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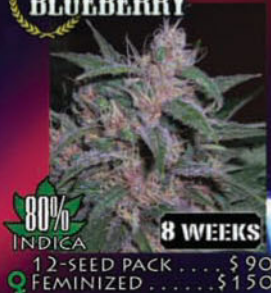
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HIGH TIMES JULY



Ken teamed up with the fine folks at Advanced Nutrients to create a beautiful sun-drenched organic grow producing some of the healthiest, sticky plants I've ever come across in a large-scale garden.

—Welcome to Candy Island, page 66

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Last year, the Dank Corporation opened up its new grow facilities. Now, guided by the company's young CEO, Dank is expanding its reach in the Southwest. *By Dan Skye*

53 Cloning the Trichome Technologies Way

In this excerpt from the new book *Marijuana Horticulture Fundamentals*, K from Trichome Tech reveals everything you need to know for the successful propagation of cannabis clones.

66 Welcome to Candy Island

Travel with us to southern Oregon and an island covered in beautiful pot plants grown by Cannabis Cup winner Ken Estes and his Grand Daddy Purp crew. *By Lochfoot*

82 Ganja Gourmet

Go underground to savor the latest developments in cannabis cuisine as chefs open up about their secret invitation-only dinners. Learn where to dine on delicious dank dishes nationwide. *By Elise McDonough*

95 Fat City!

In order to make a potent cannabis infusion, you need to simmer your ganja in some type of fat. But which fat works best? *By Elise McDonough*

101 The High Times Interview: Action Bronson

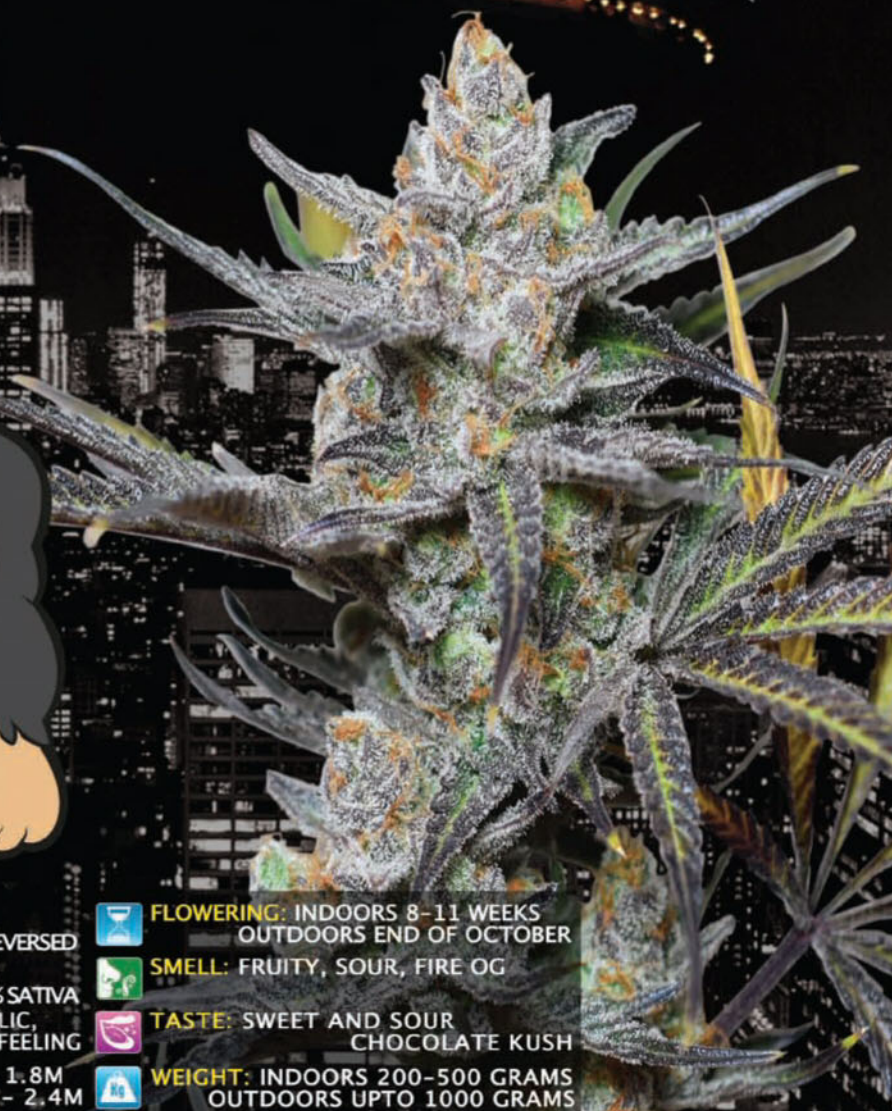
Get lit with the breakout star of Viceland's new show, *Fuck That's Delicious!* The rapper/chef reveals his luxe life of dabbing, cooking, and eating.



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Find all this and more at hightimes.com.

High Times July 2016



► “Fat City!” Infusion Video

Our most recent High Times Test Kitchen experiment involved infusing cannabis into five different kinds of fat and then having the results lab-tested to see which one absorbed the most THC. Watch as chef Payton Curry and HT edibles editor Elise McDonough use an immersion circulator to infuse the fats without releasing any cannabis odors into the house. Learn how to use this important piece of kitchen technology to turn “sous vide” cooking into “sous weed” cuisine!



► “Ganja Gourmet” Special Recipes

Want to cook like a cannabis chef? Go online this month to discover recipes from the eight amazing marijuana supper clubs featured in “Ganja Gourmet,” then try them out for your friends and host a THC-infused meal! Check out the rum-raisin cake pops from Hawaii Mike and the Dinner Is Dope series, along with recipes from chefs Coreen Carroll, Chris Sayegh and Miguel Trinidad.

Flowers and galactic space are frequent themes of her art.



► Glass Artist of the Month: K-Sass

The woman behind K-Sass Glass is Kristina Sasser, who discovered the medium in 1999 and has imbued this ancient art ever since with her own interpretation of spirituality, beauty and organic nature.

K-Sass started making clay pipes in high school, but the evolution of her signature “headdy” functional pieces has evolved over two decades. A mystic and artistic soul, Sasser studied fine arts in college, majoring in ceramics, but insists that her inspiration also springs from her years as a practicing yogi.

“My pieces are spiritually charged,” she says. “I incorporate chakra symbolism, sacred geometry, precious gems, metals and energetically charged meteorite specimens into my art.”

K-Sass is also a philanthropist and served for five years as director of the Colorado Project, a nonprofit effort by glass artists to raise funds for charitable causes in the community through events and collaborations on works of glass art. She makes her home on the gorgeous front range of Colorado and is the founder of Seed Studios in Boulder.

Check out more of K-Sass's work online at ksassglass.com.

► We Want To Hear From You!

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

@AudioNature: @HIGH_TIMES_Mag I don't even smoke, but I love the way it smeeelllllls(8)(8)

@ZICONOTIDE: @HIGH_TIMES_Mag All presidential candidates need to get high as Hell then have a live debate. THEN THE TRUTH WILL COME OUT

@whitepleparty: @HIGH_TIMES_Mag The reason why no one is driving stoned is due to them forgetting where they parked their car! #mondaymotivation #weeddidit

@ReggieKinds: @HIGH_TIMES_Mag Dabs are life

@Tank_Hankorous: @HIGH_TIMES_Mag I'd like to get high with Trump and play Monopoly, or any other board game for that matter

@iamrtc: @HIGH_TIMES_Mag I don't usually agree with @billmaher, but when I do, it's about weed

@HapnerGary: @HIGH_TIMES_Mag It's 420 somewhere

@Blackmstrchef: @HIGH_TIMES_Mag We need to unify our voting power and demand an end to weed prohibition!! It would kill red tape, opening doors for us all.

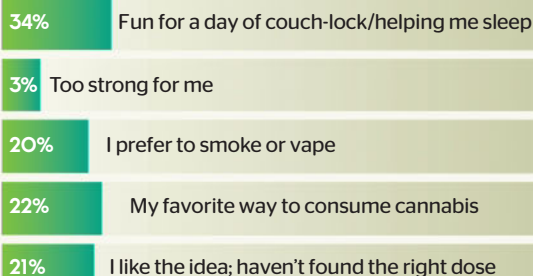
DAN SKYE

POT POLL

How Do You Feel About Edibles?

Nowadays, you can find pretty much any type of food infused with our favorite herb. Still, not everyone enjoys the specific high that comes with eating cannabis. This made us wonder: Are you taking part in the edibles revolution, or do you find them too strong and would much prefer to smoke a fat joint?

Cast your vote in our latest poll online!





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The kitchen is the new frontier of cannabis.

Bakin' with Buds

Welcome to the first special issue of *High Times* devoted to edibles! It's literally "action"-packed, featuring an intimate interview with the star of *Fuck, That's Delicious*, weed-loving rapper/chef Action Bronson, the current king of the cannabis-fueled decadent-dining scene.

In the near future, more people will be eating their cannabis than smoking it. Sales of THC-infused edible items compose half of the legal retail sales in Colorado, with more new users interested in discreet, smokeless options. This ongoing paradigm shift has been made possible by the emergence of pot-testing labs, which enable more accurate dosing information. Cannabis customers want predictable, repeatable experiences that ensure they'll have a good time each time they eat an edible.

High Times has always encouraged readers to eat their weed, starting with a 1979 article entitled "Eat It!" that described an ancient traditional recipe for *mahjoun*, a herb-infused energy ball made from dates, nuts, honey, hash and spices. But consuming cannabis orally is much more psychedelic than smoking it, so be sure to heed the advice of edibles experts and "go low and slow," especially if you're eating herb for the first time. Under state law in Colorado, 10 milligrams of THC equals one dose, and it takes two hours for the full effects to be felt.

Emboldened by the legalization movement, more chefs are experimenting with marijuana as an ingredient, leading to a vibrant underground supper-club scene in cities across the nation. Learn about the emerging movement of "canna-chefs" and their exclusive events in "Ganja Gourmet" (page 82), including tips on how to throw a THC-infused dinner party at home.

If you're interested in using cannabis as a "celestial seasoning" yourself, check out "Fat City!" (page 95), an infusion experiment to determine which type of fat absorbs the most THC. Chef Payton Curry and I used a scent-free method to infuse five different fats, looking for the best option for cannabis cooks at home. To top it all off, we've included a very special cannabis-cocktail recipe on page 118 from noted mixologist Warren Bobrow, intended to toast our newfound freedom!

When it comes to edibles, it's important to educate yourself, consume them responsibly, and treat pot like a rare and treasured spice that's guaranteed to elevate your lifestyle!

Cheers,

Elise McDonough
Edibles Editor

HIGH TIMES

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High Praise for Jamaica

Your April 2016 magazine cover, photographed by editor-in-chief Dan Skye, was beautiful. The pretty girl with the green headscarf holding those buds was a delight to see. Your Jamaica Cannabis Cup feature by Emily Cegielski had wonderful photos and an uplifting tone. My compliments to your art department and to Ms. Cegielski for her writing.

P.J. Kibble

I greatly enjoyed the “Jamaica Lights Up” issue, especially “The Legal Ride” by Rick Cusick. Having travelled in Jamaica myself, I loved hearing about Rick’s ride around the island, visiting places I would never have dared go. It’s so amazing that Jamaica has finally decided to embrace its pot culture. Moving the Cup there is a great idea and a wonderful thing to happen for Jamaica. I look forward to attending the Cup in Jamaica next year! Thanks, Rick, for taking me along!

David Tatelman

President, Homestead Book Company

The Meaning of Desire

Kyra Miller’s review of Rickie Lee Jones’s new album *The Other Side of Desire* (May ’16) was engaging enough for me to give it a listen. I like it.

Miller takes a stab at the meaning of the title as somehow being related to the Tennessee Williams play *A Streetcar Named Desire*. Personally, I think it may be a reflection of another well-known troubadour by the name of Bob Dylan and his 1976 album *Desire*.

Dan Elfenson

Ocean Shores, WA

Pot & the Ozone Layer

I hear a lot of talk about marijuana and the history of pot, but people should know that if everyone grew a marijuana plant, we would fix the ozone, because a marijuana plant takes in 100 percent carbon dioxide each day and makes clean air. A tree takes in only 1 percent a day. This is tested, and our government knows this is fact.

William M.

Science editor Sirius J responds:

Your idea is the right kind of ecologically driven positive thinking that our planet needs, but it’s also painfully naïve. The ozone layer will continue to deteriorate unless humans stop excessively using chlorinated and brominated



Allowing the widespread industrial cultivation of hemp would help the environment, without a doubt: Hemp grows quickly, densely, and without the need for herbicides or a significant input of pesticides.

refrigerant gases. These toxic gases consume ozone like wildfire, allowing a higher influx of ultraviolet radiation from the sun. In turn, this radiation hurts the ocean’s vital population of phytoplankton, causing a bottom-up destabilization of the entire food chain.

Allowing the widespread industrial cultivation of hemp would help the environment, without a doubt: Hemp grows quickly, densely, and without the need for herbicides or a significant input of pesticides. However, hemp agriculture requires a shift in manufacturing technology before the crop becomes profitable.

As a building material, hemp takes the environmentally friendly cake due to the smaller amount of energy required to build a house with it, as opposed to traditional cement. Houses built with Hempcrete (a mixture of hemp hurds and lime) have remarkable insulating properties and consume far less energy for heating and cooling. Hemp-derived plastics, fibers and other cellulose derivatives emit less carbon dioxide as well.

Unfortunately, saving the world from ozone depletion, pollution, deforestation and desertification will take a lot more than just planting hemp. But increased awareness of green technology—some of which uses hemp—will put the world on the right path toward environmental conservation and sustainable energy.

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Conservative Canadian

I’m a card-carrying member of the Conservative Party in Canada. Where do you get off calling our former prime minister, Stephen Harper, a “dunce” (March ’16)? That’s a real laugh coming from dumb fucking you-all, who have a Shiite Muslim and Nigra for president. As far as your apparently Canadian hero Prime Minister “Selfie Turdwho” legalizing pot in Canada, that will never happen. Years back, Harper signed a pact with three other major nations to ban pot from ever being legalized in any of those four countries. How will this inbred “swine frog” (that’s what we white people in Canada call those half-breeds from Quebec) accomplish this illegal act? His promise to legalize pot as well as balance the budget—and his ass-kissing method of bringing in stinking Muslim immigrants—is plain idiocy. We have 40 percent idiots here that got this no-mind idiot elected. It would be interesting to read a response. In fact, I dare a response!

PS: Trump’s the man—he will set America straight! Bet on it!

G.N.

Calgary, AB

You’re very easily offended by the word “dunce,” but have no problem using the vilest of language to describe others. As for the international treaties you cite, they were signed well before Harper’s reign. Compliance with these treaties is subject to “constitutional limitations” and “due regard to [the signatories’] constitutional, legal and administrative systems,” so they are by no means carved in stone. It may take some political wrangling, but legalization will be coming to the United States and Canada. Only a dunce would think otherwise.

Crimes Against Humanity

I’m a member of the National Cannabis Patients Wall (ncpwall.org), and I’ve talked to patients all across the US. Cannabis has helped me more than any doctor or pharmaceutical drug. It’s my belief that prohibiting cannabis amounts to “crimes against humanity.” I’ll take it to the International Criminal Court if I have to!

Scott H.

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SEND IN THE CLONES Healthy flowers, covered in trichome glands are the result of clones that got off to the right start. Check out K from Trichome Technologies' guide to successfully and consistently rooting cuttings on page 53. *Photo by Lochfoot*









July 2016 **High Times**

HASH BASH 2016 On April 2nd, the weather in Ann Arbor, MI was cold, blustery and snowy, but the 45th Hash Bash was hot and heavy with pot fans. Stoner legend Tommy Chong, recovering from his second bout with cancer, shouted out: "Thank God for cannabis!" And the crowd cheered mightily! *Photo by Dan Skye*

15

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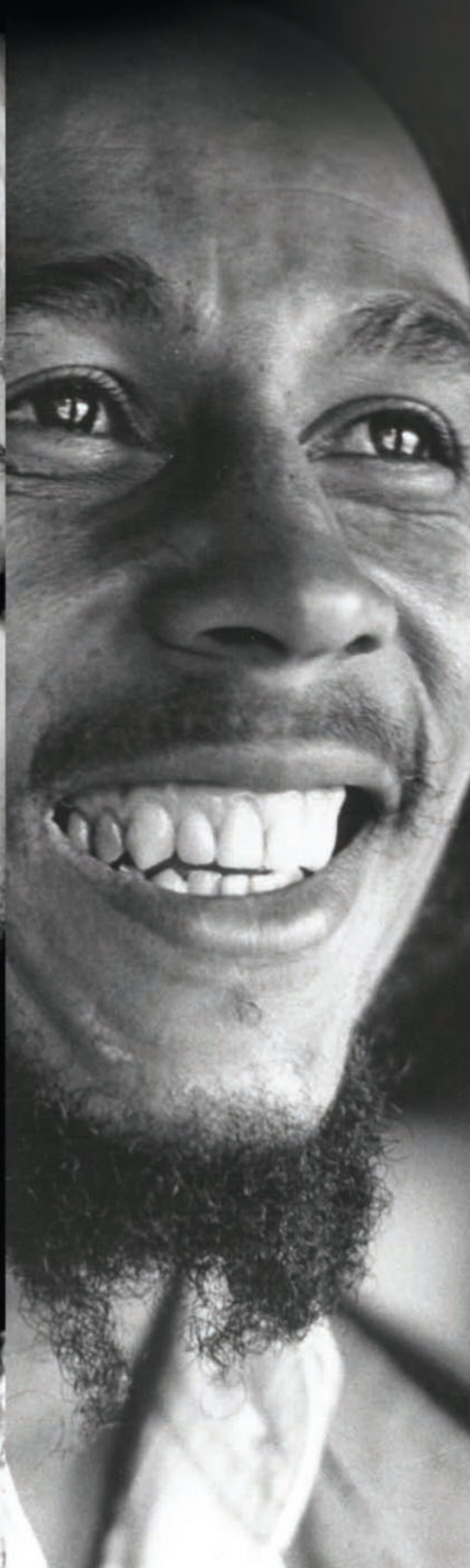




July 2016 **High Times**

ISLAND OF EARTHLY DELIGHTS Deep in the woods of southern Oregon exists a treasure isle covered in pot plants grown and bred by Cannabis Cup winner Ken “Grand Daddy Purp” Estes and his illustrious crew. Start your exclusive personal trip to the island on page 66. *Photo by Lochfoot*

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REBEL YELL

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They're fiercely aware of what's right and wrong, speak their minds and take no prisoners.

They look at life differently, society can't pigeon hole them or put them in box, and they see things where others don't.

Their ideas are sometimes out on the fringe, the ragged edge. They have to be, because they're open to the possibilities and realities that change the world.

Some see them as a fish out of water, trouble makers and oddballs. We see them as gifted, profound and uniquely brilliant.



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Highwitness News

Katt Williams busted again!



Style

High Fashion

Weed leaves are showing up in *Vogue* and on the runway. p.28



Entertainment

2001: A Laced Odyssey

Flatbush Zombies drop their new album. p.32



Legally medicate...
at your own risk.

certainly did not prevent further assaults on the legal cannabis industry.

Within four months of President Obama signing the 2015 federal budget, it became painfully clear that a borderline-schizophrenic Uncle Sam was allowing his criminal-justice enforcers to operate with a complete disregard for the law. Drug agents continued to raid dispensaries, shake down caregivers and even harass patients in an effort to build cases for prosecutors in medical marijuana states across the nation. A spokesperson for the Justice Department later argued that the amendment only prevented the federal government from “impeding the ability of states to carry out their marijuana laws,” but did nothing to stop the Feds from dropping the hammer on individual dispensaries

and their patients.

Congressmen Dana Rohrabacher and Sam Farr, the two lawmakers responsible for introducing the amendment, took serious issue with the fact that the Justice Department was using such a loose interpretation of the law to continue waging its War on Pot against the 23 states (as well as the District of Columbia) that have legalized the herb for medicinal purposes. In an effort to correct the problem, the lawmakers fired off a letter to Holder encouraging him to bring his department “back into compliance with federal law by ceasing marijuana prosecutions and forfeiture actions against those acting in accordance with state medical marijuana laws.”

Not Legal Yet

Despite a media frenzy implying that medical marijuana is legal, the Feds are still waging their dirty war. *By Mike Adams*

After Congress put its stamp of approval on an amendment, tucked inside the 2015 omnibus spending bill, intended to prevent the Justice Department from further targeting the medical marijuana community, prominent media outlets—including national heavyweights like the *Los Angeles Times* and *Rolling Stone*—suggested that Congress had “quietly ended the federal government’s ban on medical marijuana.”

This flagrant misrepresentation inspired a social-media circus, with a legion of click-bait sites quickly publishing even more erroneous renditions of this development under exaggerated headlines like “Marijuana Is Now Legal in All 50 States,” and “The War on Medical Marijuana Is Over.” In truth, the amendment did absolutely nothing to force then-US Attorney General Eric Holder to rein in the DEA, and it most

« Not surprisingly, neither Holder nor any other Justice Department official made an effort to respond to the congressmen's request. A ceasefire on medical marijuana was far from being realized.

But then, last October, a federal judge in California stepped up to provide some much-needed clarity in the controversy surrounding the DOJ's disregard for the Rohrabacher-Farr amendment, handing down a verdict that suggested that congressional law "forbids the Department of Justice" from busting marijuana businesses operating "in compliance with state California law." In a case involving the Marin Alliance for Medical Marijuana (MAMM), Judge Charles Breyer ruled that the Justice Department's behavior "defies language and logic," arguing that "Section 538 either allows the DOJ to shut down medical marijuana dispensaries for violating the [Controlled Substances Act], or it does not."

Unfortunately, Breyer's verdict did not set a precedent and essentially did nothing but reverse an injunction against MAMM. The Justice Department has since filed an appeal.

In December of 2015, for the second year in a row, Congress renewed the Rohrabacher-Farr amendment for

As it stands, the cannabis industry as a whole is still operating at its own risk, because there are no concrete laws on the books that actually prevent the Justice Department from harassing the entire industry.

inclusion in its \$1.1 trillion 2016 budget. Sadly, the news of this development generated almost the same level of media misinformation that it had the previous year, inspiring deceptive headlines that once again implied that Congress had essentially lifted the ban on medical marijuana.

But nothing, in fact, has changed. Despite the intent of Congress to prevent DEA agents and federal prosecutors from interfering with cannabusinesses in states that have legalized medical marijuana, the Justice Department has given no indication that it will respect the true nature of the amendment anytime soon. As it stands, the cannabis industry as a whole is still operating at its own risk, because there are no concrete laws on the books that actually prevent the Justice Department from harassing the entire industry.

While pot advocates have been waiting on bended knee, praying that President

Obama will take the daring leap to legalize marijuana at the federal level before turning over the keys to the White House to his successor, the chances that he will initiate the rescheduling process—his only executive option for amending the CSA—are slim to none.

In fact, earlier this year, Obama released his projected 2017 budget, which eliminates the Rohrabacher-Farr amendment entirely, giving the DEA permission to target the medical marijuana community at will. Similar wording was used in his 2016 budget proposal, but Congress ultimately snuffed it out before approving the final draft. The same is expected to happen later this year, but there are no guarantees.

