@annunakigenetics](https://www.instagram.com/annunakigenetics). That's the hearty Frisian Duck up front, followed by Show & Tell #2, Spirit in the Sky "and two more Frisian Ducks in the back." Not a bad little room. We'd love to visit. Annunaki prides itself on its unique cultivars, and judging by this shot, they grow them out pretty well too. Give them a follow for more gorgeous ganja pics!



WE WANT TO HEAR FROM YOU!

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

@SteveTWeinstein: "Nothing's better than consuming cannabis that you created yourself!" Well said.

@bigsurdanapoint: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) So true. I'm sleeping fully through the night and feel rested in AM like I haven't in years. I'll use an edible or a cbd spray. I don't grind my teeth anymore, either

@colonialdude: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) Ted Nugent, nobody cares what you think.

@TexanDee: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) When I hear the word, the phrase DOPE, my mind goes to crack, meth, heroin...pot doesnt come to mind... I wish people would stop calling Cannabis that.

@silicavolcanosi: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) Agreed, my generation had the crying American Indian commercial about littering. Canoeing down a polluted stream. We were taught not to litter, and respect Mother Earth we only have this planet. Let's make it last.

@MasonTH72: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) Dosi-do has very quickly started to become my favorite strain! Tasty, wonderful effects! LOVE IT!!

@dtipp59: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) Nicotine is used and abused daily while marijuana has more positive effects than over the counter drugs so tell me why is this even a thought. FDA sucks!!!

@brittney5683: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) Id like to shrink down to ant size and crawl around in a pile of those nugs

@fey_gypsy_fae: [@HIGH_TIMES_Mag](https://twitter.com/HIGH_TIMES_Mag) I'm stuck with some indica. Soo sleepy. I need SATIVApower



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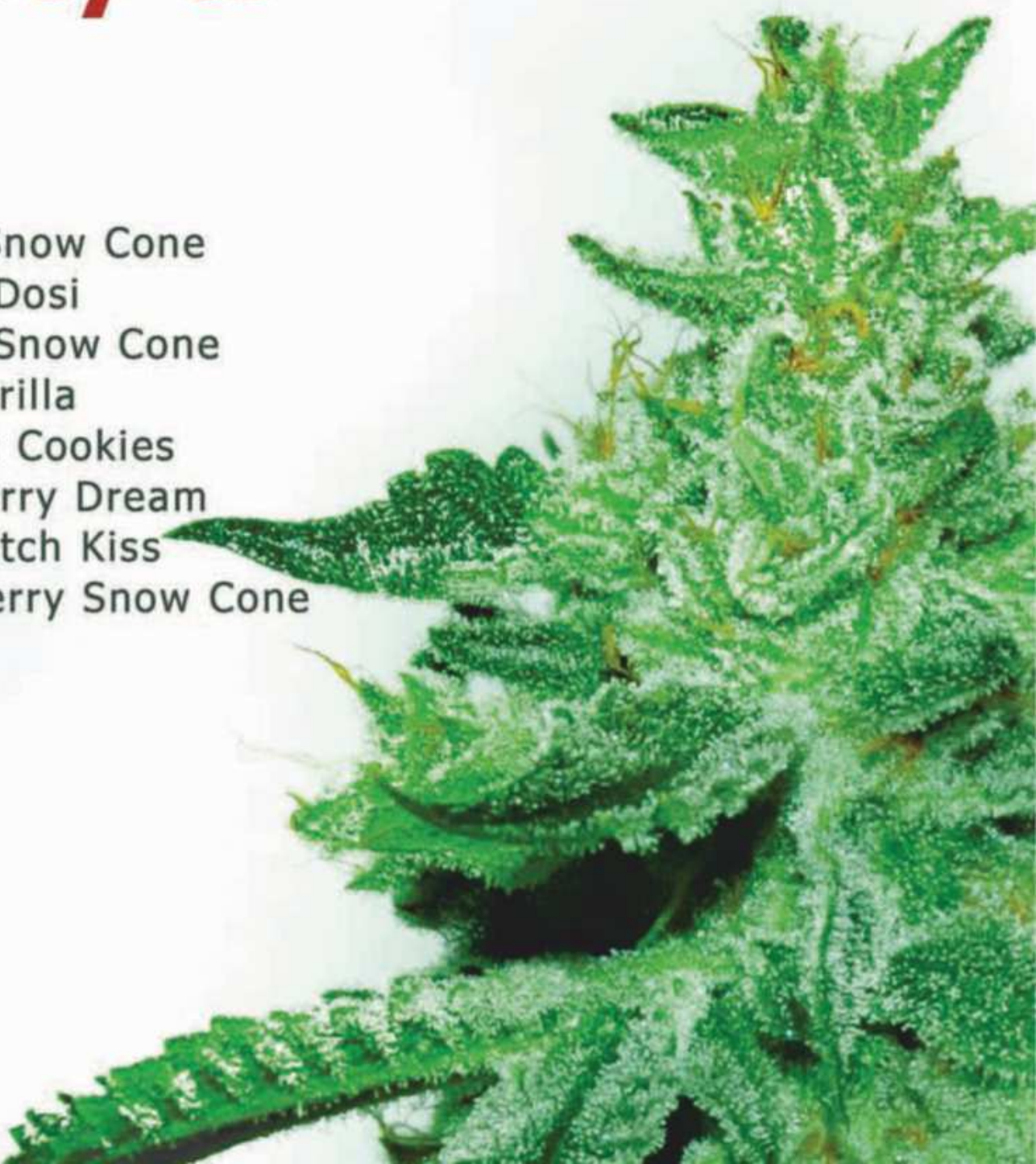
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DRAWN OUT

CANNABIS WAS MADE illegal in this country 81 years ago. This occurred, in large part, due to the efforts of one obsessed man, Harry Anslinger. His demonization of marijuana played on society's fears involving race, sex and madness.

While deeply disturbing, the propaganda Anslinger churned out was unquestionably effective. The narrative he created to get the plant banned (and keep it banned) remains with us to this day in people's perceptions of pot. For some, that's never going to change. It's why certain powerful people continue to work to undo the progress of marijuana-law reform that's been earned in increments over decades. It's why nationwide legalization always feels just out of reach even though it's never been more attainable.

Anslinger's depiction of marijuana lends itself perfectly to comic books, which are always looking for a good villain. This month, we're examining how pot was portrayed in comics during the early days of marijuana prohibition. We excerpt a new collection called *Reefer Madness Comics* that presents pot as the heavy from the 1930s through the '60s.

Also this month, we take a closer look at the strain MOB (a.k.a. the Mother of Berries) from legendary breeders T.H. Seeds, and we explore the options for growing mediums to help optimize your crop. Plus, Dave Malone from Green Dot Labs provides insight into the state of cannabis extracts, including popular methods like full spectrum, live badder and live rosin. And we revisit the high points from our recent Midwest Cannabis Cup in Michigan. Finally, we interview artist Richard Prince about his new exhibition, aptly titled "High Times."

For the last 44 years, *High Times* has doggedly endeavored to educate people about cannabis regardless of the political climate. And while we can't undo the damage done by Harry Anslinger, we'll never stop trying.

Enjoy the 516th issue of *High Times*.

Mike Gianakos
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RESTORE THE VIBES

I could go on for days and days about how politicians, the people that “know more than the rest of us” are uneducated buffoons. By “uneducated,” I simply mean they don’t make themselves familiar with the topics they are creating legislation for.

Pushing out small, passionate growers (the true connoisseurs) could be detrimental to the quality of cannabis in the future. Cannabis could easily end up like tobacco, with the adding of chemicals to make production cheaper. It could quite literally ruin the plant. Small mom and pop shops are what keep big business somewhat honest, forcing them to maintain quality (since quality is the only reason the small shops survive).

It is also our responsibility (as people who love cannabis) to stand up for the plant. Providing more accurate descriptions of what casual cannabis users are actually like, while using cannabis responsibly.

Weed isn’t divisive, but is actually known for bringing people together. Stopping this toxic leak of politics into something as natural as cannabis could be the savior to the mellow vibes this plant has been dispensing for thousands of years. I whole-heartedly believe that politics and legalization (at its current rate) is ruining cannabis culture.

Brian

420 FRAUD

My name is Carl McWatters Jr. and I can’t accept the story about how some guys got together and went to a cemetery to look for a lost map has anything to do with 420. Because myself and three other guys were on a construction site in Florida in 1976—please don’t ask me their names, because I am a stoner and that was many years ago. At 4:20, it was time to roll up the extension cords to get ready to go home. Being stoners, we decided one of us would go to the car and roll four joints for the trip home each day. 4:20 was the time to roll ‘em up and 4:30 was the time to fire them up.

We talked about the possibility that one day the saying, “4:20, time to roll ‘em up!” could be known worldwide. This was years before the other story. Just thought you might want to hear the truth about how this saying got started. I wish I could remember the other guys’ names, but they know who they are.

*Carl
Florida*



I BECAME AS LEGAL AS ANYBODY IN OHIO CAN BE. I’VE BEEN RIPPIN’ WEED EVERYDAY—AS MUCH AS IT TAKES TO RELIEVE MY PAIN AND BRAIN. NOW MY PAIN AND OTHER ISSUES ARE KEPT AT A MINIMUM THANKS TO MARIJUANA.

Sorry McWatters but the Waldos do remember the details of creating the 420 code. They have evidence supporting their involvement (which has been examined by *High Times*). And, most importantly, they began using the term in 1971—five years before you claim to have come up with it. Perhaps you and your coworkers heard it from them.

PAIN FREE

I’m a 63-year-old Marine Corps vet and retired fire fighter lieutenant in Toledo, Ohio. On September 18, 2011, on my last run of the day at 5:30 am, my crew and I responded to a house fire. After we put it out, a large section of roof fell across our fire hose. I had the crew from the truck and engine cut the roof into a smaller section to get at the hose. We just about had the roof flipped off when the hose kicked back and sent me flying into some rafters.

I had a nail about six inches long go through my bunker pants. It missed my manhood by millimeters. It was one of those things; you’re relieved about not being poked by the nail but then the

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adrenaline stops and the pain starts. The force of the push and the fall

spun me around and twisted my torso, neck and everything. I was wearing Bunker gear with an air pack, axe, helmet and a lot of water in the gear, about 80 lbs. total.

I went to the hospital after duty. The doc called my injuries strains and sprains. She failed to look any further into the cause of my pain. Multiple surgeries later, I’ve been put on opiates, muscle relaxers, anti-inflammatories and a host of drugs for anxiety, lack of sleep, anger and so on. After all these years the prescription drugs have taken their toll. Now here’s the rest of the story.

I had my first encounter with weed at the age of 16. My pals and I smoked some pot and went to see Black Sabbath. Wow! So back to the present, I went out and became as legal as anybody in Ohio can be. I’ve been rip-pin’ weed everyday—as much as it takes to relieve my pain and brain. Now my pain

and other issues are kept at a minimum thanks to marijuana.

I can’t overdose on weed. My liver and kidneys are happy now. I don’t—for the lack of a better word—bitch nearly as much and life in general is better now.

*Joe
Toledo, OH*

STRAIN SELECTION

Love your annual Top 10 Strains feature. I look forward to it every December. While it’s great to learn about the year’s highlighted strains, I never really understood how they get picked. Is there a vote that I’m unaware of?

*Lucy
Wisconsin*

The Top 10 Strains of the year are selected by the *High Times* staff based on extensive field research (it’s a tough job). We look for what’s popular in a given year—at Cannabis Cups, at dispensaries and at seed banks—and try to include some lesser-known genetics that deserve to be acknowledged.

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Sour Sorbet

Sour Diesel x Sorbet



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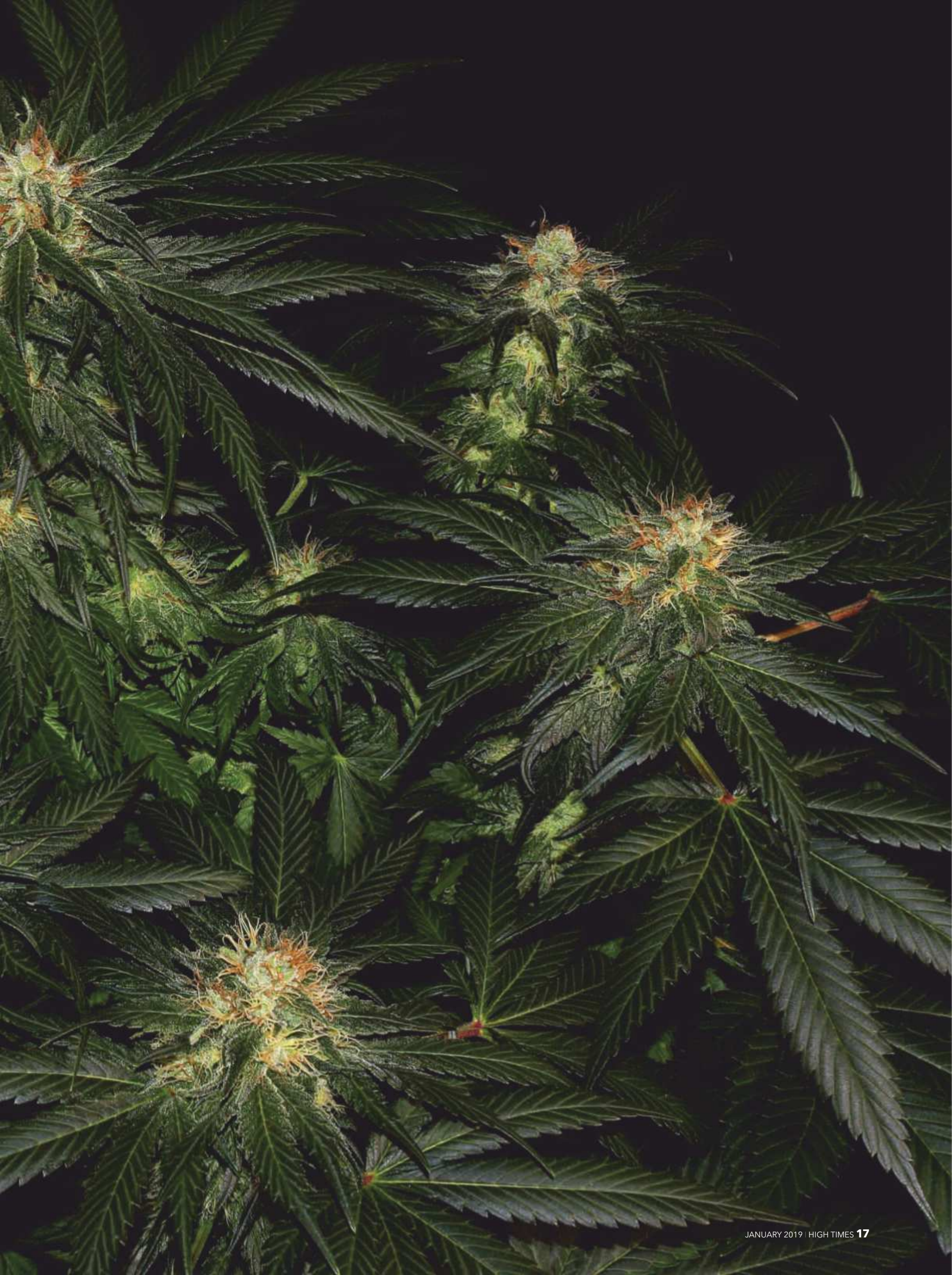
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MOTHER OF BERRIES Nothing beats a potent *indica* strain when it comes to relieving stress and treating insomnia. Learn all about the growing stats and potent effects of MOB from T.H. Seeds on page 64.
Photo by Green Born Identity (G.B.I.)







THE STATE OF CANNABIS EXTRACTS In a relatively short period of time, concentrates have changed the cannabis world. We take a closer look at the evolution of extracts and examine popular methods like full spectrum, live badder and live rosin on page 44. *Photo courtesy of Green Dot Labs*

**CONTACT
HIGH**

LATE SUMMER MIDWEST CANNABIS FEST Marijuana enthusiasts converged on the Auto City Speedway in Clio, Michigan to celebrate all things cannabis at the Midwest Cup. Attendees sampled fire strains and extracts and were treated to performances by Insane Clown Posse and Nas. Check out the Cup highlights, and all the winning pot, hash, edibles and more on page 88. *Photo by Jesse Faatz*





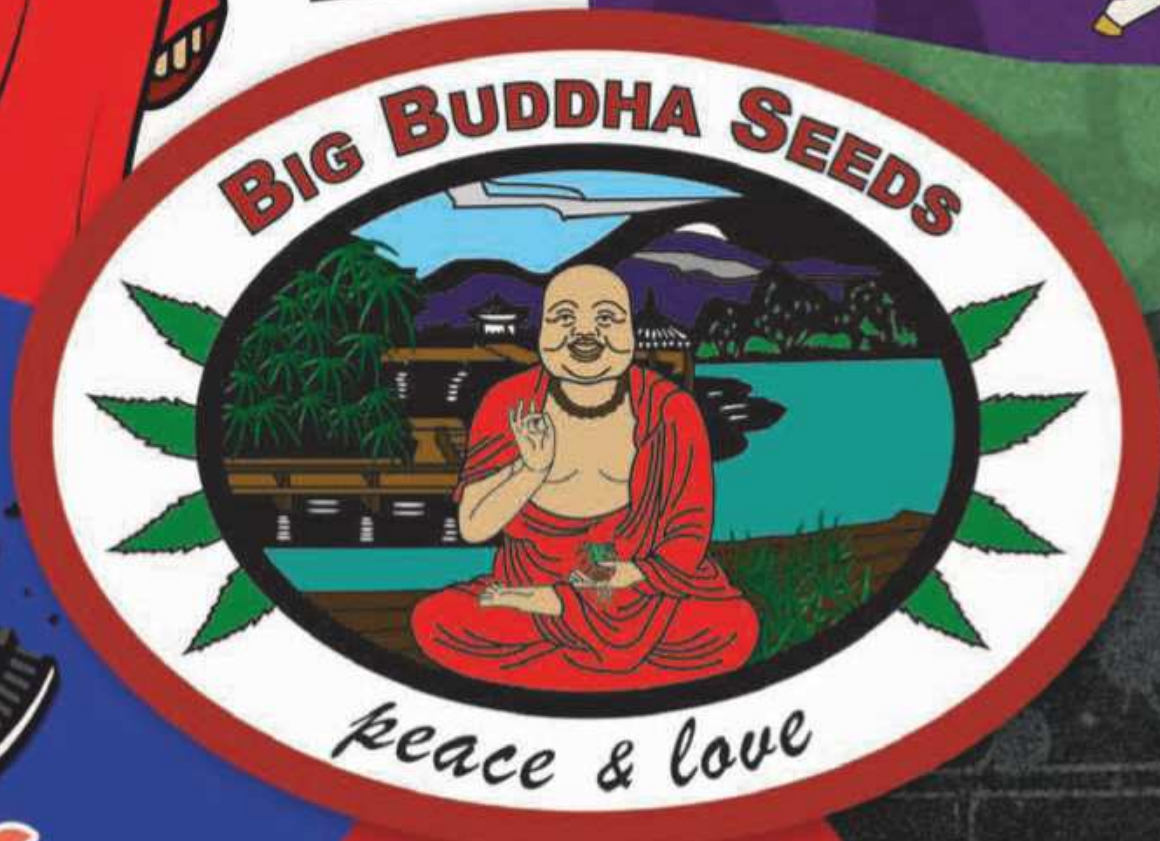
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HIGHWITNESS NEWS

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NEWS

OCTOPUS ECSTASY

Researchers gave octopuses MDMA for science. Surprisingly the sea creatures tripped out. p.26



ENTERTAINMENT

YOKO ONO

The 85-year-old icon is back with a new album as she takes on activism in the digital age. p.34



Seniors
smoke... and
vote.



THE GRAY REVOLUTION

OLDER AMERICANS ARE CONSUMING WEED IN GREATER NUMBERS. THIS GROWING, GRAYING POPULATION HAS GOT THE ATTENTION OF CANNABIS COMPANIES AND POLICYMAKERS—AND IT'S SHAPING THE STATE OF THE GREEN. BY MIKE DIPAOLO

BOOMERS LIKE CANNABIS. We know, from multiple studies on the subject, that Americans over 50 are enjoying the green in increasing numbers, but we don't yet know precisely how this growing demographic is influencing the marijuana industry or policy.

In one study, researchers from New York University's Division of Geriatric

Medicine and Palliative Care analyzed drug-survey responses from more than 17,000 American adults over 50 years old. They found that around 9 percent of codgers between 50 and 64 used marijuana in the past year, while 3 percent over 65 blazed (or, more likely, munched). A 2013 survey reported that 1.4 percent of those 65 and older had consumed cheeba in

the previous year. In other words, the number of older users doubled in less than four years.

The NYU researchers also found that old stoners had a higher propensity, compared with their non-stoner peers, to go for other substances, such as tobacco, booze, coke and opioids. "Marijuana use is becoming more prevalent in this population," the study concluded, "and users are also at high risk for other drug use." Given this proclivity, the researchers recommended that doctors and other clinicians screen and educate older patients who use pot with other drugs.

"The baby boomer generation grew up during a period of significant cultural change, including a surge in popularity of marijuana in the 1960s and 1970s," the lead author of the NYU study, Dr. Benjamin Han, said in a statement. "We're now in a new era of changing attitudes around marijuana, and as stigma

declines and access improves, it appears that baby boomers—many of whom have prior experience smoking marijuana—are increasingly using it."

What to make of all these OGs blazing? Legalization has no doubt encouraged seniors to give the stuff a try—whether it's recreational or medical access—and about a quarter of the over-65 set who consume say they did so after consulting their doctor.

In another study, investigators at the University of Florida analyzed 18 peer-reviewed studies looking into cannabis-use patterns among the over-50 age group published between 2000 and 2017. They found that use among seniors shot up by over 70 percent between 2006 and

« 2013, and that “a larger proportion of adults in the older adult population used marijuana medicinally in contrast to recreational use.”

The medicinal benefits of the magic plant are particularly suited for ailments common among the elderly, such as arthritis, joint disorders, nerve damage and other age-related sources of chronic pain. While seniors are at least familiar with cannabis, having smoked as youngsters back in the day, nearly half of the over-65 set say they got started after the age of 21.

These graying stoners are influencing what kinds of products are stocked on dispensary shelves, as well as how they are presented. “The big changes that come with legalization mean that many more kinds of products are available to seniors who might not want to use inhalants—topicals, edibles and so on,” says Linda Gilbert, managing director of consumer insights at BDS Analytics. “One challenge [for marketing to seniors] is going to be things like child-proof packaging, which is required by law.”

Yes, I have seen an older person take a screwdriver to a child-proof jar of wax, or

BESIDES THE MARKETING APPLICATIONS FOR THE OLDER CROWD, WE SHOULD PAUSE TO CONSIDER THAT SENIORS LOVE TO VOTE, MORE SO THAN ANY OTHER DEMOGRAPHIC.

struggle to read the microscopic print on a vaporizer. It ain't pretty. (Full disclosure: I am that older person.) Gilbert is sympathetic: “Nothing says ‘you're old’ like having to take off your glasses and outstretch your arm to try to read the fine print on a label.”

It's true that seniors are turning to cannabis for medicine, but that's not the only reason. “It isn't always about the medical benefits,” agrees Gilbert. “We find that there are some older people who are rediscovering cannabis as a way of bonding with their adult children, for example.”

The industry is taking notice of the growing demographic. To cite just one example, Canopy Growth Corporation just announced that its subsidiary Spectrum Cannabis will team up with the Ontario Long Term Care Association to study long-term medical care geared toward seniors. Among other things, the

study will be “evaluating quality of life, clinical outcomes, caregiver stress and the economic and humanistic benefit of cannabis adoption for residents,” according to a company statement. (Not for nothing, but the company's stock jumped more than 3 percent immediately following the announcement.)

Besides the marketing applications for the older crowd, we should pause to consider that seniors love to vote, more so than any other demographic. If the growing acceptance and embrace of the herb coincides with an influential chunk of the electorate, we can expect to see ever more movement toward full legalization.

Gilbert envisions the implications of a gray-power movement: “I would love someone to draw a cartoon that shows seniors beating Jeff Sessions with their walkers, to get him out of the way of their marijuana.”

We'd love that too. 🌿

HIGH FIVE BY FRANK GREGORY

UNDERSTANDING TERPENES

CONCENTRATES PLACE AN EMPHASIS ON THESE ESSENTIAL OILS THAT AFFECT YOUR HIGH.



PINENE

This terpene, found in the oils of pine trees and a number of herbs like rosemary, is a bronchodilator, meaning it allows for larger inhalations, making it ideal for treating asthma. Pinene easily crosses the blood-brain barrier and has shown potential for increasing alertness, focus and memory retention. It also counters the short-term memory issues associated with pot. These qualities suggest it could be useful in the clinical treatment of Alzheimer's disease. Thanks to its pine aroma, this terpene is easy to identify in cannabis strains.



MYRCENE

In addition to cannabis, myrcene is found in hops, lemongrass, mango and thyme. Myrcene is best known for its sedative effect—it's what contributes to the “couchlock” or body-buzz feeling of certain strains. It's myrcene's interactions with cannabinoids that are of interest. The terpene acts as a “synergist” of THC—when it combines with the THC molecule, it produces a stronger effect, in part because it allows more THC to reach brain cells. Myrcene helps treat insomnia, pain and inflammation.