Unfortunately, medical marijuana *isn't* legal in all 50 states—and the Rohrabacher-Farr amendment, though well-intentioned, has so far provided only toothless protections for states with medical marijuana statutes in place. ✱

HIGH FIVE

Dank Lives Matter

When it comes to cannabis, law enforcement regularly oversteps its legal bounds. *By Mark Miller*



Zachary Hammond

Hammond, 19, was shot and killed by Seneca, SC police lieutenant Mark Tiller in July 2015, during an undercover pot deal entailing a 10-gram purchase. Police dashboard video shows Tiller was in no danger of being run over by Hammond's car when he opened fire. A witness claimed cops planted drugs on Hammond's body and even "high-fived" his dead hand. South Carolina didn't prosecute Tiller, but the US Justice Department is now investigating.



Max Lorincz

Card-carrying medi-pot patient Lorincz of Spring Lake, MO was originally charged with misdemeanor possession for a "smear" of hash oil found in his home by police in September 2014. But the hash oil was wrongly classified as "synthetic THC" like K2 or Spice, and the charge was bumped up to a felony after collusion among the state's crime lab, the state attorney general and local prosecutors. In January, a judge finally threw out the faux felony charge.



Renee Jones

Jones was busted by the Sheriff's Department in Walton County, GA for possessing pot and cocaine "sold" to her by a narc. But an audio recording from the informant's wire revealed Jones refused the drugs. Her attorney accused the police of planting "evidence" on his client. When the informant threatened to reveal the setup, the DA dropped the charges. An internal investigation exonerated the sheriffs of wrongdoing. All returned to duty in the same narcotics unit.



Courtney Griffith

In January 2015, Griffith was stopped in her driveway for a misdemeanor traffic violation by Virginia Beach PD Officer Ewell Pittman, who had conveniently arrested Griffith on a previous pot offense. New mother Griffith was driving sober, but her 17-year old friend Brandon Wyne was busted for felony possession. Cops excessively pepper-sprayed and tasered Wyne, then confiscated Griffith's camera while she recorded the cops. Both were busted without being read their rights.



Zackery Green & Steven Moody

In January, former deputies Green and Moody filed a civil lawsuit against Sheriff Hobby Walker of Winston County, AL. They were fired in November, two months after they handed confiscated marijuana over to the sheriff, who had allegedly asked them to obtain medical pot for his aunt, supposedly dying of cancer. Green believes that Walker fired them preemptively, before they had a chance to report his unlawful pot requests to other agencies.

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A Marijuana Economy

According to new projections in the *2016 Marijuana Business Factbook*, the legal cannabis industry will have reached \$44 billion in value by 2020, based on current business and legalization trends.

Legal weed is predicted to generate \$14 billion to \$17 billion in 2016, with sales contributing \$3.5 billion to \$4.3 billion to that sum—an increase of roughly 17 to 26 percent over 2015 figures. And, incredibly, recreational pot sales could surpass med-pot sales nationwide by 2018.

The *Factbook's* forecast for 2020 is based on a relatively uninhibited marijuana market, with the caveat that an anti-pot president taking over in 2017 could drastically reduce reefer revenue.

Indonesia Wants to Kill You With Drugs

The Indonesian government is notoriously brutal in its dealings with drug offenders, previously floating the idea of using ferocious crocodiles and piranhas to guard an island holding people convicted of drug crimes. However, the country's National Narcotics Agency managed to top even that comic-book-villain scheme with an exceptionally cruel and unusual punishment: force-feeding dealers the very drugs they were selling until they overdose and die.

NNA spokesman Slamet Pribadi attempted to rationalize the monstrous measure: "We need to be serious, because drugs are the enemy." But even if that were true, Indonesia's medieval drug laws fail to distinguish between addicts and dealers, so the country's 4.5 million substance abusers can be sentenced to the same deadly fate.

And while Indonesia is the fourth-largest country in the world in terms of population, drug rehab is extremely limited and sketchy—one of the few prisons that offer treatment employs a Scientology-based program. So if the crocodiles and fistfuls of force-fed heroin don't get you, Tom Cruise will.

GROW,
CANADA!



Canadian cannabis activist Dana Larsen is doing his part to promote pot across the Great White North. Larsen announced that he plans to mail out marijuana seeds to any Canadian who pledges to grow "openly and freely." The endeavor is part of his Overgrow Canada campaign and will include sharing up to one million pot seeds.

Larsen is encouraging cultivation especially on private property and has agreed to send up to 100 seeds to anyone willing to engage in this act of civil disobedience. His goal is to keep up the pressure on Prime Minister Justin Trudeau, who has pledged to end pot prohibition and legalize recreational cannabis in Canada.

Canadian comedy legend Eugene Levy also backs Trudeau's proposed pot policy. While promoting his sitcom *Schitt's Creek*, Levy stated that he thinks marijuana legalization "is a great thing [and] would solve a lot of problems... Alcohol is a lot more dangerous, to me."

Inside the
Wide World
of Weed



Coming soon
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Beware of the Katt

Comedian Katt Williams has put together an impressive streak of run-ins with the law. And while at least one bust ended with marijuana charges, it's not pot that's got the famous funnyman in hot water.

Most recently, Williams, 42, was busted with what authorities called "large quantities of marijuana." However, Katt's stash was only uncovered when cops executed a search warrant after Williams was arrested for kidnapping and assaulting his bodyguard, Corey Dixon. According to police, Dixon was beaten with a bat and choked for refusing to "engage in criminal activity as directed by Williams."

A week earlier, Williams was arrested for assault in Gainesville, GA where he allegedly punched a pool-store employee. But that's not all! Katt is also accused of robbing five women at gunpoint in Atlanta and faces charges for a 2014 fight at LAX and for teaming up with Suge Knight to steal a camera from a photographer. Safe to say the weed is not mellowing out Mr. Williams.

Squash Stash

Smuggling drugs into the United States is big business, and successful smugglers have a long history of using creative solutions to beat the Border Patrol. From homemade catapults launching packages of pot over the border to bundles of weed dressed up like fresh carrots and wrapped in orange tape, traffickers keep Customs agents on their toes.

Unfortunately, a recent bust in Nogales, Arizona, revealed a decided lack of imagination. Border officers discovered nearly \$3 million worth of pot hidden in a shipment of Italian squash. However, this particular smuggler didn't attempt to take advantage of the green veggies to camouflage the weed. Instead, the pot was simply packed into 240



beige bundles. The sizable haul, which weighed around 5,700 pounds, was concealed within the load of squash being transported by a tractor-trailer.

Oddly, this isn't the first time that someone got busted in Nogales attempting to use this scheme: In 2013, a man was arrested trying to sneak 1,900 pounds of weed across the border in a squash shipment.



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Maine Shame

Petitioners in Maine failed to gather enough signatures to place a legalization measure on the state ballot in November. The measure, dubbed An Act to Legalize Marijuana, required 61,123 valid voter signatures—but despite campaign workers submitting nearly 100,000 signatures, the petition ended up about 10,000 short.

Secretary of State Matthew Dunlap's office would only validate 51,543 out of the 99,229 signatures submitted. However, David Boyer, the Maine Marijuana Policy Project's political director, believes that 17,000 of the signatures were incorrectly invalidated.

Dunlap's office invalidated them because the signature of the person who notarized the petition pages didn't match the one that the state had on file. Complicating matters further, the notary in question has a 2007 conviction and ethics violations related to his notary practice.

Boyer says that Maine MPP will appeal the decision, as the 17,000 signatures in question would be more than enough to put the measure on the ballot if they were validated.

Decades Behind the Times

While many states are introducing legalization or decrim laws, a Missouri state senator is attempting to ramp up charges for people arrested with pot.

State Senator Wayne Wallingford sponsored a bill that would impose a charge of tax evasion on anyone busted for possessing weed without tax stamps. If that sounds familiar, it's because this tactic was used by the federal government to crack down on pot users in the 1930s. (The Supreme Court found the law unconstitutional in 1969.)

The bizarre law would make it illegal not to pay taxes on the drugs you possess, which are illegal in the first place. Wallingford's bill requires tax stamps for people with more than 35 grams of pot or any cannabis plants.

While other states currently have tax-stamp laws on their books, legal experts doubt that they would hold up in court. And while Wallingford also praises the financial boon that tax stamps represent, that money pales in comparison to what a legal, regulated market would do in Missouri.

POT & PREGNANCY



Is it medically safe for pregnant women to use cannabis? A new study on this highly contentious issue seeks to determine if there are any legitimate links between marijuana and conditions like fetal-growth restriction, hypertension and stillbirth.

The research will be conducted by the University of Colorado's Anschutz Medical Campus. The responses of new mothers participating in a survey will be compared to a sample of their postpartum umbilical cord, which will be tested for cannabis use and frequency during pregnancy. Dr. Torri Metz, an obstetrician at the CU Hospital, will develop the survey. She noted that more women are now willing to report marijuana use in the clinic where she works.

Although previous studies sponsored by the US government have found negative associations between pot and pregnancy, other studies with larger sample sizes, conducted in countries like the United Kingdom, the Netherlands and Australia, have found no evidence of fetal harm from cannabis use.



NB(J)A(Y)

Jay Williams, a former guard with the Chicago Bulls and current ESPN analyst, opined that as much as 80 percent of current NBA players smoke pot. Williams believes that players should be able to use cannabis, which they prefer to legal but addictive prescription drugs.

"I know a lot of people that use it," Williams said. "It's something that the whole world is becoming more progressive with, so it's about time [the NBA does] as well."

Williams was the second overall draft pick in 2002 but had his career cut short by a motorcycle accident. He was prescribed painkillers for his injuries and became addicted to OxyContin for over five years.

While cannabis helped Williams end his addiction, he acknowledges the stigma that still surrounds pot: "When you say 'marijuana,' you get a reaction: 'Aaah—it's a gateway drug!'"

Unfortunately, the NBA isn't progressive on pot: Players testing positive for marijuana are subject to mandatory treatment, fines and suspensions.

A Prison of Pot

A Southern California company hopes to convert a former prison into a marijuana grow and cannabis-oil processing plant. The central California city of Coalinga is considering an offer from Ocean Grown Extracts to transform the 77,000-square-foot Claremont Custody Center into a facility for the concentrate company. The 500-inmate jail—which undoubtedly once held pot prisoners—was shut down in 2011 when it lost state funding.

While the venture would bring about \$2 million in leasing revenue and taxes to Coalinga, as well as 100 full-time jobs with benefits, the local sheriff opposes the plan, claiming that the transportation of concentrates could cause issues for law enforcement.

Coalinga City Councilman Patrick Keough was more pragmatic: "People are hurting... We're talking about 100 full-time jobs, and no dope in the streets." Mayor Ron Ramsey is reportedly also supportive of the idea, and Ocean Grown has agreed to security measures including background checks and cameras that link to the police department. As of this writing, Coalinga officials have delayed a final decision in order to conduct further research.



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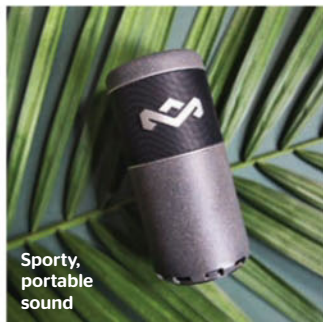
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The *mota*
motif is all
the rage.

WEED-INSPIRED FASHION

Marijuana leaves have cropped up in art and fashion for as long as smoking weed has been artistic and fashionable. But now that pot's going mainstream, some really big fashion names are co-opting the marijuana-leaf message. *Refinery 29* recently drew attention to the trend, snarking: "It's a silly and sort of stupid motif." We beg to differ. Drawing inspiration from the healing herb, top designers are creating beautiful, elegant pot pieces that any admirer of edgy couture would love to own.

Alexander Wang sent a gorgeous white-mohair skirt and coat dappled with black pot leaves down the runway for his Fall 2016 collection, along with leaf-adorned handbags, silk camisoles and party dresses. To take his signature bow, Wang appeared wearing a jean jacket embroidered with the words "Holy Smoke." Love your work, Alexander!

When it comes to fashion, pot leaves are popping up all over the place. Jewelry designer

Jacquie Aiche caters to the rich and famous with her exquisite Sweet Leaf collection. Mara Hoffman's Spring 2015 clothing line featured her weed-leaf Harvest Print, and the designer even declared her love for the cannabis plant on *style.com*. And Jeremy Scott used a pot motif for his Adidas collaboration collection a while back, as noted by *Vogue* in an article titled "High Fashion: How the Legal Weed Industry Is Becoming More Stylish."

The emergence of the weed leaf as fashionable may have longtime cannabis aficionados shaking their heads in exasperation: Many encountered scorn and derision for their choice to smoke pot, and now it's suddenly cool? Whatever your feelings on the subject, the appropriation of this once-countercultural symbol clearly shows that weed is taking hold in the popular consciousness. And that's a wonderful thing.

Check out the gallery at refinery29.com/2016/02/103242/weed-fashion-trend#slide

sPOTLIGHT

Herbal Chef Silicone Trivet and Tray

Hey, chef! Add a touch of weed whimsy to your kitchen with the Herbal Chef pot-leaf trivet. The heat-resistant silicone protects your counter and tabletops from hot pans while you cook up cannabis treats to share with your 420-loving friends. The Herbal Chef also offers a silicone tray that's perfect for controlling portions and potency. Whip up a batch of mini-cupcakes, or divvy up your cannabis-infused butter into individual packets to freeze and use as needed. The trivet and tray are stick- and heat-resistant up to 445°F, dishwasher-safe, and 100 percent BPA-free. herbalchef.net



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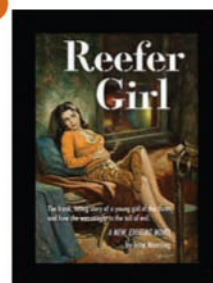
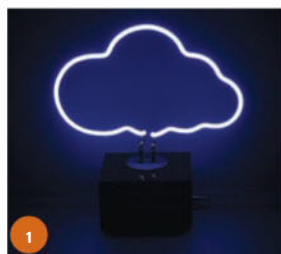
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To match the good vibes in your pipe, it's important to keep the good vibes going in your living space. Here are some recommendations for groovy home décor. *By Sophie Saint Thomas*

Home Décor for Herb Lovers



1. DESKTOP NEON LIGHT CLOUD

Is that a cloud, or a puff of smoke emanating from the fat joint of Sour Diesel you're enjoying while working from home? (Can we go ahead and just change that expression to "working while stoned"?) Either way, this dope desk-top light is far more interesting than your standard desk lamp. Neon MFG sells an array of sexy light products, from unicorns to hang over your bed to "Let's Get Weird" wall signs. \$99.99, neonMFG.com

2. CRYSTAL CALM KEEPER THROW PILLOW

Don't worry, I'm not going to tell you to "keep calm and carry on," but if you want to unleash the (at least fun to imagine) healing power of crystals with a pillow as comfy as you feel after three hits of Headband, check out Karina Eibatova's soothing pillow collection. \$32, fab.com

3. BAMBOO ROLLING TRAY DELUXE

We've all rolled joints on our laptops (admit it), but investing in a beautiful rolling tray for your home says: "I'm a grownup." Think of it as the equivalent of owning a vacuum cleaner. \$55, by DAG206art, etsy.com

4. RUBIK'S CUBE: MELTED CUBE DECAL

You can brilliantly waste an hour stoned out of your mind on Cherry AK-47 trying to figure out an old-school Rubik's Cube, or you can buy this decal to hang in your home and show everyone that you prefer your cube like you like your face: melted. \$24, Fab.com

5. LAVENDER KUSH CANDLE

If you're going to invest in candles, they may as well contain some weed. Kushed Candles sells an array of lovely candle products infused with

essential oils, but this lavender, sage and cannabis variety is my favorite and the most relaxing. Light this up before you light up the Northern Lights and truly get in the mood. \$30, kushedcandles.com

6. BECAUSE I GOT HIGH CROSS-STITCH

Despite what Afroman sang (hilariously), some pretty great things happen when you get high. Sure, sometimes you forget to take the pizza out of the oven, but think about that time you realized you could make Christmas fruitcake delicious by piling it with Brie cheese (try it). Let Grandma appreciate how much you love herb and her fruitcake with this handmade cross-stitch. \$26.67, by Merchant Handcrafts, etsy.com

7. UNICORN HEAD WALL MOUNTS

Personally, I could never go hunting. Hunting for shrooms, sure, or for a

great deal on a crop top, but that's where I draw the line. However, my mystical inner huntress might like to say, "I bagged a unicorn!" Available in a variety of colors. \$89.99, whitefauxtaxidermy.com

8. CAT MAGIC GODDESS FLAG STRING

Cats know our deepest, darkest secrets. They love you and make you understand that we're all just animals looking for love in this thing called life? The right strain of Cat Piss and kitty cuddles will make even the most corroded cynic believe in goddesses. Pay homage to your feline friends with the Cat Magic Goddess Flag String. \$39, goddessgift.net

9. AUDIO-TECHNICA PROFESSIONAL TURNTABLE

Watching YouTube videos of the cat that hiccups and farts at the same time never gets old. But sometimes you want to play *Talking Heads*: 77 or

Jefferson Airplane and hear it like it was meant to be heard. This top-rated record player is both USB and analog, so you can listen to the sounds of the past while digitizing for 2016. Light up and enjoy "White Rabbit." \$229, amazon.com

10. REEFER GIRL FRAMED PRINT

For all the reefer girls out there and those who love to blaze with them, celebrate how far we've come since *Reefer Madness* with this 1956 drug-exploitation pulp-paperback cover art. \$17.95, by Framed Vintage, etsy.com

11. "IT'S 4:20 SOMEWHERE" WALL CLOCK

Enough with the "It's 5 O'Clock Somewhere" signs—why should booze-hounds have all the fun with tacky home décor? Mount this on your wall and never be late for a smoke sesh again. \$16.90, amazon.com ✨

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The
Zombies
ascend to
a higher
plane.

“A lot of times in the green room, people want to smoke a thousand blunts back to back to back.”

The Zombies’ latest album, *3001: A Laced Odyssey*, reflects this dichotomy in their creative process well, from wavy moments like “Bounce” and “Smoke Break” to throwback boom-bap refreshers like “R.I.P.C.D.” The narcotized darkness that characterized earlier projects like *D.R.U.G.S.* and *Better Off Dead* is still there: Flatbush Zombies remain unafraid to address and document the grimness and horror present in American life. Nevertheless, they reject the notion that their output is overwhelmingly negative or otherwise one-dimensional. “Clearly, there’s layers to our music,” Elliott contends, and even a single listen to *3001* supports that. “There’s a balance to our music at all times,” says Juice.

Another thing that seems to have changed since the last Zombies project is their preferred strains. Despite declaring themselves as hardcore Sour Diesel devotees on previous mixtapes, the guys now unanimously prefer *indicas* like OG Kush over *sativas*. The main reason has to do with a dearth of quality product. “I haven’t smoked Sour in a very long time,” Meechy says, clearly frustrated. So if you’re looking for inroads to party with the Zombies after a show, now you know what to bring. ✨

Zombie Nation

Sorry, but Flatbush Zombies don’t want to smoke with you before or after the show—unless you’re packing some Sour Diesel. *By Gary Suarez*

Given the opportunity, what self-respecting hip-hop fan wouldn’t want to get high with Method Man? Likewise, no one in their right mind would decline a cipher with Curren\$y or Wiz Khalifa or Ty Dolla \$ign. It would be the genesis of that quintessential name-dropping story, the one you’d forever get to tell anyone and everyone who cares to listen.

So it comes as no surprise that after building an army of dankness, the cult rap trio Flatbush Zombies find themselves besieged by fans eager to smoke them out. “Every day, it’s overwhelming: Take this mushroom, take this LSD, come smoke with me and my girlfriend,” says Zombie Juice. Thanks in no small part to the ceaseless stream of drug references in their lyrics, the regularly touring Brooklyn group face constant offers of varying and

sometimes dubious quality while out on the road.

“A lot of times in the green room, people want to smoke a thousand blunts back to back to back,” Meechy Darko says. But the Zombies prefer to keep that pre-show time to themselves, relatively (though, of course, not entirely) sober. “There’s a time when I don’t look or talk to anybody,” producer Erick Elliott says. “I have to leave this world.”

As anyone who’s been to a Zombies show knows, that meditative downtime pays off: The energy onstage and in the room is palpable, with all three rappers whipping the crowd into a veritable frenzy amid the perpetual exhalent fog. If any more proof were needed against the stereotype of the lazy stoner, it would be a Flatbush Zombies gig.

Naturally, the scene in the studio fosters fewer restrictions, with Elliott’s deft

execution of the beats typically coming while high, even as the ideas originate during more clearheaded moments. “If you record something at 4 o’clock in the morning and then listen again at 9 o’clock, that sounds completely different,” Elliott says. While Juice makes a point of not lighting up directly before a concert, he’s likely to have enjoyed two joints on his own before so much as entering the recording booth to spit his bars. “The more I smoke, the easier it is to get into a certain zone,” he says. Meechy concurs, citing the distractions of sobriety as detrimental to their artistry.



Kush With Fame

Flatbush Zombies have smoked out their fair share of famous rappers, including Method Man and Juelz Santana. The latter even walked off with Meechy’s torch at South by Southwest. “I want my lighter back,” Meechy says.

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“I stumbled to the back porch and started puking and farting at the same time in front of the whole party.”

Oklahoma to a party in Chicago. When I walked in the door and someone handed me a packed bowl, I was ecstatic. The pipe was about to touch my lips when this dude from California walked up and jammed a huge rock of hash on top. Hash usually makes me sick, so I started hitting it super-light, until the Cali guy egged me on and told me to take a big ol’ rip. I ripped the bowl super-hard and immediately got the spins and started sweating. I stumbled to the back porch and started puking and farting at the same time in front of the whole party. Alex drove me home and stopped every five blocks to let me ralph out the car door.”

Hey, what are siblings for? Happily, the drummer recovered, and the band went on to up the weedy ante just a few months later, releasing their very own stoner movie, *That Was Awesome* (2015), which they wrote, directed, produced and scored.

Brushing aside compliments on her band’s work-hard/party-hard efforts, Miss Alex White modestly credits the duo’s friends and fans for their success: “They’ve made it possible for us to be DIY, or DIT—‘Do It Together.’” By the time you read this, White Mystery and friends will have done it together again, having released the band’s fifth album, *Outta Control...* on 4/20. ✨

In It for the Long Haul

The brother/sister garage-rock duo White Mystery put the “high” in “DIY.” *By Polly Watson*

They’ve wreaked party havoc everywhere from basements in Japan to skate parks in California to a parade float careening down a blustery Chicago street as they backed up Sir Richard Branson. Their wild ginger-haired looks have earned them modeling stints with Levi’s, and their unbridled garage rock has landed them national television spots, a host of sponsorships and even their very own fuzz pedal. But the sibling duo White Mystery are really dedicated to just three things: each other, their music and 4/20.

“April 20, 2008, is the day we started our band,” explains drummer Francis Scott Key White via e-mail.

“Four-twenty is also our grandma’s birthday,” adds guitarist/vocalist Miss Alex White.