LIMONENE

As its name indicates, limonene is found in the peels of citrus fruits and is most associated with a strong lemon-lime or orange aroma. Limonene is a popular cannabis terpene, and its effects include increased alertness (and sometimes restlessness). It has also shown potential for combating breast cancer. Limonene is prevalent in classic cannabis strains like OG Kush and Sour Diesel. It is also used as a flavoring in foods and beverages as well as a solvent in cleaning products.



CARYOPHYLLENE

Caryophyllene, known for its spicy, peppery aroma, is one of the most common terpenes found in cannabis. It can also be found in black pepper, clove, cotton and green vegetables. It is present in approximately 80 percent of cannabis strains and plays a major role in the entourage effect. Caryophyllene has shown potential in treating autoimmune diseases and inflammation. However, it does not appear to have psychoactive effects. It is, unfortunately, the key component that drug-sniffing dogs use to identify cannabis.



LINALOOL

Linalool provides a dramatic floral aroma. It's prevalent in lavender oil, and it's best known for its sedative properties. Thanks to its ability to affect serotonin receptors, linalool is helpful in the treatment of anxiety and depression. It's also useful in combating insomnia. Linalool's medicinal properties point to its potential to help treat several types of cancer. It is also a beneficial component of topicals used to treat skin conditions and reduce scarring. Interestingly, linalool is also an effective insecticide.



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OCTOMOLLY

When scientists analyzing the octopus genome learned that our eight-footed friends have genes that code for serotonin-transport mechanisms, they proceeded with the only logical step: dosing them with ecstasy. Gül Dölen, a neuroscientist at the Johns Hopkins University School of Medicine, and colleague Eric Edsinger submerged five octopuses in an MDMA solution, which the beasts absorbed through their gills. The normally reclusive animals cavorted within the tank and explored one another, getting all touchy without any typical aggression. The feel-good affect was somewhat surprising, since the brains of these critters are so different from a human's. "An octopus doesn't have a cortex, and doesn't have a reward circuit," Dölen told *Gizmodo*. "And yet it's able to respond to MDMA and produce the same effects, in an animal with a totally different brain organization." Such a small sample calls for expanded study. We look forward to reports on more raves under the waves.

COKE BUMP

When *BNN Bloomberg* reported that Coca-Cola was in "serious talks" with Aurora Cannabis Inc. to develop cannabis-infused beverages, it sent excited shivers down the spines of investors the world over. With word that the planet's largest beverage company, home to more than 500 brands, was getting in on the green revolution, shares of Aurora popped, jumping 16.86 percent—or \$1.44—to close that day's trading at \$9.98, while Coca-Cola's stock bumped up 0.72 percent to \$46.32 on the New York Stock Exchange. Coke, while not commenting on the details of the deal, emailed a somewhat buzzkilling statement to *BNN* to clarify: "We have no interest in marijuana or cannabis. Along with many others in the beverage industry, we are closely watching the growth of non-psychoactive CBD as an ingredient in functional wellness beverages around the world. The space is evolving quickly. No decisions have been made at this time."

INSIDE
THE WIDE
WORLD OF
WEED

Toke, tweet, retreat.



BILLIONAIRE TROUBLE

"I'm not a regular smoker of weed," said Elon Musk, CEO of Tesla, moments before taking a hit off a joint with comedian Joe Rogan during the latter's podcast. Musk may be a neophyte with pot, but what he really needs to work on is his Twitter. When the CEO tweeted that he was "considering taking Tesla private at \$420" (a figure calculated in part by its cannabis connotation), the Security and Exchange Commission pricked up its ears and sued Musk for misleading investors with false public statements. In a relatively quick settlement, Musk was fined \$20 million and Tesla fined another \$20 million. The irregular weed smoker was also put into timeout for three years—allowed to stay on as Tesla's CEO but banned as its board chairman. He will have the opportunity to resume the chairman role if elected after that. Shortly after news of the settlement broke, Musk tweeted "Naughty by Nature," adding a winking emoji.



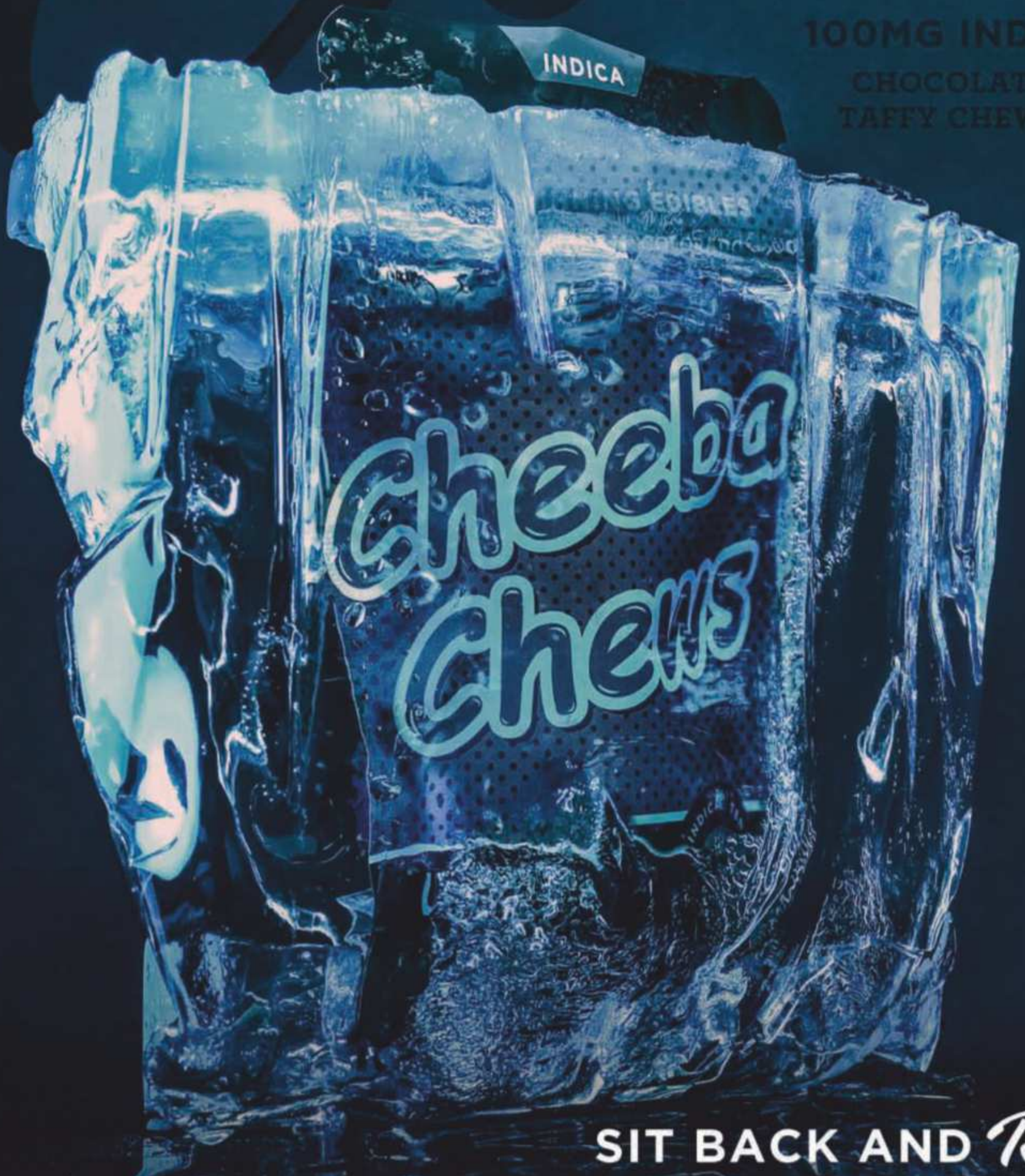
a weapon in Canada) at the two store employees. "They were met with great resistance by the store clerk... despite being sprayed with Bear Spray," according to a Tyendinaga Police Service report. Indeed, that great resistance is recorded on the shop's security camera, which shows the male clerk charging into the clouds of spray armed only with a large glass bong, which he brandished like a club until the hapless crooks turned tail and fled the scene. As of this writing, police were still seeking the robbers. You can watch it all go down on YouTube; look for "Man Fights Off 4 Bear Spray Wielding Attackers During Cannabis Store Robbery."

BONG HIT

In a move that Batman would appreciate, a Canadian pot-shop worker thwarted a robbery attempt with bravery and resourcefulness. Three masked intruders burst into the Recreational Cannabis Farmers Market in Shannonville, Ontario, spraying bear mace (which is apparently considered

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SEA TREASURE

As Hurricane Florence made its approach to the Florida coastline in September, it brought with it more than just high winds and heavy rain. A number of coastal communities were also treated to giant bales of weed, washed ashore from God knows where. Beachgoers in Flagler, St. Johns and Volusia counties reported sightings of the canna-bales; in Flagler alone, an estimated 100 pounds of pot were recovered, unfortunately by local law enforcement. Police competed with beachcombers for the free weed, arresting at least one gent, 61-year-old Robert Kelley, who the cops said failed to report an 11-pound icky brick he'd picked up and stashed in his truck. Flagler cops also used Facebook to seek information on a woman who'd been photographed arm-deep in a beached bale. Meanwhile, surfers in Volusia reported to the police their sighting of the dank flotsam between the waves, which undermines everything we thought we knew about surfers.

CLOTHES FOR DRUGS

Swedish sportswear brand Björn Borg has launched a campaign that links working out with catching a buzz. Its "Chasing the Exerhighs" is pushing the idea that intense exercise can lead to euphoric bliss because mind-pleasing substances are released in the brain when the body has a strong workout. "When working out, your brain releases serotonin, dopamine and endorphins," says the company's pitch, adding that "these neurotransmitters are the same that are affected by the most happy drugs." The company brought the far-out campaign to Amsterdam recently with a pop-up store that offered customers a chance to acquire limited-edition Björn Born clothing in exchange for their drugs. Shoppers could swap weed, painkillers or other goodies for sportswear pieces featuring illustrations by Patrick Saville, whose retro '70s-style artwork harkens back to trippy places of its own. There were some takers, after which the company disposed of the unorthodox currency irresponsibly, by burning it up.

Kristen Bell is smoking.



BELL OF THE BONG

Actor Kristen Bell likes her some occasional weed, and that does not present a problem at all, even when partnered with 14-years-sober fellow actor Dax Shepard. "I like my vape pen quite a bit and I smoke around my husband. It doesn't seem to bother him," she said on a recent episode of the podcast *WTF With Marc Maron*. "Weed rules." Indeed, it does. Shepard, for his part, has come a long way since his partying days, when he "just loved to get fucked-up," as he told *Playboy* in 2012. "Drinking, cocaine, opiates, marijuana, diet pills, pain pills, everything." Now, says Bell, although Shepard is off the stuff, he does encourage his friends to experiment with mind-altering wares, believing that people "shouldn't leave this earth without having tried mushrooms or ecstasy." The couple might accommodate their friends with a party at which they will "just give everybody really good ecstasy and just have us all braid each other's hair or something."



Amicus reef

CONNECTICUT DANKEE

A federal court in Connecticut came through for a medical-marijuana user when it found for the plaintiff, therapist Katelin Noffsinger. In 2016, Noffsinger filed an employment-discrimination lawsuit against Bride Brook Health and Rehabilitation Center, which had rescinded its employment offer to her after she tested positive for cannabis on a pre-employment

drug test. Fortunately for Noffsinger and all medical-pot patients in the Nutmeg State, the Palliative Use of Marijuana Act of 2012 has built-in employment protections for cannabis patients. You can't medicate at work, but off-hours consumption by certified patients is protected. Bride Brook tried to invoke the federal Drug-Free Workplace Act to justify its discrimination, but District Court Judge Jeffrey Alker Meyer wasn't having it. "The DFWA does not require drug testing," Meyer ruled. "Nor does the DFWA prohibit federal contractors from employing someone who uses illegal drugs outside of the workplace, much less an employee who uses medical marijuana outside the workplace in accordance with a program approved by state law."

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COLD FRONT

UNREPENTANT DANISH ROCKERS ICEAGE GO BEYOND THEIR POST-PUNK ROOTS. BY CHRIS PARKER

"I DON'T REMEMBER us ever really thinking that we were going to America, touring the land, living the dream. That wasn't really our mind-set," says 26-year-old Iceage singer/guitarist Elias Bender Rønnenfelt. "We were fairly arrogant, so when suddenly we could go to Kansas City and there would be some kid that related to what we were doing, it was just like, 'Yeah, of course, why shouldn't he?'"

We'll never know the relationship of Iceage's brash assurance to their critical success (contributor? byproduct? both?), but 10 years in, the Danish post-punk quartet still possess an indomitable confidence and equal sense of adventure. Their first three albums received nominations for IMPALAs (Independent Album of the Year Awards) in Europe, and judging by the reception for their latest, *Beyondless*, they'll extend that streak.

Beyondless's release in May 2018 ended a four-year recording hiatus—more time than it took

to make the band's first three albums—but it repays fans' patience with grimy guitars searing in succulent hooks, ladled over with Rønnenfelt's sneering vocal insouciance. Initially fueled by punk fury, Iceage's instrumentation and tone widened significantly over the years.

Rønnenfelt, guitarist Johan Suurballe Wieth and drummer Dan Kjær Nielsen were outsiders at the same school in Copenhagen before forming a fast bond. "Before we even met each other, we eyed each other out and could sense there was some belonging there," Rønnenfelt says. "Eventually, we got the courage to speak to each other, and we've never really been separate since."

Bassist Jakob Tvilling Pless was a friend of a friend. When they first met, Pless followed Rønnenfelt to a soccer cage for a game involving a BB gun and a bicycle. "We would take turns," Rønnenfelt offers, not quite sheepishly. "One had to take the bicycle and ride around the course, and the other

one had to shoot at them."

Pless lived in the basement of a church, where they'd often hang. It was home to a drum set the family didn't want their son playing in their house, and later a guitar and amplifier.

"Just by chance we had a bunch of gear lying around," Rønnenfelt recalls. "Out of boredom, we started playing around with it without ever having any deliberate plans to start a band, and suddenly we had one."

Pless recalls how baked they used to get before shows in those early years in their late teens. "I saw a review of a show we played," he says, "possibly the first review of an Iceage show ever written. This English journalist wrote something like, 'I saw the drummer and bassist in an alley

next to the venue smoking a large pipe-like object and I've never seen such stoned faces on a stage.' That was the review."

Their more dynamic sound is an outgrowth of broad tastes and increased studio comfort, but they've always liked rich soundscapes. "The marriage between drums, guitar, bass and more orchestral elements is something we've always been attracted [to], whether it's been Serge Gainsborough or Isaac Hayes, Scott Walker or all those '70s singer/songwriters," Rønnenfelt says.

"We're a rough band. We have the kind of sound that we have, and we're not trying to find a generic angle to attack things," he continues. "We don't strive for perfection. We strive for soul or a take that has some sort of gravity or brokenness in it. I don't think that's what everyone goes for." ✨

Iceage return with a new studio album, *Beyondless*.



SPARTAN SCRIBE

Rønnenfelt wrote *Beyondless* atop a Copenhagen tower, with nothing in the room. "A big part of [writing] is being in a place where you don't have options for procrastinating," he says.

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WOMAN POWER

YOKO ONO MARVELS AT THE LASTING INFLUENCE OF "IMAGINE" AND EXPLAINS HOW WE'RE ALL LIVING IN A WAR ZONE. BY KYLE EUSTICE

YOKO ONO FACED an unimaginable tragedy on December 8, 1980, when she saw her husband, John Lennon, gunned down in front of their home at the Dakota in New York City. Thirty-eight years later, Ono is still intent on keeping Lennon's legacy alive.

On October 9—what would have been Lennon's 78th birthday—his iconic 1971 solo work *Imagine* received a six-disc box-set treatment, and Ono was "involved in all aspects."

The 85-year-old finally received co-writing credit for the title track from the National Music Publishers Association (NMPA) last summer. It was an oversight Ono admits stemmed from Lennon's once-frail male ego.

"I was amazed [to get co-writing credit] because most songwriters never want to do that," Ono tells *High Times*. "John gave me the credit quietly in the beginning, but he came out and said [in 1980], 'I didn't give her credit because I was a macho guy,' or something like that. I thought that was very sweet, cute and courageous."

With that behind her, Ono is currently focused on promoting her 21st album, *Warzone*. Much like her and Lennon's 1969 bed-ins for peace, Ono is continuously motivated to bring awareness to certain sociopolitical issues—one of the reasons she named the project *Warzone*.

"I wanted people to focus on what was happening in the world, and also I felt that it was very important for me to bring this record out quickly because every day something is happening," she says. "It's really as if we are living in the war zone. There are so many things that I have

"IT'S REALLY AS IF WE ARE LIVING IN THE WAR ZONE. THERE ARE SO MANY THINGS THAT I HAVE TO DO NOW. I DON'T HAVE TIME FOR NEGATIVITY."

to do *now*. I don't have time for negativity."

Although Ono says some of the "most interesting" things in her life were learned during World War II, she takes cues from millennials and is still crying out for peace.

"My idea is very similar to the children of today," she explains. "People think of children as still not grown-up people, but this time, the children are extremely

intelligent. You have to ignore the fact that you are in a turbulent time and just go on walking, peacefully."

Ono took a raw, minimalist approach to the 13-track album and revisited original songs she wrote between 1970 and 2009. In fact, it closes with Lennon's magnum opus, "Imagine."

"I wouldn't put something out that may bore you," Ono promises. "I've been through the nervousness so many times [prior to album releases], so 'let it be' is how I feel."

And she's right—Ono's music is anything but boring. While her voice isn't conventional by any means, she manages to give every word she utters power simply by the way she speaks it. The less-is-more approach puts a sense of urgency on every syllable whether she's singing about oppression or political tyranny.

When it's suggested she's a New York City icon, she humbly replies, "Icon? That doesn't sound right to me. I'm just a woman with plenty of experience." ✨



Undeniably iconic



THE BALLAD OF JOHN AND YOKO

Yoko Ono moved to NYC in 1953 to pursue an art career. After meeting John Lennon in London in 1966, the couple eventually married and she went on to make six albums with him, culminating with 1980's *Double Fantasy*.



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BATTLE THE DRAGON

THE NEWEST VERSION OF THE JAPANESE-FOLKLORE CLASSIC IS A VISUAL TREAT.

FIRST RELEASED IN 2006 at the tail end of the PlayStation 2's life cycle, *Okami* never found the audience it deserved, despite universal critical acclaim and developer Clover Studio's action-game pedigree (it had previously created the *Viewtiful Joe* series under the moniker Team Viewtiful). Over a decade later, *Okami HD* is here for a new generation of gamers on a new generation of systems. Should they still care? Absolutely.

The game centers around Amaterasu, a sun goddess called upon to rid the world of the evil dragon Orochi, who has escaped from his prison of the last century. The rest of the story, and many of the characters and enemies, is steeped in Japanese folklore, but not inaccessibly so: The script is translated well and it's frequently funny, revealing the developer's

desire to make sure the culture is accessible to foreign audiences.



OKAMI HD

(PlayStation 4, Xbox One and Nintendo Switch)

Perhaps the game's strongest quality, the graphics—done mostly in the Japanese *sumi-e* art style, and featuring elements of watercolor and woodcarving—look even better than they did 10 years ago. The high-def rendering makes everything pop, from the

deep purples representative of Orochi's evil nature to the greens that spring up as your character runs.

Game play is centered around *Legend of Zelda*-inspired dungeons and fighting against evil by using different weapons and the "Celestial Brush," which allows you to draw symbols on the screen to utilize special powers. Combat is fast and flows in and out naturally, making it never feel like a chore. Unfortunately, the camera is semi-frequently wonky, which can make some brush techniques difficult when they involve on-screen items. Some of the symbols are a bit too similar, too, leading the game to register the wrong one on more than one occasion.

But these are small critiques of an overall stellar experience. Whether it's your first time or you're revisiting the title after all these years, Amaterasu's journey is one definitely worth taking. *Casey Holliday*

MUSIC RECOMMENDATIONS



CYPRESS HILL
Elephants on Acid
(BMG)

With weed finally legit in the Golden State, Cypress turn their dilated eyes toward psychedelics (while still giving cannabis its due) on *Elephants*.

The album title emerged from a lucid dream by DJ Muggs, in which he envisioned a man with the head of a pachyderm. This inspired the DJ to craft soundscapes like the fitting intro "Tusko," with its sitar-infused vibe blending smoothly into the spicy Arabic hashish flavor of "Band of Gypsies." Among the grand tributes to ganja is "Reefer Man," a laid-back burner with clever B-Real rhymes. Bolted by jackhammer beats, "Oh Na Na" is a

playful ode to marijuana, and an equal measure of buds and blasphemy defines "Jesus Was a Stoner." Aural interludes "LSD," "Elephant Acid" and "Thru the Rabbit Hole" reveal the underrated musicality of Cypress Hill; it's not all blunts and bullets with this crew.

The LP closes with the original song "Stairway to Heaven." This "Stairway" climbs on ambient clouds held aloft by the pot-laced poetry of B-Real. One of 2018's best releases, *Elephants on Acid* more than lives up to its lysergic label, as Cypress Hill remain that unique rap act that will blow off your head while expanding your mind. *Mark Miller*



GRETA VAN FLEET
Anthem of the Peaceful Army
(Lava Records)

Greta Van Fleet deliver a full-length debut deftly balancing acoustic bliss with electric bite. Guided by twin Kiszka brothers Josh on howling vocals and Jake on scorching guitar, the portentous opening track "Age of Man" raises the thematic stakes of eco-sensibility explored by "Watching Over"

and the stirring standout "Brave New World." Jake's snarl on "The Cold Wind" is met by Josh's yodel on "Mountain of the Sun," while apt closer "Anthem" tumbles into a choral meadow of melody that's a battle cry for a *Peaceful Army* of stoners and lovers, not haters and dividers. *MM*



UNCLE ACID & THE DEADBEATS
Wasteland
(Rise Above Records)

Set in an all-too-familiar hellscape in which humans have become brain-dead ciphers hooked on the incessant glow of "flickering propaganda screens," Uncle Acid & the Deadbeats' fifth album sees the English cultists cranking up the pop melodies on their doomy-riff dystopia.

Psychedelic power-drones like "I See Through You" and "No Return" set the stage for the sci-fi Iron Maiden-isms of "Blood Runner" and the downbeat acoustic title track, while the warbling closer "Exodus" evokes a bittersweet escape to a shattered futuristic terminus. *J. Bennett*



ASLEEP AT THE WHEEL
New Routes
(Bismieux Records/Thirty Tigers)

"Jack I'm Mellow," the lead track on Asleep at the Wheel's new album, is an ode to being joyfully baked, reminding us that founder Ray Benson has always flown his freak flag as the standard-bearer of the western swing kings (and queen) for a half-century. With wildly eclectic chops,

Asleep at the Wheel also hint at Cajun and gospel on *New Routes* and collaborate with the Avett Brothers on the Nelson tribute "Willie Got There First." Props to new singer/fiddler Katie Shore—a terrific song scribe whose "I Am Blue" and "Weary Rambler" are 21st-century nuggets. *Michael Simmons*

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THE FUTURE OF CANNABIS

FIVE TRENDS TO KEEP AN EYE ON IN THE NEW YEAR.

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



THE VALUE (AND FUN) in data analysis is its capacity to help divine the future and ascertain where best to invest time, energy and money. A new year hints at what's coming—giving a clearer view of things ahead.

For a decade, overall rates of cannabis use in the United States have significantly increased. Since 2009, the reported past-month usage of adults 18 years and older increased 38 percent, from 6.6 to 9.1 percent, representing 7.45 million more Americans regularly partaking. With nearly two-thirds of Americans supporting some form of legal cannabis, expect to see increased acceptance across all demographic groups. Among things to expect:

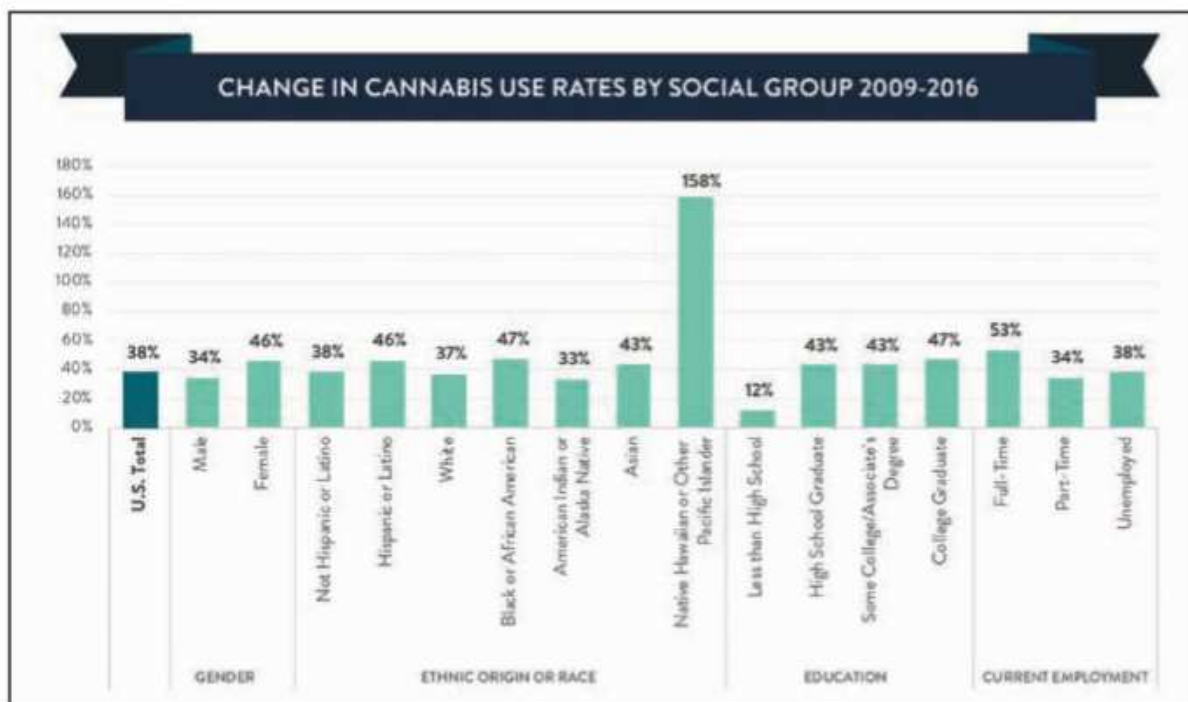
INCREASED ACCESSIBILITY

A bevy of businesses are striving to become the (already clichéd) “Amazon of cannabis,” and they are certainly assisting cannabis delivery and consumption. Whether it's Dosist developing a dosing pen for various predefined purposes (e.g., with its “calm,” “bliss” and pain “relief” formulas), or MyDx offering a handheld chemical analyzer designed to instantly identify and measure chemicals and potency in a given sample, users are becoming better informed. Other companies are refining cannabis oils, tinctures, edibles and other products, and better crowdsourcing and databases will help identify and express cannabinoid effects to aid repeat and future customers in their decisions.

MORE HEALTH AND WELLNESS APPLICATIONS

The total number of US medical-cannabis patients who are treating serious conditions has surpassed two million, and that's projected to grow as states with recently legalized medical programs begin sales. Florida and Michigan, particularly, are set for strong medical-market growth, while California and Massachusetts will see the largest annual growth rates through 2025.

Meanwhile, the US opioid epidemic remains a national crisis. Nearly 2.5 million Americans struggle with opioid



addiction, and (though significant additional research is needed) growing evidence suggests cannabis's potential to mitigate dependence and prevent overdoses. There is also support to expand access for at-risk patients, particularly those with chronic or severe pain.

Wellness brands across all major categories—food, beverage, beauty and more—are embracing cannabis. While more research is needed, cannabinoids like cannabidiol (CBD) and tetrahydrocannabinol (THC) are used to treat mood disorders, inflammation, chronic pain and other medical conditions. According to *Hemp Business Journal*, a division of New Frontier Data, total 2017 sales for the US hemp industry alone were \$820 million. Among those sales, \$190 million went for hemp-derived CBD products, \$181 million for personal-care products and \$137 million for food products. As consumer education spreads, *HBJ* estimates that the US hemp market will be worth \$2.6 billion by 2022.

POPULARITY WITH WOMEN

Women have been catching up to men in terms of consumption. In 2017, the Cannabis Consumer Coalition conducted a survey that showed how 40 percent of female respondents used it to help manage menstruation, menopause or mental-health concerns, and 39 percent used

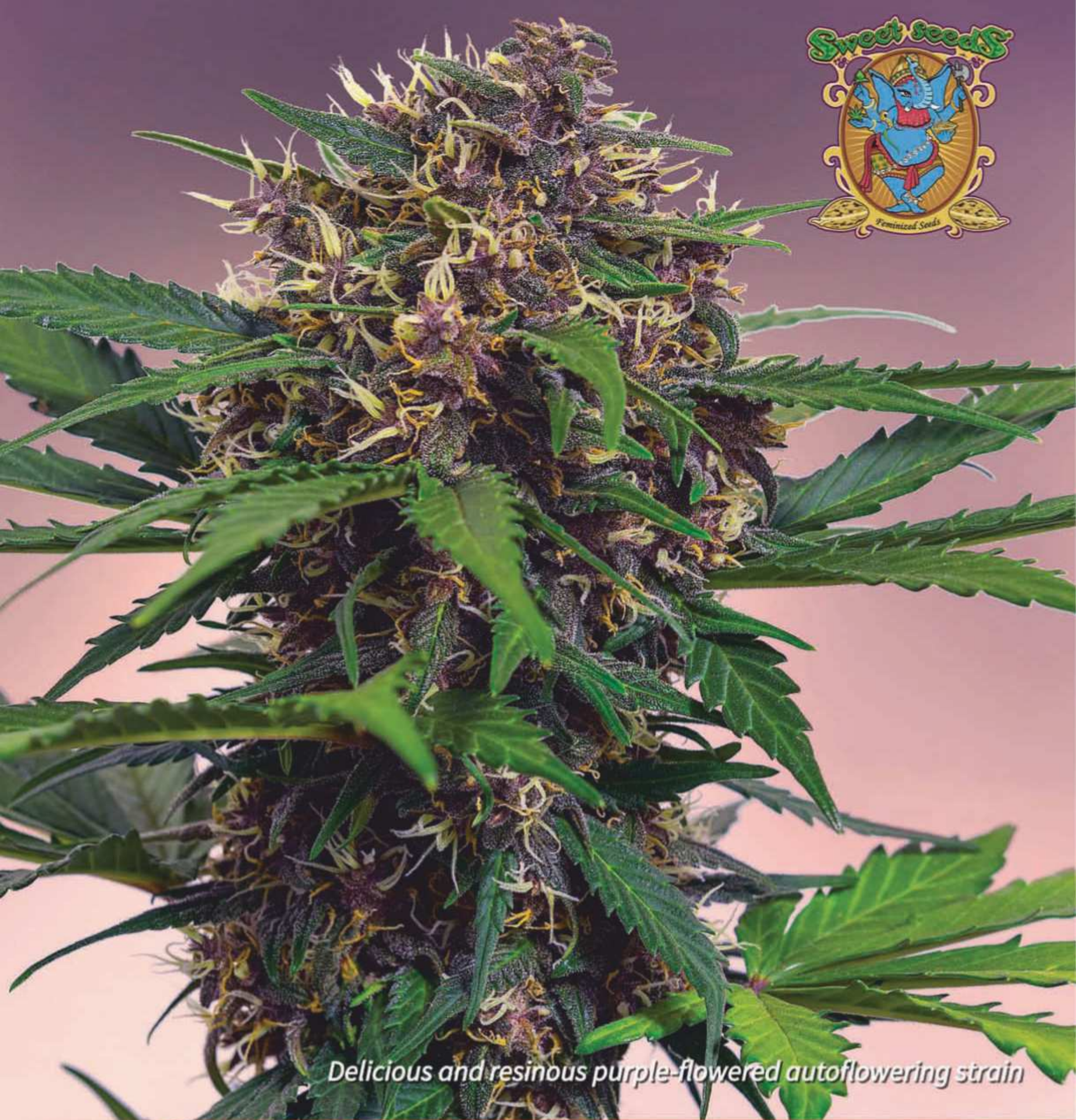
cannabis to relieve premenstrual pain and cramps. Additionally, 35 percent of menopausal respondents preferred pot as a sleep aid, and 27 percent found that it enhanced their sex life.

POLITICAL APPEAL

With the 2018 midterm elections finally over, policymakers are now focusing on the 2020 election season. New Frontier Data projects that within two years states with either adult-use or medical programs will number 40 or more. Public support for cannabis legalization keeps growing in the United States, as it will with expanding markets and greater social acceptance. Those are expected to gain even more as Canada's nationwide legalized market matures across the world's longest internationally shared border.

JOBS WITH JUICE

With medical cannabis legal throughout more than half of the United States and adult-use markets opening in an increasing number of states, cannabis companies are expecting to employ an estimated 340,000 people nationwide by 2020, according to the 1,500-member National Cannabis Industry Association trade group. These new jobs offer employment opportunities for botanists, marketing and branding experts, finance managers, HR professionals and many others. 🌿



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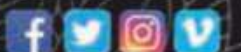
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(Phoenix Rising)

"It's the perfect high, great for my anxiety!"

-San Jose, CA

MARKET ANALYSIS

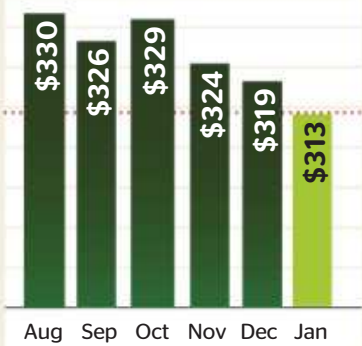
Prices by the ounce

All indices, with the exception of the Western Index, finished January below their previous month's average. After dropping in price for three consecutive months, the Western Index finished above its previous month's average for the first time since September 2018. However, its current price per ounce (\$248) is significantly below its average last September (\$260).

US Price Index
YTD Average: \$298



Eastern Index
YTD Average: \$313



Southern Index
YTD Average: \$332



Western Index
YTD Average: \$248



(Girl Scout Cookies)
"Phenomenal structure. Sweet, lingering aroma."
-Ypsilanti, MI

TRANS HIGH MARKET QUOTATIONS

STATE	CITY	STRAIN	PRICE
ALABAMA	Enterprise	Gorilla Glue	\$475
ALASKA	Spenard	Blue Dream	200
ARIZONA	Mesa Scottsdale	Girl Scout Cookies Arnold Palmer	230 290
ARKANSAS	Little Rock	Sour Diesel	400
CALIFORNIA	San Jose	Phoenix Rising	330
COLORADO	Colorado Springs	Skywalker	140
DELAWARE	Newark	NYC Diesel	280
FLORIDA	Ocala	Gorilla Glue	400
GEORGIA	Waycross	Captain America OG	270
HAWAII	Honolulu	Khalifa Kush	300
IDAHO	Pocatello	Alien OG	280
ILLINOIS	Palos Hills	Malawi	240
KANSAS	Wichita	SFV OG	310
KENTUCKY	Louisville	Gorilla Glue	280
LOUISIANA	New Orleans	Deadhead OG	380
MAINE	Portland	Trainwreck	420
MASSACHUSETTS	New Bedford	Gorilla Glue #4	325
MICHIGAN	Ypsilanti	Girl Scout Cookies	320
MINNESOTA	Minneapolis	OG Kush	420
MISSISSIPPI	Southaven	Skywalker	280
MISSOURI	Independence	Blue Dream	400
MONTANA	Missoula	Gelato	250
NEBRASKA	Omaha	Skywalker	200
NEVADA	Las Vegas	Super Lemon Haze	270
NEW HAMPSHIRE	Portsmouth	Maui Wau	280
NEW MEXICO	Albuquerque	Girl Scout Cookies	310
NEW YORK	Albany	Sour Diesel	200
NORTH CAROLINA	Charlotte	Chocolope	450
OHIO	Columbus	White Widow	250
OKLAHOMA	Tulsa	Mendo Purps	240
OREGON	Portland	Girl Scout Cookies	225
PENNSYLVANIA	Philadelphia	Golden Goat	400
SOUTH CAROLINA	Florence	OG Kush	200
SOUTH DAKOTA	Sioux Falls	Black Diamond	340
TENNESSEE	Memphis Nashville	Loud Dream OG Kush	320 420
TEXAS	Houston	Cindy 99	420
UTAH	Salt Lake City	Girl Scout Cookies	125
VIRGINIA	Fredericksburg	Skywalker	280
WASHINGTON	Mount Vernon Seattle	Sunshine Sherbet Gorilla Glue #4	240 250
WEST VIRGINIA	Morgantown	Blue Dream	280
WISCONSIN	West Bend	Killa Kush	360
INTERNATIONAL			
AUSTRALIA	Bunbury	White Tahoe Cookies	AU\$400
CANADA	Vancouver	Master Jedi	C\$225
PAKISTAN	Karachi	Hindu Kush	\$140

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-Scottsdale, AZ

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THE STATE OF CANNABIS EXTRACTS

WE EXAMINE THE HISTORY OF CANNABIS CONCENTRATES AND TAKE A CLOSER LOOK AT THE MOST POPULAR EXTRACTS CURRENTLY ON THE MARKET, LIKE FULL SPECTRUM, LIVE BADDER AND LIVE ROSIN.

BY DAVE MALONE

PHOTOS COURTESY OF GREEN DOT LABS

I'LL NEVER FORGET the first time I tried shatter, back in 2008. As the mind-shatteringly potent high took hold, I felt certain we had reached the final destination of cannabis. Here was the ultimate expression of the plant that consumers had been relishing for years. Shatter was the holy grail, it seemed. For cannabis, there was nowhere else to go. I was wrong.

Instead of an end point, the emergence of cannabis concentrates has triggered a technological and creative upheaval the likes of which has never been experienced in the marijuana scene, legal or otherwise. In an incredibly short order, dabs have evolved from a dubious fringe concept to a refined mainstream product. Concentrate producers have achieved one breakthrough after another, refining their machinery and expertise as extracts capture ever more shelf space in dispensaries all over the country.

Screaming
Flo-G Live Rosin
extraction





THC-A crystals soaking in a bath of terpene-rich extract (Soul Cleanser Rocks)

For those not in the know, the resulting variety of concentrates can be overwhelming, to put it mildly. What's the difference between live resin and rosin? Shatter versus badder? As someone who's been involved in the legal concentrate business since the very beginning, I thought it would be helpful for novices and concentrate connoisseurs alike to offer up an insider's view of the current extract scene—detailing recent milestones, highlighting the top varieties of concentrates available today and pondering where we go from here.

For starters, it didn't take long for extract artists to improve upon that first shatter I sampled a decade ago, finding ways to remove ever more impurities during the extraction process so the resulting concentrates became increasingly lighter in color and progressively flavorful. But the big breakthrough came in 2013, when celebrated hashmaker William "Kind Bill" Fenger derived butane hash oil (BHO) from whole plants that had been freshly harvested and frozen—creating what we now know as live resin.

The luminescent, vibrantly flavorful live-resin extracts didn't just become hot sellers; they helped shift the very idea of concentrates. Up to that point, it was all

about potency—creating extracts with massive amounts of THC and very little of anything else. Dab aficionados would heat the nails on their rigs as hot as they could so they could get as high as possible. But suddenly, with the emergence of live resin, flavors and aromas came back into play. Now it was all about crafting concentrates with the perfect balance of THC and terpenes. Aficionados learned to turn the temperature down on their nails to maximize taste without overwhelming psychoactive effects.

Now we've come full circle with extracts, once again prioritizing the pungent aromas and flavors we'd learned to love from old-fashioned cannabis flower. Concentrate technologies and procedures are so dialed-in that there's very little difference in purity and potency from one high-end extract maker to the next. Everyone is fast approaching maximum potential concentrate purity levels, and everyone is zeroing in on the ideal balance of potency and taste (roughly 70 percent THC and 30 percent terpenes). Now the best way to differentiate yourself is through your raw materials (i.e., the diversity of your genetics library and the quality of the cannabis flower you use in your concentrates).

As the dust settles, certain kinds of

elite concentrates are capturing people's attention. Here's some of the most exciting stuff on the market today:

FULL-SPECTRUM EXTRACTS

Full-spectrum extracts are exactly like they sound—they feature the same ratio of terpenes and cannabinoids as the raw flower in a concentrated form. It's live resin taken to its logical conclusion—the closest we can get to capturing the full essence of the cannabis plant in concentrate form.

Full-spectrum extracts, sometimes referred to as live-resin sauce or terp sauce, aren't just exceptional due to their bold aromas and flavors. They look extraordinary, too—generally sporting big shiny crystals floating in a translucent sauce. When folks first noticed these concentrates separating out in such a way, they figured they were defective and breaking down. Now we celebrate this sort of consistency, knowing the crystals are concentrated THCA floating in a syrupy stew of terpenes. This arrangement gives consumers an exciting amount of flexibility, allowing them to choose for themselves the right balance of "rocks and sauce" in each dab, much like mixing your own cocktail.

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Purple
badder

LIVE BADDER

Of course, sometimes you don't want to bother with mixing your own dab. You want an easy, creamy, perfectly balanced hit each time. That's the idea with badder, or budder, which is live resin that has been emulsified into a malleable, uniform consistency similar to cake batter. While it might not be as pretty to look at as full-spectrum extracts, badder offers the ideal balance of potency, flavor and smoothness. Every hit is as rich and velvety as the last—what more could you ask for?



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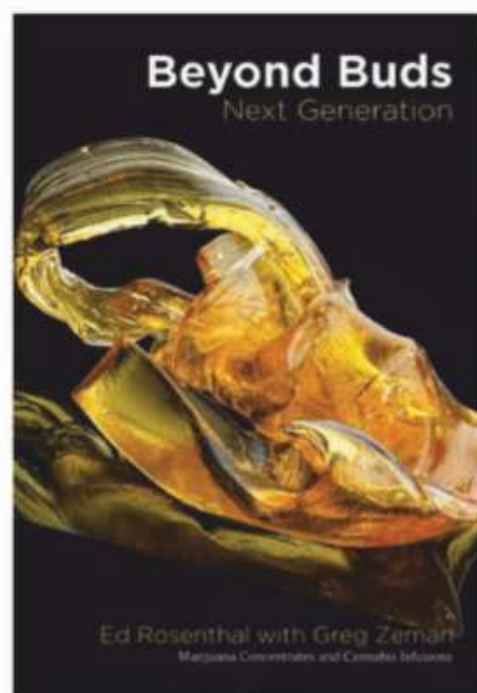
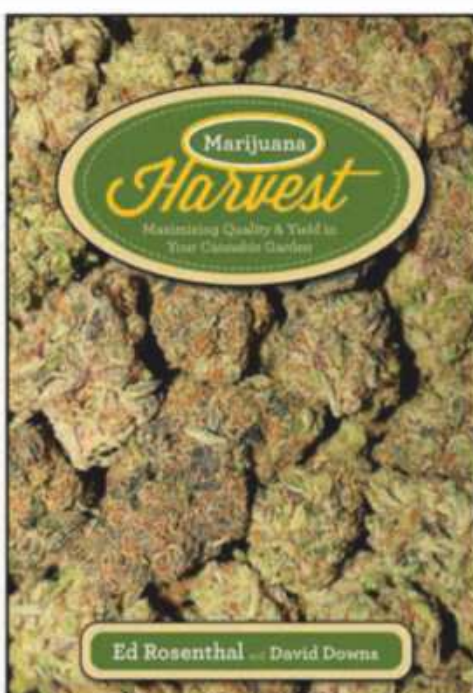
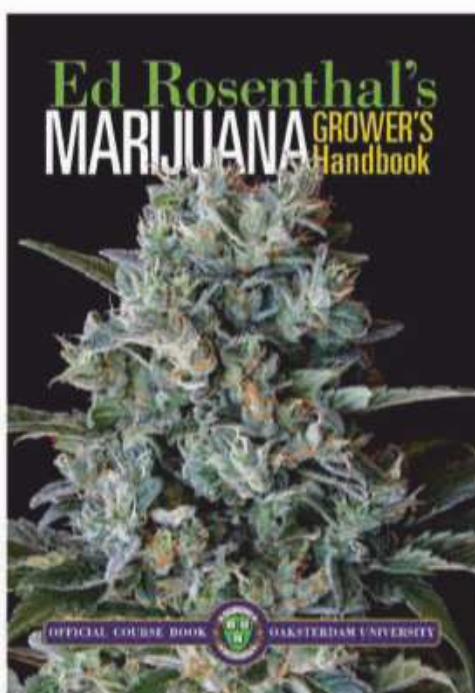
Not to be confused with live resin, live rosin is a modern-day take on age-old hash traditions. These solvent-less extracts are hand-crafted using cold-water hashmaking techniques, a demanding and time-intensive process usually resulting in small batches. These concentrates are slightly less purified and terpene-rich than full-spectrum extracts, but they're impressive in their own right. Filled with the cannabinoids, terpenes and lipids of the original plant, live rosin offers fans a wholly unique flavor, finish and pull.



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PENS

Concentrate makers have also been experimenting with delivery methods to allow consumers the ability to experience high-quality extracts without the expertise or equipment usually required for dabs. But perfecting the technology to do so without jeopardizing the integrity and purity of the extract has long been a challenge. Here at Green Dot Labs, for example, we spent years developing a way to inject our full-spectrum BHO into vape-pen cartridges without using thinning agents or fillers. Now, as far as I can tell, we have some of the only pen cartridges on the market filled with uncut,

additive-free single-strain live resin. It's a major step in our personal crusade against vape pens that use cutting agents and other questionable and potentially dangerous additives—or, as I like to call them, “hot-dog-water pens,” since just like hot dogs, you have no idea what's in the darn things.

After a frenzied period of growth and innovation, as of late the concentrate scene seems to have reached a creative plateau. Over the past year, we've seen relatively few earth-shattering innovations. Instead, the name of the game has been to refine and perfect the extracts consumers have come to know and love.

Once again, it seems like we're reaching the final destination for cannabis concentrates.

But this time, I know that assumption is wrong. With the demand for cannabis concentrates at an all-time high and legalization initiatives taking hold across the country, new discoveries and innovations in the world of extracts are surely just around the corner. ✨

Dave Malone is the co-founder and chief creative officer at Green Dot Labs, the longest-running regulated business anywhere to focus exclusively on genetics and cultivation for cannabis extracts.

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TOP TIPS

ON ORGANIC GROW MEDIUMS (AND ADDITIVES)

CHOOSING THE RIGHT STUFF IN WHICH TO GROW YOUR PLANTS DETERMINES THE QUALITY OF THE CANNABIS YOU'LL HARVEST. KNOWING THE DIFFERENCES BETWEEN VARIOUS ORGANIC MEDIUMS AND ADDITIVES CAN HELP STRENGTHEN YOUR ABILITY TO CREATE CRAFT-QUALITY BUDS. *BY STONEY TARK*

STRICTLY ROOTS

When selecting the right medium, you should not only consider NPK (nitrogen, phosphorus and potassium) ratios, but also the medium's ability to hold water and provide aeration to allow proper capillary action between wet and dry periods. Below is a list of all the various grow mediums that can be bought from any grow shop, along with my top tips so that you can customize your organic grow medium.



Drip emitters
feed roots held
in growing
mediums.



Mix soils thoroughly to incorporate all materials.

SOIL

When selecting a good soil, you'll need to spend an extra bit of money and buy a brand that offers quality. If you've ever used cheap soil from a corner hardware store, you've noticed that its texture has a loose-dirt consistency. These cheap soils have no ability to retain moisture well, and their wicking action is almost nonexistent.

My top tip here is to invest with a well-known company that has good credentials and industry support. Companies such as Biobizz and Plagron offer some excellent soil-based products, each supplemented with perlite and peat moss. You'll want something that has a strong NPK ratio and is jam-packed full of trace elements as well.

COCO

Using coco is one of the best experiences you can have as an organic grower. Coco can be mixed into a custom organic mixture or it can be used in hydroponics, as it is classed as an inert medium, meaning it contains almost zero micro minerals or trace elements. The coco from Canna, however, is supplemented

with trichoderma, a potent biocontrol agent that wards off harmful fungi.

A good tip is to use a mixture of 50 percent coco and 50 percent perlite. Along with this, then you can add a substrate of organic material to provide nutrients to your plants. This will also provide your plants with a sufficient number of air pockets, and the lightness of this mixture is perhaps the softest you can get with a fine blend. I also add to my medium a mixture of 50 percent worm castings and compost to provide much-needed humates. Growing with coco will encourage your roots, and your plants, to grow to their maximum potential.

PERLITE

Perlite is a small white popcorn-like substance used to create spacing in the grow medium. It also has the ability to retain moisture as well as drying out again. This cheap and simple medium has no nutritional value, so it's perfect to mix at a 50 percent ratio with soil, worm castings or coco, and some growers have even executed hydroponic grows using only perlite.

My top tip here is to make sure that if you are top feeding, cover the top layer of the medium with coco or soil. The reason for this is that algae will begin to grow on the white perlite after an organic feeding. The perlite will take a dark green color and the top of the surface will become a slimy dark green. You can deter the algae by simply breaking up the top of the medium.

VERMICULITE

Vermiculite holds water so that dry periods won't happen frequently between feedings. This is useful, but you also want to push for some dry periods when growing. Adding vermiculite to a mixture of soil and perlite provides improved drainage too, but adding too much can keep the medium too wet over long periods of time, so my top tip here is to use it inside of propagators to keep moisture levels high when cloning. If you add a layer of vermiculite to the base of the cloning tray, it will keep the humidity inside nice and high.

CLAY BALLS (GROW ROCKS)

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Transplant rootbound plants into larger containers with more growing medium.

inside grow mediums to create air chambers, these simple but effective additives are used for commercial gardening and landscaping. Whenever you buy clay balls from a grow shop or a garden center, you'll need to thoroughly wash them until all the sandy-colored brown dust is completely gone. You don't want any dust on them when you're preparing your system.

A good tip is to add a layer of clay balls, at least an inch high, at the base of your pots. This will allow extra drainage and ensure that there's enough fresh air in your pots. When you feed, you'll see water pouring out of the bottom few inches of the clay balls, which causes oxygen to replace the falling liquid through water displacement. Additionally, you can do the same on the top of the medium by using an inch-high layer of clay balls to prevent algae buildup and to allow nutrients to be evenly dispersed when top feeding.

DIATOMACEOUS EARTH

This product is easily identifiable by its bright chalk-white stone characteristic. Often rebranded as a bug-killing powder, diatoma-

ceous earth is naturally high in silicon, which deters insects that come into contact with it and strengthens leaf tissue against insect attacks.

My tip is to break up the white stones and add a layer at the base of your medium. This will provide excellent drainage as well as allow the roots to grow around the stones. If you mix clay balls with diatomaceous earth, you have the best of both worlds in terms of drainage and silicate availability. Adding a layer of diatomaceous-earth rocks on the surface is also a great way to deter insects and regularly provide silicon with every feed.