The Windy City band has self-released four records to date, each issued on—you guessed it—4/20. In between, they’ve maintained a rigorous touring schedule that can keep them on the road up to eight months a year. Naturally, this has led to some important discoveries.

Muscle Shoals, Alabama, “has rock-hard weed,” Francis says, “but it also gets you rock-hard stoned. The weed in Puerto Rico is amazing, and the buds never get dry; the South of France has great bud, but they also hoard kief like it’s the end of the world and

have Mason jars loaded to the brim with delicious dust.”

But “we run a tight ship on tour,” the fiery-haired skinsman continues, “so we only ‘ride dirty’ in states where it’s legal. We have friends all over the country who smoke us out.”

This enviable state of affairs is not without its perils. Francis elaborates on a recent miserable experience: “We drove 12 hours straight from [the end of a tour in]



Legalize and Localize

Guitarist Miss Alex White describes White Mystery’s fave hometown headshop, Adam’s Apple, as “an impromptu community center for people to catch up on current events and neighborhood goings-on.”



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Quintet plus one equals brilliance.

Jazz Deviations

Kneedelus's new sounds speak in a not-so-silent way.

We're enjoying a time when the real musical movers and shakers, raised on just about everything (fortunate beneficiaries of a vast and varied music history accessed via the Internet, in large part), seem to view the perceived borderlines of musical genres as not just something to cross over, but to gleefully smear. In their collaboration with electronics/DJ rethinker Daedelus, LA "instrumental unit" (their term) Kneebody tinkers with the theory of "singularity"—the notion that humans and computer technology will become more and more as one. Their Frankensteinian *Kneedelus* zeroes in on a deep absorption of electronics into a splintered rock/jazz chamber-ensemble sound to deliver something a bit more than mere digital-effects icing spread over an acoustic sax/trumpet/keyboards/bass/drums cake.



Kneebody + Daedelus
Kneedelus
(Brainfeeder)

Appropriately, this man-machine titles its songs obliquely ("Loops," "The Hole," "They Are We," "Plat-forming") as it plumbs a deconstructivist mix of electronic and "real" instruments in a manner that dares you to describe it adequately. For ease of use, let's call it a jazz-aligned electronic music that's as much heavy power rock as con-

temporary classical refinement, played in a combination of improvisatory and compositional modes (usually somewhere in between). The achievement is remarkable: a slam-dunk of brains, brawn and amplitude that, if you're wont to traipse around looking for reference points, you'd stumble across in *Bitches Brew*—era Miles Davis, the ecstatic burn of the Mahavishnu Orchestra, and the untethered timbral glories of classic Sun Ra, among a few dozen righteous others. An inspiring mass of electric-whatever, *Kneedelus* crushes everything in its path. *John Payne*

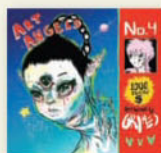
MUSIC RECOMMENDATIONS



Black Mountain
IV
(Jagjaguwar)

Black Mountain bur-nished their heavy-psych bona fides across three full-lengths and a handful of EPs, building a cult following for their dense, droning paeans to '70s art rock. They've opened some windows since their last release, giving the melodies more oxygen and pruning back

the excess—it's still hazy, but now it's possible to see across the room. Highlights include folk-psych beauty "Line Them All Up," space-rock "Over and Over" the Chain," and psychedelified New Wave shimmy "Florian Saucer." An oddly engrossing album, perfect for planetarium listening. *Chris Parker*



Grimes
Art Angels
(4AD)

In her follow-up to 2012's excellent *Visions*, Grimes delivers an album of kaleidoscopic pop and audacious experimentation. Grimes's voice exhibits a power and range often reserved for Top 40 artists. Her beats are ready for the dance floor, her melodies stickier than chewing gum. Guests include

Taiwanese rapper Aristophanes and psychedelic soul singer Janelle Monae. Standouts include the bouncy, self-effacing "California" and the infectiously catchy "Realiti." On "Flesh Without Blood," Grimes analyzes her fame and makes no apologies for being uncontrollable. *Ira Gamerman*

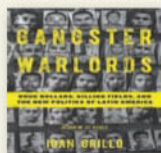


Yoko Ono
Yes, I'm a Witch Too
(Manimal)

Ono's sequel to her 2007 *Yes, I'm a Witch* finds the iconic avantist remaking/remodeling her earlier songs with an odd batch of sympathetic gadflies that includes Sparks, Moby, Miike Snow, Cibo Matto, and son Sean Lennon. Running the gamut of disco-house, hardcore electro, psych-rock and jazzy

art-noise, the new versions take big liberties with their source material, and Ono takes obvious delight in the transformation. It's fun stuff, but Ono's self- and other-wise-imposed immersion in her past is moving too, especially in Danny Tenaglia's stately redo of "Walking on Thin Ice." *John Payne*

BOOKS RECOMMENDATIONS



Ioan Grillo
Gangster Warlords: Drug Dollars, Killing Fields, and the New Politics of Latin America
(Bloomsbury)

Veteran journalist Ioan Grillo traces the Drug War in the Americas, making bloodstained stops in Colombia, Brazil, Mexico and Jamaica. His account is vivid and grisly. On the supply side, power-mad kingpins and their button men flex muscle to control corrupt officials and police

at every level of government. The demand is on the streets of New York, Atlanta and London. Grillo sees the apparent contradiction: Narco gangsters derive power from society's least powerful groups, the impoverished and dispossessed. Sadly, these suffer most in the tragic war. *Mike DiPaola*

GAMES RECOMMENDATIONS



SOMA
Frictional Games
(PS4 and PC)

SOMA is a survival horror game that uses classic sci-fi tropes to create a world so unsettling that the player will often need to put the controller down in order to gather courage. Dealing with robots who think they're human, and others that are malfunctioning death machines, leaves

the player mistrustful of any narrator. This leads to an even deeper sense of isolation as the player roams the abandoned underwater research lab where the game takes place. The storyline is philosophical; fans of Philip K. Dick will immediately grasp its ingenuity.

Mike Caiazza



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Saving the World, One Vape Pen at a Time

The weed industry is now big business, but some companies are adding good works to the bottom line.



Vape pens
light the way.

WE CAN ALL agree that weed is good, but what about the weed industry? Who among us hasn't wondered with some trepidation whether, as the profits continue to grow, the erstwhile counterculture might not devolve into a not-so-cool corporate culture?

Thankfully, some cannabusinesses are proving that they can do well and do good. Bloom Farms, a San Francisco medical marijuana company, has an impressive array of socially conscious initiatives on its plate, including plans to provide one million meals in a single year to the Bay Area's hungry. That's one meal for every vape pen or replacement cartridge the company sells.

Partnering with the SF-Marin Food Bank, Bloom Farms began delivering meals in November 2015. "We've given out tens of thousands of meals so far," director Mike Ray told us recently. "I know there's a long way to go, but I'm a believer in setting targets high."

Ray's altruism comes from his own experience. "I grew up in the mountains of Calaveras County, in a very poor community. We were relatively lucky, but lots of our neighbors came from food-insecure households. This project

"We need to put our best foot forward. Show people we're not just about making a profit—we also want to give something back."

has really given me the opportunity to do something about it."

Bloom Farms is also helping out victims of last year's Butte Fire, which torched some 100,000 acres in Calaveras and Amador counties. Ray has firsthand knowledge of the damage wreaked by the wildfire, since he had a house in Calaveras. "We lost our place as well," he says. "We're going to be okay—we're not homeless—but I can't say the same for a lot of other people." Bloom Farms donated \$25,000 in Highlighter vape pens to the Oakland dispensary Magnolia Wellness, with the proceeds earmarked for the Calaveras Community Foundation's Disaster Relief Fund.

The Bloom Farms' staff—some 35 strong—are encouraged to do good in their communities as well; the company even allots up to four paid hours per month for volunteer work. "We need to put our best foot forward," Ray stresses. "Show people we're not just about

making a profit—we also want to give something back."

Sadly, before it found a partner in the SF-Marin Food Bank, Bloom Farms had a number of charitable organizations decline its proffered help. Why? Because despite the increasing public approval for medical marijuana and outright legalization, there's still a stigma associated with pot companies.

That stigma persists even in Colorado, where folks should know better. "It is true that there are some organizations that we might want to support that are still hesitant about accepting support from the cannabis industry," says Matthew Huron, CEO of the Good Chemistry dispensary in Denver. "It is becoming easier, and the reservations are slowly diminishing as the cannabis industry becomes more mainstream. But even

though we've made great progress in Colorado, there is still much work to be done nationally."

Other Denver companies are stepping up as well. "Activism and community service and social justice were part of our mission from our very first meeting, in May 2009, before there was a penny to be made," says Ean Seeb, co-owner and manager of Denver Relief, one of the first medical cannabis joints in town. Its good works include food drives, harm-reduction initiatives with transient IV-drug users, and direct aid to the Native American community, among other things.

Denver Relief is also extremely conscientious about the stoner community's footprint, and so it's usually on hand to help organize the cleanup after events like the 420 Rally. "We feel that we have an obligation to protect the environment," Seeb says. "What better way to do that than with cannabis users?"

Good weed. Good people. 🌱

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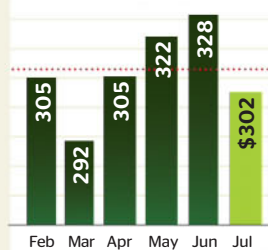
MARKET ANALYSIS

Prices by the ounce

All indices finished July below their previous month's average. The US Price Index experienced the biggest drop, plummeting \$26 from its June average. The Mids Index, which has fluctuated wildly throughout 2016, fell \$16 to an average of \$265. Haze failed to make the top five submitted strains for the first time since February.

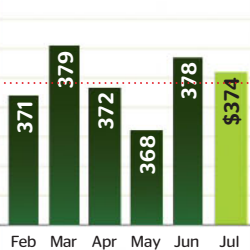
US Price Index

YTD Average: \$307



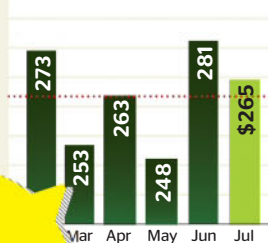
Kind Index

YTD Average: \$373



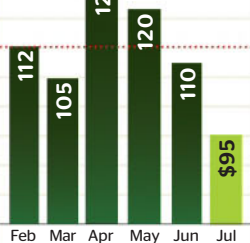
Mids Index

YTD Average: \$263



Schwag Index

YTD Average: \$112



(OG Kush)

"We have totally different prices than New York City."
Potsdam, NY

TRANS HIGH MARKET QUOTATIONS

STATE	CITY	STRAIN	PRICE
Alabama	Mobile	Sour Diesel	\$350
Alaska	Anchorage	Lemon Haze	200
Arizona	Phoenix	Blue Dream	360
Arkansas	Little Rock	Grand Daddy Purps	375
California	Venice	Kosher Kush	340
Colorado	Denver	Strawberry Cough	330
Connecticut	Hartford	Blue Dream	380
Delaware	Newark	Girl Scout Cookies	350
Florida	Brevard County	Krypies	300
Georgia	Atlanta	Ghost Train Haze #1	400
Hawaii	Oahu	Death Star	380
Illinois	Chicago	Skywalker OG	360
Indiana	Indianapolis	Sensi Star	320
Iowa	Mason City	Northern Lights	380
Louisiana	New Orleans	Headband	400
Maine	Portland	Tahoe OG	200
Maryland	Baltimore	Girl Scout Cookies	360
Massachusetts	Boston	Space Queen	380
Michigan	Ann Arbor	Master Kush	320
Minnesota	Minneapolis	Super Snowdog	350
Mississippi	Jackson	Bubblegum	360
Missouri	St. Louis	White Widow	380
Montana	Helena	Northern Lights	280
Nevada	Las Vegas	Tahoe OG	400
New Jersey	Trenton	Purple Diesel	260
New York	Potsdam	OG Kush	250
North Carolina	Charlotte	Trainwreck	220
Ohio	Columbus	Bubba Kush	360
Oregon	Portland	Jack Herer	220
Pennsylvania	Pittsburgh	Blue Dream	360
Tennessee	Nashville	Blonde Hash	420
Texas	Midland	Sour Diesel	350
Virginia	Woodbridge	Critical+	360
Washington	Camano Island	G-13	230
Wisconsin	Madison	Chemdog	400
INTERNATIONAL			
Canada	Quebec City	Girl Scout Cookies	C\$150
	Toronto	Tahoe OG	180
United Kingdom	London	Strar Dawg	£250

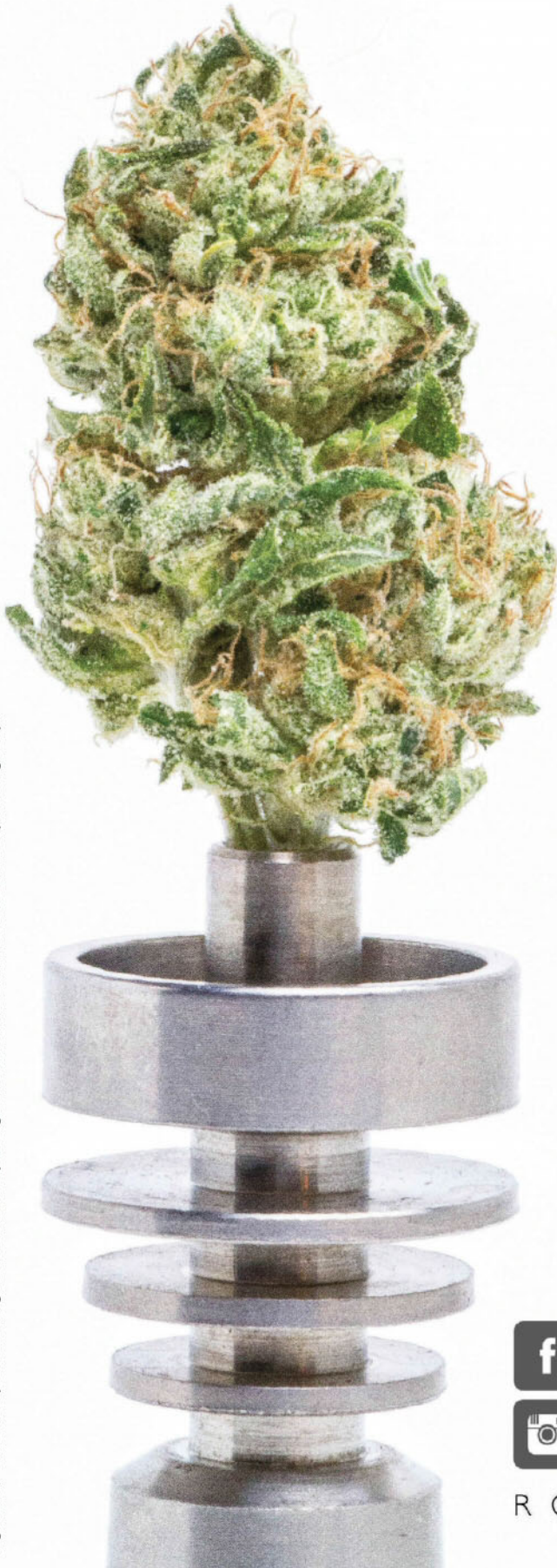
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(Blonde Hash)

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Microbial Munch—Maximize your microbes! Support, strengthen and maximize the benefits from all the beneficial microbes and fungi. It's a "superfood"—exactly what your plants need to transform into bigger, stronger, more resilient, and more beneficial creatures. In short, it's like putting them on steroids.

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Arizona Dank



When you're the CEO of the Dank Corporation, you make sure the company lives up to its name.

*Story & photos
by Dan Skye*

At 17, Alex Smith was an Arizona high-school soccer star with a fistful of scholarship offers. The path ahead looked bright. But a month after Alex turned 18, his father passed away from pancreatic cancer. His mother was broke and raising his brother, eight years his junior. Smith ended up rejecting every scholarship.

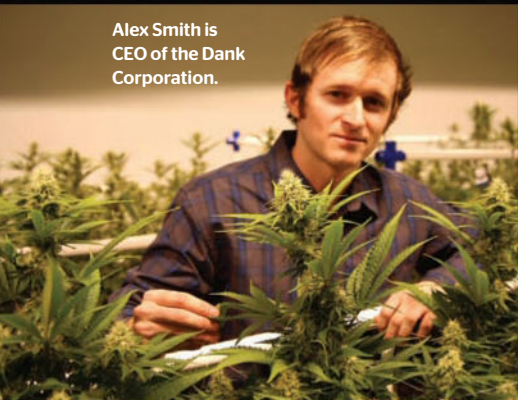
"I was extremely depressed at the time," he recalls. "I mean, you come into the world, you're becoming a man, and suddenly the guy who's taught you

everything is gone. It was gut-wrenching—and it was a game changer for me, too. I knew I had to take care of my family, to help in whatever way I could—and do that honestly."

But the next four years, he says, "were a time of failing in different pursuits"—although not in the growroom. Alex and his friend Louis discovered the joys of cannabis in high school and had developed a deep affinity for the plant. They talked about pot constantly, sharing their pipe dreams of someday growing legally on a massive scale. Now that Alex



Alex Smith is
CEO of the Dank
Corporation.



was a young man with somewhat limited options, the cannabis industry beckoned. So he began to grow.

"At first, I had some plants in the attic, trying to figure the whole game out," Smith says. "As soon as I started, I knew it was what I wanted to do—and I was successful. But my mom was terribly worried and told me, 'Enough is enough! I don't want to see you get in trouble. You have to do this professionally.'"

Luckily, her consternation coincided with the passage in 2010 of the Arizona ballot measure that legalized medical

marijuana. Smith became a legal caregiver in 2011.

Dispensaries slowly began to open in the state, but many were sorely lacking in cultivation facilities. Meanwhile, Smith's prowess in the garden only deepened, as did his desire to grow big. Over the course of several years, his operations moved from back bedrooms and garages into more spacious sites—until finally, in 2015, a sprawling Phoenix warehouse became the home of the Dank Corporation, a thriving state-licensed grow op managed by a staff of 22.



This growroom houses 1,200 plants and will yield 35-50 pounds every 15 days.

That crew includes Louis Tuber, Smith's high-school toking buddy, who now serves as Dank's compliance manager, as well as Casey Alexander, the operations manager—another pal who plunked down \$1,000 to become Dank's first investor. The average age of a Dank employee is 25; only one has reached the ripe old age of 30. Smith himself is 27.

"I just don't think we're easily intimidated," Alex boasts of his generation. "One thing I've always found funny about my age group is that we're a bunch of stubborn nuts. I've always been stubborn. We're the kids you can tell a thousand times not to do something, and we'll do it anyway. I know that when I give orders, I have to explain everything. They want to know why we do things the way we do."

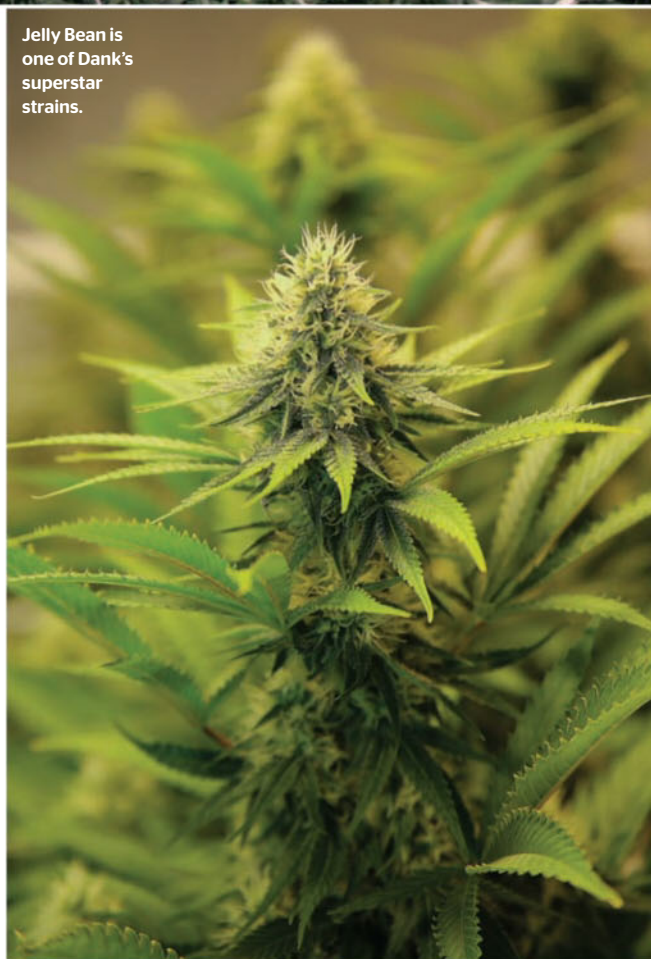
But questioning the hierarchy has hardly impeded Dank's success. Forty 1,000-watt lights from Gavitas

illuminate its two vast flowering rooms, which currently house 900 plants each. However, after recently reconfiguring the geometry of the flowering beds, the company has upped their number from 20 to 30, allowing for an additional 300 plants per room. The result will be a harvest of 35 to 50 pounds every 15 days, depending on the strain.

At any given time, 15 to 20 different varieties are blooming here. Cornbread OG from Rare Dankness is a superstar strain, Smith says. So are Nicky Kush from TGA Genetics and Tangistan Kush (whose origins he can't identify). This is an organic, probiotically driven grow facility; Smith places an emphasis on environmental safety and maintaining a clean, green operation. The company recycles its soil and utilizes beneficial water runoff. No bottled nutrients are used; instead, aerated compost teas are the order of the day.

Even though the Dank

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Corporation has just moved into new digs, it's already outgrowing the space. "We've gotta go bigger," Smith says. "There's real demand for our product."

Dank currently provides flowers for the Downtown Dispensary in Tucson. The Jamestown Center, which recently moved its operations from Eloy up to Prescott, is also a partner—as is Yavapai Herbal, which just relocated to Phoenix. Still, Smith says that managing growth in the infant cannabis industry is daunting.

"The Dank Corporation could have grown faster," he observes. "But the hardest thing, just like in any industry, is matching knowledge with investor money and having everybody be on the same page—especially with the industry being semi-legal. It's difficult for investors and the cultivation side of things to be on the same page when so many other things can slide off the edge.

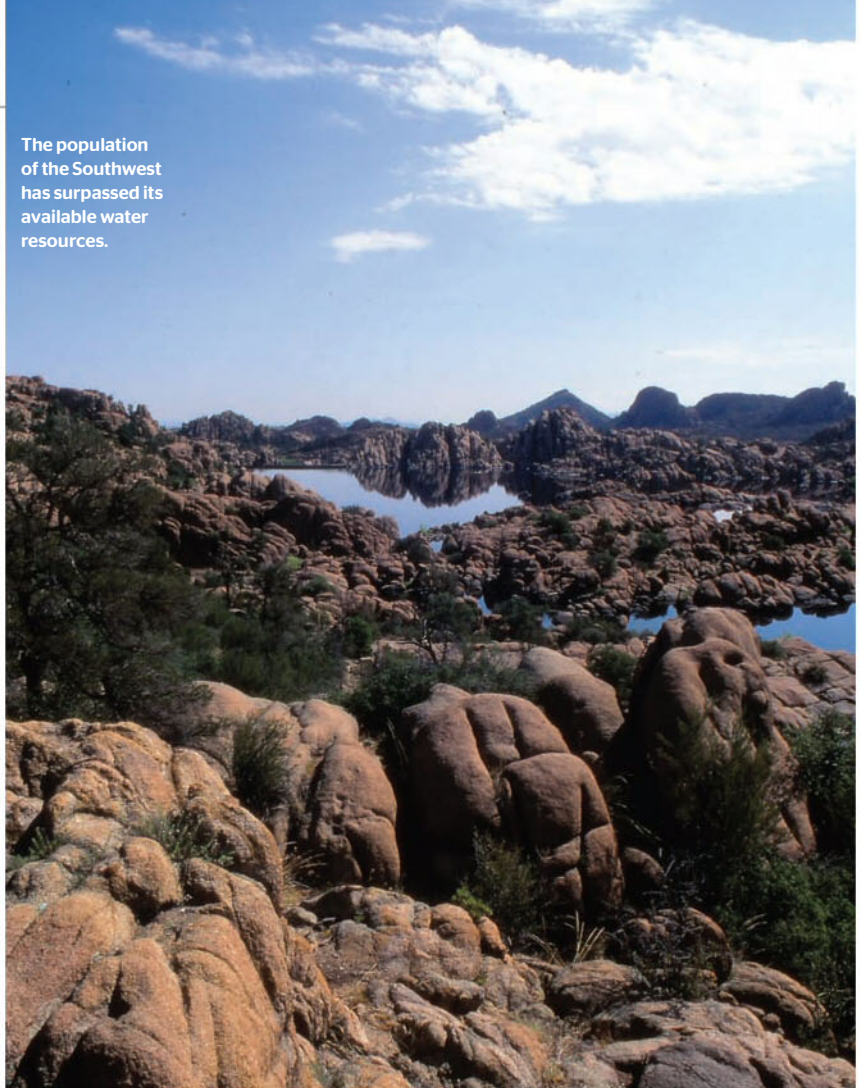
"I'm CEO and own the most equity," he continues. "I make the decisions, and I've kind of kept a very strong barrier between our work in the building and the investors. When money gets involved on the grow side, you see shortcuts, things like pesticides being used—all of the negative things that we don't want to see in our cannabis operations. If I'm going to do this, I'm going to do it my way. I'm not going to fight somebody along the way. There needs to be strict rules. I'm going to have my operation; you're going to get your money. But at the end of the day, I'm going to call the shots. That's why it took us so long to get open, because not many people are willing to deal with that." 🌿

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The population of the Southwest has surpassed its available water resources.



Dry Times in AZ

A looming water crisis threatens Arizona farmers. *By Thomas Ellerson*

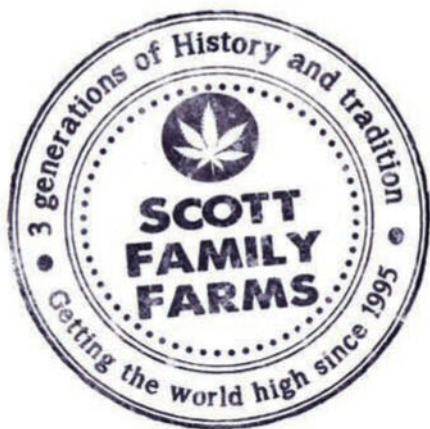
When Arizona's medical marijuana law passed in 2010, it allowed dispensaries and certain caregivers and medical cardholders to begin growing cannabis. The Arizona Department of Health Services reports that there were 1.4 million transactions in 2014 involving 9.1 metric tons of marijuana. But the state's growing cannabis industry must deal with the same reality that the rest of Arizona agriculture is facing: The region's most valuable natural resource—water—is becoming scarce.

Over the last 50 years, southwestern cities have swelled in population past the point of available water resources. As the region continues to experience an unsustainable rate of development and urban growth, the arid Southwest is speeding toward an enormous water shortage. This looming crisis is centered almost entirely around the Colorado River, which supplies water to more than 40 million people and is generally considered the lifeblood of the southwestern United States. The US Bureau of Reclamation estimates that by 2060, the demand for Colorado River water will exceed the

actual supply. In particular, Arizona faces the likelihood of extreme water shortages and mandatory cuts in agricultural water use.

In 1968, Congress approved the construction of the largest aqueduct system ever built. At 336 miles long, the Central Arizona Project reroutes an allocated amount of Colorado River water from Lake Havasu to central and southern Arizona through aqueducts, pumping plants, pipelines and tunnels.

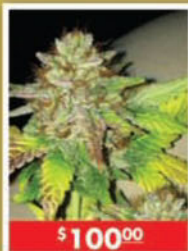
According to the CAP website, Arizona has an annual right to 2.8 million acre-feet of Colorado River water. Southwestern cities and towns depend on this water for drinking, industry and municipal use. The Nature Conservancy reports that basin-wide, the Colorado River supports nearly 16 million jobs and \$1.4 trillion in annual economic activity. The region's farmers also rely on CAP water—a fact that should be significant to anyone who lives and eats in the United States. Approximately 85 percent of the winter fruits and vegetables consumed by Americans are produced in the Colorado River Basin. Arizona's Yuma County is



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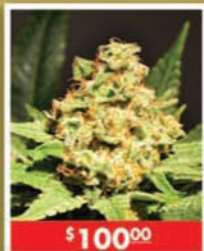
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Most of Arizona's population lives in water-deficient communities.

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In 2007, the Colorado River was in its eighth year of drought—the worst eight-year period in more than a century of continuous recordkeeping. Representatives from the seven Colorado River Basin states created an interim agreement in order to clarify shortage details in the case of a water emergency.

The 2007 agreement reiterated that the Colorado River is the "single most important natural resource in the Southwest" and stated that, should Lake Mead fall below 1,075 feet above sea level on January 1 of any given year, Arizona would face a 20 percent cut in its allocated Colorado River water resources. Below 1,050 feet, Arizona's farmers would take a 75 percent reduction—and at 1,025 feet, they would be cut off from Colorado River water entirely.

In the newly released "Conservation Generation: How Young Farmers and Ranchers Are Essential to Tackling Water Scarcity in the Arid West," the National Young Farmers Coalition reports that the vast majority of the region's young farmers list access to water as one of their biggest concerns for the future. The report also states that most western farmers are already taking steps to conserve water through innovative practices like cover cropping, soil building, experimenting with drought-tolerant crops and utilizing more efficient irrigation practices. Some farmers are even exploring the transition to hydroponics operations, a burgeoning industry that claims to use 90 percent less water than traditional soil-based agriculture.

Across Arizona, farmers are engaged in serious discussions about what continued drought and water scarcity will mean for their operations and their livelihoods. While some farmers are able to access groundwater through wells—thus not relying on CAP water—this groundwater is still being depleted at an alarming rate. In agricultural areas, the wells are dropping in water level or drying up entirely, requiring farmers to either quit farming or drill deeper to gain access to lower aquifers. Barring little short of a miracle, there's no denying that the greatest threat to Arizona's farmers—including cannabis growers—is the insecurity of their future water supply. ✱

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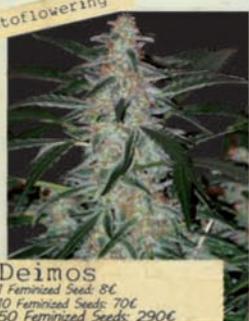
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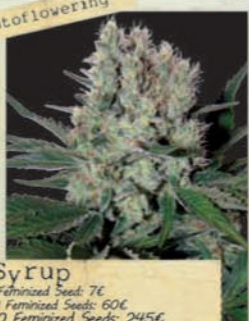
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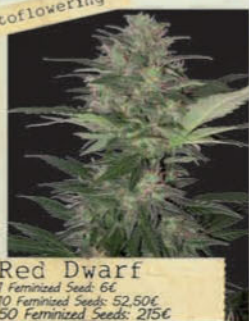
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CLONING



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K from Trichome Technologies reveals the science and methodology behind rooting cuttings for one highly successful grow after another.

WHAT IS A CLONE?

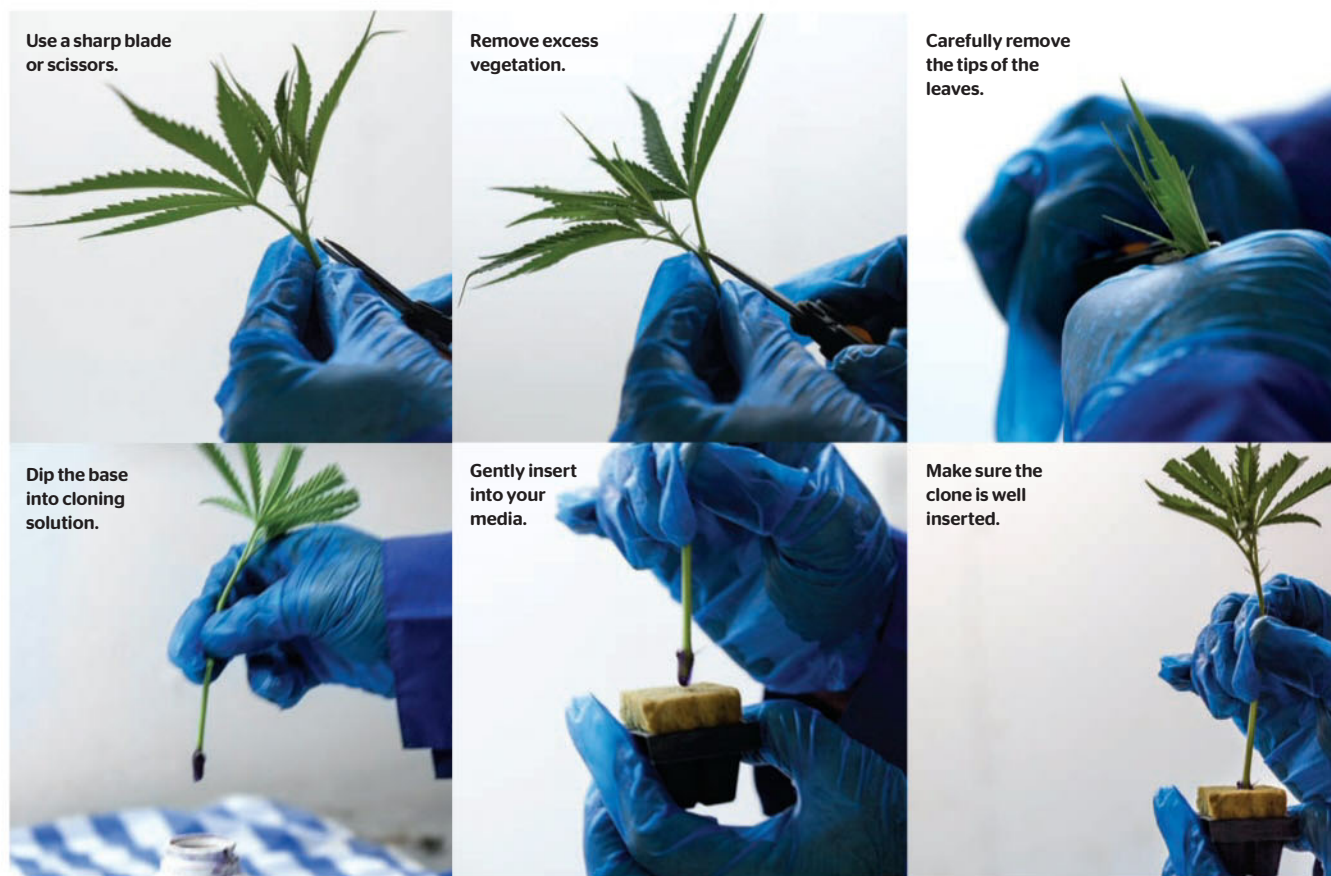
A clone is an exact replica of the plant from which it was taken: same sex, growth pattern and harvest timing. Literally dozens of successive generations can be obtained with no particular degeneration. Some growers take cuttings from mother plants, others from vegetating plants before they enter the flowering cycle.

MATERIALS

One razorblade or very sharp pointed scissors
 One alcohol Bunsen burner (for sterilization of blades)
 Heat mat
 Two measuring cups
 One small bucket for cuttings
 One mini-greenhouse dome and propagation tray
 Small potting containers (or plastic cups) with multiple holes in the bottom for drainage
 Preferred medium (soil, rockwool)
 Fluorescent lights with cool white bulbs
 Rooting hormone (such as Vita Grow) containing butyric and acetic acid
 Hand mister
 Clean, disinfected work area
 Digital thermometer



The vegetative and clone chamber with newly rooted clones in rockwool on the left.



CLONING HOW-TO

Plants rooted from cuttings are the preferred method of propagation for many growers, particularly if they've experienced difficulties starting from seed or want to be certain the offspring exhibit the identical traits of the donor plant. Cloning is easy, provided that only a sharp, sterile razor blade or scissors are used to make the final cut on the stem. A cloning solution such as Wood's Rooting Compound (available from hydroponics supply stores) is used to minimize susceptibility to embolism (an air bubble inside the stem) and transplant shock; it also delivers hormones and nutrients to encourage rapid root growth.

Aside from viable cuttings, you will need a propagation container with an insert tray and a translucent domed top to get started. There are many cloning machines and kits available at your local hydroponics supply center. You will also need a sterile, inert medium. Fox-Farms' Light Warrior soil—mixed equally with one part perlite and one part vermiculite—is a good organic medium. So are Grodan rock-wool cloning slabs.

Cuttings require warmth, moisture, oxygen and light. Inside the dome, try to maintain a humidity of 74% to 80% and a temperature of 75°F to 80°F. To maintain the temperature, use a heating mat placed underneath the tray that holds the medium. The root-zone temperature should be slightly higher (say by 3°F to

5°F) than the ambient temperature inside the dome. These mats help monitor and maintain the correct temps—usually about 15°F above room temperature. This will greatly inhibit the growth of root rot or “damping off” disease.

Caution: To make sure your cuttings don't get too hot, avoid placing the cloning tray directly on top of the heating mat. Elevate the tray 2 to 3 inches above the mat and monitor the temps with a digital thermometer.

Bear in mind that the heating will increase evaporation, so you must keep your medium moist. Not *too* moist, however—plastic covers and humidity domes can build up too much moisture and heat, which can lead to fungal problems like pythium. So you should uncover them periodically, perhaps twice a day, or place a few small holes in the cover so that excess heat and moisture can escape. Once your cuttings form roots, you can extend the period of time you keep the dome off the plants, until ultimately the clones won't need to be covered at all and will be ready to be moved to the vegetative stage.

If you intend to transplant your clones outdoors, you must remember to acclimatize them in advance. As soon as the risk of frost diminishes, take your cuttings for a few hours at a time to an outdoor, shady area protected from excessive wind, gradually increasing their exposure to the elements over a one- to two-week period.

Cloning Advantages

Productivity: Clones grow faster and accelerate the cultivation process more rapidly than plants started from seed, and their sex is usually predetermined (female).

Homogeneity: A batch of cuttings taken from the same plant will produce the same characteristics and yield uniform results.

Economy: Clones typically sell for between \$5 and \$10 apiece, depending on the source, so buying and transporting new clones is costly and potentially risky. Meanwhile, you can take dozens—even hundreds—of clones from just a few vegetative plants.



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Rooting-Hormone Tips

When using a rooting hormone, wear rubber gloves to avoid contamination.

Ventilate the room while you're working with it.

Store the hormone in a dark, room-temperature location.

Avoid breathing it in or getting it in your eyes—wear goggles and a mask!

Clean any spills with water, and remember to triple-rinse.

SOURCES

There are three main sources for clones. The first is an outside source, such as a friend or legal cannabis-buyers' club. The advantage to this is that you save yourself time, space and work. The disadvantages are the cost, unfamiliar genetics, and possible introduction of pests and diseases into your growroom. Using outside sources also allows other people to know what you're doing, which is never a wise move.

Keeping mother plants is another source. This enables you to perpetuate your genetics by taking cuttings from specific plants. In order to do this, you must keep a mother plant in a separate environment under an 18-hour-on/six-hour-off vegetative light cycle and never let it flower. Whether you're keeping just one mother or 99, the same rules apply: You give them the same light as any other plant in the vegetative stage.

Mothers allow you to perpetuate your favorite strains and dictate your own schedule. They also afford you the knowledge that your clone source is disease- and pest-free. On the downside, mother plants eat up time, space and money.

The third source for clones is to take them straight off your vegetating plants. This only works in systems that have achieved a solid rotation, when you've just harvested your finished buds and are about to move your vegetating

plants into the flowering stage. The trick is to wait two days after the plants have been placed under a 12/12-hour light cycle; this purges them of the starches that can inhibit root growth. Then take your cuttings from any or all of the lower branches, always leaving at least the top two for flowering. Once you've taken the cuttings, they can sit under fluorescent lights for up to 30 days before it's time to transfer them to your vegetating room. This completes the cycle and maximizes time and space.



Vita Grow rooting compound

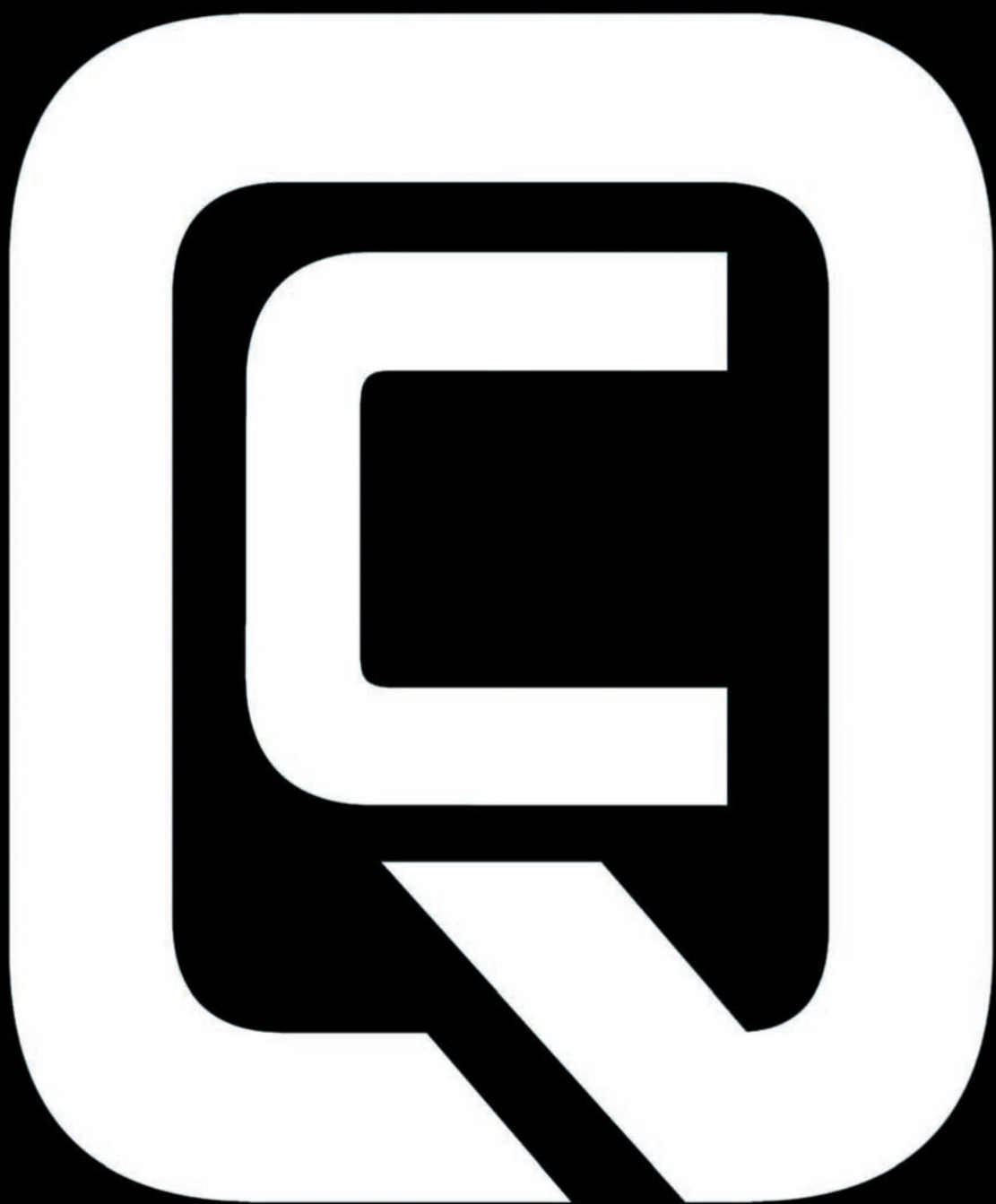
MOTHER/DONOR PLANTS

You should choose bushy plants with many small, 4-to-6-inch branches to take the cuttings from. Cuttings root more easily when they come from a plant in its vegetative stage rather than its flowering stage. For smaller gardens, the best solution is to maintain a mother plant; then you can cut off the branches whenever you want clones.

ROOTING HORMONES

Rooting hormones are synthetic hormones similar to those naturally produced in plant tissue to induce root growth. Placing this hormone on a freshly cut branch enables it to produce roots faster and with more vigor and health.

You'll save time and enjoy higher success rates when using rooting hormones, which are available in liquid, powder and gel forms. Of the three, the powders are the least recommended: The powder must cover the cut stem in a thin layer, yet it clumps up and sometimes seals the stem, preventing it from taking up water and clogging its pores. Gels are more practical because they adhere to the cutting and are easy to use; Wood's Rooting Compound and Olivia's Cloning Solution are both good products. Liquids are ideal, however, because they penetrate the stem wall and can't clump up or be wiped off as the cutting is placed in the medium; here, Vita Grow is the perfect option.



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TYPES OF CONTAINERS

Rockwool slabs are an excellent substrate and offer flexibility in terms of the final method and system you decide to use. Depending on the manufacturer, a rockwool slab can contain over 98 square 1.5" x 1.5" plugs; each square is its own grow cell for roots to develop. Whole slabs fit perfectly into most propagation or mini-greenhouse systems. The slabs can easily be cut in sections to fit your exact needs, but always remember never to work with dry rockwool. Large plastic drink cups filled with equal parts FoxFarm's Light Warrior, vermiculite and perlite also work well when propagating only a small number of cuttings.

WATER, pH, NUTRIENTS

Use extremely low levels of nutrients in the rooting stage. Excessive salts found in fertilizers can block water absorption. General Hydroponics offers excellent pH Up and pH Down solutions, but use them sparingly and adjust the levels in small increments, thoroughly stirring the solution in between each application. Also, don't use salt-based or synthetic pH-up or pH-down solutions with organic soil or nutrients.

PLANT PREPARATION

Forty-eight hours before taking your cuttings, you can prepare them on the donor plant for a higher rate of success. Choose the branches that will produce the best clones—i.e., nodes that are spaced every 1 or 2 inches, and branches with a succulent green texture, not woody or hard. Lower branches are best for taking clones because they don't contain as much nitrogen and will root more quickly. (All branches can root; some are just faster than others.) Then, on each prospective cutting, remove all of the lower leaves beginning at the lowest node, leaving only the top two to four youngest sets of leaves.