ROCKWOOL

This hydroponic medium has absolutely no nutritional value, which is why nutrients must be supplied in hydroponic growing systems that use rockwool. Many growers will root clones in rockwool and then later transport them to another system such as a dripper or nutrient-film-technique (NFT) system. Rockwool isn't technically organic, and, typically, plants in rockwool are fed with synthetic nutrients, but since it's possible to

feed them organic nutrients, we include it on this list.

When growing with rockwool, especially in hydro, you can always stack a second rockwool cube on top of another. Of course, this is when working with 4- or 6-inch rockwool cubes, stacking them up to create 8- or 12-inch cubes of packed-out roots—a great way to grow huge yields. As long as the sides of the cubes are covered, the plant can root through the bottom cube and become even larger.

PEAT MOSS

Typically used by commercial farmers and found in bags of growing soil, peat moss is the decomposing organic remains of sphagnum moss. It's actually a form of compost, as it's in a state of humification, constantly leaching minerals into the grow medium. Peat moss has the ability to hold up to 20 times its own weight in water, so be careful not to overwater when using it. It's great when growing outdoors and on a large scale where the ground may not be as moisture-rich as you might like it to be.



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Young plants need proper nutrition to thrive.

COMPOST

My earliest memory of growing up was when I'd dig a hole in the ground in the greenhouse, fill the hole with compost and place a seedling or clone in it. As its name states, this organic matter is in a constant state of decomposition. As compost breaks down, it releases all its micronutrients into the grow medium. Beneficial bacteria and plant enzymes play a major role in breaking down carbon-rich organic matter, which turns into a dark-brown or blackish color.

My tip here is to add 25 percent of a good compost source into your grow medium along with worm castings to provide a long-term supply of available nutrients that the soil will break down. If you follow my instructions for my personal organic mix, you'll find that compost will also improve the texture and increase the lightness of your final medium even more.

ORGANIC ADDITIVES

The list below shows which additives you should be conscious about adding to your medium. Once you're happy with the overall consistency and feel of the grow medium, you'll want to add these products in order to really supercharge your organic growing medium and bring your terpenes and resin production through the roof.

BAT GUANO

This is one of the most underrated additives used in growing cannabis, but once you try it, you won't look back. I often write about how bat guano makes the difference in terms of final flavor, and I can easily tell if a flower has been grown with or without it.

My top tip here is to add around 10 percent bat guano to the final mix. Bat guano in the grow medium will complement the microbial colony, making it rich with enzymes, and also enrich the medium with living humates to break down. Different bats produce different NPK ratios depending on their diet (if they eat mainly insects or fruits), so try a mix of variously sourced guanos. During flowering, top feed with a 24-hour aerated compost tea.

SEABIRD GUANO

Seabird poop is perfect to mix in with your bat guano and offers some of the best nutrients for your plants due to the birds' diet of fish. Rich in phosphorus and excellent for roots, this guano provides nitrogen, so it's certainly a great additive to use during the vegetative stage.

VOLCANIC ROCK ASH

Many grow shops sell different versions of volcanic rock. This fine black dust is very beneficial and it's meant to be worked into the medium to improve drainage, air capacity and capillary action. It's also teaming with trace elements. My top tip is to add this dark-black powder into your grow medium, focusing on the upper part. This way, new roots can grow into the volcanic dust and benefit from the trace elements early on.

BIOCHAR

This is one of the best additives and it costs literally nothing to obtain. You simply need to start a wood fire. Branches and logs work best, and you want to let the fire burn without allowing the wood to turn completely to ash. Under a microscope, charcoal has an incredibly intricate crystalline structure, so its ability to hold water is unmatched. It's also a pure source of carbon.

My tip here is to break the charcoal into small pea-size pieces, then mix it into the grow medium as you're preparing your final custom mix. Adding biochar will improve the drainage of the grow medium, enhance aeration and keep the beneficial bacteria well supplied with carbon.

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INDOOR MIX

30% coco
40% perlite
30% worm castings
Bat guano
Seabird guano
Compost
Diatomaceous earth

LIQUID FEED:

Aerated tea—fish mix
Aerated tea—ortega/nettles
Aerated tea—worm castings
Aerated tea—bat guano (flower)
Unsulphured molasses
(entire cycle)

WEEKLY TOP DRESSING (VEGETATIVE STAGE):

Worm castings
Seabird guano
Diatomaceous earth
Biochar

WEEKLY TOP DRESSING (FLOWERING STAGE):

Bat guano
Seabird guano
Worm castings (weeks 1-3)

OUTDOOR MIX (LARGE PLANTS)

20% coco
20% perlite
40% worm castings
20% vermiculite
Peat moss
Biochar
Bat guano
Seabird guano
Compost
Diatomaceous earth
Volcanic rock ash

LIQUID FEED:

Aerated tea—fish mix
Aerated tea—ortega/nettles
Aerated tea—worm castings
Aerated tea—bat guano (flower)
Unsulphured molasses
(entire cycle)

WEEKLY TOP DRESSING (VEGETATIVE STAGE):

Worm castings
Seabird guano
Diatomaceous earth
Biochar

WEEKLY TOP DRESSING (FLOWERING STAGE):

Bat guano
Seabird guano
Worm castings (weeks 1-3)

All of the above can be sourced from local garden centers, grow shops or the internet. Once you've created a blend that is superior in organic quality, you'll find that your plants will thrive in their new environment and start to think and act like they're in the fertile ground of Hawaii or Indonesia! You'll find there's so much more to organic growing than just buying bottled organic nutrients and dumping them onto your soil. ✨



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MOB RULES

SOME STRAINS EARN A NAME FOR THEMSELVES WITH POTENCY, MEDICINAL VALUE, FLAVOR AND EASE OF GROWTH. LEARN ALL ABOUT ONE SUCH IMPRESSIVE VARIETY—THE MOTHER OF BERRIES—IN THIS STRAIN REPORT FROM OUR ESTEEMED EUROPEAN CORRESPONDENT.

STORY & PHOTOS BY
G.B.I. (GREEN BORN IDENTITY)

IT'S TIME TO REPORT on a truly legendary strain known throughout North America as MOB (a.k.a. the Mother of Berries), bred and released by the renowned seed company T.H. Seeds. The origin story of this stalwart variety has never been revealed—until now.

As T.H. Seeds co-founder Doug explains, “In the mid- to late ’90s, a big bag of Cali weed ended up in Boston which had a few seeds—no one knew the strain name. This true bomb weed, apparently 100 percent *indica*, was originally called MOD, as these were the initials of the guy who grew it out, mothered it and got it going. But since it was getting too popular and they wanted to hide his identity, they changed the name to MOB. The crew that got it out there was the old Boston skateboarding community. The original guy gave a cutting to a friend of mine who brought it to me, and it was originally grown on my rooftop, flowering super-fast. Then we sent it down to Spain for further selection and feminized seed production.”

Once again, the excellent US connections of the long-established Dutch seed company had, literally, come to fruition.

MOB is described as a short, compact plant that performs the miracle of producing its exquisite berrylike and highly resinous buds within a mere 42-55 days of flowering. Quickness and quality aren't the plant's only strengths, though; it's got quantity too. Thanks to their handy size, robust branching and easy management, MOB plants are perfect for novice growers. And, very conveniently, their fat, hard buds possess good mold resistance as well.



Mother of
Berries in all
of her glory.



The MOB strain grows into dense flower clusters covered in glandular trichomes.



Additionally, MOB's pink to purple flower coloration brings variety into the usually green cannabis scenery. The typical MOB effect, fueled by a THC count of up to more than 20 percent, is a very strong *indica* stone providing deep relaxation, often followed by heavy sleepiness. That's why this variety is praised and used by many as a very effective sleeping aid. Generally regarded as a strong medical strain, it's also being successfully used to treat stress disorders and chronic pain conditions.

With regard to its heavy, drowsy *indica* effect, The T.H. Seeds crew also refers to MOB as "stupid bud," because when they smoked it for the first time it was fun all the way, but everyone forgot their keys in the end! According to the T.H. Seeds crew, there's something unique to its flavor, "like nothing you've ever smelled or tasted before."

GROWING MOB

Soon after it had been launched, it didn't take long for MOB to clinch its first award, winning second place in the *indica* category at the prestigious Expo Grow Cannabis Cup 2015 in Irun, Spain. Being the ardent T.H. Seeds fan that he is, the Doc was highly excited about this new strain release and promptly ordered a package with five feminized seeds, of which he used four for a cultivation test.

After a quick germination time of only two and a half days, the four seedlings stood upright in the bright light emitted by a SANlight S4W LED module. The MOB's growth habit entirely lived up to the official description, with the four plants growing super-compact and squat, like an *indica* straight from a picture book, except for one difference: Their shade leaves were not as wide-fingered as those of a classic *indica* plant.

But internodal stacking was immensely dense, and when the Doc triggered them into flowering four weeks after germination, his extremely bushy four MOB plants were only 28, 30, 31 and 34 centimeters tall—wonderfully uniform once again, just as the Doc is accustomed to from T.H. Seeds. "In my grow room," the Doc says, "T.H. Seeds set the gold standard for strain uniformity a long time ago, and they've kept it until today—quite amazing!"

Two weeks after the light-cycle switch from 18/6-hour light/dark to 12/12, the four plants had already busily begun to bloom—"as fast as an express train," reported the Doc. The MOB turned out to be the fastest of five varieties growing in his room. "Already at this early stage," the Doc wrote in his grow diary after four weeks of flowering, "the four plants are looking impressive. Still very homogeneous and still that extraordinarily compact

as stem elongation during flowering has been only moderate, with a height gain of merely 60-70 percent. It's evident that all the buds—top and side colas alike—are about to become thick and chubby. I also love the fact that as early as now, they're plentifully bestrewn with resin glands. Keep it coming, Mother of Berries!"

The four MOB plants kept their fast flowering speed until the end and reached maturity after 46-52 days of flowering—well within the harvest window stated by T.H. Seeds. Said the Doc: "One of the four plants remained green, but the other three are displaying attractive purple hues, indeed, absolutely nice! Also, the buds have become as bulbous, dense and super-tight as expected. And they've put on a splendorous resin vestment lined with myriads of majestically glistening trichomes."

However, the buds not only looked gorgeous, they also fulfilled the promise of an exquisite berry fragrance that made the Doc rejoice: "Ahhh... These aromatic wafts of a fruity-sweet scent are a most enticing treat to my nose. You just have to inhale them deeply! The berry aroma is so smooth, so caressing to my nose, it makes me think of some fruity kind of perfume infused with different forest berries. The Mother of Berries has really lived up to its name here."

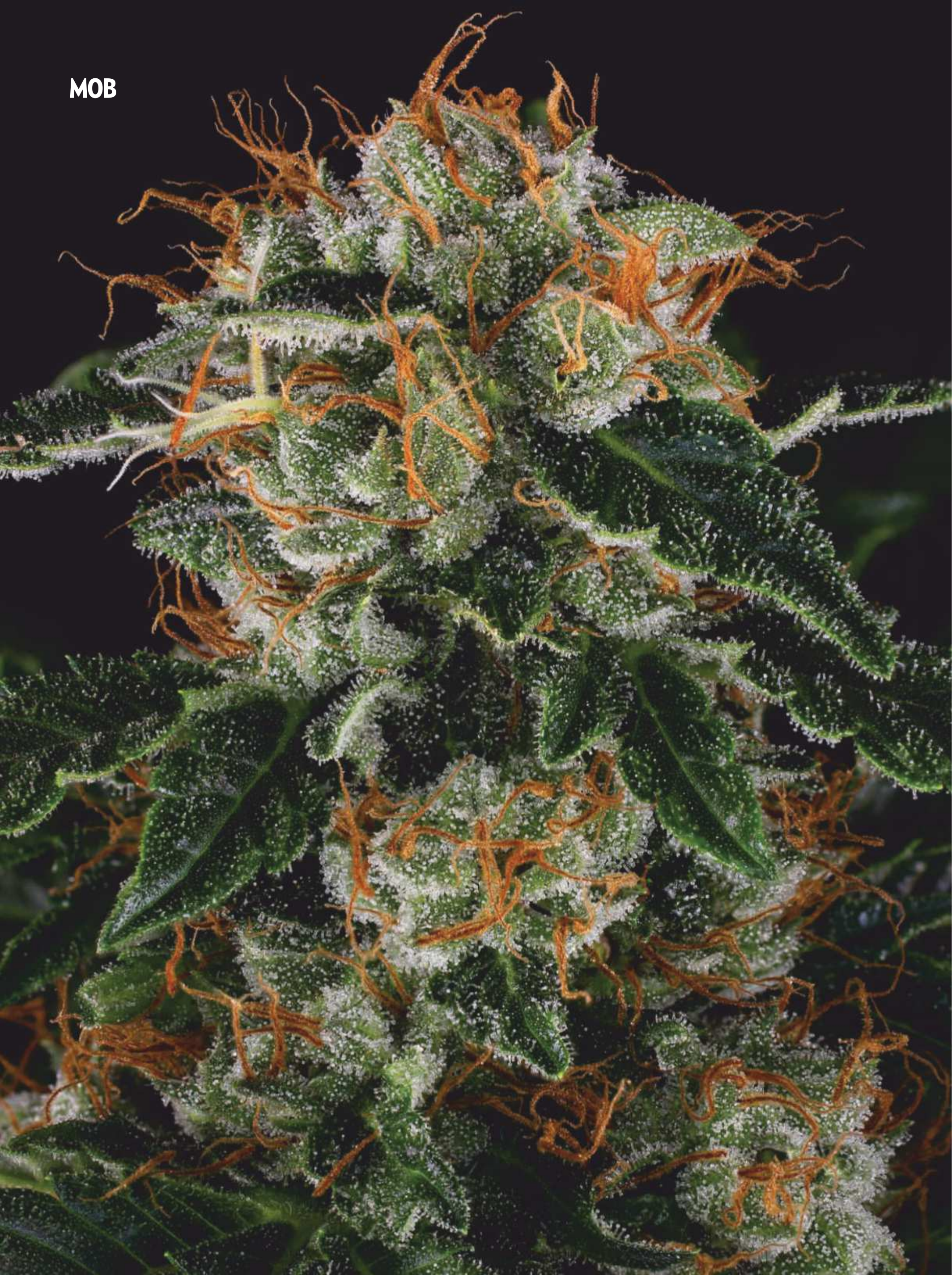
MOB







MOB





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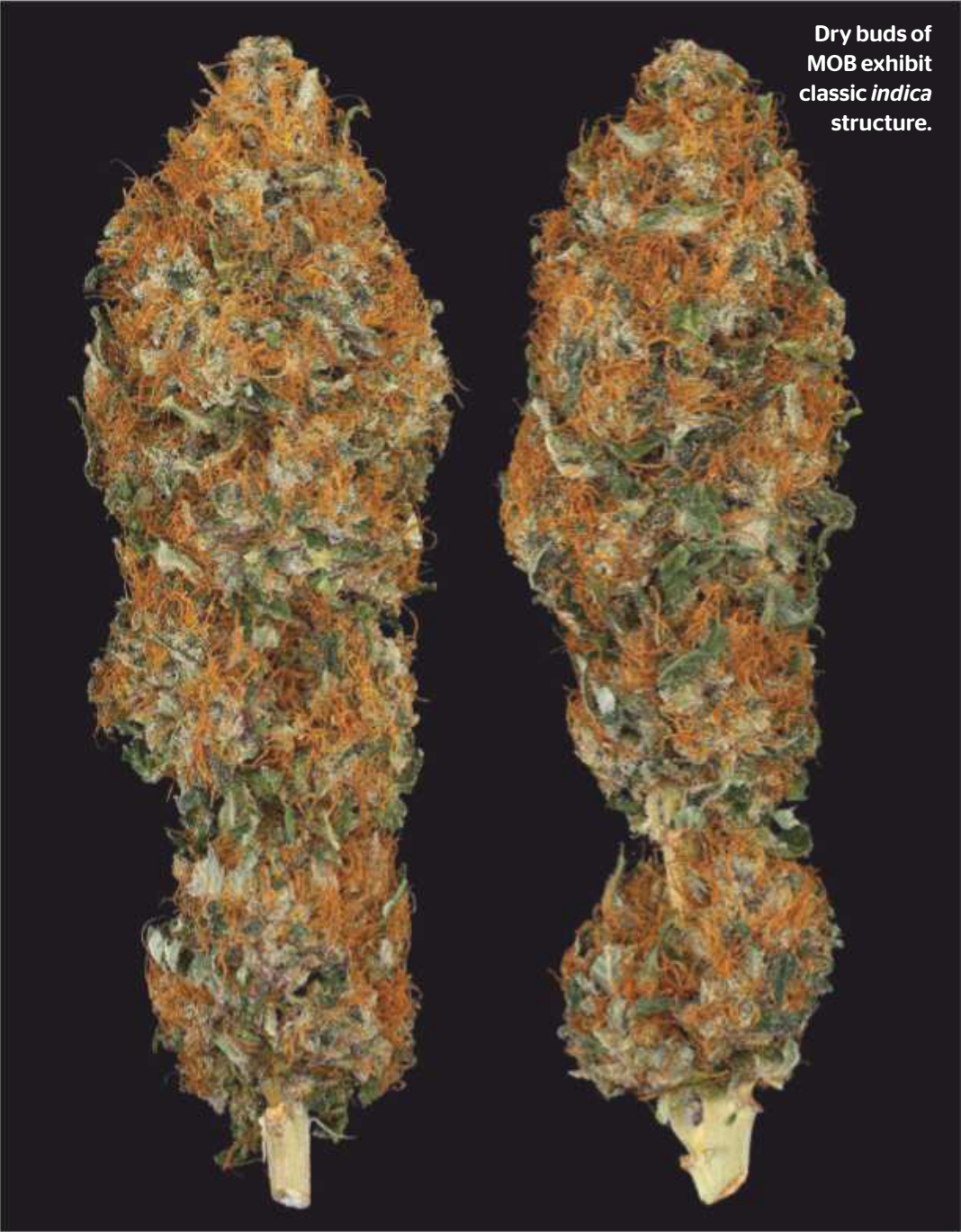
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TIMES

CULTIVATION DATA

GENETICS	MOB (100% <i>indica</i>)
VEGETATIVE STAGE	4 weeks (after germination)
FLOWERING STAGE	42-55 days in general
MEDIUM	Plagron Grow Mix in 1-liter pots
pH	6.2-6.6
EC	1.2-1.8 mS
LIGHT	Up to 12 x SANlight S4W = 1,680 Watt
TEMPERATURE	19-28°C
AIR HUMIDITY	40-60%
WATERING	By hand
FERTILIZATION	Organic Bloom Liquid from Green Buzz Liquids
ADDITIVES/STIMULANTS	More Roots, Humin Säure Plus, Big Fruits, Fast Buds and Clean Fruits from Green Buzz Liquids
HEIGHT	46, 49, 54 and 58 centimeters
YIELD	68 grams per plant on average



Dry buds of MOB exhibit classic *indica* structure.

MOB YIELD

The total dry yield tipped the scales at 273 grams, an average of 68 grams per plant. Compared with the yield level generally achieved by the Doc, the MOB wasn’t a smasher in absolute terms, but in view of the small plant sizes with final heights of 46, 49, 54 and 58 centimeters, the yield-to-size ratio was superior. After thorough drying and curing,

the chlorophyll had vanished from the buds and their delicious berrylike nature had become even more pronounced and sophisticated—“a fine example of a fruity cannabis delicacy,” according to the Doc.

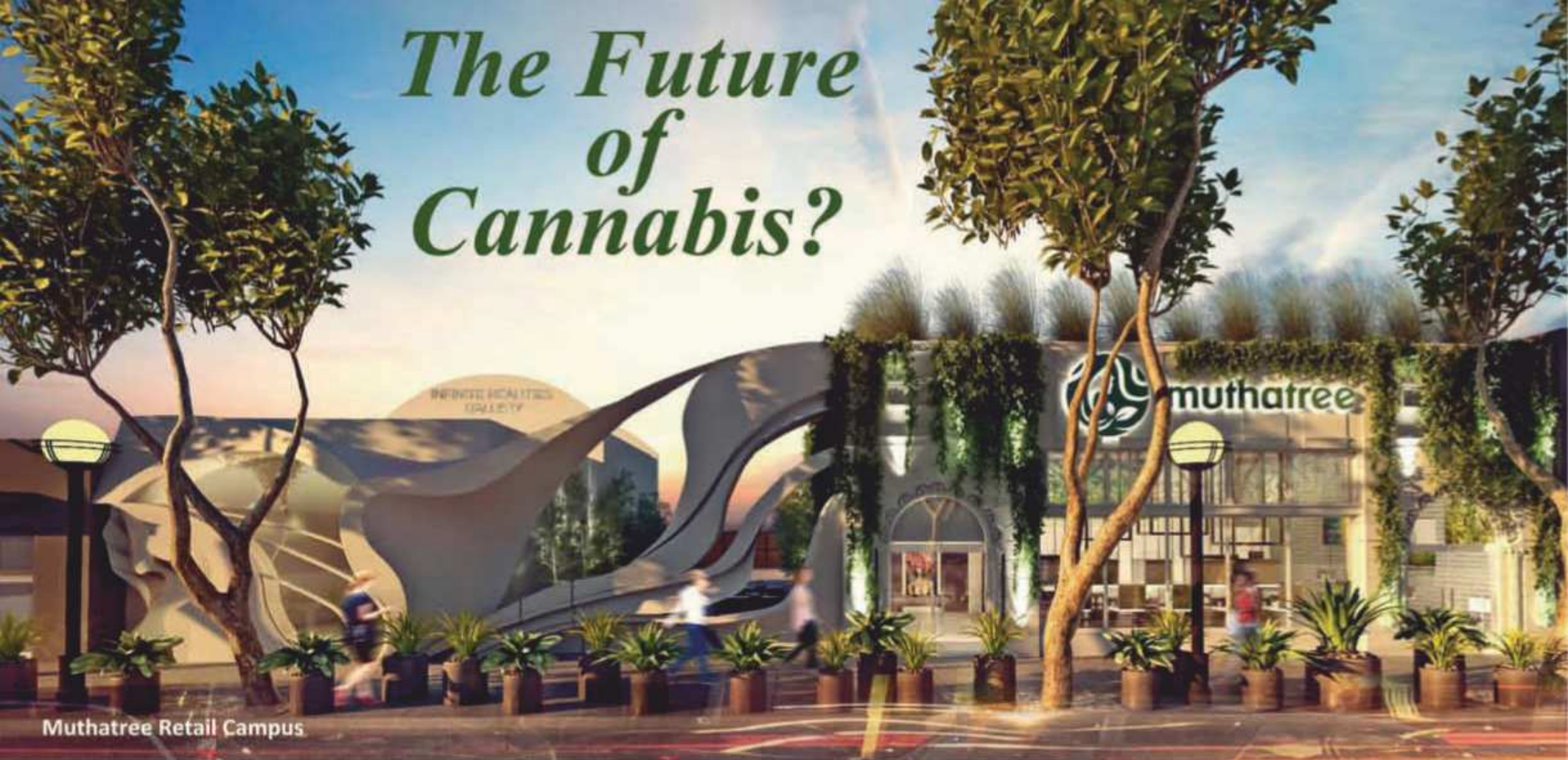
The Doc swooned over the MOB. For the smoke test, he rolled himself a spliff with more weed in it than tobacco. “My new motto is ‘Put the berries in your tank!’” he commented with a broad grin. Holding it under his nose, the entire joint smelled sugar-sweet. When he took the first hit, a sweet stack of smoke wafted into his mouth that made his taste buds dance with joy. “Incredible how this fruity berry flavor accumulates in my mouth!” he exclaimed. “Three tokes and you think you’ve chewed a Hubba Bubba.”

Winding down from a hard day with many quandaries to be solved, the Doc began seeing things through rose-colored (or rather, green-tinted) glasses, his view upon life and its problems becoming relaxed and serene. This mellow wave of tranquility made his head feel light, but not long after that his “mental wadding” thickened heavily and turned into a numbing, mighty cushion that seemed to blanket all his senses. His eyes, his jaw, his limbs—everything went slack, and although he actually never takes a nap during the day, he now felt a strong desire to do so.

Unstoppably, the Sandman drew closer, and once the Doc’s eyes were closed, it wasn’t long before he entered the realm of sleep. What was intended as a short nap lasted for two solid hours, and when the Doc woke up in the early evening, he still felt quite spaced-out. Which didn’t keep him from preparing another MOB spliff, though, which led to a long-lasting couchlock with tremendous stonedness, but without putting him to sleep this time. Instead, he happily indulged in his passion for listening to Pink Floyd.