To remove the lower leaves, cut their petiole/stem with a razor blade, X-Acto knife or very sharp pointed scissors 1 or 2 millimeters from the main stem. If you accidentally cut too close to the stem, it will cause unwanted damage. Next, using pointed scissors, cut off the tips of the 2 to 4 sets of remaining leaves to one-half their original size. This will stop the new clone from spending too much energy on photosynthesis, respiration, or transpiration and force it to produce roots.

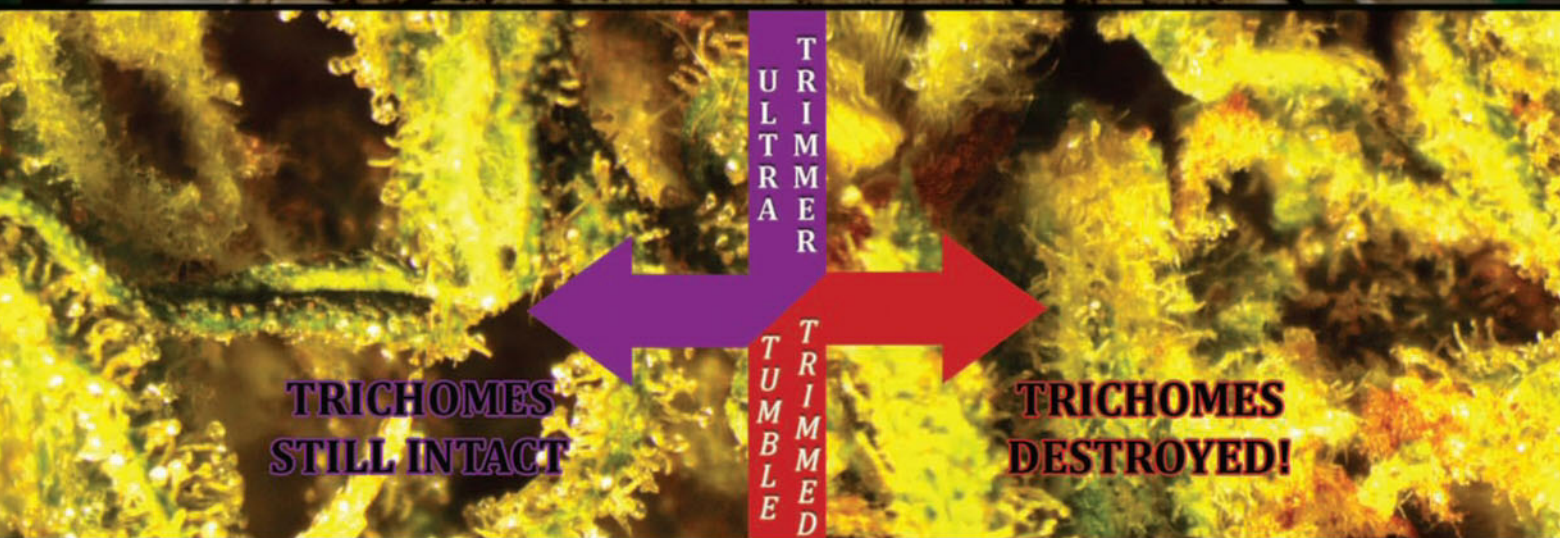
Making these preparations 48 hours in advance enables the prospective clone to callus (or scab) at the places it's been cut and experience less stress when you do take the cutting. Also, with this method, the risk of embolism in the final cut is minimized.

TAKING CUTTINGS

To remove a cutting, simply use a razor blade, X-Acto knife, or very sharp scissors and cut the stem diagonally, 3 to 4 inches below the lowest leaf-free node. Immediately place the clone into a measuring cup filled with clean, filtered, pH-adjusted, room-temperature water. The clone's stem at the point of the fresh cut will release its sap, and an air bubble can form if it's exposed to the air for too long. This air exchange must be avoided or the stem will dampen off and suffer necrosis, and the clone will rot and die.

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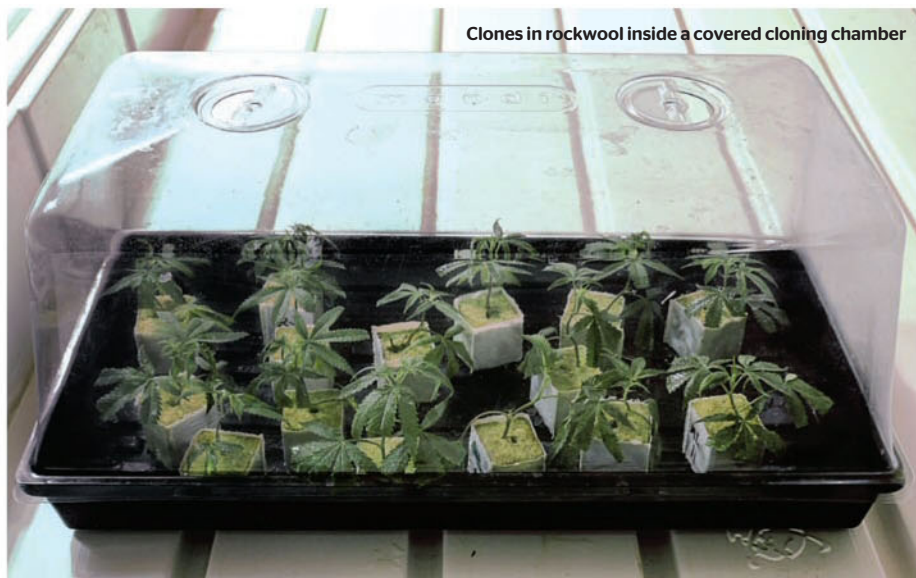
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Clones in rockwool inside a covered cloning chamber



Vegetating plants and seedlings in the same environment

TRANSPORTING CUTTINGS

Rooted clones can simply be placed in a container with a plastic bottom, or any other bottom that won't leak or absorb water from the medium (i.e., not cardboard). Place a plastic catch tray in the container to help the cuttings stay upright and keep them from sliding around or being root-damaged. Get the cuttings to their final destination as soon as possible; don't leave them in a hot car or similar environment for extended periods of time. Unrooted clones can be transported by cutting them longer than you want them and then placing the fresh-cut stem directly into pure water in either a small measuring cup or a cutting tube (a test tube with a rubber seal on the opening that has a small hole that allows the cutting to slip in but won't lose any water). Place the cutting upright in a sealable plastic bag, mist the inside of the bag and seal it. This will prevent the cutting from drying out before it's given its final cut and placed into the medium. If possible, always transport the cuttings in cool, dark conditions.



A successfully rooted clone

CLONING TIPS

Some growers make a few scrapes or superficial wounds at the base of the stem node's bark. This creates a few sites where the hormonal activity is more concentrated: Basically, the plant will attempt to heal the damaged tissue and add cells that ultimately aid in rapid root development. Never cut through the stem's core; the goal is only to scrape the outer bark (approximately 0.1 millimeters).

When inserting the cutting into the medium or container, avoid excess pressure; don't bend it or force the stem into the medium. Cuttings are very delicate.

START CLEAN

Most failures in cloning occur because of disease. Unsanitary environmental conditions are the foremost contributor to this problem. All areas used to handle, clean and trim cuttings should be sanitized before you begin. If you plan on producing your own cuttings, start with plants from a reputable grower or seed bank. Mother-plant or clone-source rooms should be closely monitored to prevent disease and the introduction of insects. Wash your hands and rotate and sanitize tools between taking cuttings from different plants.

Regular pest and disease monitoring will reduce potential problems in the propagation trays. It's difficult to produce clones if the mother plants are loaded with mildew or spider mites. Even clones from a reputable grower should be closely scrutinized! Be sure of the integrity of your source: You might be able to get a great deal on extra cuttings, but will you also be inheriting a disease or insect problem that will cost you more in the long run?

The propagation environment should also be managed to eliminate a potential source of root-damaging diseases. Sanitize everything possible with a 10-to-1 water/bleach solution (or a 10-to-1 solution of water and 27% hydrogen peroxide) between crop cycles. Rinse everything afterwards. Bag and remove damaged and diseased plants and plant debris immediately. Inspect the propagation trays each day. Continually removing infected, dying and yellowing plant material will reduce disease and dramatically lower your losses.

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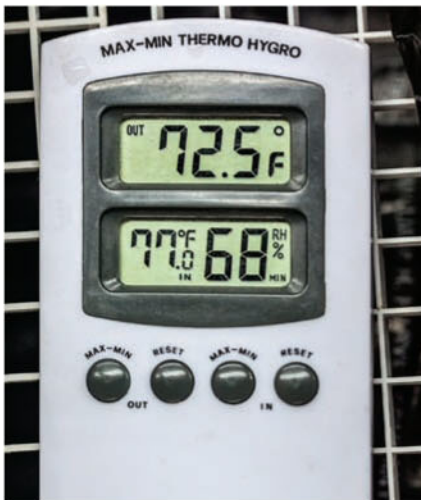
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REDUCE STRESS

Stressed cuttings usually result from excessive light and low moisture levels. Too much light can be a problem during the early stages, because it increases leaf temperatures, causing them to transpire and lose stored water. This contributes to cell collapse and dead tissue, making your clones easy targets for disease. Use cool white fluorescents, compact fluorescents, LEDs or induction lights: They're more efficient, give off less heat than high-intensity discharge lamps (HIDs), and allow light and heat levels to be easily controlled by raising or lowering the fixtures. Conversely, never allow your clones to get too cold; low temperatures will stunt growth and delay or inhibit rooting.

Minimizing moisture loss is the key to propagation. Once a cutting is taken, the clock starts ticking. Keep your cuttings misted and cool before you stick them in the medium to reduce dehydration and increase rooting-success rates. Cuttings should be stuck in the medium immediately following their removal from the mother plant. It's a good practice to apply a pure-water mist once or twice during the first 24 hours.



Always monitor temperature and humidity.

Minimizing moisture loss is the key to propagation. Once a cutting is taken, the clock starts ticking.

PROPER SPACING

Clones should be stuck 1 to 2 inches deep into the rooting medium. Cuttings stuck too shallow are liable to be washed out of the medium or loosened

to the point where rooting is delayed or inhibited, while cuttings stuck too deep may be in the part of the medium that is constantly filled with water, depriving them of the air they need to callus. The base of cuttings stuck too deep will turn black and appear diseased. This means the tissue has died due to lack of oxygen. Once that happens, secondary infections can occur, killing the cuttings. Maintaining a proper sticking depth will produce uniform results.

Sticking cuttings at the correct density is an exact science. Crowded cuttings will stretch and be susceptible to botrytis. We use 1.5" x 1.5" rockwool cubes interconnected as a slab, and that dictates our spacing.

FERTILIZATION AND PH

We like to start our clones with a half-teaspoon per gallon of either liquid Vitamin B1 or General Hydroponics' Flora series fertilizer. We mix this with clean, filtered water adjusted to a pH of 6.2 to flush the medium. We use only the liquid Vitamin B1 on the first flush/feeding and then switch to the fertilizer alone. We water the medium every three days, but your environment will ultimately determine your schedule.

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Clones from flowering plants that have rooted

THE ROOTING PROCESS: TONING

Rooting cuttings is a multistage process. In Stage 1, the cutting develops a callus (basically when the fresh cut seals itself like a scab) that keeps it from losing moisture. In Stage 2, the first root emerges. Stage 3 is when the shoot and root tissues develop, while Stage 4 is for toning the cuttings prior to transplant. This step is

often overlooked: The process should begin at least one week before planting and consists of increasing the light levels and the cuttings' exposure to vegetative-growth conditions. Clones that have been properly toned will respond to the environment shift that occurs in the finished containers with little or no wilting and subsequent leaf damage.

Stressed cuttings usually result from excessive light and low moisture levels.

DETERMINING SEX

Cloning is also a simple method to determine the sex of plants. Take the cuttings as described, except place the fluorescent lights on a 12/12-hour flowering cycle. Cuttings will show signs of being male or female in approximately 14 days. This is the proper method of sexing plants. Inducing the whole plant to flower causes stress—plus you'll have wasted two whole weeks of vegetative growth, unless you plan to flower the plant at that time. Taking a clone and sexing it makes much more sense. 🌿

Adapted from Marijuana Horticulture Fundamentals: A Comprehensive Guide to Cannabis Cultivation and Hashish Production, by K from Trichome Technologies, \$30, published by Green Candy Press and available at all good bookstores, headshops, and on Amazon.com. One-time usage print rights granted to High Times magazine.

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A high-angle photograph of a person walking through a dense field of cannabis plants. The person is wearing a white t-shirt with a graphic, shorts, and a straw hat. They are walking on a dirt path that runs alongside a body of water. The plants are lush green and appear to be in full sun. The text "Welcome to" is overlaid in large, white, bold letters across the middle of the image.

Welcome to

The view from above shows plants in full sun.

Travel with us to an island covered in beautiful pot plants grown by Cannabis Cup winner Ken Estes and his Grand Daddy Purp crew. Take an exclusive look at some amazing strains as they ripen.

Story and photos by Lochfoot

Candy Island





Behold a peninsula covered in lush pot plants.

Deep in the wilds of southern Oregon lies a beautiful island of cannabis glistening in the fresh air and sunshine. Candy Island is a mind blowing outdoor effort from the good folks at Grand Daddy Purp. Led by legendary grower and breeder Ken Estes, the creator of some of the best cannabis strains to come out of Northern California, including High Times Cannabis Cup winner, Bay 11. This is truly a magical place; hundreds of beautiful plants on the rim of a picturesque mountain lake surrounding an epic island of green giants. With the help of family, industry friends, and good neighbors, Ken realized a dream garden and a crown jewel for Oregon's sustainable cannabis future. With harvest time quickly approaching, Ken invited me up on a photo expedition to document his heavenly grow before it came down in the fall. I jumped at the chance and made my way north from the coast of California to the deep woods of Oregon on a quest to share his fruitful efforts with the rest of the cannabis world.

A true family business, Ken employs his two grown sons who work tirelessly in all respects of the garden knowing they will all share in the beautiful proceeds come harvest. These guys were instrumental in helping me get

This is a truly magical place: hundreds of beautiful plants on the rim of a picturesque lake surrounding an epic island of green giants.

the images I needed—from capturing the sketchy boat for early morning water shots, to steadying the sixteen-foot orchard ladder for overhead images of the island, they were always down to lend a hand.

They woke up early and stayed out late seven days a week for months to insure the garden's success. And they weren't alone in their efforts, some long time readers of *High Times* may remember grow articles by the Spice Brothers in the 90's, and Ken wisely added one of them to the roster to add some valuable experience. Balancing out the crew was the Spice Brother's gal, who helped out and added a wonderful motherly vibe to the scene.

At first glance it should've taken a small army to handle this garden, but with this tight hardworking family, it appears to be working out just fine. Hand watering and inspecting hundreds of plants on a daily basis is not for the faint of heart, and these guys are hard chargers. With decades of growing experience under his belt, Ken teamed up with the fine folks at Advanced Nutrients to

create a beautiful sun-drenched organic grow producing some of the healthiest, sticky plants I've ever come across in a large-scale garden. Although the crop was planted a little late in the season, the right organic nutrient combo gave the plants a big push into the frosty bushes. Next year, Ken plans to get the garden started sooner and possibly expand the grow to include even more of his great strains on this wondrous land.

When I visited, several amazing strains filled out the fruity green utopia. There was the famous GDP, Ken's first strain to get serious exposure and win the hearts and lungs of sticky purple bud lovers across the land. Rounding out the garden were Purple Dream (GDP x Blue-dream), Snow Cap (Catpiss x Jack Herer), Candy Land (GDP x Bay Platinum Cookies), and Ken's OG (Ken's special cut).

Walking the trails around the small lake revealed hundreds of beautiful plants, ripe for the picking. As this was the first grow by Kenny and crew in this amazing spot, they had some huge hurdles to jump to get things growing. They succeeded with help from friendly

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Snow Cap
is a cross of
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A grower finds a brief moment to relax on the island.

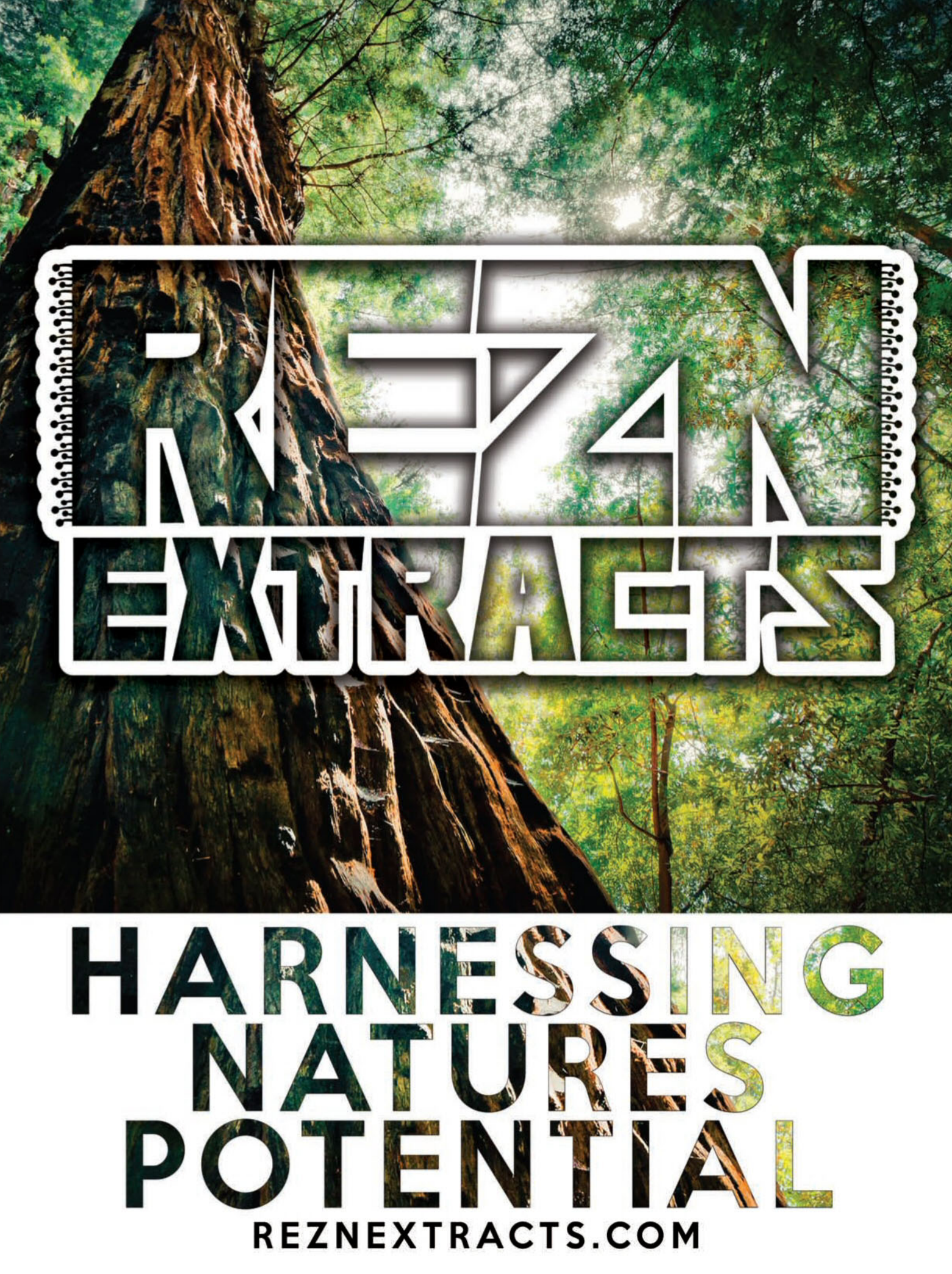
locals whose roots ran deep in the area. Friends and neighbors offered advice and fair deals on locally sourced soils to get the garden started right. Taking care of such a large grow with a small crew has its advantages. Loose lips sink ships, and in this remote location with only a handful of neighbors within miles of the garden, the GDP crew struck a good balance with the rural cannabis community to help keep things tight.

The last day of my visit coincided with the first day of legal recreational sales in Oregon, so we took a break from the garden to visit the nearest dispensary to ring in the historical date in style. After a few celebratory puffs and woo-hoos, we made our hasty retreat back to the garden to keep our eye on the prize. After mornings of cruising the lake for the panoramic views, it was time for the closeups, and these girls did not disappoint. Fragrant

Friends and neighbors offered advice and fair deals on locally sourced soils to get the garden started right. Taking care of such a large grow with such a small crew has its advantages.

terpenes swirled around my makeshift studio while I gently posed the ladies to bring out their best for the camera.

Hours went by in minutes and before I knew it, it was time to have a well deserved smoke session. An early harvest of Ken's OG was sticky sweet with a musky punch that made it hard to focus on anything but the fat joint being passed around the GDP crew. "If you think this is great, just wait until next year!" Ken proclaimed as I stumbled through the fog to get my last look at the garden before the light faded. High fives and big hugs rounded out my departure from Candy Island, and then it was time to express my thanks to Ken and the GDP crew for inviting me up to their truly glorious grow. Can't wait until next year! ✨



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Q&A with Ken Estes

The garden looked amazing with little to no insect damage, mold, or nutrient deficiency issues. Do you have any secrets you'd like to share with the outdoor grow community on how you we're able to avoid these common problems?

You have to constantly be observing your plants and watching for any

negative conditions that you see and try to diagnose why they look like that. Nowadays, there are so many different ways to treat things through the soil and giving them organic treatments. You need to be organized and clean and keep things that way. One of the best preventative things that you can do is always keep a close eye on your plants so you can get ahead of what is happening almost before it starts. Plus, you can learn from your fellow colleagues and discuss with them how to do things. Learn from what you observe because some plants may be more resistant to mold and insects or better suited for the climate that you have them in.

Were these plants from seed or clone? Do you have a preference and why?

Some are from seed and most are from clone. I like to bring my strains up in seed form and cross them and put them outside and see how they do. The specific phenotypes that I like I keep and mother them and take clones off them after I determine which ones I want to keep. I'm constantly doing both to try to find the best phenos and specific traits that I want to see in my plants. Once I identify what I'm looking for I keep them.

You said this garden was started a little late in the season, what did you do to help your plants

catch up?

Advanced Nutrients helped me. I used their full organic line on Candy Island and on part of my garden and they were both the best performing parts of my garden. Even with 20-plus strains they all maintained vigorous growth and stayed green late into flower and that's a testament to how well the nutrients do on a wide range of strains. Also, great weather helped me as well. Having the right combination helped me tremendously this summer.

Did you take any precautions to protect your crop from animals or human bandits?

Yes, we put up fencing and cameras and lights.

Did you have to filter or treat your water supply for the plants?

Not the outdoor ones, I get them from a spring or lake source but indoors I usually treat the water with a proper reverse osmosis system for everything (the mothers, clones) etc.

What was your nutrient regimen? Did you make any key adjustments to your schedule?

I'm basically following the Advanced Nutrient formula for their organic line and I have been talking to their experts who have been very knowledgeable and helpful in achieving these results. In fact, I've noticed an increase in yields by closely following their recommended formula.

What is your single most important key to overall plant health?

The formula is giving them the ideal environment and nutrients. You have to make sure you have the right temperature and humidity and you must have good airflow. And then with your nutrients you want

to make sure you don't have too much redundancy and that you give these plants exactly what they want. These plants have been growing for thousands of years from places all over the world so you want to give them the exact environment that they want.