Concluded the Doc: “MOB has wowed me with its beautiful appearance, short flowering time and nevertheless high productivity. And its tremendous *indica* potency makes it a highly effective natural sleep-inducing drug. I’ve called it Sandman’s favorite *indica*—by means of this stuff, he’ll lull even the most severe insomniacs to sleep. And oh, the icing on the cake is MOB’s mouth-watering sweet berry flavor!” 🌿

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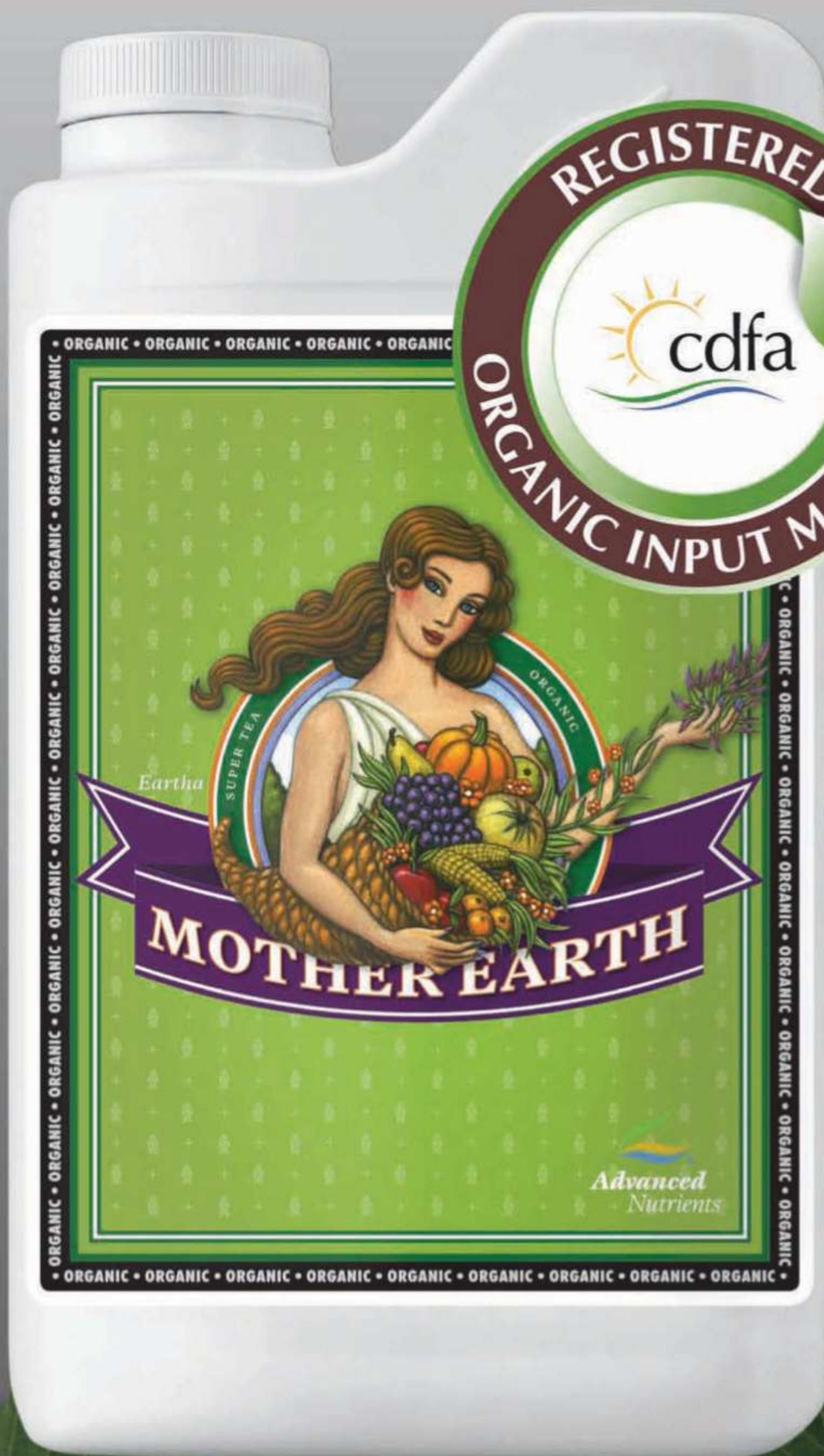
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A vintage comic book illustration. In the upper right, a large speech bubble contains the text: "COME ON, CLAIRE! DON'T BE A WET BLANKET! JUST TRY ONE AND YOU'LL NEVER BE WITHOUT 'EM!". Below the speech bubble, a man in a tuxedo and a woman are seated at a table. The man is looking at the woman, who is looking towards the viewer. A lamp is on the table. In the foreground, a man with blonde hair is shown from the chest up, looking towards the right. The background shows a window with curtains and a framed picture on the wall.

COME ON, CLAIRE!
DON'T BE A WET
BLANKET! JUST TRY
ONE AND YOU'LL
NEVER BE
WITHOUT 'EM!

REEFER MADNESS COMICS

A NEW COLLECTION HIGHLIGHTS THE WILD WEED TALES FOUND IN COMIC BOOKS FROM THE 1930s THROUGH THE 1960s. THIS EXCERPT FROM *REEFER MADNESS COMICS* EXPLORES THE REMARKABLE CONNECTION BETWEEN CANNABIS AND COMICS IN THE EARLY DAYS OF POT PROHIBITION. BY CRAIG YOE





FOR MORE THAN 80 YEARS, the government lied to you about how bad marijuana was, and did it with a campaign of purposeful misinformation that included—whether you knew it or not—newspapers, movies, television and comic books!

The powers that be have been telling us that marijuana is bad for us for all our lives. Hell, it wasn't just bad, it was an almost-sentient evil alien life form with a sickly-sweet smell that would convert us into scratchy-throated pod people, taking away all our inhibitions, giving us a mindless super strength and causing us to run amok naked, attacking defenseless women, murdering our friends and pillaging the munchies aisle at the all-night convenience store down on the next block!

By the early years of the 20th century, marijuana was a relatively little-known drug in the United States. It was legal, but increasingly regulated under drug and poison laws. By 1924, 15 states had passed laws banning marijuana, alongside narcotics like heroin, cocaine and opium, except by prescription. Its base hemp plant, though, was still being widely cultivated for many products and applications, including paper and shirts. It was even utilized for construction use.

The rising popularity of cannabis

coincided with the lack of legal alcohol due to Prohibition, the controversial 13-year period created by the passage of the 18th Amendment to the US Constitution in 1920, which banned the manufacture and sale of alcoholic products. It would be repealed by the 21st Amendment in 1933.

It was in the liquor-free nightclubs of New Orleans where reeferers would come to be associated with jazz musicians. Jazz, like comic books, was a truly American art form and—loved or hated—it was the hottest craze of the 1920s. Its musicians discovered that a little puff or three loosened them up so they could write and play the wildly popular new music more creatively.

Jazz spread quickly to Chicago, Kansas City, Harlem and beyond, its “muggles” or “Mary Warner cigarettes” accompanying it every step of the way. Smoking reeferers began to spread to other aspects of show business and even high society. Cab Calloway sang about “That Funny Reefer Man” in a W.C. Fields movie. Bing Crosby and Louis Armstrong were known to be early weed proponents. One prominent pillar of society who presumably didn't partake was William Randolph Hearst, a major player in the history of both newspapers and comics! Hearst was an early champion of comic strips. He hired pioneering

cartoonist Richard Felton Outcault away from his rival, Joseph Pulitzer, and for years employed “Little Nemo in Slumberland” creator Winsor McCay as his editorial cartoonist. Outcault's “Yellow Kid” unintentionally contributed the phrase “yellow journalism”—sensationalized stories with questionable facts—to the American lexicon.

Hearst's papers certainly utilized yellow journalism when it came to marijuana, serving up lurid and gory scare stories that gave Middle America nightmares about the once-obscure drug. One famous Hearst headline boldly stated, “Marihuana Makes Fiends of Boys in 30 days: Hasheesh Goads Users to Blood-Lust.”

From time to time, even more prestigious outlets would veer into yellow journalism with stories such as the one headlined “Mexican Family Go Insane” that actually ran in the *New York Times* in July 1927.

Yellow journalism would soon become an unofficial weapon of law enforcement thanks to the efforts of one dogged, fanatical pot prohibitionist. It may seem hard to believe, but the fact is that many thousands of otherwise bright and promising young people (and some older ones, too) over the decades since had their entire lives

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disrupted and derailed by the actions of one single man back during the Great Depression. As far as marijuana is concerned, he's the real Big Bad of this story. That man was Harry Jacob Anslinger.

There were, of course, anti-cannabis crusaders before Anslinger. However, Harry, a former railroad detective, had been appointed in 1930 to be the first head of the Federal Bureau of Narcotics, a Treasury Department position he would hold for more than three decades. Calling cannabis "as dangerous as a coiled rattlesnake," Anslinger early on began his now-infamous campaign of disinformation to the public regarding the drug's effects, all with a clear and lofty goal of having the plant completely eliminated from American soil! Literally! Commissioner Anslinger was to pot what Dr. Fredric Wertham would later be to comic books.

One wonders, in fact, if the doctor might have used the commissioner's anti-marijuana campaign as a model for

his own anti-comics campaign a couple of decades later. In the early 1930s, when Anslinger first made himself known in the public consciousness, newsstand comic books as we know them today hadn't even been invented. When Superman leapt onto the scene at the end of that decade, criticism that comics were corrupters of kids began percolating. However, Wertham's Anslinger-esque condemnation of comics blasted into the 1950s, and he took advantage of the public's need for a scapegoat for juvenile delinquency.

On May 8, 1940, the earliest known attack against comic books appeared in the *Chicago Daily News*, written by literary editor Sterling North. North's breathless rant reads not unlike one of Anslinger's anti-marijuana screeds. Entitled "A National Disgrace," it starts by exclaiming, "Virtually every child in America is reading color 'comic' magazines—a poisonous mushroom growth of the last two years. Ten million copies of these sex-horror serials are sold

every month. One million dollars are taken from the pockets of America's children in exchange for graphic insanity."

In his 1954 comic-book-bashing best-seller *Seduction of the Innocent*, Wertham called one boy he interviewed in his clinic a "real comic book addict." In his attempt to save kids from this horrible addiction, Wertham addressed comics pertinent to our subject. "The comic book stories about drug addiction are an instructive angle. The lead story of one crime comic, for instance, deals with narcotics. It is clear from the wording of the advertisements that the book is intended for children: 'Dad and Mom will want it, too.'"

Wertham presented his twisted logic damning comics in magazines, on radio shows and in lectures. "All child drug addicts, and all children drawn into the narcotics traffic as messengers, with whom we have had contact, were inveterate comic-book readers," he wrote.

The doctor rants on, with this next passage being certainly something to munch on: "In the lives of some of these children who are overwhelmed by temptation, the pattern is one of stealing, gangs, addiction, comic books and violence."

Actually, crime comics were one point on which Wertham and Anslinger likely differed. Wertham was not a fan of crime comics in any way, shape or form, particularly when they featured drug use. Anslinger, on the other hand, must have secretly been overjoyed at the fact that crime comics like the ones in the *Reefer Madness Comics* collection promoted his agenda!

The doctor wasn't even impressed by the 1950s anti-drug PSA drawn by the eventually famous fantasy artist Frank Frazetta. Wertham was skeptical about the motive of the publishers running that ad, and probably not without some foundation. "This page is in reality just an advertisement for 'The Comics Magazine Industry,'" he wrote.

All of this was in the tradition of Anslinger's anti-drug rhetoric of the 1930s. The parallels between the two zealots are undeniable. Both men saw what they deemed a harmful addiction, a dangerous vice, and set out to have it done away with by rallying the general public to their respective causes. To that end, both men even testified at different times before congressional committees chaired by Senator Estes Kefauver. Wertham was bound and determined to ban comic books, even if (as Professor Carol Tilley discovered in his papers in 2013) he had to manipulate, exaggerate or flat-out fabricate the "facts" to fit his "truth." The exact same thing can be said of Harry Anslinger.



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Anslinger's push against pot came before Franklin Roosevelt assured Americans in his 1933 inaugural address that "the only thing we have to fear is fear itself;" that is, a time when Americans were pretty much afraid of everything. It wasn't hard for a man with an agenda to use those fears to his own advantage.

It was also in 1933 that Anslinger chose to make one Victor Licata the poster boy for his anti-cannabis campaign! Poor Victor had had a rough life, made some supremely bad choices and eventually killed himself. Along the way, he admitted that he had smoked some weed, so Harry was all over his story like Wertham on a kid stealing hubcaps!

You see, Victor was sort of a male Lizzie Borden. Known eventually in the headlines as the "Marihuana Maniac," one Florida morning he took an ax and killed his mother and father, his sister, his two brothers and the family dog.

Never mind that he and other members of his family had a long history of mental illness. Never mind that an attempt was made a year earlier to have Victor locked up for treatment. No, Anslinger's tunnel vision latched on to just one thing: Licata smoked marijuana. He smoked marijuana and he killed his family. There's your proof, doubters! Clearly, the boy would have been an outstanding member of the community if not for Satan's stash!

In a 1937 article in the *American Magazine* entitled "Marijuana—Assassin of Youth," ol' Harry gives Victor's story its goriest, most sensationalized version in classic detective pulp style. It would be brought up again and again and, along with 199 other bloody crimes with tenuous ties to toking, presented before Congress as proof positive that marijuana had to go, and go immediately! Everything from sex crimes to Communism was being blamed on "that funny reefer man."

Or on Mexicans and African Americans. One notable aspect that shines through the commissioner's own writings is his inherent racism. Then as now, immigration was a hot topic. Mexicans had been stereotyped in movies and in the press as lazy, lawless, locoweed-smoking rapists and killers.

In his testimony before Congress as part of his ultimately successful attempt to effectively criminalize the use or possession of the cannabis/hemp/marijuana plant for any reason, Anslinger stated, "There are 100,000 total marijuana smokers in the US, and most are Negroes, Hispanics, Filipinos and entertainers. Their Satanic music, jazz and swing, result from marijuana usage. This marijuana causes white women to seek sexual relations with Negroes, entertainers and any others."

This was unfortunately typical of Harry's often racist remarks on his pet fixation. He also said that "the primary reason to outlaw marijuana is its effect on the degenerate races." In his hysteria, he claimed it was even worse than heroin! Calling it "the most violence-causing drug in the history of mankind," he considered it such an overall monster of a drug that he also said, "If the hideous monster Frankenstein came face to face with marijuana, he would drop dead of fright." We all know, of course, that Frankenstein was the doctor, not the monster.

Reefer Madness, the infamous film that inspired the title of this collection, was released in 1936. With its ads screaming out that marijuana is "The Real Public Enemy Number One!" the notorious film has been reviled for its complicity in the successful passage of Anslinger's Marihuana Tax Act of 1937, which was written and implemented in such a way as to effectively outlaw the growing, selling, possession and use of marijuana, as well as establishing stiff penalties for offenders.

Originally christened *Tell Your Children*, the unintentionally camp movie was reportedly commissioned by a church group to warn parents and teachers about the evils of the "Devil's Weed." Low-budget producer Dwain Esper got hold of it and stretched it out with newly shot scenes. A little over an hour long, *Reefer Madness* portrays "the melodramatic events that ensue when high school students are lured by pushers to try marijuana: from a hit-and-run accident, to manslaughter, suicide, attempted rape, and descent into madness." Esper didn't care how accurate his releases were, just that they were over-the-top sensationalized. He released his now-racy propaganda flick on the exploitation movie theater circuit, and it was successful enough to warrant a sequel of sorts,



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REEFER MADNESS COMICS

Marihuana. The posters for these twin tell-alls screamed “Women cry for it, men die for it!” and promised filmgoers would see “Weed with roots in hell, drug-crazed abandon, shame, horror, despair, lust, crime, hate, sorrow, misery, weird orgies, wild parties, and unleashed passions.”

These 1930s movies are incredibly boring, possibly then, certainly now. The delightfully dire titles and their wonderfully vulgar posters are, not too surprisingly, the real draw. To find these badly acted, lowest-of-low-budgeted films entertaining, college students of the 1970s and YouTube surfers of today would have to be pretty high. Maybe they were, and are. Still, the movies are fascinating cultural artifacts.

As the word spread that marijuana could enhance one’s creativity, more and more artists smoked muggles, and that included Golden Age comic book talent. Interviewed in *Comic Book Artist* magazine about his work in the 1940s, Howard Post spoke of an artist that helped him on a big assignment with a high-pressure due date for a children’s comic: “A legend in the industry by the name of Holly Chambers did two-thirds of the work, saying, ‘Keep the money.’ He worked overnight to do it; he’d buy himself half a pound of marijuana, seal up the doors and windows, and work through the night. I came in the next morning to find a tremendous amount of work; he’s slumped over the desk in this fog of smoke with finished drawings stacked up by his desk. It was fantastic.”

If cannabis gave some comic book creators inspiration—or, at least, medicated them enough to get them through a tough deadline—it also gave them some plot ideas à la *Reefer Madness*. And the anti-pot comic book stories are actually far more entertaining than their film counterparts. Exactly one year after Superman debuted in *Action Comics #1* (June 1938), the Man of Steel’s creators, Jerry Siegel and Joe Shuster, had their crime fighters in “Federal Men” battling marijuana pushers in *Adventure Comics #39* (June 1939) in a tale titled “Reefer Madness.”

A number of genres of comics came out against marijuana, not only crime comics but also romance and adventure. In the latter category, *Danger* was an interesting title composed of stories about macho men. *Danger #4* (July 1953) contains an engrossing marijuana story titled “The Border Patrol’s Never Ending Fight Against Narcotics.” The stereotypes of Mexicans, their speech patterns and the racial slurs are to be condemned by today’s more sensitive times, but the story remains a



COMIC BOOK PUBLISHERS AND EDITORS MAINTAINED THAT IT WASN'T THEIR PRODUCT THAT CAUSED YOUTH TO TURN TO CRIME... COMIC BOOKS STATED THAT “GOOFER STICKS” ARE A “DEADLY FORCE THAT DEADENS THE MIND TO ALL THOUGHTS BUT MURDER.”

fascinating and unique part of the comic book marijuana oeuvre.

“International Public Enemy #1,” a crime story found in *Wanted Comics #13* (May 1948), reads: “Statistics show that the use of dope (such as heroin, opium, marijuana, etc.) is, and has always been, the cruelest torturer and the most ruthless murderer of mankind in the history of the world.” *Wanted*, with this grisly story picturing Satan, drug addicts strangling women in their negligees, prostitutes by the waterfront and machine gun murders between mobsters, was intended for kids and put out by an outfit with the whimsical name Toytown Publications.

“International Public Enemy #1,” deemed a “true story,” presents “souped up smokes” as a gateway drug to harder stuff. Testifying before Congress, even Anslinger admitted that there was no evidence of that. When Congressman John Dingell said, “I am just wondering whether the marihuana addict graduates into a heroin, an opium, or a cocaine user,” Anslinger replied rather definitively, “No, sir. I have not heard of a case of that kind.”

Other stories like “Satan’s Cigarettes,” with art by Jerry Robinson and Mort Meskin, focus just on weed and its mob-connected distribution. Ironically, the distribution of comic books themselves was part of organized crime, though, unlike marijuana, sales of comics were over the

counter rather than under.

Do-gooders like Dr. Wertham lambasted crime and horror comics for their supposed corrupting content rather than their mob-related distribution. Wertham was joined by religious and PTA groups across America. In *Seduction of the Innocent*, Dr. Wertham contended that comic books inspired violent crimes committed by the youth of the '40s and early '50s. The anti-comics hysteria he stirred up made its way into congressional hearings on juvenile delinquency and ultimately to self-censorship of comics.

Comic book publishers and editors maintained that it wasn’t their product that caused youth to turn to crime. The stories in *Reefer Madness Comics* point the finger at marijuana, which “hops up” unsuspecting teenagers. Comic books stated that “goofy sticks” are a “deadly force that deadens the mind to all thoughts but murder.” If the purple prose isn’t convincing enough, we see in the four-color pulp pictures of *Weird Comics #17* (August 1941) “crazed lad” Jeff who, after smoking a reefer, savagely takes a big hatchet to Miss Tilbury, his shapely blonde schoolteacher. The text reinforces that the marijuana-addled teen student “runs amuck, smashing with a fire-ax wherever it may land.”

It takes superhero the Dart and his youthful boy companion, Ace Barlow, the Amazing Boy, in their colorful uniforms and with big red arrows protruding from their belts, to thwart the mobsters behind all this mayhem that poor, innocent Jeff has caused. The Dart and Ace defeat the pushers and unselfishly make the world safe for shapely blonde schoolteachers!

These guys were costumed crime fighters whose adventures were put out by small publishing companies. Long-johns-sporting, big-name uber-crusaders like Superman, Batman and the Human Torch were busy fighting super villains and sat out the weed whacking.

Finally, from 1966 we have the innocuously titled *Public Health Service Publication #1610*, a.k.a. “Hooked!” This is arguably the most well-known of the anti-drug comics published by the government. That’s right, in spite of the fact that Congress came close to an attempt at shutting down the comic book industry a decade earlier, in time the US government developed quite a business in using the format for public service educational comics, sometimes even featuring familiar characters. ✱

This excerpt from Reefer Madness Comics was edited for space. Order this highly recommended and fascinating cannabis comic collection at yoebooks.com.

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Now is the time for smart home growing

In case you haven't noticed, cannabis is all over the news. It could be argued that cannabis IS the news, or at least the only news worth talking about.

As so many states within our glorious nation and so many other entire countries around the world begin to wrap their heads around legalization and what it means to them, many people find themselves for the first time considering the idea of growing some weed for themselves.

I, for one, applaud this idea. It's not just because I work in the industry. It's because when people start growing their own, they begin caring a bit more about themselves and the world around them. Not necessarily in a hippie, free love way (not being critical or judgmental. just sayin'...) but in a well-being sense and perhaps even a heightened awareness.

People have been farming since as close to forever as anyone within our species can reckon. Many have moved that farming indoors. Of course, if you're going to grow indoors, you're going to need a light source, since plants tend to like that. You'll need a high-quality source, like, for example, Spectrum King's Closet Case 140 watt grow light.

So if you decided you want to join the growing game, it's always best to start with a small and easy set-up. The Closet Case 140 watt grow light is a simple-to-use fixture that allows you to start growing cost effectively, has a 5-year warranty, is IP65 rated (safe for use in wet and humid environments... like grow tents, closets or rooms) and it's only \$219.00.

Let's face it, a primary benefit of growing your own is cost. With a light like the Closet Case 140, you save a ton of money on your electricity bill because it pulls a lot less power from the wall. In addition, the Closet Case 140 doesn't generate a lot of heat, and that saves on air conditioning costs. So not only do you save money, you also get great yields and better buds.

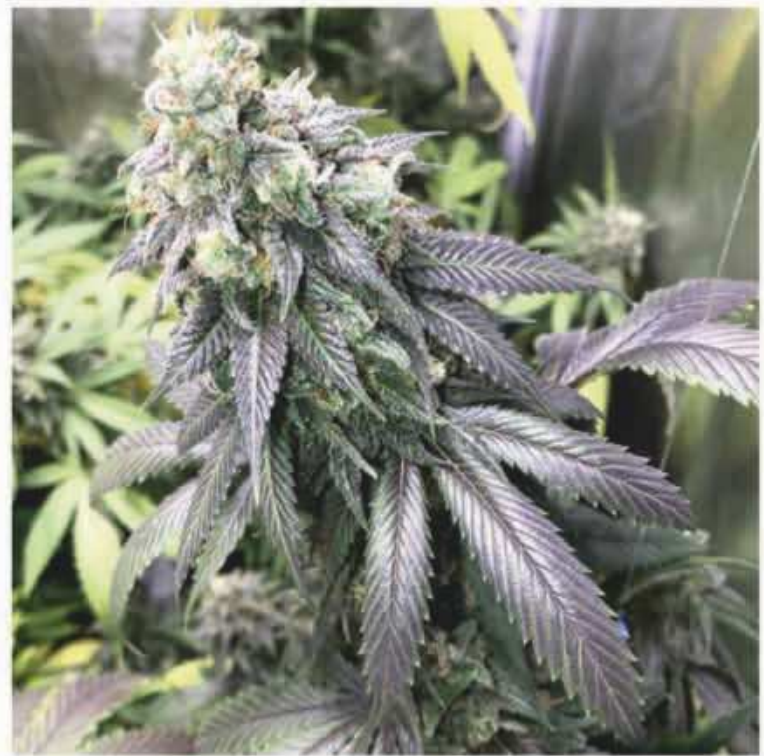


The Closet Case 140 side & front

One important point - avoid the risk of buying something off a website just because it has a low price. The saying you've heard all your life is all too true; you get what you pay for. Instead, look for positive reviews and lots of them to make choosing much safer.

Here's a typical review of the Closet Case 140:

"The little light that does!!!! Great light... great results... and little heat. If you are having second thoughts...buy this light and you will never again have second thoughts. I liked the first one so much I bought another one."



Sour Diesel under Closet Case 140 in a tent

When you're going to spend your hard-earned money, it's always a good idea to do some research first. Seeing which brands of lights have actual customer testimonials and videos across the myriad of social media platforms showing what they can do...

If your state (or country) allows you the luxury of a legal little patch of heaven to grow your own and you find yourself rejoicing at the thought of doing just that, then give the Closet Case 140 watt grow light a look. You may very well have found the right tool for the job.

With a little time and not much money, you can have plenty of great weed. Growing cannabis indoors makes for a rewarding hobby which, who knows, could become a new career choice or at least something to look forward to whenever you get home. Think about that for a minute...

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CANNABIS, CONCENTRATES & CLOWNS AT THE MIDWEST CUP

HIGH TIMES RETURNS TO MICHIGAN FOR A LATE-SUMMER CELEBRATION OF ALL THINGS CANNABIS. *BY AB HANNA, PHOTOS BY JESSE FAATZ*

Hometown
heroes Insane
Clown Posse
headline the
Midwest Cup.



Super-charged
terps: THCA
crystals from
Grateful Meds



Highway 710 took top honors in the *Indica* and Hybrid Concentrate categories.



Black Cherry Cheesecake Cookies by Goeyman



Cup goers sample the goods at the Grateful Meds booth.

IN SEPTEMBER, medical-marijuana patients in the Midwest looking for the best medicine around gathered in Clio, Michigan, at the Auto City Speedway for the High Times Cannabis Cup. Earlier this year, the first Midwest Cup (held in June) was so well received that we had to come back for seconds. This time around, there was even more to see, smoke and do—from free dabs and goat yoga to performances by Michigan’s own Insane Clown Posse and the internationally renowned rapper Nas.

During the week of the Midwest Cup, judges gathered at the Vehicle City Social Club—a private, members-only venue where medical-marijuana patients come to medicate and socialize. The owners were kind enough to allow judges to test out entries in a friendly environment.

When the Auto City Speedway opened on Saturday, September 8, legions of cannabis enthusiasts circled the venue’s racetrack to do some judging of their own. Whether they were flavor or potency chasers, there was something for everyone at the Midwest Cannabis Cup. A few gems we found while lapping the racetrack included the sweet-smelling Watermelon Zkittles, from Mi Terp Farmz, and the gassy Stankbreath, from RipT Genetics, which tested close to 35 percent THC.

In addition to free dabs at most booths, attendees were able to sample a wide variety of vape cartridges provided by

LEGIONS OF CANNABIS ENTHUSIASTS CIRCLED THE VENUE’S RACETRACK TO DO SOME JUDGING OF THEIR OWN. WHETHER THEY WERE FLAVOR OR POTENCY CHASERS, THERE WAS SOMETHING FOR EVERYONE.

vendors like Claw, Flav and LightSky Farms. Seed seekers had plenty of options, including California’s Exotic Genetix, which brought its line of award-winning varieties. Mike from Exotic would eventually make his way to the stage during Sunday’s awards show to collect Cups in multiple categories, including Best Flowers and Best Booth.

There was plenty of non-solvent hash to sample at the Green Thumb for President and Jugo Hash booths. And the Organic Mechanic’s booth offered up its press and expertise to anyone with flowers or hash in need of squishing.

The MAC #1 strain, grown by Cannaboys from coveted seeds by Capulator, was both a crowd and judge favorite. The MAC flowers, concentrates and moon rocks earned Cannaboys a Cannabis Cup in three different categories at its first-ever competition.



Nugs on display



A giant slab of BHO



HIGH  **ENGLISH**

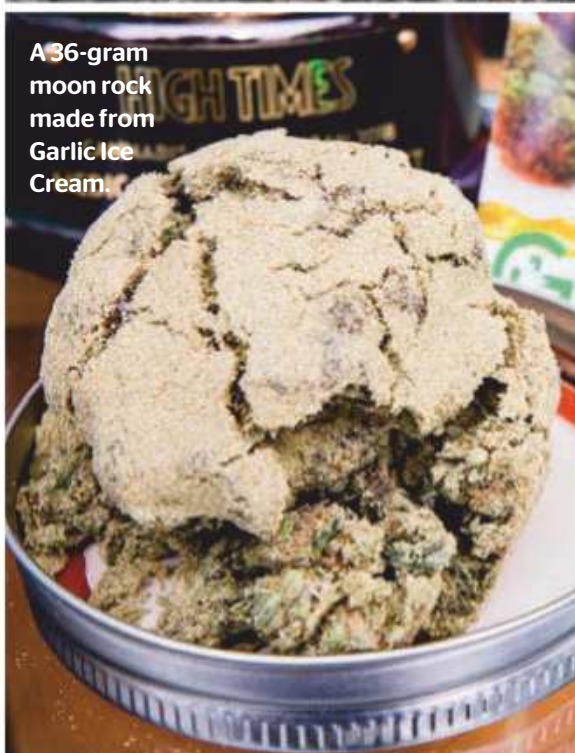
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Goat yoga. Not baaaahd...



Nas closed the Cup with a masterful performance.



A 36-gram moon rock made from Garlic Ice Cream.

MASSIVE MOON ROCKS

If you were feeling lucky at the Cup, the Grateful Meds booth was the place to be as the largest moon rock we've ever come across—a whopping 36 grams!—was auctioned off. Grateful Meds' Pure Detroit Caviar moon rock placed first for Best Medically Infused Product at the previous Midwest Cup held at Auto City Speedway in June.

Even if you weren't in the running for the massive moon-rock giveaway, you could still dab like a champion out of the Grateful Meds Cannabis Cup trophy. There was a custom one-of-a-kind rig built to fit on top of the prestigious award.

GOAT YOGA

One of the highlights of the event was the opportunity to partake in stoned goat yoga. Goat yoga is a mystery to most. We're not sure if baby goats enhance the meditation process, but pairing them with weed definitely attracted more people to the concept of bending while breathing deeply.

DABS FOR DAYS

There was no shortage when it came to free dabs at the Midwest Cannabis Cup. In fact, Beta Glass Labs set up a dab bar with several of its rigs in the VIP section. The e-nails were attached to quartz nails with bubble caps for more flavorful low-temperature dabs than you'd get on a caked-up titanium nail. There was even a popular Peak smart rig by Puffco with a Beta Glass Labs Petra attachment on top for people to try out.

710 Highway and others supplied enough meds to ensure there was no limit to the size or number of dabs a VIP attendee could do. Not to mention that two of the varieties they

offered up to Cup-goers ended up winning Cannabis Cups.

OWN A PIECE OF HIGH TIMES

If you heard High Times was going public and wanted more information, the Midwest Cannabis Cup was a great way to learn more about the opportunity. There was a booth dedicated to answering any questions you might have about investing in the 44-year-old company.

FREE FAYGO AND NASTY NAS

The Saturday-night headliners had a Broadway-style stage set up with a creepy clown vibe. During parts of ICP's performance, clown-masked dancers came out and waved flags with the group's logo while the posse baptized them in diet Faygo. Throughout the performance, the soft drink was repeatedly rocket-launched from the stage into the depths of the crowd—a hallmark of ICP's live show. Even the people at the back of the venue weren't safe from the flying Faygo.

Leaving the venue coated in sugar water and sweat on Saturday wasn't the nastiest aspect of the weekend. After a showstopping performance at the SoCal Cannabis Cup, nasty Nas returned to the High Times stage, this time in the Midwest with a new album in his discography. He started with a few classics before diving into a track from his latest album, *Nasir*. In between his sharp rhymes, a screen shared various images including ancient Egyptian hieroglyphs and street scenes from the Queensbridge projects. Nas' lyrical performance was the perfect end to a weekend full of fire weed, perfect weather and good vibes. ✨



Distillate up close and personal

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MIDWEST CANNABIS CUP WINNERS

BEST INDICA

1st Place: Tina by Exotic Genetics

2nd Place: Adam's OG
by Herbal Solutions Ypsilanti w/
Leaf Doctor

3rd Place: MAC #1 by CannaBoys

BEST SATIVA

1st Place: Aladdin's Monkey
by Boogie Down Pharmz in
collaboration w/ Green Genie

2nd Place: Mimosa by High Level

Health

3rd Place: Paradise Circus
by Exotic Genetics

BEST HYBRID

1st Place: Tropicana Cookies
by CYCO Nutrients in
collaboration w/ OG Turtle Juice

2nd Place: Cream 'N Tina
by Exotic Genetics

3rd Place: Wedding Cake
by Herbal Solutions Ypsilanti

BEST CBD FLOWER

1st Place: CBD3 by Herbal
Solutions w/ Walker Wade Labs

BEST INDICA CONCENTRATE

1st Place: Jedi Cookie Live Resin
by Highway 710

2nd Place: Garlic Breath x

Milk N' Cookies Live Resin FSE
by Smoking Good Extracts Grown
3rd Place: F-Cut by Herbal
Solutions

BEST SATIVA CONCENTRATE

1st Place: Super Lemon Haze
Live Resin by Ghostbudster
Farm in collaboration w/ George
Waxington

2nd Place: MacBurst Sauce
by CannaBoys w/ GW Distillate

3rd Place: NTB Eastside Sativa
Live Resin by Herbal Solutions

BEST HYBRID CONCENTRATE

1st Place: Blue Berry Haze
by Highway 710

2nd Place: Blueberry Kung Fu
Cookies Live Resin Sauce by Pure
West Compassion Club w/ Kung
Fu Vapes

3rd Place: Chemberry Diesel
Live Resin by Ghostbudster
Farm in collaboration w/ George
Waxington

BEST CBD CONCENTRATE

1st Place: Startonic Live Resin
Distillate by LightSky Farms

2nd Place: Grandma's Citrus Jam
by Dank Rapids Extracts w/ Oro
Clear

3rd Place: Huckle Live Resin
by Dabsmiths in collaboration w/
First Class Gardens

BEST EDIBLE

1st Place: PB Cup Cheesecake
by Afternoon Delite

2nd Place: Cannidote Tablet
by Cannidote w/ Radicle Genetics

3rd Place: Straw-Nana Chronic
Crunches by Herbal Solutions w/
Shatter House Extracts

BEST CBD EDIBLE

1st Place: My Wellness Bar
by Herb & Legend w/ Goodyman

2nd Place: Oloo Bhaji Organic
Vegan Curry by LightSky Farms

3rd Place: Highly Effective
Capsule Series by Zilla's
Performance Products

BEST VAPE PEN

1st Place: Electric Peanutbutter
Cookie Vape Cart by LightSky
Farms

2nd Place: King Louie Vape Cart
by Gold Drop Michigan w/ Herbal
Solutions and Blue River

3rd Place: Obama Kush VFire Pod
w/ Claw VFire Battery by Claw

BEST CBD VAPE PEN

1st Place: Lemonhead Distillate
by G & G Distillates w/ Dub
Apothecary

BEST NON-SOLVENT HASH

1st Place: Cream D'Mint Live
Rosin by Wojo Wax

BEST PRE-ROLL

1st Place: Deathstar Preroll
by Goody Swish Dipz

BEST MEDICALLY INFUSED PRODUCT

1st Place: Chocolate Raspberry
Truffle by Next Level

2nd Place: Solar Flare by Kozmic
Gardens w/ Radicle Genetics and
Superior Flowers

3rd Place: Mac Rocks
by CannaBoys

BEST TOPICAL

1st Place: Extreme Pain Relief Rub
by Chill Medicated

2nd Place: CBD Infused Essential
Oil Trio by Ella Essential CBD w/
Radicle Genetics

3rd Place: Olympian Battle Cream
After Sport by Choice Labs

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HIGH TIMES CANNABIS CUP
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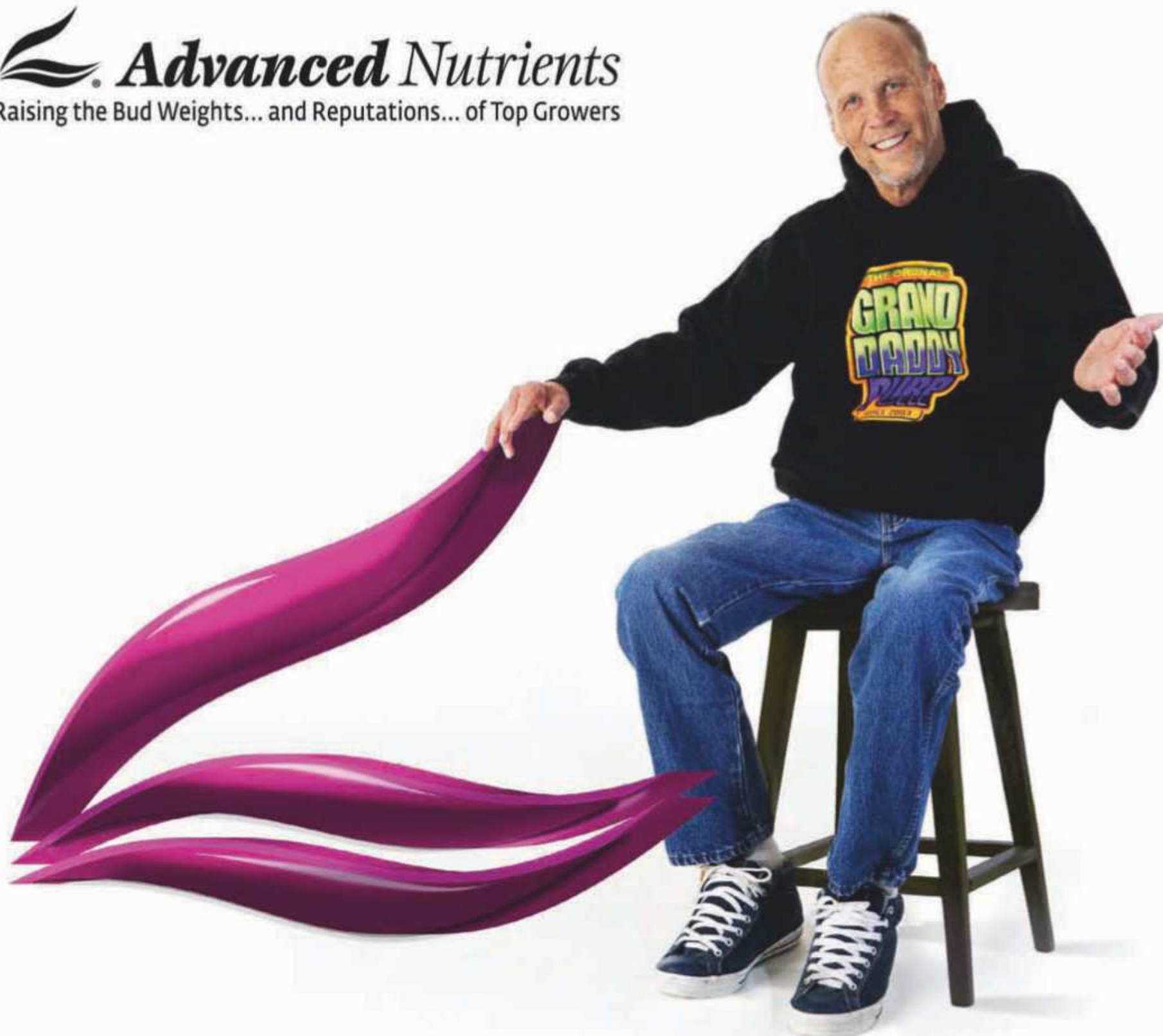


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ALWAYS TRUST A HIPPIE

AN INTERVIEW WITH RICHARD PRINCE

WITH A FRESH CROP OF PAINTINGS ON VIEW AT THE GAGOSIAN GALLERY IN NEW YORK, ARTIST RICHARD PRINCE TALKS ABOUT THE CREATIVE PROCESS, COLLECTING AND HIS NEW CANNABIS BUSINESS. BY BILL POWERS

Do you think it's helpful creatively to have something to push back against? Rather than staring down the void of an empty canvas?

In the end, I like to work alone. There are two factors which are very important when I'm working in the studio. One is the music I'm playing. The background for all the hippie paintings is Bob Dylan's *The Basement Tapes* from 1967. They recently reissued 147 songs. In 1975, they only issued 22 songs. So now I'm getting to listen to the entire set. That's my studio assistant! The other thing I'll do in the studio is take a picture with my iPhone of a new guy I just painted, then I'll screen-save it and email it to my inkjet in Harlem. When I drive to the city, I'll pick it up. So the printer is my other studio assistant.

Do you consider what you're doing here a form of re-photography?

Over the years, I've gone in and out of generating work from an original source. But it always made me a little uncomfortable



BILL POWERS

Richard Prince reflects on a new creation.

because I like the idea of inherent meaning. I was thinking about this today. I like a little nonfiction in the work so it's grounded in reality.

I think it was [painter/graphic artist] Robert Rauschenberg who said if you want to make art about the world, it helps to put some of the real world in it, which was his reasoning for including found objects.

Exactly, and that's why so many artists have used newspaper in their work. It's the greatest source material of all time. When the hippie drawings started, the concept was How would





Prince has titled his new collection of hippie drawings "High Times."



a hippie draw? It's almost as if I wasn't making them. I made a book of them with Sadie Coles but we never did a show of the hippie drawings. Now, 20 years later, I'm continuing the hippie drawings as paintings, and I decided to call this body of work "High Times." Three years ago, *High Times* magazine published one of my hippie drawings on the cover [of the September 2016 issue].

And then other people started asking you about them?

Yes, Q-Tip from a Tribe Called Quest and a few other

THE POLITICIANS IN POWER WERE SO AFRAID OF YOUNG PEOPLE AND THE FREEDOM THEY WERE TRYING TO EXPRESS. THE SUPPRESSION OF THE FREE HEALTH CLINICS, ALL THE DRUG BUSTS, THE AMOUNT OF CRONYISM. NOTHING HAS REALLY CHANGED.

people. So I thought, "Hey, maybe I should dig them up." I got a few framed. And then with this new process I could scale them or repeat them and filter the drawings through the inkjet machine. Then I remembered that I had actually made a few hippie paintings in the 1990s as silk screens. But the first hippie paintings

were more like a cartoon with a joke at the bottom.

Are there hippie cutouts all over the floor of your studio? Are you thinking about Matisse?

Not really, because mine are made on these big rolls. I roll them out on the floor and start cutting around the edges. There might be 50 images on a roll.

Do you think of these paintings as cut-and-paste in the truest sense of the term?

Yeah, why not? The technique is very simple—I cut them out and paste them with heavy gel medium. It's a very satisfying way to attach the image to the surface. You squeeze them on.

Which you used for the Rasta paintings, too, right? Where you'd see drip marks coming down over the edges.

Except those were pasted with white paint.

There are some fighters in these new paintings. I always wondered if they weren't a reflection of your frustration with our current state of politics in America.

When I came upon the fighters, I started to think about MC5, John Sinclair and the White Panthers. I was basically involved in all of that. I was thinking about the hippie [idea] of peace, love and understanding, but then I'm reading this book about San Francisco right before the Summer of Love and you see so much political corruption and suppression. You realize how the politicians in power were so afraid of young people and the freedom they were trying to express. The suppression of the free health clinics, all the drug busts, the amount of cronyism. Nothing has really changed. This is why I like the title "High Times"—it can relate my past experience but also my contemporary experience, right now! My fighters are based on these primitive 15th-century drawings. They have spears. They're jousting. They have armor on. Somehow when I drew them they got even more primitive. And overall it made the hippie paintings more of my own territory by adding them. It's also very similar to what [happened recently] in Washington, DC, with the Unite the Right rally. There were barricades and



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shooting and shoving. Nothing has really changed. Only we weren't battling neo-Nazis.

You mentioned Bob Dylan earlier, but there are other musical influences at play in the hippie paintings.

One of the very first drawings was called Hippie Punk, a little black-and-white drawing. Then I decided the show should start when I was born, 1949, so it would have to include beat, then hippie, punk. Now, I can't include everything, so I jump to hip-hop or rap—which I call “hop”—and lastly under the umbrella of house/dub/

electronic you have trance. So the subtitle for the “High Times” show is “Beat, Hippie, Punk, Hop, Trance.” That's the way I can say it in a sentence. It's chronological, and I know a little about each of the genres. I collect literature from each of those movements. The only thing my library is particularly light on is trance because it's a relatively new phenomenon.

A library will be part of the exhibition?

[Architect] David Adajaye is building us a cylindrical library for the show. It's almost like a tornado cone,

a big tube you can walk into with very high shelves.

You've been described as a collector of history. You have some real treasures, including Hunter S. Thompson's manuscript for *Fear and Loathing in Las Vegas*.

I think “wild history” is probably the way I would explain the history that I'm interested in. The show catalog will have some examples of that, like a reproduction of the postcard Jimi Hendrix wrote to his father—“Hey Dad, I'm going to London to start a band.” Those kinds of keepsakes will be embedded in the book. I

don't know why I find this material so interesting. Maybe it's because it would get lost otherwise? I think my interest might also stem from the fact that when I grew up, we didn't have any books in the house. My psychiatrist explained it to me that having a library is a form of insulation, my way of insulating me from the real world. It tamps down the sound. It blocks out the view. I don't have to leave the room. I can immerse myself.

The older I get the more meaningful it is to live with art by people I know firsthand.

It's about a personal connection, yes. In the end, it's about pleasure, what makes you feel good. Which for me is art and literature and music.

Music is clearly a vital part of your painting process. Do you agree with Ryan McGinley's assertion that you should be mindful about what music you listen to because sometimes it's easy to confuse the lyrics for your true feelings?

I was listening to *The Basement Tapes* over and over again. You listen to bootlegs of his *Blood on the Tracks*, there's so many versions. The final record that most of the public knows has very little to do with where it starts out. I own one of the original lyrics to “Like a Rolling Stone.” I just like having that information.

I've already heard people comparing these hippie paintings to Basquiat.

I would say they're closer to Dubuffet. Basquiat is more graffiti-like. His paintings have more writing in them. If anything, the hippie paintings started off by me redrawing a de Kooning book. I think if you really examined that book, you'd see his influence, especially in the anatomy. Some of the anatomy also comes from Picasso. What a lot of people don't remember is that I was

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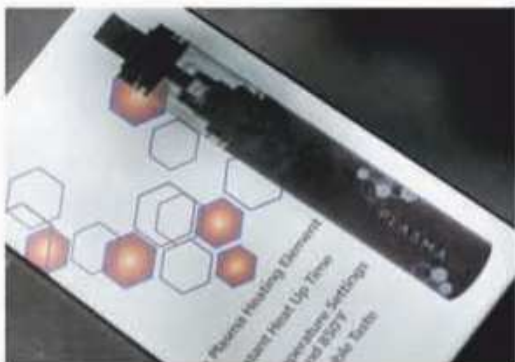
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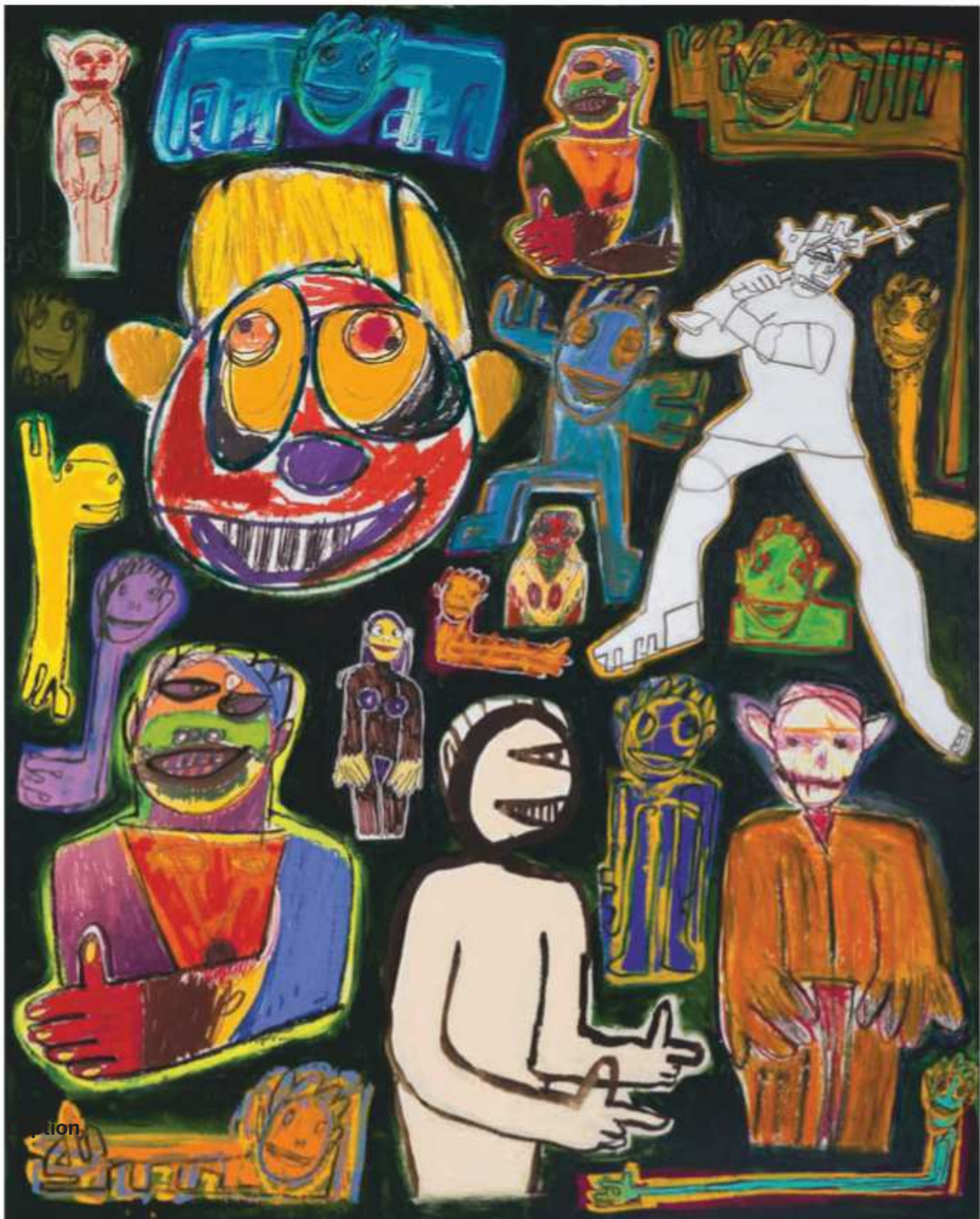
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AN INTERVIEW WITH RICHARD PRINCE



drawing what I called deadheads with a ballpoint pen in 1974. The deadheads are the real beginnings of the hippie paintings. Basquiat is so popular right now that it's easy to make the comparison. I'm not here to educate. But I certainly don't mind the association. Listen, I know what I did, when I did and why I did it.

I trace the origins of the “High Times” paintings back to the photograph you took at Woodstock. You didn’t take a picture of the bands. You took a picture of the crowd.