Did you top the plants or train them to aid in their growth?

Yes, we do multiple toppings and it depends if you're doing indoor or outdoor. For indoor, I do it twice and outdoor I focus more on spreading out the branches to see more light through. I try not to over top it.

What are the advantages of a small crew in your garden operation?

One of the main things is accountability. I know if something doesn't go right or if there are issues why that happened and what the reason for it is. They know every plant and the details of each one and we're all able to communicate with each other. I prefer to have boutique smaller areas rather than growing in big areas. That way you can concentrate on specific plants and dialing in the environment. I have huge demand for my products and can never seem to fulfill it. To me, it's about the medicine and focusing on the small details of each grow. I'm not concentrated on the big commercial grow.

How are you preparing for next year's crop?

I'm constantly growing my clones to bigger plants preparing them for outdoors. For my indoor operations it's just a constant cycle of mothers, clones and flower. I'm also trying to plan out which strains to run in the future and where I want to see progress in the GDP lineage of strains. ✿

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ADVANCED NUTRIENTS PIONEERS MARIJUANA GROWING EDUCATION

Advanced Nutrients has recently launched **Grow Med University (GMU)**, a free, self-directed online hydroponics course that reveals the latest techniques, tips, tricks, and technology used by the most competitive marijuana growers in the world.

Step-by-step tutorial videos, white papers, efficacy reports, and informative scientific articles allow any grower with an Internet connection to hone their skills and help produce their best harvest yet, free of charge.

Why Marijuana Growing Education Is a Top Priority for Advanced Nutrients

The medical marijuana industry is growing every minute. Legal marijuana is the fastest-growing industry in the U.S. and a slew of other businesses are jumping on the bandwagon as well. At present, 23 U.S. states allow medical-marijuana use, while 7 have legislation pending to issue licenses for it.

4 states and Washington, D.C. have legalized cannabis outright, while another California referendum in 2016 will allow recreational use in a state that was the first to permit medical marijuana use way back in 1996. It is estimated that medical marijuana is already a multibillion-dollar industry (without counting recreational sales).

While a great deal of information and misinformation appears daily on the Internet, novices and more advanced growers alike are always looking for a source of reliable information which can serve to improve their yields, both in terms of quality and quantity. A whole community of growers inhabit the growers' forums and are always looking to perfect their growing skills, without having to wade through hours and hours of irrelevant or misleading forum posts.

GMU is a bold step in a better direction, and by elevating the general level of education among growers, the quality of marijuana, especially as medicine, will skyrocket worldwide. This isn't just for connoisseurs. It's for children with epilepsy, as well as adults suffering from the effects of chemotherapy, chronic pain, and glaucoma. Thousands of YouTube videos help document the impressive results of therapeutic cannabis use.

Grow Med University is a course representing the cumulative experience of scores of the most competitive growing experts. From day one, it was envisioned as a community-driven resource, providing much needed knowledge to the medical-marijuana community. If you have a passion for hydroponics and growing marijuana to help patients get rid of illness and pain, then **Grow Med University** is for you.



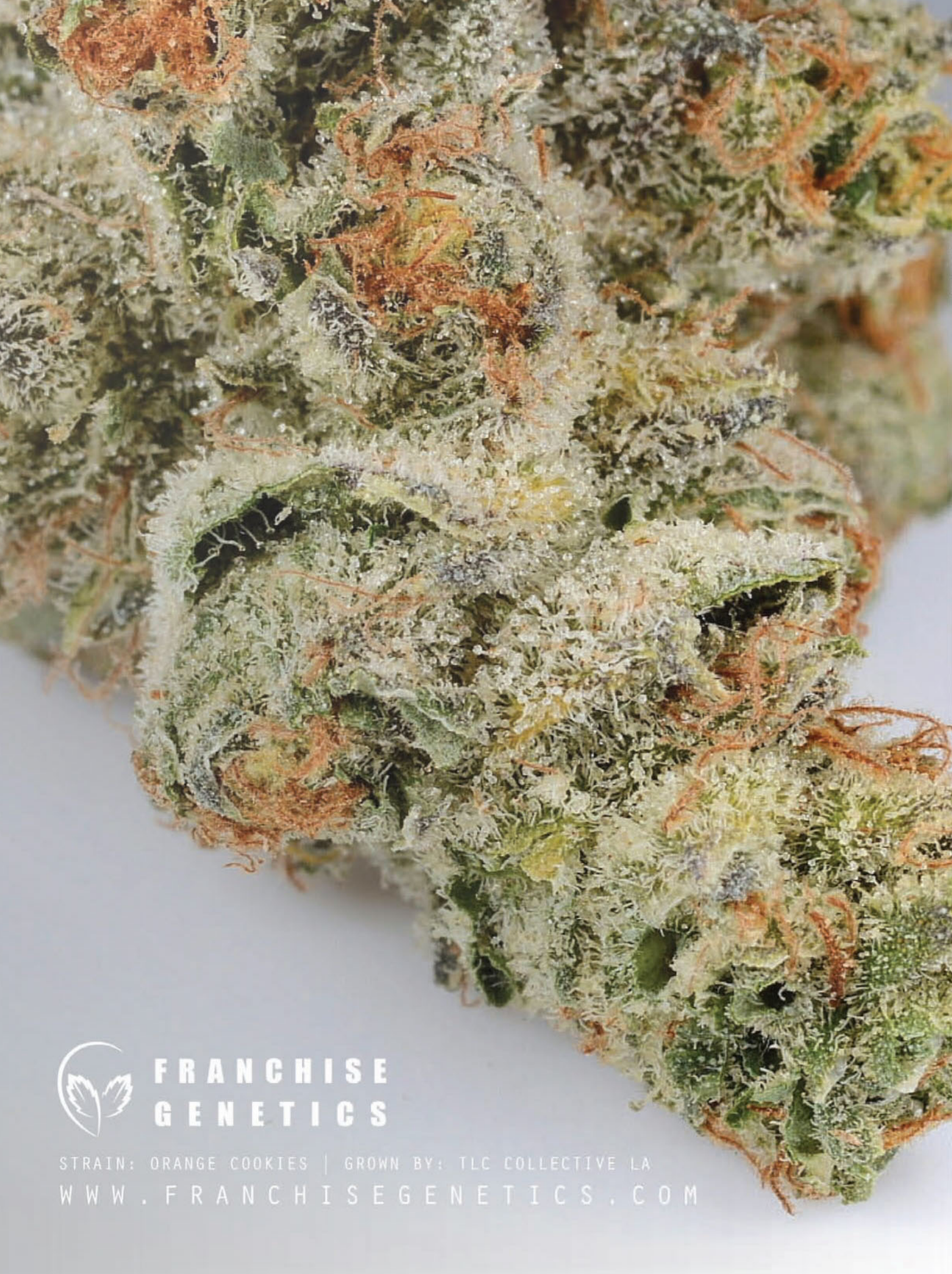
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Start grilling and chilling this summer with a kickass recipe for these Canna-churri Steak Kabobs on page 90.

Ganja Gourmet



Emboldened by legalization and society's increasing fascination with all things pot, some of the country's top chefs have begun pairing cannabis with their cuisine and offering elusive "pop-up" dining experiences featuring high-end THC-infused food. *By Elise McDonough*

The first time I attended a gourmet "secret cannabis dinner," in 2012, I was seated next to Pulitzer Prize-winning *Los Angeles Times* restaurant critic Jonathan Gold, who later published a column about the emerging trend, noting that "Transgressive eating has become vogueish... as has obsessive concentration on a single ingredient."

Since that fateful meal, which featured visionary cuisine from Laurent Quenieux and Nguyen Tran, the cannabis dining scene has exploded, with young culinary-school graduates and seasoned chefs alike exploring a lucrative niche that's fun, hip and dangerous enough to be exciting. Even bigger names are now getting into the mix, with *Top Chef* winner Hosea Rosenberg launching a series of Harvest Dinners in Boulder, Colorado, that feature local produce paired with a wide array of cannabis strains.

Part of the appeal is certainly that marijuana famously enhances the smell and taste of food, but the underground cannabis dining scene also promises an outlaw vibe that attracts adventurous and artistic

types. Currently, it's still not legal to serve weed-infused food in a restaurant setting anywhere, even in freewheeling Colorado, since public consumption is technically forbidden, even for "edibles." Chefs skirt these prohibitions by hosting private events that feature infused dishes, or by pairing cannabis strains with a sumptuous multi-course meal. Many of these secret supper clubs operate like speakeasies, with entry codes, last-minute location announcements and guest vetting. Most chefs seat 15 to 30 people, allowing the hosts to converse with everyone and maintain an intimate, mellow atmosphere.

Hawaii Mike is a self-taught cook who works with Chef for Higher, a cannabis catering company operating completely underground in New York. Almost every month, eaters in the Big Apple gather to sample his home-style comfort food at Dinner Is Dope events, with infused dishes like butternut squash soup, roasted whole branzino and mac-and-cheese. "At the end of alcohol prohibition, there were 1,200 speakeasies in New York alone," Mike tells me. "There's always been a gray market, and word spreads amongst people in the know."





Guests at the Wake & Bake Brunch were welcomed with a Mission Fig Crostini with Chestnut Honey and Chevre.

Marijuana famously enhances the smell and taste of food, and the underground cannabis dining scene also promises an outlaw vibe, attracting adventurous, artistic types.

The dosage at Dinner Is Dope can range from 15 to 35 milligrams of THC per dish, so over five or six courses the attendees can ingest up to 175 mg., a sizable amount intended only for those with high tolerance. “We want to be able to control how much people consume, so we monitor how much THC people have eaten,” Mike says. “And there’s always the option to have unmedicated food.”

Most canna-chefs prefer to err on the side of caution, with the majority of medicated meals I’ve experienced or investigated dosed at only 15 to 25 mg. total, allowing patrons to enjoy—or “enhance”—without becoming overly intoxicated or risking a negative experience.

Also popular are pot-pairing events where the food is served sans THC, but each course is followed by a specially selected strain. Allowing diners to toke piques their appetites, really helping them to appreciate the sensual nuances of each dish, while also letting them share the sacrament and some good vibes with their fellow diners—or breakfasters, for that matter.



Fresh Maine Lobster Roll on Brioche from Chef Coreen Carrol.



Mushroom Ravioli with Truffle Pecorino from the chefs at Dabs, Drinks & Dinner.



Rack of Lamb, Roasted Potatoes, Peas, Lamb Jus being plated by Chef Miguel Trinidad.

Eight Canna-Chef Dinners

Cultivating Spirits

Working with chef Chris Lanter of Cache Cache in Aspen, Phil Wolf at Cultivating Spirits recently threw a kick-off party for the X Games featuring five courses of infused dishes, strain and wine pairings, and infusions created by chef Joey Galeano from Magical Butter. Cultivating Spirits has pioneered the emerging cannabis hospitality scene, hosting dinners, tours, classes, parties and more in Colorado.

The Herbal Chef

Chris Sayegh of The Herbal Chef creates high-end, cannabis-infused food from gourmet ingredients, plating beautifully arranged, inventive dishes for private parties and events. Recently featured at the Cannabis Wedding Expo, Sayegh is committed to providing elegant dining experiences for cannabis lovers!

Cannaisseur Dinner Series

Hosted by chef Coreen Carrol and Ryan Bush, the Cannaisseur Dinner Series is an underground cannabis “pop-up” event that pairs select strains of flower with farm-fresh seasonal cuisine. It’s perfect for people who love to smoke while enjoying a sensually elevated meal and wonderful company, without worrying about getting too high.

Mason Jar Events

Kendall Norris at the Mason Jar Event Group focuses on bringing people together around farm-to-table dinners, pairing cannabis strains with local seasonal cuisine. Last fall’s Harvest Dinner brought *Top Chef* winner Hosea Rosenberg to Boulder’s Shupe Homestead for a fabulous event that integrated foodie culture with cannabis connoisseurship.

Dinner Is Dope

Hawaii Mike and Chef for Higher deliver amazing medicated meals in a completely underground speakeasy atmosphere, serving up cannabis comfort cuisine with 15 to 35 mg. per dish, for a total of 150 to 200 mg. of THC for eaters with a high tolerance. Dinner Is Dope events take place almost every month in New York, with expansion to Denver and California coming soon.

Dabs, Drinks, Dinner

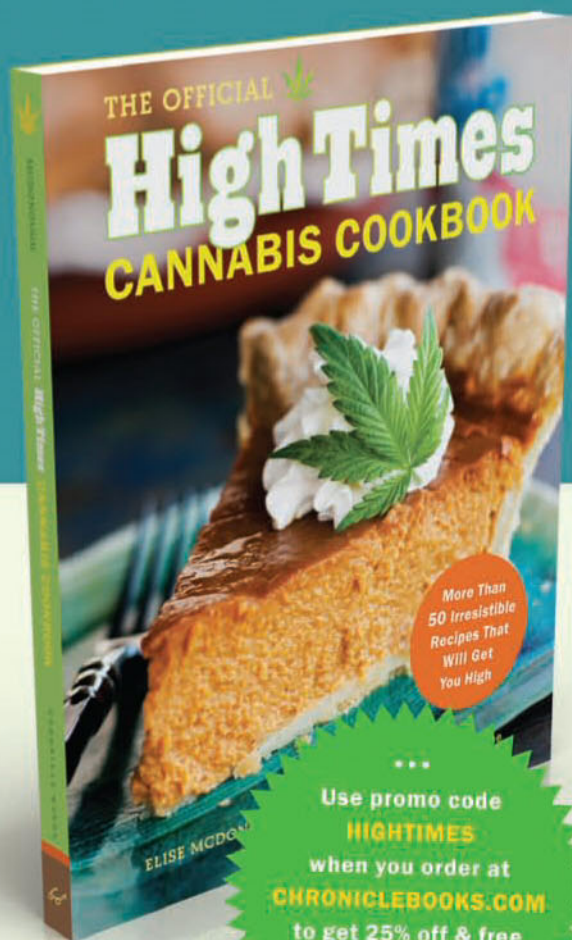
Hosted by Marijuana N’ Munchies, a popular cannabis caterer in Los Angeles, the Dabs, Drinks, Dinner series kicked off last September, with new events happening sporadically. Past menus have included offerings like stuffed baby calamari with tomato-chorizo ragu and duck-fat potatoes, and steak with creamy polenta, tomato jam and farmers’-market vegetables.

Chef Nugs

A chef for private dinners and industry events, Chef Nugs juggles catering with his activism for the Weed for Warriors Project, which focuses on soldiers suffering from PTSD and other issues. Many of his dinners benefit this worthy organization, usually featuring five or six courses with dosage levels at 5 to 10 mg. of THC per course.

99th Floor

Created by renowned chef Miguel Trinidad, owner of the Filipino gastropub Jeepney, 99th Floor offers curated cannabis meals with a modest amount of THC. These invite-only events require a referral from a previous guest or a vetting through social media.



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Five Tips for Your Cannabis Dinner Party

When hosting a THC-infused meal at your own home, follow these pro tips from chef Coreen Carroll for a memorable evening.

Go low and slow:

You don't want people getting too high, so dose each course at 3 to 5 mg. of THC. Guests will want to try multiple treats, and this way you can ensure that no one bites off more THC than they can chew.

Variety is the spice of a party:

Give people multiple ways to consume cannabis throughout the event by offering an array of delivery methods, including edibles, vape pens, a dab bar or pre-rolled joints.

Get in the flow:

When offering flowers during a dinner, incorporate the strains into the flow of the meal by holding joint “intermezzos” between each course. Sampling a different flower after each dish transforms your dinner into a full tasting experience in which each strain gets undivided attention.

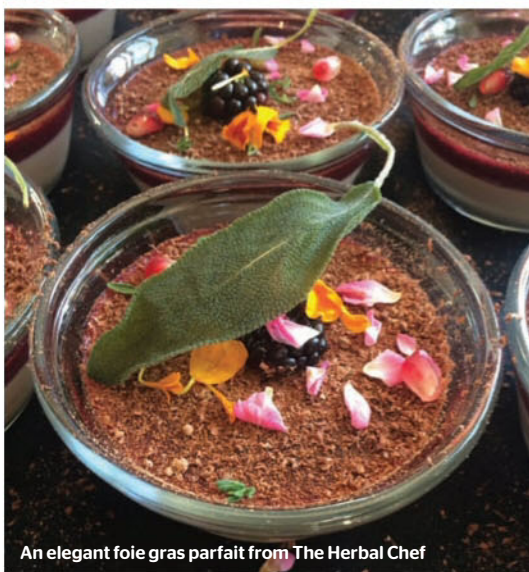
Limit the booze:

People drink less alcohol while sampling cannabis, so go easy on the beer and wine and let people fully experience the effects of cannabis instead of overshadowing it with alcohol. Also, be sure to have plenty of water available!

Start mixing it up:

Making a medicated “mocktail” is always a fun way to incorporate cannabis as an alternative to spirits. Use an infused, alcohol-based tincture for big batches of drinks and stir thoroughly to ensure that they're properly mixed.

Chef Coreen Carroll at work preparing her Fresh Maine Lobster Roll on Brioche



An elegant foie gras parfait from The Herbal Chef

“Many of these secret supper clubs operate like speakeasies, with entry codes, last-minute location announcements, and guest vetting.”

For example, one sunny San Francisco afternoon, I attended a Wake N' Bake Brunch hosted by Coreen Carroll and her fiancé Ryan Bush, proprietors of the Cannaisseur Dinner Series. Guests mingled in the courtyard of a large loft, sipping mimosas, coffee and juices before sitting down to some exquisite brunch fare: ricotta and brown-butter pancakes, fresh Maine lobster on brioche, homemade corned beef with a farm-fresh poached egg on an Arizmendi English muffin, followed by a pinot-noir-poached pear. There was plenty of herb to smoke or vape, but on the edibles side they served only a lightly medicated amuse-bouche—chocolate-covered cherries with 5 mg. of THC—that allowed guests to get slightly high but not overwhelmed.

“The flower is the star, and you want to complement it,” Coreen says, describing the process of pairing a Strawberry OG *indica* with a strawberry-endive salad. “The *indica* has a heavy high, with berry hints to it and a touch of bitterness, so I chose the endive for the bitterness and a gorgonzola to bring out that funky richness of the OG.”

Joint intermezzos provided by the “farm-to-pipe” sustainable-pot suppliers FlowKana kept spirits (and patrons) high between courses, starting with an energizing 26 percent THC Chem Dog Special Reserve 2012, a buzz-worthy *sativa* that FlowKana's tasting notes described as “a citrusy floral smoke that picks up intensity, imparting a tangy oil drench finish.” As the brunch progressed, our hosts next sought “to calm down the high,” in Coreen's words, with a “mellowing” Black Rose strain that was 5.4 percent THC and 11 percent CBD. An *indica* joint concluded the soiree, a San Fernando Valley OG Kush with a 28 percent THC profile that filled the air with “a strong lemon cleaner smell mixed with pine.”

However, other cannabis chefs argue that smoking during a meal doesn't allow the flavors to be properly appreciated. Chris Sayegh (a.k.a. the Herbal Chef) prefers offering his patrons a hit of cannabis extract from a freshly cleaned glass rig or vaporizer to really capture the unique flavors of each strain, explaining: “When you're combusting THC at a high rate, it immediately turns into smoke and coats your tongue. Therefore, you're not tasting the weed and you're not tasting the food properly.”

Through his cannabis catering company, Sayegh crafts truly *soigné* cuisine, dosed with THC to individual specifications and meticulously plated. He prefers French techniques with Middle Eastern and Italian influences; his favorite recent dishes include arancini bites, salty braised pork belly and a foie gras parfait.

A veteran of fine-dining kitchens, Sayegh believes that the beauty of the cannabis dinner party lies in exploring the versatility of marijuana as an ingredient. As far as dosing goes, Chris says that the majority of his customers prefer “10 to 15 milligrams of THC, especially with the wine—but if they want 100 milligrams, that's their choice.”

Hiring a private chef knowledgeable in the ways of cannabis infusion allows guests to customize their experience, designing an elegant meal intended to fulfill the loftiest expectations. Cannabis and cuisine mesh together so seamlessly, in such a sensual balance, that it's no wonder these weed dinners are tantalizing adventurous eaters. So get on the list, learn the secret handshake, and prepare to enter the underground world of cannabis speakeasies. ✨

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Creamy
Butternut
Squash
Soup

Planning the perfect pot party? Use cannabis infusions in a variety of ways to showcase the versatile flavor of the herb, and keep your THC doses low so the entire meal culminates in a relaxed and pleasant vibe.

Five-Course Marijuana Menu

Appetizer: Bacon-Wrapped Dates

This is one of my favorite classic appetizers—I would make asiago-stuffed dates wrapped in bacon at the Cannabis Cup for friends, family and staff. The combination of salty, savory, sweet and cheesy never fails to please! This version comes to us from *Herb: Mastering the Art of Cooking With Cannabis*, by chef Laurie Wolf and Melissa Parks.

16 pitted dates
2 tbsp. goat cheese
4 tsp. cannabutter
8 strips bacon, cut in half crosswise

Preheat the oven to 325°F. With a small knife, make a slit in each date and spread it open.

In a small bowl, thoroughly combine the goat cheese and the cannabutter. Divide the mixture among the dates, pressing it into the center and closing the dates after filling. Wrap a bacon slice around each stuffed date. Put the dates, seam-side down, on a baking sheet. Bake until the bacon is crisp, about 10 minutes.

Soup: Creamy Butternut Squash

Supremely satisfying, this simple soup nourishes the stoner soul. Make extra and freeze it for a quick weekday meal along with a grilled-cheese sandwich.

2 tbsp. cannabutter
1 medium sweet onion, finely diced
13-lb butternut squash, peeled, seeded and diced
5½ cups unsalted chicken stock
½ cup heavy cream
½ tsp. ground nutmeg
Salt and pepper to taste

In a large pot, melt the cannabutter over medium-high heat. Add the onions and cook until they're translucent, about eight minutes. Add the squash and stock. Bring to a simmer and cook until the squash is tender, about 15 to 20 minutes. Stir in the cream, then turn off the heat and let the soup cool slightly.

Working in two batches, puree the soup in a blender or food processor. Return the blended soup to the pot and rewarm it over medium-low heat. Season with nutmeg, salt and pepper before serving.

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Pasta: Bucatini with Sour Diesel

"My go-to dish is a bucatini pasta with olive oil and a little bit of Sour Diesel mixed into it. I extract the Sour into the oil, then I toss it with some broccolini, red-pepper flakes and toasted garlic. I could eat that every day. It gets me goddamn demolished, man."

—*Action Bronson, speaking to Rolling Stone*

4 tsp. olive oil infused with Sour Diesel
1 lb. broccolini, stems peeled and spears halved lengthwise
12 oz. dried bucatini or spaghetti
2 minced garlic cloves
1 pinch red-pepper flakes
Kosher salt, to taste

Bring a large pot of salted water to a boil. While you're waiting, make the broccolini sauté: In a heavy sauté pan over medium-high heat, warm the olive oil. Add the broccolini and cook, stirring occasionally, until crisp-tender, three to four minutes. Season with salt. Add the garlic and red-pepper flakes and cook, stirring constantly, for one minute.