The sun was going down. I was with this girl. We had just split a tab of acid. I spun around and took the picture. I look back on that moment now and I like to quote Rauschenberg when he went to an Ad Reinhardt show of all black paintings. Rauschenberg spun around a few times and said, “I like that one.” Essentially, that’s what I did. It was

more about throwing the picture away because I didn’t want to be haunted by the opportunity. I didn’t see the picture for a good year because it was on my mom’s camera roll. I didn’t even remember taking it. I thought of it more as evidence.

When is the last time you smoked weed?

Pretty recently because I’ve gone into the weed business. I’m developing this strain called John Dagg. There’s four strains: Mother, Dad, Brother, Sister. The first grow will be 100 pounds, 70 of which will be for sale. The growroom is in Palm Springs. We’re testing it now.

John Dagg is one of your aliases, which also include Howard Johnson, Joan Katz and Fulton Ryder.

I think of them more as pseudonyms or noms de plum. “Alias” has an air of illegality. ✨

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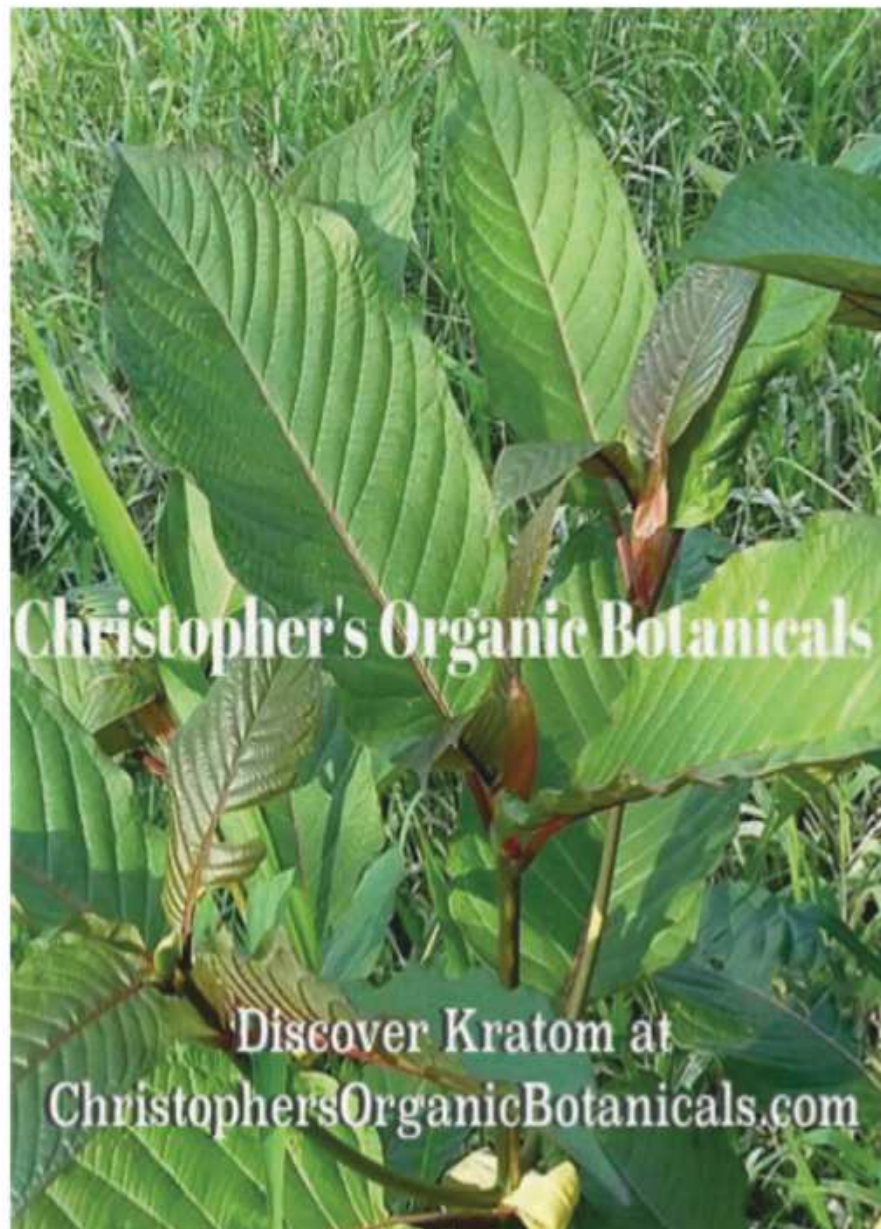
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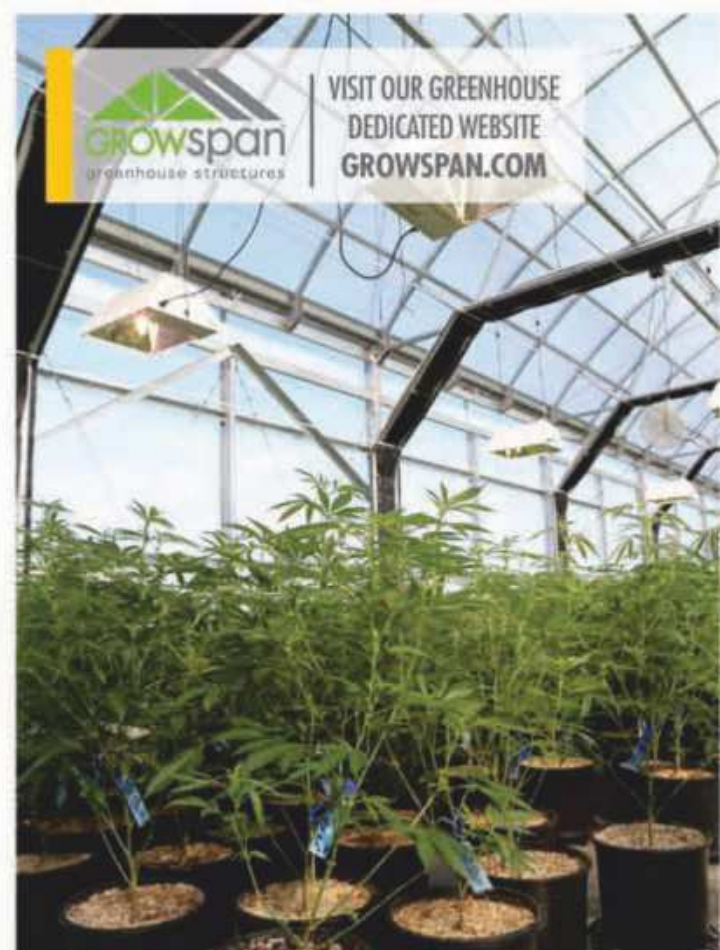
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DEAR DANKO by @DannyDanko




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Send your cannabis cultivation questions to [@deardanko](#) or deardanko@hightimes.com.





SUBJECT: **Ladybugs**

FROM: **Willie BoBo**

🐞 Will ladybugs really kill all the bugs in my garden? I grow my weed plants outdoors among many other organic herbs and vegetables, and there's constantly one infestation or another. I can get live ladybeetles at my corner store in town, but I'm wondering if they're worth it.

Dear Willie,
Ladybugs will feast and gorge on many of the pests in your garden, but when the pest population diminishes, they'll quickly move on, leaving mature vegetarian bugs as well as their eggs behind to continue plaguing you. Ladybugs are a migratory insect, but they're still a great organic way to attack spider-mite, scale or aphid infestations temporarily in order to decimate the ranks of these nuisances. It's important to utilize an integrated pest-management system to control pest populations, though, and predatory insects are just a part of the whole process.

Carnivorous ladybugs devour spider mites and other vegetarian insects.

Danko Tip: To avoid misdiagnosing a pH fluctuation as a nutrient deficiency, always check the pH of your nutrient solution and growing medium.



Always maintain proper humidity levels while drying plants.

SUBJECT: **Re-Vegging Plants**

FROM: **Sallie R.**

🌱 I'm a big fan of your column in *High Times*, and I almost always agree with your comments on growing. I've been growing for about 20 years in SoCal using our great weather to get two outside crops per year. I've used the re-veg method for several years, which gives me two harvests from each plant, and I almost always get a larger harvest the second time around.

I have not done this inside, but I use it all the time on my outside grow. I start my plants from seed or clones inside in January under lights and keep the plants in 7-gallon containers. In March, I move the plants outside for them to start to flower, and I get a harvest in May or June. At that time, I cut most of the buds off and leave some leaves on the plants along with about 8-12 inches of stem. I seal the ends of the stem with tape. I do not feed and I water lightly until I see new growth, then replant into 10-gallon containers and start

to feed again with grow food.

I get a second harvest in the fall, usually in September or October. I have done this with several *indicas*, but not *sativas*. My *sativa* strain, Blue Train, is too large and takes too long to veg and bloom, almost nine months.

Several of my friends are also doing this, and they report the same results. Next year, I'm going to take more pictures and record the results to write a paper on how to do this so everyone can take advantage of this gift from Mother Nature.

I know part of my success is due to the great weather I enjoy in Southern California and the fact that I have a lighted greenhouse as well as a growroom to control the light for the plants.

Dear Sallie,
Thanks for the tip! It's great to know that re-vegging plants works for you. It sounds like you're in the perfect climate to be able to harvest more than once from the same plant.

SUBJECT: **Humidity While Drying**

FROM: **Dan**

🌱 I've got a quick question about drying and humidity. I live in NorCal and typically have pretty dry air in October. You mentioned that humidity should be around 50 percent in the drying room. Should I buy a humidifier? Should I use it from day one of the process (during the cutting and hanging)?

Dear Dan,
Yes, you should purchase a humidifier for your drying room if the humidity is less than 40 percent. Buds that dry out too quickly taste harsh and burn improperly. A slower drying process allows the chlorophyll to break down and improves the final product immensely. Use the humidifier from day one and make sure to use a humidistat to maintain the levels you want. Plants give off plenty of moisture in those first few days of drying, so it's important to dial in your levels at all times.

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DEAR DANKO

Danko Tip: Transplant clones into larger containers as soon as you see roots emerge from their cloning medium.



Moving plants outdoors into sun increases yield and essential oil production.

SUBJECT: **Supplementing With Sun**

FROM: **Alex**

🌱 First, I want to say thank you. Your *Free Weed* podcast convinced me to get legal and start my first medical grow! Keep up the amazing work! You've made a lifelong fan.

I'm growing some Grand Daddy Purp indoors in soil. All organic, of course. I've noticed my back patio gets amazing California-afternoon sun. I can't grow out there permanently, but I was curious about maybe sticking the plants outdoors for a few hours every day. Would this help supplement my high-intensity-discharge (HID) lighting, or would the back and forth just confuse them and do more harm than good?

Dear Alex,

Glad you enjoy the podcast, and it's nice to know I've inspired another freedom garden. You'll find growing legally to be very enjoyable with the added benefits of knowing exactly what goes into your medicine.

Placing your plants outside for a couple of hours into full sun won't hurt a bit; in fact, it can only help. As long as they're supposed to be receiving indoor light, you can supplement this by putting them outside for sure. Just don't ever put them out during indoor "nighttime" hours. You never want to interrupt the 12-hour dark period during flowering.

SUBJECT: **Harvest Before Frost**

FROM: **Mike T.**

🌱 I live in Wisconsin, and my plant has milky trichomes with very dense buds. My problem is that the temperature will be in the 30s all weekend. The trichomes just don't want to turn amber. My buds are forearm size, but this is my first outdoor grow. Should I harvest before the frost or ride through it?

Dear Mike,

You can harvest today in order to beat the frost! The ideal time to harvest is when the trichomes are cloudy and not yet amber. Once your trichomes have turned mostly amber, it's actually a little late to harvest, and you certainly want to harvest before a weekend of freezing temperatures. If you still think it's too early and you'd like to extend your flowering time, cover



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DEAR DANKO

Danko Tip: If you constantly have trouble with your available tap water, invest in a reverse-osmosis (RO) machine to remove impurities.

your plant with a clear greenhouse structure (such as a hoop house) in order to keep it warmer inside, which will allow the plant to survive longer.

SUBJECT: **Root-Bound**

FROM: **JP**

🌱 I just harvested an indoor plant. It has grown into various-size pots along the way since February. When I grabbed the stump of the plant after harvest, the roots appeared to have not spread out into the larger 10-gallon pot. It still looked like the 3-gallon root-bound pot. There were a few small roots growing down into the larger pot, but it didn't look like they spread out. Should I have broken or spread the root-ball open a bit when I planted it into the 10-gallon pot?

Dear JP,

Indeed, you should have gently broken apart the root-ball prior to transplanting it into the larger container. When you transplant a root-bound plant, the roots have a tendency to stay inside the prior parameters and not extend outward into the new growing medium. For proper transplantation, water the plant first to keep the soil ball intact. Then gently remove it, carefully holding the main stem of the plant. Loosen the roots at the outskirts of the root-ball and then place it onto your prepared growing medium. Backfill with more medium and water it all in for best results.

SUBJECT: **Start Me Up**

FROM: **Jennifer B.**

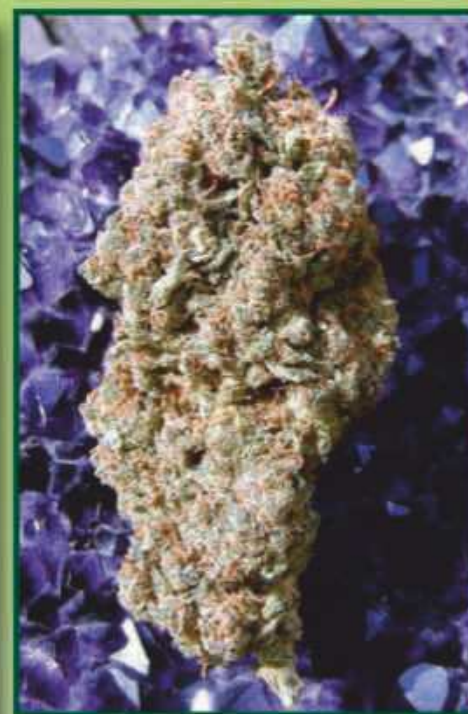
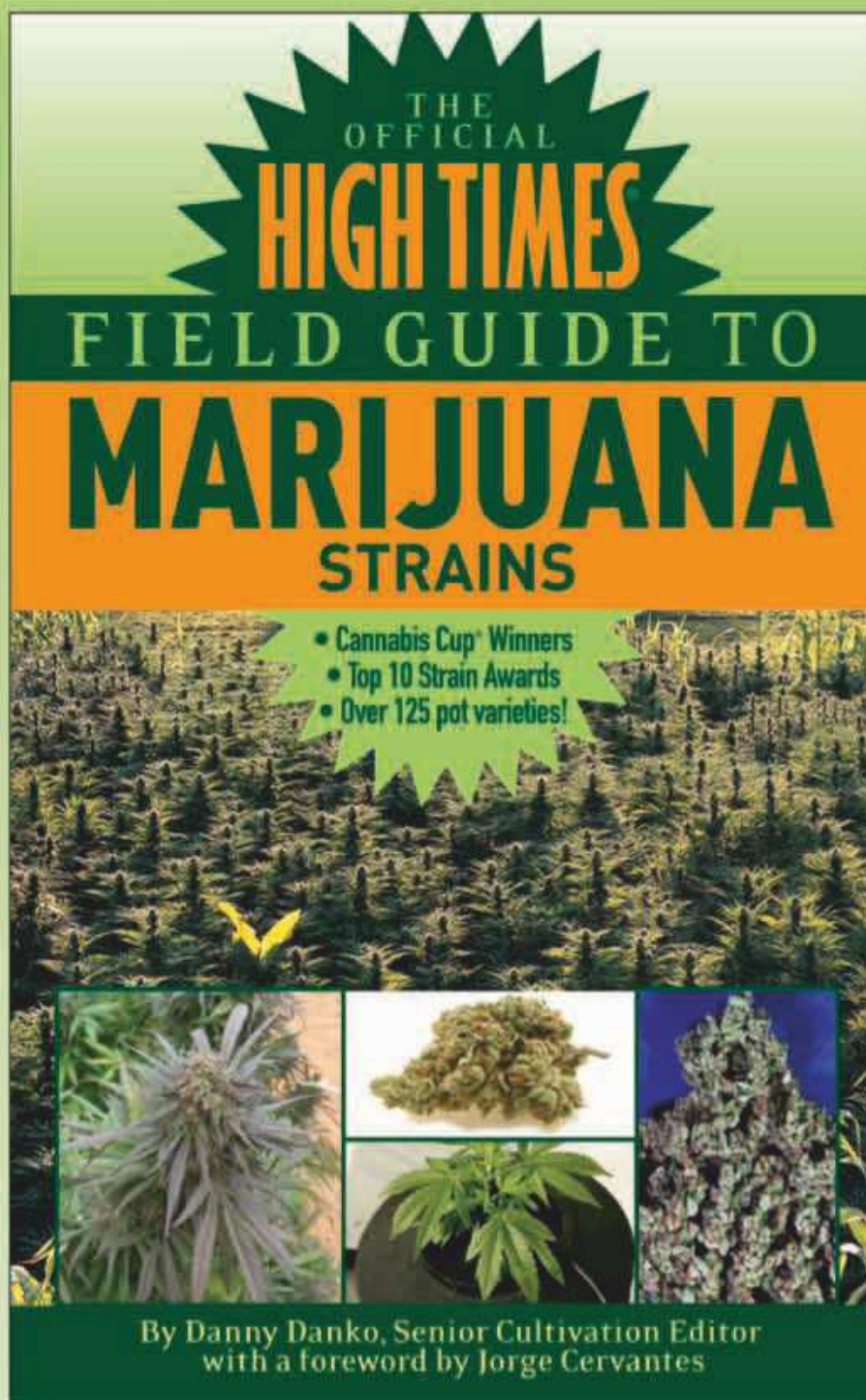
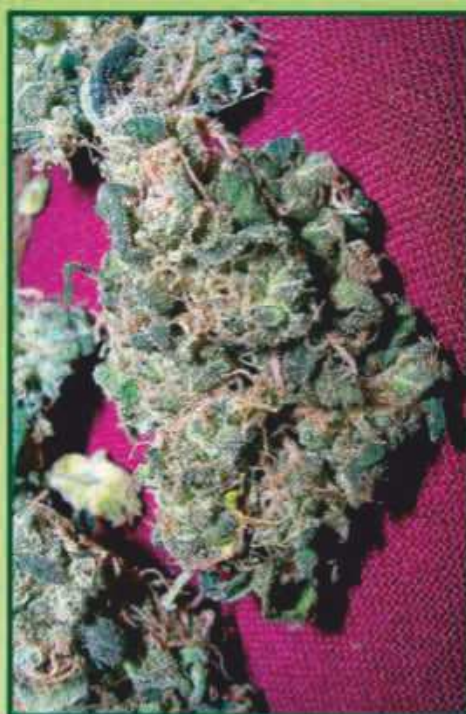
🌱 I have been smoking for several years, but in recent months have found it extremely hard to find someone who is consistent to purchase from. I am interested in growing a few plants for myself to avoid the middleman. I have been doing some research on my own, but I'm overwhelmed by the amount of information that's out there. I was wondering what kind of advice you could offer. Thank you for your time.

Dear Jennifer,

It's hard to sum up the entire cannabis-cultivation process in a couple of paragraphs, but I'll give it a try. First, you'll need to do some research on the equipment you will use and the strain or strains that you will choose to grow. Get yourself a pot-growing book as a reference guide. I recommend anything by Jorge Cervantes, Ed Rosenthal or Greg Green. I've also recently released my second book, *Cannabis: A Beginner's Guide to Growing Marijuana*.

Once you've chosen your equipment (I recommend a grow box or tent with lighting, fans and air filtration included), you'll need to set it up and get growing. Germinate your seeds and nourish them throughout the vegetative stage until you change the lighting schedule to induce flowering. Be sure to harvest at the right time, and place an emphasis on the drying and curing process as well. There's so much more I could tell you, but most of it must be learned through trial and error—so get growing today! 🌱

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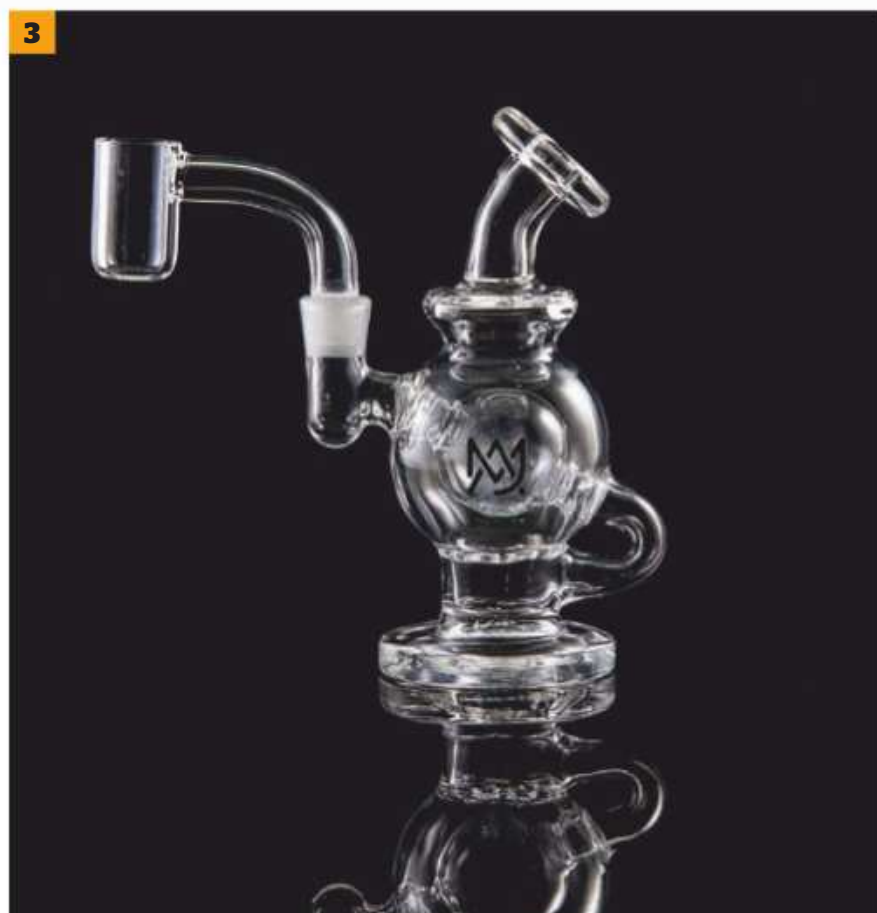
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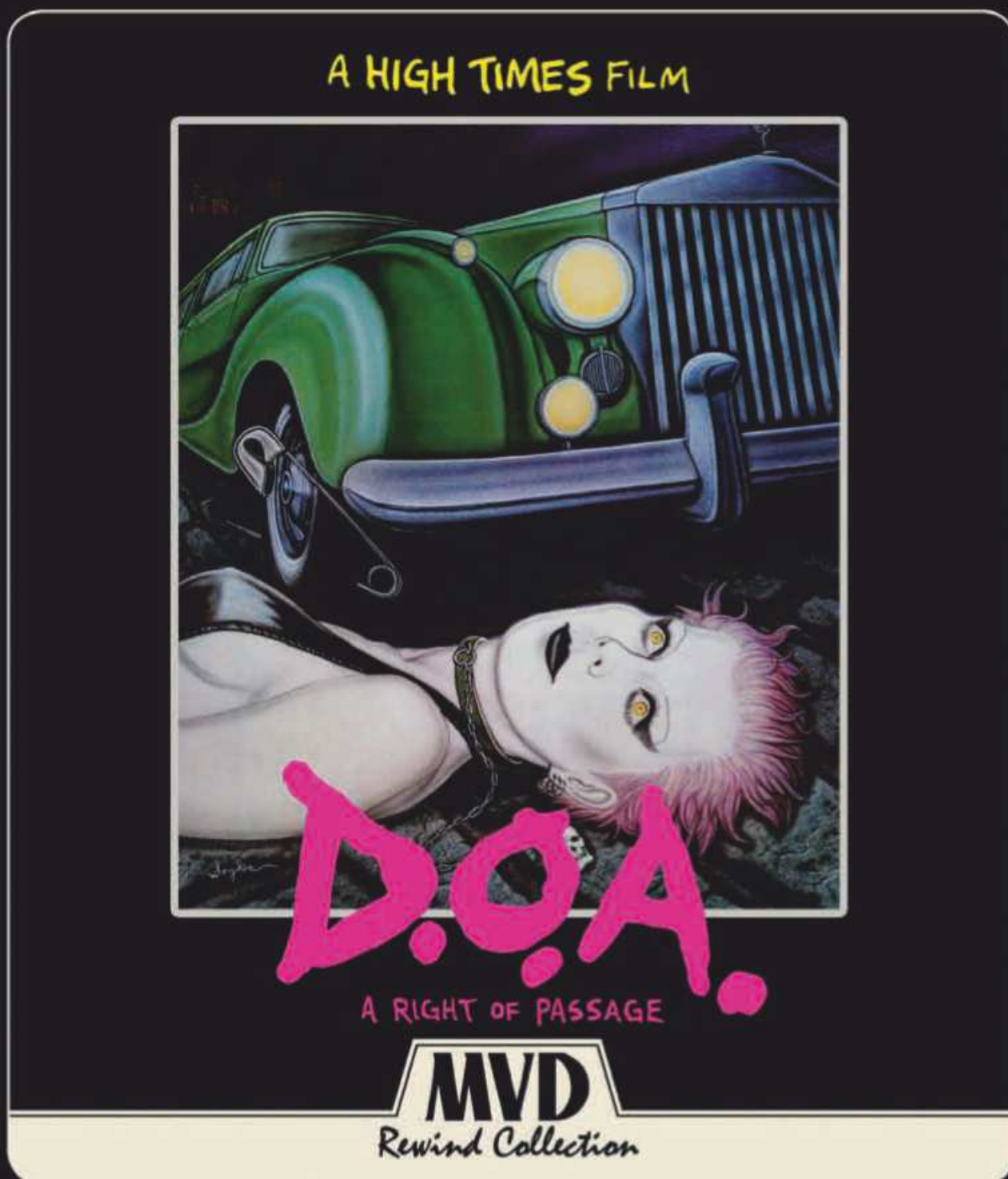
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INGREDIENTS

11.5 oz. unsweetened frozen white-grape-juice concentrate (or another juice)
1 gram cannabis concentrate (sugar wax, budder, shatter or crumble)
½ tsp. liquid sunflower lecithin
11 cups sparkling water, tonic or club soda
Enough vegetable oil for an oil bath

DIRECTIONS

Thaw the frozen juice concentrate to room temperature (you can begin decarboxylating the concentrate, as described next, when the juice is about two-thirds thawed).