The water should now be boiling; add the pasta and cook, stirring occasionally, until just al dente. Drain, then add pasta to the sauce in the skillet and toss vigorously with tongs to coat. Serve immediately.

Meat: Cannachurri Steak Kebabs

Cannachurri, an infused version of the popular Argentinian condiment chimichurri, is herbaceous and savory—a perfect match for the earthy flavors of cannabis. Divide the cannachurri into two portions: one-half to marinate the steak and one-half to serve with the finished meal.

For the cannachurri:

2 bunches Italian parsley
12 cloves garlic, chopped
4 tbsp. plus 4 tsp. of canna-oil
1 cup olive oil
½ cup red-wine vinegar
2 tbs. chopped red onion
4 tsp. freshly squeezed lemon juice
2 tsp. dried oregano
1 tsp. salt
Freshly ground black pepper to taste

In a food processor or blender, pulse all of the ingredients until pureed.

For the kebabs:

1½ lbs. beef-sirloin tips, cut into 1½-inch cubes
1 large red onion, sliced into 1½-inch cubes (about three onion layers each)
2 zucchini, sliced crosswise into large chunks
1 red pepper, cut into large slices
½ pineapple, peeled, cored and cut into chunks (optional)

Place the beef cubes and veggies in a large, sealable plastic bag and shake it up. Add half of the cannachurri marinade and seal the bag, pressing out as much air as possible. Marinate, refrigerated, for at least one and up to five hours.

Thread the beef onto skewers, then thread the veggies onto separate skewers. (This ensures an even finish for both.) Light the grill and allow it to heat for five minutes. Oil the grate, then grill the beef skewers until the meat is well seared on all sides, about three minutes per side. (The internal temperature of the beef needs to reach between 125°F and 130°F on an instant-read thermometer.) Transfer the skewers to the platter and let sit for five minutes. Serve immediately with the remaining cannachurri sauce.

Bacon-Wrapped Dates



Cannachurri



This pie is an impressive way to end a cannabis-infused dinner.



Dessert: Banannabis Cream Pie

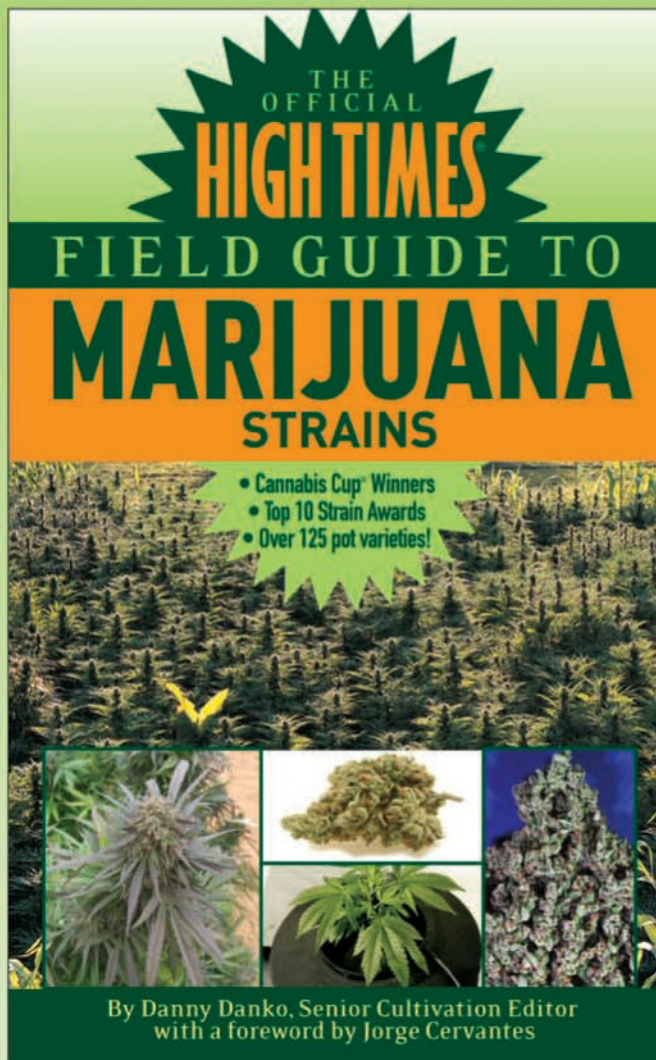
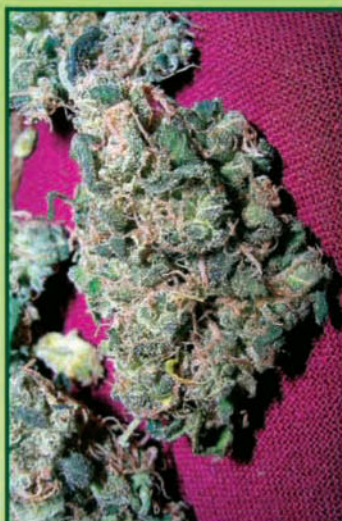
This recipe was created by High Times Cannabis Cup champion pastry chef Amber, the winner of three awards in the Best Edibles category for Greenway. Make it yourself and experience the bliss of "Pie Times"! If you're really feeling fancy, use Chiquita Banana or Strawberry Banana cannabis or hash to infuse this amazing treat.

3 cups half-and-half
8 bananas, divided
1 gram hash oil
1 vanilla bean
1 cinnamon stick
½ cup sugar
½ tsp. salt
2½ tbs. cornstarch
1 tbsp. flour
3 egg yolks, lightly beaten

3 tbsp. cannabutter
¼ cup butter
¼ cup honey
1 lemon, for juice
1 pie crust
Whipped cream to garnish

First, infuse the half-and-half with the banana essence, spices and hash oil. In a 350°F oven, roast three bananas in their skins until they turn black, about 20 minutes. Allow them to cool for 30 minutes. Peel and put into a pot with a tight-fitting lid along with the half-and-half, hash oil, cinnamon stick and vanilla bean. Cover and heat on low for 15 minutes. Turn the heat off and leave to steep for one hour. Strain the half-and-half and discard the bananas, bean, and cinnamon stick. Refrigerate for one to three hours until cool.

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To make the custard:

Whisk the sugar, salt, cornstarch and flour together in a pot without heat until blended. Whisk the cooled half-and-half into the sugar mix slowly until blended. Turn the heat on to medium and whisk constantly until thickened. (The time will vary, so stay vigilant!) Turn off the heat. Working very quickly, combine a half-cup of the hot mixture with the lightly whisked egg yolks. (Don't stop stirring here or your eggs will scramble!)

Add another half-cup of the hot mixture to the egg mix, and whisk the tempered eggs into the remaining hot mixture for three minutes. Whisk the cannabutter into the custard, one tbsp. at a time until combined and velvety. Cover with plastic wrap directly on the custard skin and allow to rest at room temperature for one hour.

Bake the piecrust and cool.

Caramelized banana slices:

Melt a quarter-cup of butter and combine with the honey and lemon juice. Slice the bananas into quarter-inch medallions and coat in the caramel mixture. Place slices of banana on a sheet pan lined with parchment paper in a single layer. Broil on high until lightly browned, then remove from the oven and let cool.



Banannabis Cream Pie from a Cannabis Cup edibles champion, Chef Amber.

To assemble the pie:

Line the entire piecrust with caramelized bananas. Fill the crust with cannabis custard. Top the pie with the remaining bananas. Chill in the refrigerator for at least three hours to set until firm.

Garnish with whipped cream and enjoy! 🌿



Herb: Mastering the Art of Cooking With Cannabis

Several of the recipes for our five-course marijuana menu came from this wonderful new book by chef Laurie Wolf and Melissa Parks. *Herb* is the first book I've seen that aims to teach readers how to calculate dosages for meals based on estimated THC content for basic infusions. It's not foolproof, but it's definitely helpful for cannabis cooks living in prohibition states.



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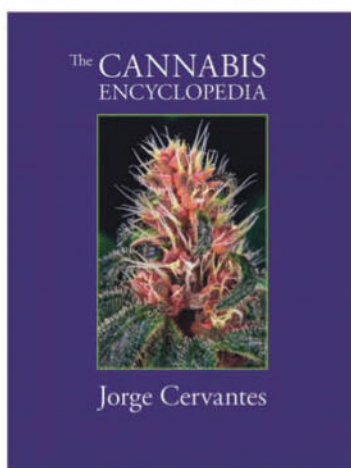
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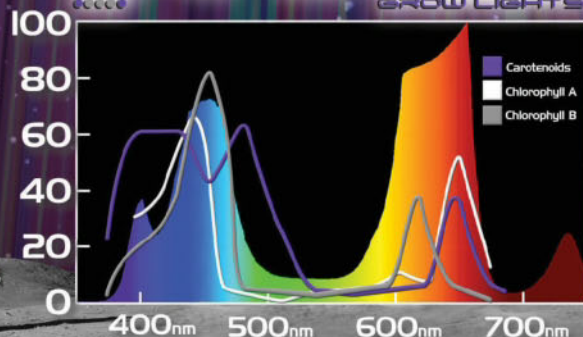
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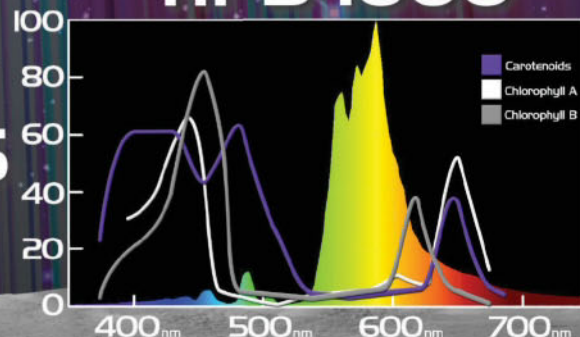
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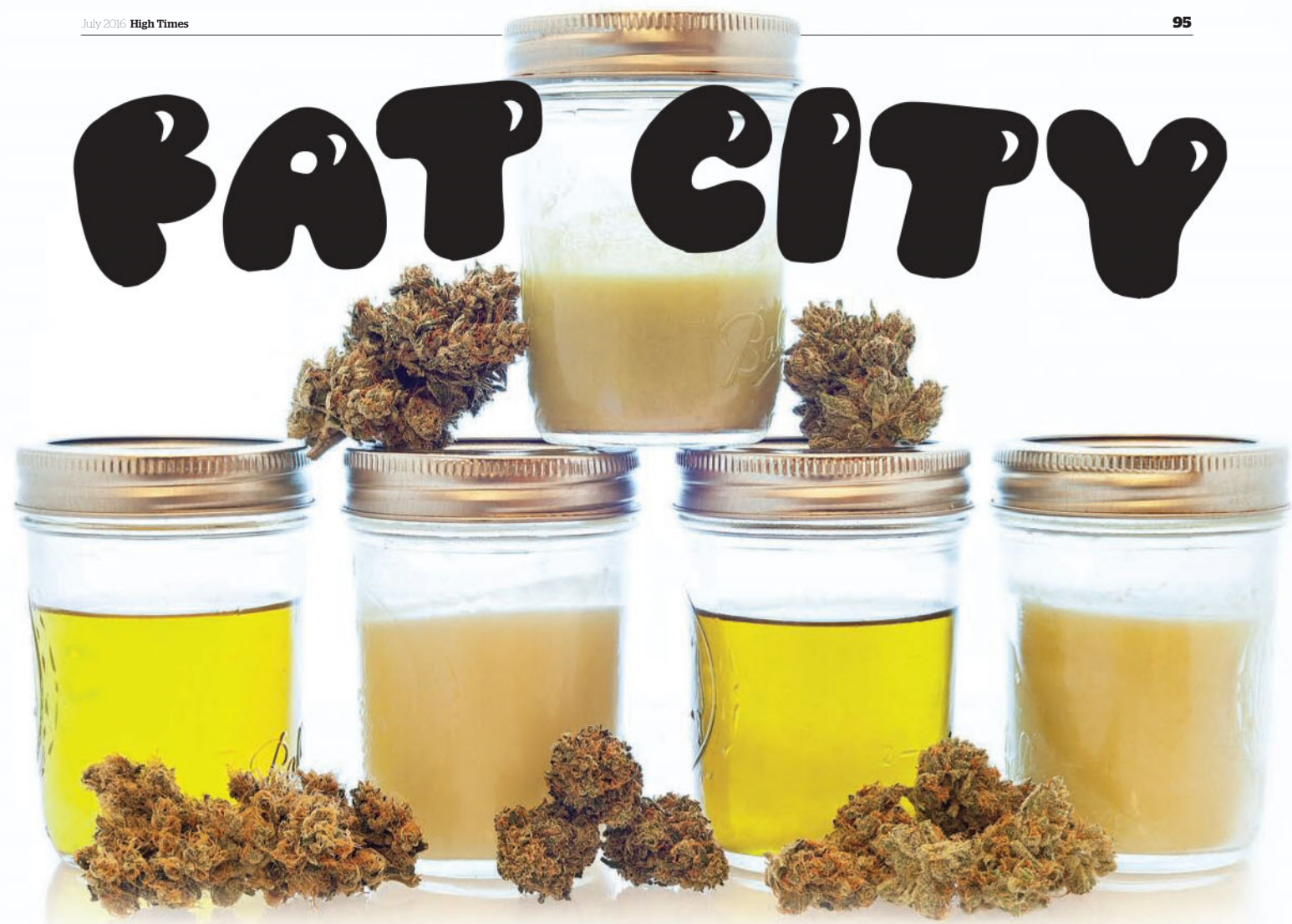
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FAT CITY



Our High Times edibles experiments continue with a test to determine which fats absorb THC most efficiently, giving you the most buzz for your bucks. *By Elise McDonough*

When extracting THC for use in cooking, both stoner lore and hard science tell us that fats make the best mediums for potent infusions. But what type of fat should you use to extract THC most efficiently?

To find out, I devised an experiment comparing the total potency of five different fats—butter, olive oil, avocado oil, coconut oil and bacon fat—after they were infused with the same amount of cannabis in the same exact way.

Because cannabinoids and fats are both hydrophobic, THC molecules dissolve readily in lipids when they're heated together in a solution. And this friendly relationship continues in your body, where everyone's favorite psychedelic molecule takes up residence in your adipose tissue and remains there for 30 days or more. This long-term bonding in your "phatty" tissue is the reason you can

still fail a drug test a full month after the last time you got high. It's also the reason runners sometimes report copping a buzz from burning their own THC-laden fat for energy during a long run, making marijuana the gift that keeps on giving.

Among home cannabis cooks, butter is clearly the most common fat used for THC infusions, but over the last few years I've encountered (both in real life and online) an increasing number of amateur edibles-makers who espouse a strong preference for coconut oil, attributing their own most potent infusions to its unique chemical makeup. Anecdotal evidence also suggests that saturated fats, such as butter, bacon fat and coconut oil, absorb THC better than monounsaturated fats like olive oil and avocado oil, but to my knowledge this experiment is the first serious attempt to scientifically test that hypothesis.

ODOR-PROOF INFUSIONS

Anyone who makes cannabis infusions at home knows that the process seriously stinks up the entire house with the unmistakably dank and earthy reek of weed, which can cause problems with your roommates, family or neighbors (who will either want to call the cops or gobble up all your THC treats!). So for this experiment, I used a clever odor-proof infusion method devised by Payton Curry of Marijuana Recipes, a dedicated chef and activist who teaches families with disabled children how to design cannabis-therapy treatment programs.

Curry's method relies on using a Nomiku immersion circulator to heat the cannabis sufficiently to infuse into a fat, which not only eliminates the odors but also allows for perfectly even temperature control, as well as the ability to infuse several different types of oil

or fat simultaneously. Designed for use in “sous vide” cooking, the immersion circulator heats up water to your desired temperature and then maintains it at that temp. It’s fantastic for making cannabis infusions because the telltale odors are contained within a Mason jar, which means you can simmer your infusions all day long and your neighbors will be none the wiser. Payton likes to call it “sous weed” cooking!

For the experiment, I started with identical amounts of cannabis trim that had been decarboxylated at 240°F for an hour and infused that herb into identical volumes of each type of fat. Each of the five infusions was then sealed in its own Mason jar and submerged in the water simultaneously, with the Nomiku immersion circulator heating at its maximum temperature of 180°F. All five jars stayed immersed for four hours, after which I strained the cannabis matter away and had each infusion lab-tested to determine its overall potency and unique cannabinoid profile.

THE POT PANTRY

If you love experimenting with cannabis cuisine, or even just making simple THC treats, it’s always good to keep several different infusions in your pot pantry. THC-infused oils can be used for salad dressings, sauces or simply drizzled over a savory dish. Butter and coconut oil are more likely to find their way into sweet desserts or baked goods, while the bacon fat just seemed too decadent not to try!

Butter is the most common infusion medium because it’s used for baked goods and savory applications. Cannabis chefs favor European butter with its high butterfat content for more potent infusions that yield increased quantities compared to regular butter. For the experiment, I clarified the butter to remove the milk solids and water, enabling it to absorb THC more efficiently.

Chef Payton personally favors avocado oil because it’s anti-inflammatory, high in Vitamin E and easy to digest. Patients have also reported increased “bioavailability,” meaning that the dose feels more potent because the body is able to absorb and utilize it more readily.

Coconut oil, meanwhile, has become incredibly popular as a medium for infusions due to its health benefits and suitability for vegans. High in saturated fat and very nutrient-dense, coconut oil helps the body assimilate fat-soluble vitamins. And a simple infusion of THC into coconut oil can not only be ingested

as food; you can also use it as a topical application to soothe sore muscles.

Also, while animal fats are composed of long-chain fatty acids, coconut oil contains a high amount of MCTs, or medium-chain fatty acids, also called triglycerides. These MCTs are harder for our bodies to store as fat and easier for us to burn off compared to long-chain fatty acids. So if you’re seeking to lose weight, converting to coconut oil for cooking could help boost your metabolism and shrink your waistline!

Extra-virgin olive oil is rich in mono-unsaturated fatty acids, which helps explain why people who eat a traditional Mediterranean diet have a low risk of heart attack or stroke. Olive oil is also rich in antioxidants, which are effective in reducing inflammation. And infusing cannabis into olive oil makes it an even healthier option, as well as an easy way to add a precisely measured THC dose to almost any meal.

And then there’s bacon fat, which isn’t exactly known for its health benefits but does lend a delicious smoky flavor to many dishes, from greens to baked

goods. When you fry up bacon, collect the drippings in a jar and save them for use in a cannabis infusion. The resulting fat is great for brushing on roasted potatoes, sautéing kale or cabbage, or making bacon-maple chocolate-chip cookies!

THE PROCESS

To begin the experiment, I started by melting the solid fats (bacon grease, butter, coconut oil) into a liquid by microwaving them for one minute, and then transferred all five fats into identical 8-ounce Mason jars. To each 182-gram fat sample (about 1 cup), I added 3.5 grams of Jager cannabis trim, then screwed the tops of the jars tight and submerged them all at once into the Nomiku’s pre-heated tank. (If you don’t have an immersion circulator, you can also simmer your jars over low heat in a pot of water on the stovetop.) Remember, when using the immersion circulator, your jars need to be as full as possible so they sink to the bottom of the tank in order to keep the temperature consistent, which won’t happen if the jars have so much air in them that they float!

Table #1: Infused Fat Cannabinoid Profiles, Batch A. Test Results from SC Labs

Type of Fat	Delta-9THC mg/g	THCa mg/g	Total Active mg/g
1. Olive Oil	2.42	0.69	3.14
2. Clarified Butter	2.26	0.94	3.27
3. Coconut Oil	2.16	0.83	3.16
4. Avocado Oil	1.74	0.62	2.43
5. Bacon Fat	1.71	0.62	2.36

Table #2: Infused Fat Cannabinoid Profiles after 4 Hour Simmering Time, Batch B. Test Results from C4 Analytical

Type of Fat	Delta-9THC mg/g	THCa mg/g	Total Active mg/g
1. Clarified Butter	2.58	1.1	3.68
2. Coconut Oil	2.47	0.76	3.39
3. Bacon Fat	2.31	0.68	2.99
4. Avocado Oil	2.28	0.74	3.17
5. Olive Oil	2.15	0.67	3.02

Table #3: Infused Fat Cannabinoid Profiles after 8 Hour Simmering Time, Batch C. Test Results from C4 Analytical

Type of Fat	Delta-9THC mg/g	THCa mg/g	Total Active mg/g
1. Clarified Butter	2.61	0.78	3.39
2. Coconut Oil	2.5	0.6	3.36
3. Avocado Oil	2.38	0.76	3.3
4. Bacon Fat	2.37	0.73	3.31
5. Olive Oil	2.29	0.7	2.99

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After letting the THC infusions simmer in the circulator for four hours, I removed them to cool for 15 minutes before unscrewing the tops. Then I strained each infusion through cheese-cloth set into a mesh strainer, squeezing it firmly to get every last drop of the THC-infused fat out. Oils will go rancid more rapidly than usual when infused with plant material, so be sure to store your cannabis-infused fats in the fridge and use them within two months.

THE RESULTS

Our starting material was a low-potency cannabis trim, the kind favored by savvy edibles-makers because it's economical and might otherwise be discarded. Testing by SC Labs revealed that the trim had a THC content of 101 milligrams per gram (about 10.1%), with additional acidic THCa measuring 50.2 mg. per gram, bringing the total level of potential delta-9-THC to 145 mg. per gram, or 14.5%.

After infusing 3.5 grams of this cannabis (with 507.5 mg. of total potential THC) into each fat and testing the results thoroughly, we received sets of results from two different labs. Our first set of infused fats went to SC Labs, where results pointed to the olive oil as the most efficient absorption medium for THC. Chef Payton repeated the experiment and

had the results tested by C4 Laboratories, who showed the clarified butter performing the best, followed by coconut oil.

Also important to note, lab testing revealed that many of the “finished” infusions still contained significant levels of THCa (a non-psychoactive precursor of THC) after a four hour simmering time, so we increased the simmering time in the immersion circulator to eight hours to see if we could yield more THC.

We wondered if saturated fats needed a longer period of time to absorb the most THC possible, but lab results showed that continuing to simmer has diminishing returns. Adding another four hours to our infusion time yielded only 0.03 more mg. of THC in a gram of clarified butter, so it seems that most cannabinoids are absorbed in the first four hours. Levels of THCa were still present after the eight hour simmer, so it seems that there is a limit to how much THC can be absorbed.