Decarboxylate the concentrate in an oil bath by placing a small, heat-resistant glass dish in the center of a saucepan. Pour enough vegetable oil into the saucepan to immerse the dish about two-thirds of the way to the top. Take care to leave enough room to be able to remove the glass dish when the oil is hot.

Warm the oil over medium-high heat to 275°F, using a candy thermometer to keep an eye on the temperature. Once the oil is hot enough, turn down the heat slightly to medium, and place the cannabis concentrate into the glass dish.

Heat the cannabis concentrate for about 15 minutes, adjusting the heat as needed to maintain a steady oil temperature of about 275°F. Stir the concentrate with a toothpick or bamboo skewer as bubbles form, keeping an eye out for the moment at which bubble formation slows. Remove the pan from the heat when bubble activity starts to slow down.

Add the sunflower lecithin to the warm cannabis concentrate in the glass dish. Mix thoroughly with the toothpick or bamboo skewer while the concentrate is still hot, as the heat helps the lecithin emulsify the extract.

Pour the warm cannabis concentrate and lecithin mixture into a high-speed blender with the thawed juice concentrate. Blend until the mixture is evenly incorporated and no specks are visible (about two minutes on full blast—blend longer if necessary).

Chill the mixture in a refrigerator.

SERVING

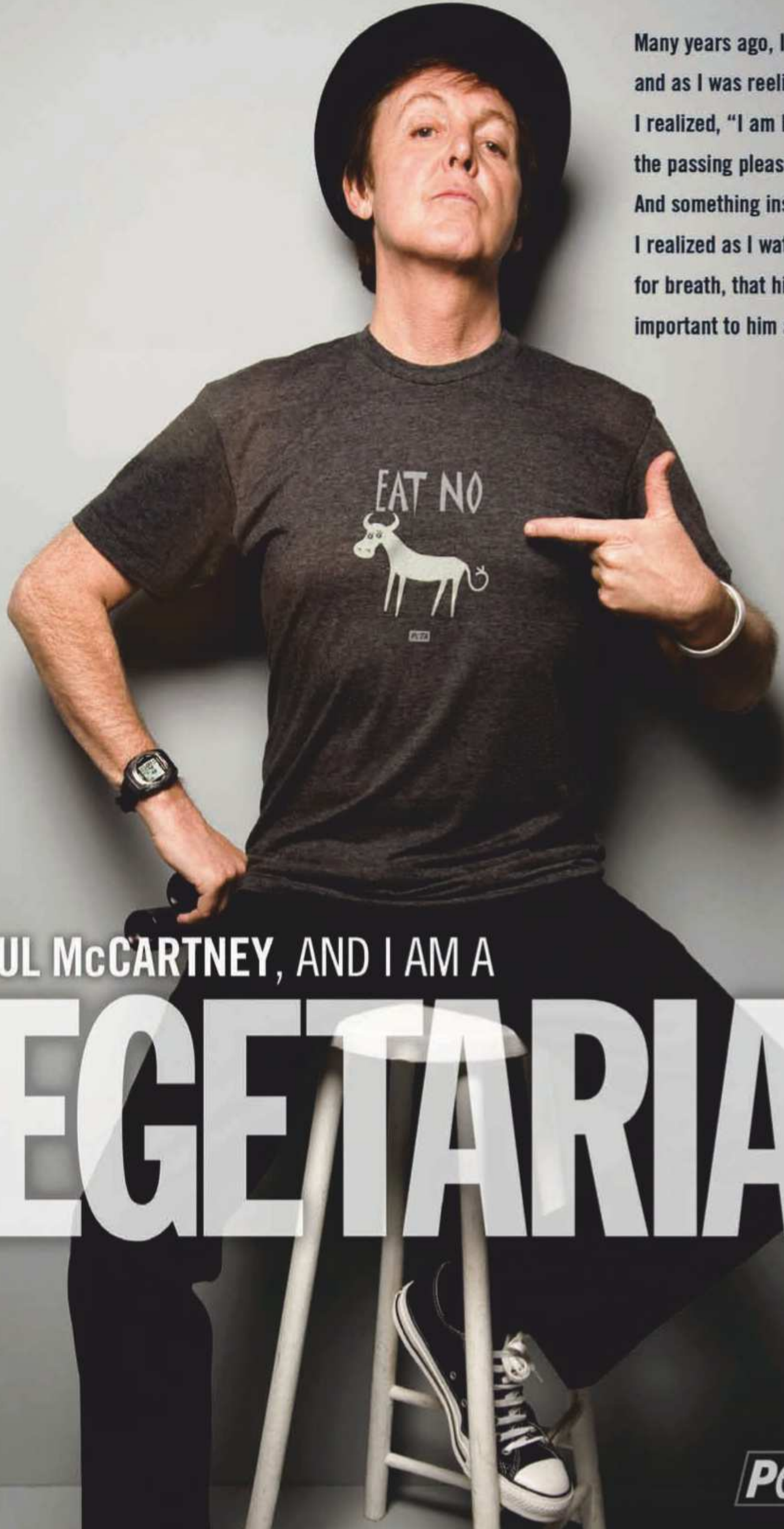
Mix two tablespoons of the infused juice with one cup sparkling water, tonic or club soda per serving (adapt to suit taste and potency preferences). Garnish with fresh cannabis leaves or fruit and enjoy! This recipe makes 11 eight-ounce drinks.

POTENCY

If the starting concentrate is about 75 percent THC, each tablespoon of the infused-juice mixture will contain roughly 32 milligrams of THC. By mixing two tablespoons of the infused juice with the sparkling water/tonic/club soda, each serving will contain approximately 64 mg of THC.

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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
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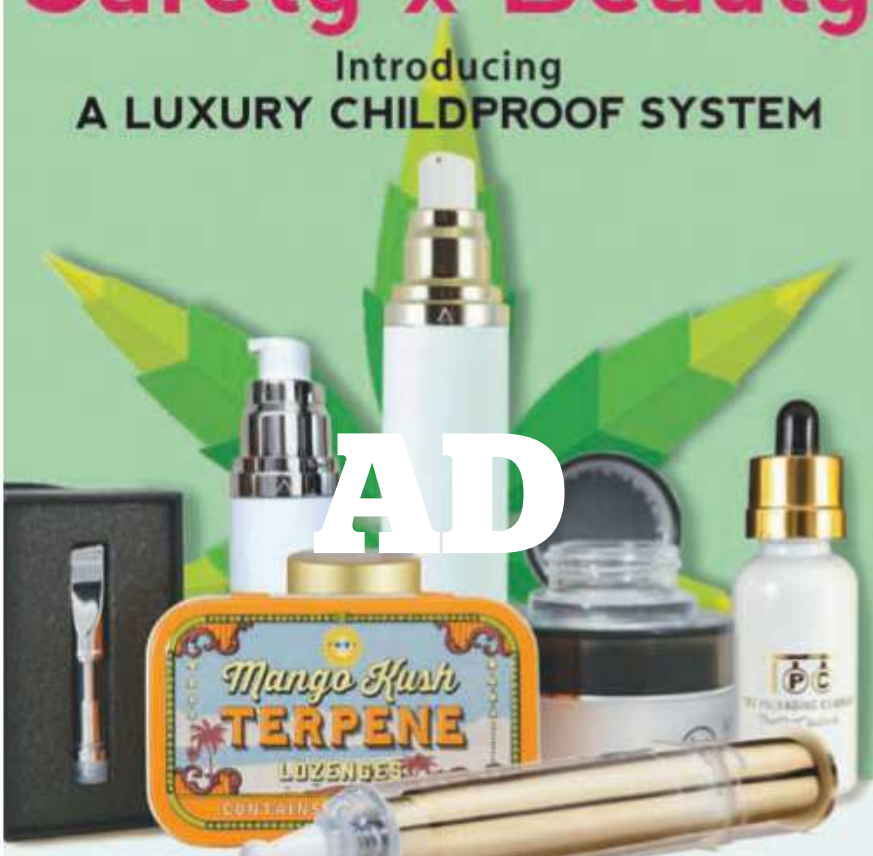


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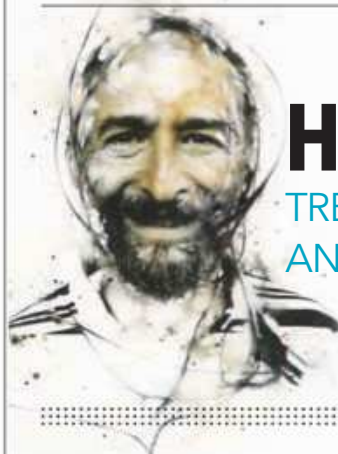
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Will smoking marijuana give you pneumonia?

Al Violi

Hey Al,
No. A huge study of thousands, including over 3,000 HIV-positive people, showed that smoking marijuana did not increase their chances of getting pneumonia. If you're worried about respiratory symptoms, stick to the vaporizer.

Some strains help my ADHD and some don't. My brother also has ADHD, but none of the strains help him. What the hell?

Esau Somethingshiny

Hi Esau,
Both cannabis and ADHD come in multiple forms. THC alone helps some cases of ADHD, but not others. Data from my lab and others suggest that hyperactive and impulsive folks might benefit more from THC than inattentive people. I should add that behavioral interventions like getting adequate rest and practicing meditation, along with keeping a calendar and removing potential distractions from one's environment, are a huge help, too.

I don't see why you researchers can't just focus on THC and CBD instead of a plant with hundreds of chemicals. You're never going to get anywhere.

Per Simon E.

Hello Per,
Our first medicines were mostly plants. Once we found one that helped, we learned to



Cannabis research is yielding exciting results.

look at its different components. For example, pinene, a terpene common in marijuana, probably could help treat prostate cancer. Perhaps no one would have looked if we hadn't heard about the potential of the whole plant, though. In fact, nobody would know about THC or CBD if we hadn't looked at the whole plant first.

I heard there are new genetics data on marijuana and schizophrenia. Are we still beating this dead horse?

Repa Tetiv

Howdy Repa,
The largest data set ever suggests that any link between cannabis and psychosis likely arises from self-medication. Cannabis doesn't make folks psychotic, but psychotic folks turn to the plant in hopes of relief. Incidentally, the same study showed cannabis use increases with education, intelligence and family income. Let's see what the media say about that! 🌿

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



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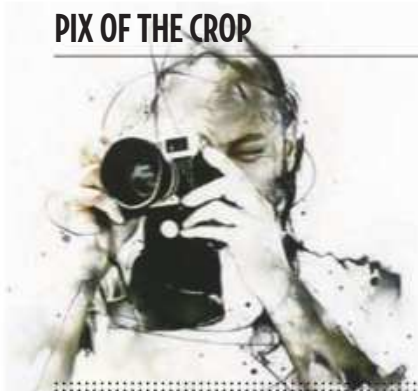


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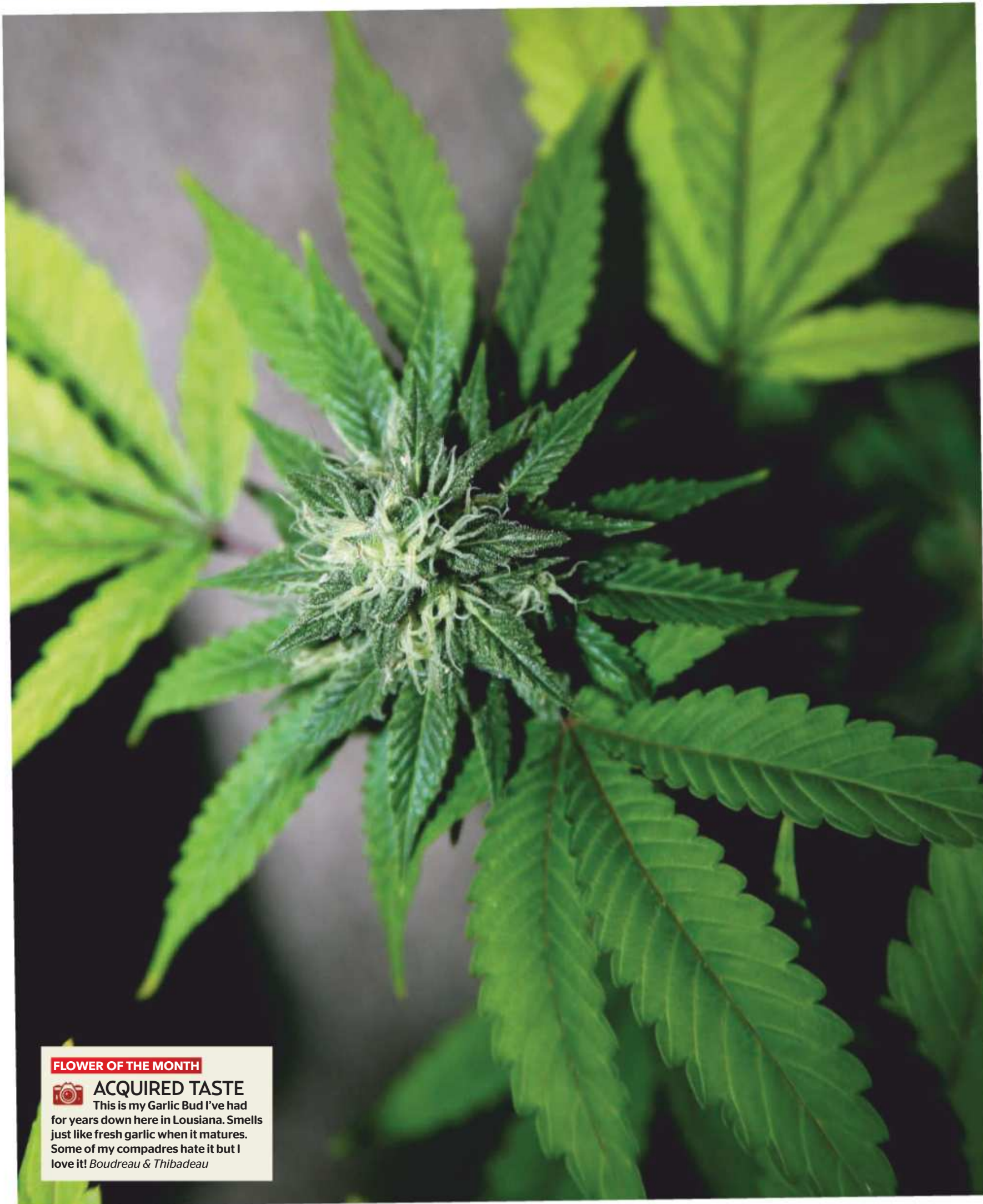




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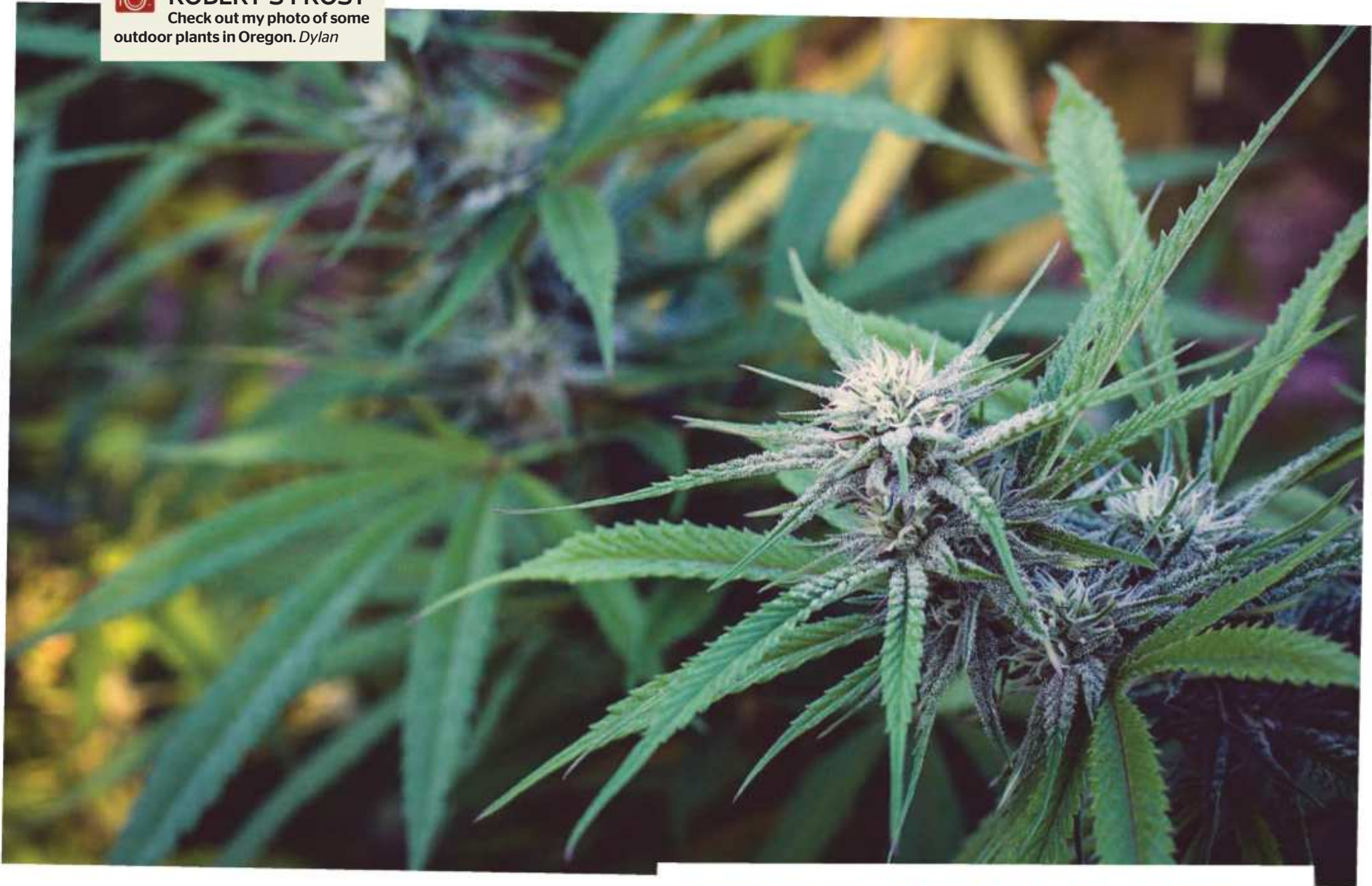
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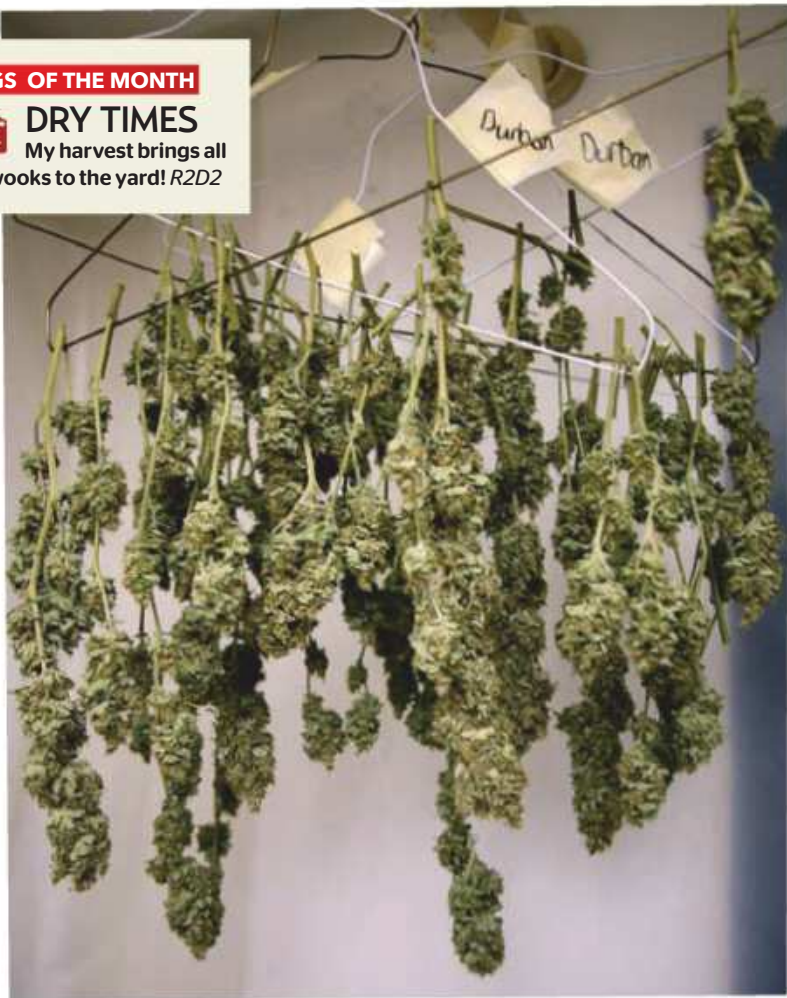
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ROBERT'S FROST
Check out my photo of some outdoor plants in Oregon. *Dylan*



NUGS OF THE MONTH

DRY TIMES
My harvest brings all the wooks to the yard! *R2D2*



COLA OF THE MONTH

DONKEY KONG
Dear High Times, does this branch qualify as a lethal weapon? *MC Bammer*



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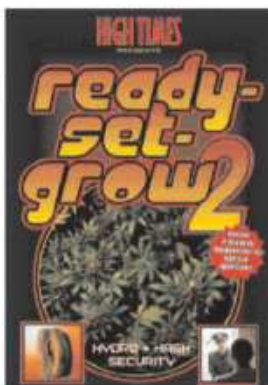
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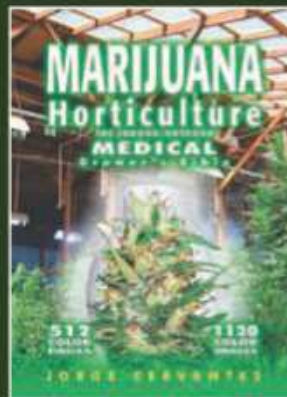
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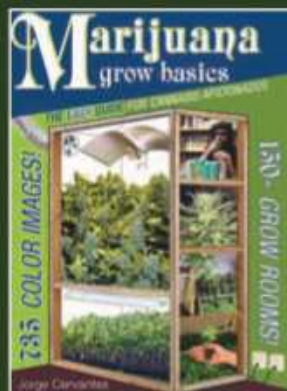
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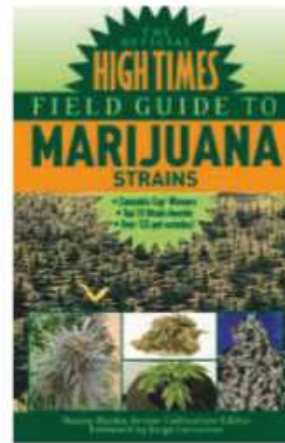
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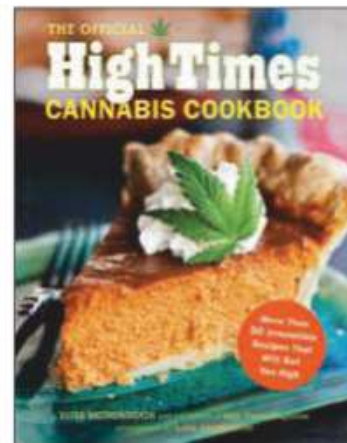
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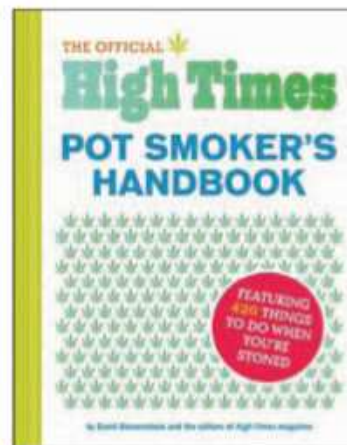
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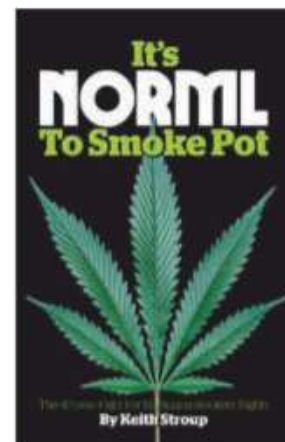
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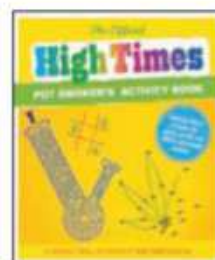
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