CONCLUSIONS

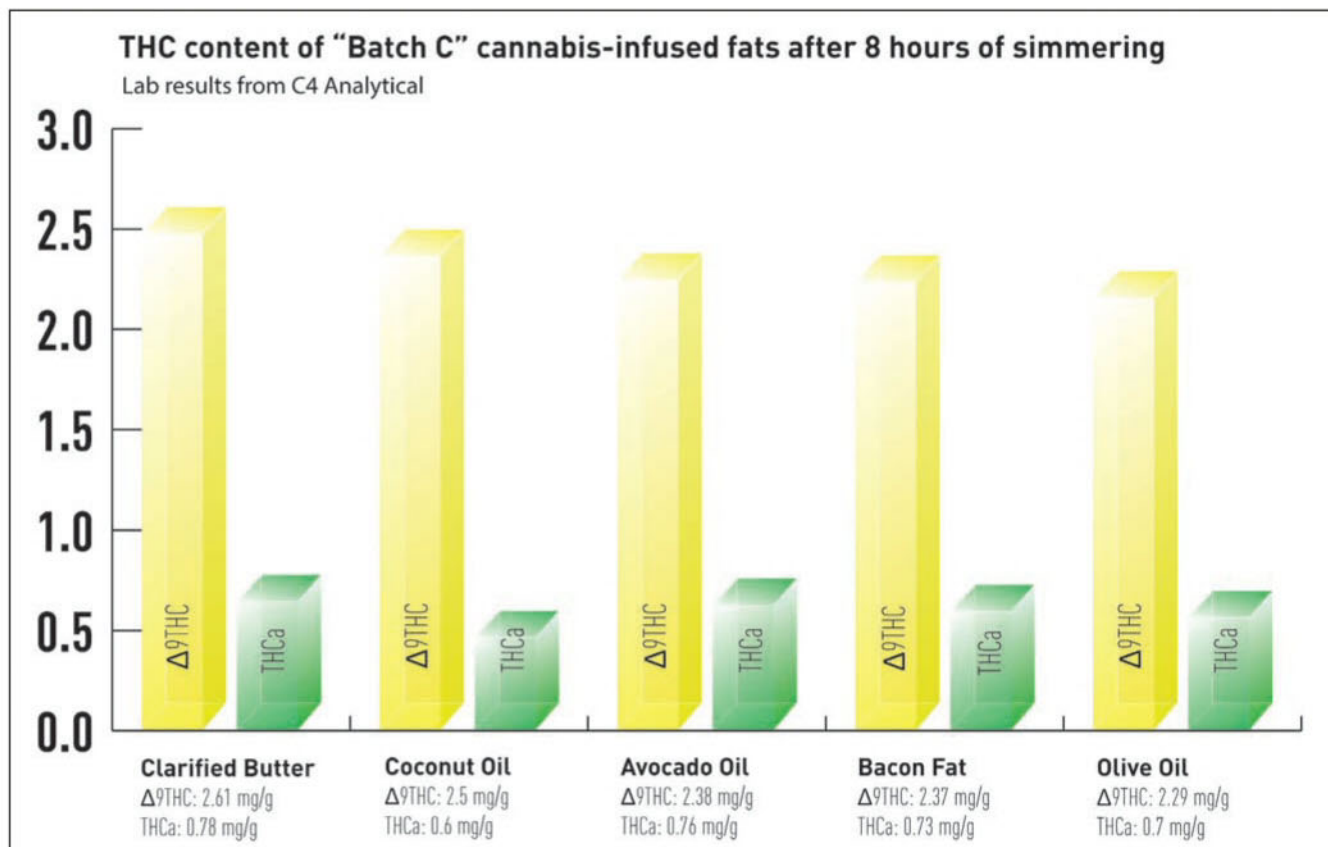
At first, the differences in THC absorption between the different fats might not seem too significant, but when multiplied by an entire cup you can yield much more THC by using clarified butter than another type of oil. According to C4 Labs, one gram of

butter in Batch B absorbed 2.58 mg. of THC, compared to 2.15 mg. in the olive oil. That's only a difference of 0.43 mg. but when multiplied by 182 grams (or 1 cup of fat), you see that the ultimate THC yield varies considerably across the different fats. One cup of the infused butter would contain 469.56 mg. of THC—almost 78.26 mg. more than the olive oil in Batch B.

Clarified butter finished second-best in both tests at SC Labs, while coconut oil and bacon fat traded places for third. Avocado oil took fourth place, surprisingly, because like olive oil, it's a mono-unsaturated fat. I can't explain why olive oil would get such glowing results from SC Labs, but that data wasn't consistent when tested by C4.

It's hard to get consistent results from different labs due to a lack of uniform standards and regulation, but there's also a lot of variables when using cannabis flowers to create infusions. We plan on repeating this experiment using a concentrated hash oil to see how the absorption rate of THC varies based on using raw plant material versus extracts.

We'll need to do more study, but in the meantime, all of you cannabis cooks at home can rest assured that using clarified butter or coconut oil for your cannabis infusions will result in a potent and cost-effective infusion. 🌿



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INTO A CROWD, THEN TAKES DABS IN AN ATLANTA PARKING LOT BEFORE DEVOURING A PLATE OF RIBS, ALWAYS GETTING AS HIGH AS POSSIBLE AS MANY TIMES AS POSSIBLE. HE'S NOT MARTHA STEWART, THAT'S FOR DAMN SURE!

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Thanks so much for taking the time to talk with me today. I've got my recorder rollin', so we can get right into it.

I'm literally sitting in front of Vice headquarters in Brooklyn smoking a fat joint in my car.

Well, that's appropriate for a *High Times* interview. I'm a little blazed as well.

Good, I'm glad.

You've had this meteoric rise in the last couple of years, and I'm wondering how that's affected your everyday life? Are you getting recognized on the street all the time?

I mean, yeah, that's been happening for a bunch of years now. It's kind of surreal.

Is it getting to the point where it's hard to walk around on your own?

It'll never be hard to walk around, because I gotta be myself—I'm not gonna let anything prevent me from living a normal life. But yeah, you know, you do stop for fucking hundreds of pictures. But that's great—that means you're doing good.

It's no secret that you love smoking weed. When did you first start using the herb?

I first started at about 13. I found joints in my mother's room—I didn't know what they were, so I started smoking them, I hit that herb, and I was feeling incredible, like: "What the fuck?!" My balls started tingling—it was the next level!

Do you have any favorite strains these days?

I love hardcore OG. I love all the Cookies, the new Cookies products, the Mochi, the Girl Scouts—they have the original flavors—the Lemonade... I'm a big fan of all that. I love Zkittlez. I'm into oil, actually—I love smoking the oil!



Cameras follow Action and his entourage as they tour the world on a weed-fueled gluttonous rampage, rapping, smoking, swearing, eating and drinking in spots that range from high-end eateries in NYC with multiple Michelin stars to ramshackle BBQ joints off a southern country highway.

Yeah, you've said on your show that you prefer dabs to weed at this point. Why is that?

When I'm at home, it's just better; it's more conducive for my lifestyle. I have a really nice apartment now, so I really can't smoke in it because I signed the fucking lease in a building where they don't allow you to fucking smoke, like an idiot, and you know, I just hit the dab and that's it. I hit the rig all day long... I need to drive around to go smoking, and when I go outside, I have a couple of joints rolled up. It's more social. The rig is more for the head. It's for when I wanna get heady.

Do you have any preferences or favorite types of hash? Do you prefer wax or shatter?

I love all flavors, whatever has the most terps, I'm all in: either budder or 100% clean shatter, crumble, whatever you want—hit it out of a nice Mothership rig or a nice Erik Anders recycler and it's perfect.

Do you follow the glass scene?

Oh, I'm a big follower of the glass scene. I'm a big promoter of the glass scene. It's incredible art.

Do you have a nice collection of rigs?

Yeah, I do—I have like four Motherships, I've got some nice custom stuff, like an Elbo piece he made for me. It's a bunch of beautiful stuff. Erik Anders just sent me a beautiful new piece, "The Slyme Recycler." Honestly, it's cool to have a cool rig. It's like having a cool fucking car.

Yeah, they're very much a status symbol these days, and glass-blowers are like rock stars.

Glass-blowers are the new rock stars. Scott Deppe, Jake C—you know these are my guys.

Right on. With eating such a big part of your job, do you consider cannabis to be a performance-enhancing drug when you have to go to maybe

three or four lunches in a day?

Yeah, you could call me Barry Bonds—that's how much juice I'm on, if you consider weed to be steroids for food. I guess the weed does help me with appetite, it helps me digest, but it also helps me not slip out all day long. You know, it's just like my medicine, like my tranquilizers, so to say—what's that stuff they give 'em, the fucking ADHD kids, what is that shit?

Ritalin.

Yeah, that—it's my Ritalin. It calms me down. It brings me to a higher ground.

Do you feel that your marijuana use could be considered medical?

My marijuana use is 100 percent medical.

For stress relief, for anxiety?

Stress relief, anxiety... it's also a great companion—it's almost like a girl.

Well, it is one of man's favorite



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plants, for sure.

You know what I’m saying. All I need is my girl—my Mary.

When you’re on tour, are there certain restaurants in New York that you miss the most when you’re away from home?

I’ve gotten in the habit of ordering from a certain Thai restaurant every night, the same dish, it’s like the best... For three months I’ve been ordering this food, so I’m gonna miss that when I leave. I’m going to miss a good slice of pizza, gonna miss a good bagel for sure. But I’m gonna look forward to exploring the cuisines of Europe.

Is it tough to score weed in different countries around the world?

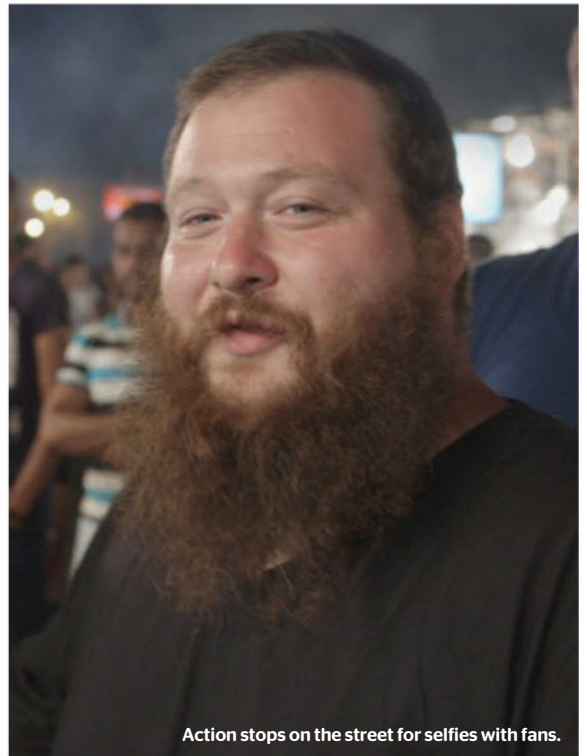
When there’s a will, there’s a way. That’s what my mother always used to tell me when she needed weed.

Do you ever eat weed food, or do you cook with weed a lot?

Yeah, I love edibles. I’m a big proponent of edibles, for sure. But healthy edibles, not sugary edibles—no good...

I feel the same way, yeah.

I feel like if you could take it in a healthier way and make it actually taste good and be good for you, there’s nothing like it. But eating a fudge bar filled with sugar that makes you fucking crash, it makes you spin... it makes me spin. When a lot of people take edibles, I think it’s the reaction of the sugar with the THC that really fucks ‘em, because that shit sends you down a winding path that’s not good. It’s kind of like being high and drunk—it’s too much, you know.



Action stops on the street for selfies with fans.

If you wake up in the morning and you don’t eat anything and the first thing that you ingest is infused with THC you’re in for a fucking hell of a trip. You’re in for a special day.

Yeah, I know!

Now when you eat it clean or you just take a nice pill straight up, it’s very mellow and it’s very clean. I think the sugar is what fucks it up.

What’s the highest you’ve ever been on weed food?

Oh, I’ve been fucking ridiculous on weed food. Like, if you wake up in the morning and you don’t eat anything and the first thing that you ingest is infused with THC, you’re in for a fucking hell of a trip; you’re in for a special day. So I’ve been pretty zonked, demolished, to the point where, you know, you sleep for a very long time and you wake up and you’ve got that “pot-over” where you’re just still high... but in a good way.

I call it “super-sleep.”

Because with THC, there’s never too much, in my opinion. You just go to sleep, you know—nothing else is going to happen. You’re just going to go to sleep, or you’re going to eat a cupcake, or you’re going to laugh uncontrollably at someone’s face—you know, like, something stupid.

What I like about Fuck That’s Delicious is that you go to a lot of really local hole-in-the-wall little joints, but you also go to some of the finest restaurants in the world. I gotta say, watching you eat the pressed duck at Daniel, that was pretty surreal, that must have been a crazy meal. And so I’m wondering—

Yeah, that was surreal.



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Is fine dining necessarily better, or can you find something just as satisfying in a little hole-in-the-wall joint?

Well, I think you know the answer to that. Obviously, you can find pleasure in the littlest things in life; it doesn't need to be a whole big production. But those things are very special. Like the pressed duck at Daniel—it's not every day he [chef and restaurateur Daniel Boulud] brings that out, so it's a very special experience. I'll hold that near and dear to my heart forever. But I've also felt that joy eating at three in the morning in Copenhagen—you know what I mean. So it's a very wide spectrum.

Do you have an all-time favorite meal out of all the things that you've eaten on the show?

One of my most memorable things is definitely the pressed duck, but I remember chef Lee Kim made this smoked lamb-shoulder gyro with this eggplant, pepper, tomato and onion stew that reminded me of Morocco—and I'd never been there before I tasted it... And then I went there and I was like, "Shit, now this reminds me of Lee Kim," which was fucking bugged. So somehow he captured my heart and took me to a land I've never been, and then when I actually went there, it brought me back to him.

Do you have any go-to munchies when you're stoned, or are there certain things that you just start craving more than others?

Yeah, my go-to munchies are literally whatever's around. If there's peanuts around, I'll eat those; if there's M&Ms, I'll eat those; if there's marshmallows, if there's some sort of sushi... What I crave is Raisinettes, for some reason—I really like them. I always crave the flavor of a chicken wing with Buffalo sauce, like a hot wing, mixed with some sort of vanilla milkshake, like the hot sauce and milkshake mixed... I don't know, somehow I like

it. I also like Wendy's crispy, spicy chicken sandwich with a chocolate Frostie—that's a very big munchie food for me. The chicken sandwich has to be plain; it can't be ruined by tomato or a little piece of garbage iceberg lettuce or the mayo. It has to be plain—and you have to eat it simultaneously.

Eat it simultaneously with the milkshake?

With the Frostie. Chocolate, medium—it has to be a medium one.

I thought it was hilarious when you guys did the parody on FTD making fun of Guy Fieri. How did that joke get started?

That was so fucking fun. I mean, Guy Fieri's a legend at the end of the day, but he's obviously a crazy guy to look at, he has frosted tips, so you have to make fun of him.

Of all the places that you've been in the world, is there anywhere you'd rather live than New York?

There's no place I'd rather be than New York. Paris is cool; I could live in Paris—but not that long, though.

Is there anywhere that you haven't been that you really wanna go?

Yeah, definitely everywhere in Asia, pretty much. I gotta go to South America and Asia next... "Chino Latino" is what they call it in the hood—the Chinese-run restaurant that serves some sort of Spanish food.

When you cook for yourself, what do you like to make?

My favorite thing to make is pasta—I make it especially for myself.

Cool, cool... I'm going to follow up because we'd love to get the recipe for your famous bucatini pasta with the Sour Diesel—I'd love to make that at home.

Oh, you know I got you! ✨

See page 90 for the recipe!

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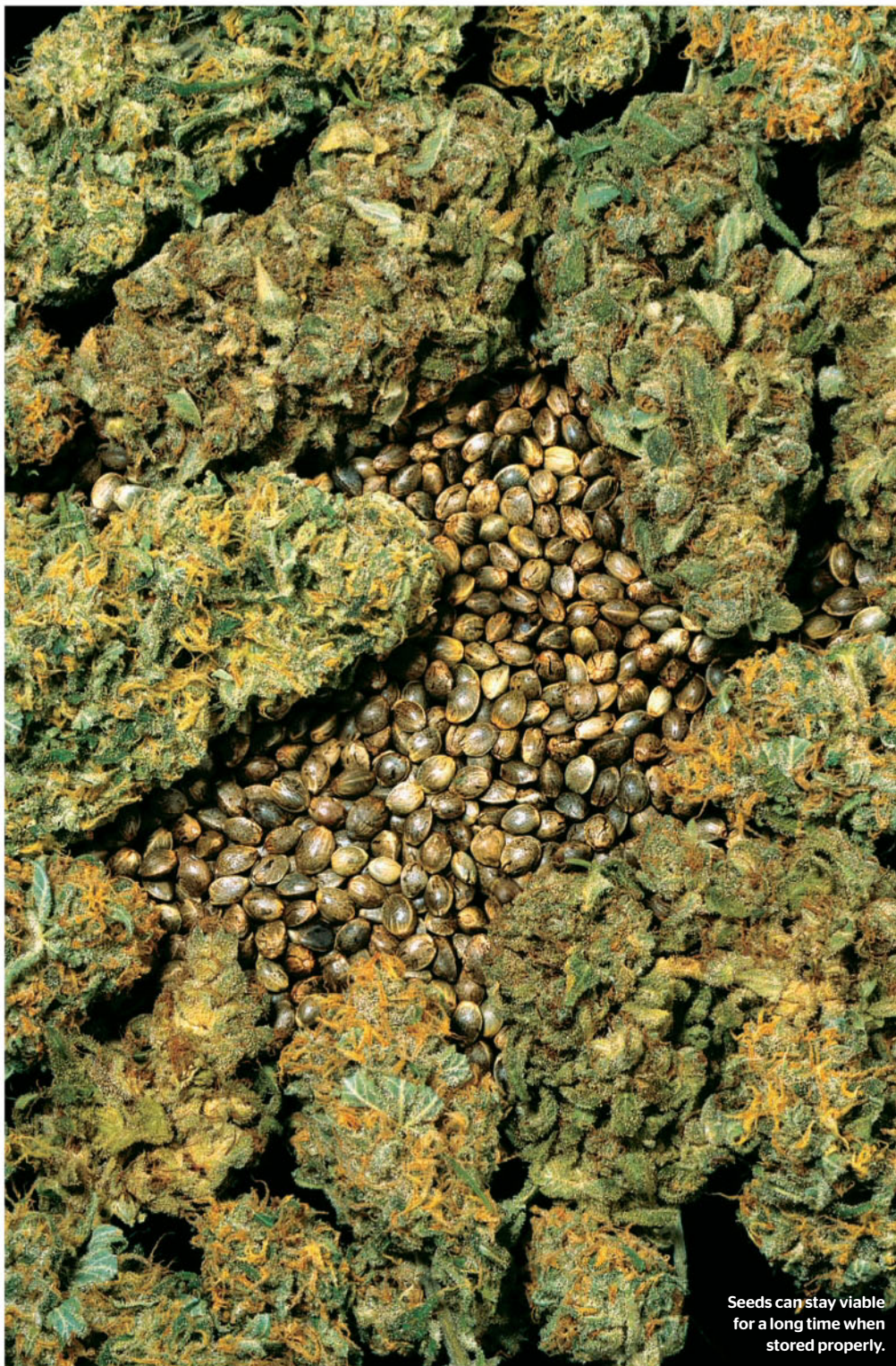
SUBJECT: **Old Seeds**

FROM: **Rich N.**

🌱 I have a film case of seeds from 1980-1984. They're NorCal sinsemilla first-generation hybrids. I retired from smoking in '84 but held onto these seeds for over 30 years. I thought, "Hey, maybe one day pot will be legal, and then someone could grow out this heritage weed." Do you think there's any value in these old seeds?

Dear Rich,
It's quite possible that your seeds have value. It's also possible that they're so old they won't germinate. Many of the storied strains of the past have been lost or hybridized into pale imitations of what they once were. At the same time, many new strains have been bred that are stronger and tastier than many of those past varieties.

The only way to find out if your seeds have value is to pop them and see what grows. Usually I recommend planting seeds directly into the medium and container you plan to grow them in, but with seeds as old as yours, the paper-towel method will work better. Place the seeds between two sheets of moist paper towel and check on them often. As soon as they pop open and you see the main root poking out, gently place them into your medium root-end down.



Seeds can stay viable for a long time when stored properly.

Danko Tip: Staking up your plants' branches will help them yield far more than those that droop down low.



The "Sea of Green" growing method crowds many plants together.

SUBJECT: **Getting Started**

FROM: **YoungArmyVet**

🌱 Hey, I'm a young war vet (OEF10-11) and don't even know the basics of growing—I would just like to have a personal plant. I suffer from PTSD, and it's so bad I really don't even like being around people unless I'm high. My question is: Where do I start?

Dear YAV,

First of all, thank you for your service. As for where to begin, get yourself a good grow book such as Jorge Cervantes's *The Cannabis Encyclopedia* or K from Tri-chome Technologies' *Marijuana Horticulture Fundamentals*. Then read it from cover to cover to gain an understanding of how marijuana plants grow and what kind of equipment you'll need.

My recommendation is to get yourself a 4' x 4' grow tent, a decent high-intensity discharge (HID) light such as a 400- or 600-watt high-pressure sodium (HPS) or metal halide (MH) grow lamp, plus a timer for it. You'll also need an exhaust fan and an activated-carbon filter to reduce heat and odors. A simple soil mix in 3- to 5-gallon buckets is great for beginners and much more forgiving than any hydroponic system.

If you're in a state with a medical marijuana program, sign yourself up for it immediately and follow the law as to how many plants you can grow. If you don't have access to clones from a dispensary or friend, you'll need to get some seeds mailed to you from overseas. But don't have them mailed to the same place you're planning to grow if you won't be growing legally. Good luck!

SUBJECT: **"Sea of Green"**

FROM: **Rick P.**

🌱 I'm looking to maximize the small space I have available for growing, and after a lot of reading I've come to the conclusion that the "sea of green" (SOG) method might make the most sense for me. My grow space is a closet that measures 56" wide by 26" deep, and I'll be using soil as my medium.

My questions are: 1) What size containers should I use, and 2) how many plants should I attempt to squeeze into this space?

Dear Rick,

"Sea of green" is a style of growing that crams many plants together in smaller containers and gives them a short vegetative time in order to fill up the space quickly. The advantages are that your plants have shorter lives, so there's less time to make mistakes or for problems to develop, and you harvest more quickly because of that short veg time. The disadvantages of SOG are that your plant counts are higher, which can be a problem in states where cultivation is still illegal, and by growing more plants, you'll need to purchase more seeds or take more clones.

I wouldn't go any smaller than 1-gallon pots with a week or two of vegetative time before you switch the lights to a 12-hour-on/12-hour-off cycle to induce flowering. If you go smaller, you may end up with root-bound plants, while bigger pots would just be a waste of space. Your grow area comes out to about 4½ by 2 feet, which will fit about 18 1-gallon pots at 6" x 6" each.

SUBJECT: **When to Flower**

FROM: **Zach R.**

🌱 I was wondering when do you know it's time to switch to the 12/12-hour light cycle?

Dear Zach,

The decision of when to induce flowering is entirely up to you. It's important to determine how much space you have and to factor in that your plants will stretch for at least a few more weeks after flowering is induced. I usually recommend one week of vegetative time per each gallon of the container you're using, so

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that a plant in a 5-gallon bucket should get approximately five weeks of veg time before the switch, while a plant in a 2-gallon container should get about two weeks.

Keep in mind that the longer you vegetate your plants, the larger they'll be, but the more time you also have for things to go wrong. Overwatering, overfeeding and pest issues have more of a chance to turn into bigger problems; also, your plants can easily become root-bound and end up not yielding as much.

SUBJECT: **Feeding Auto-Flowers**

FROM: **Corey E.**

🌱 Should I add nutrients to my auto-flowering plants, and if so, when? I've heard conflicting opinions.

Dear Corey,

Unless you've customized a "hot" soil mix that has the nutrients built right in, you will need to feed your auto-flowering plants. My suggestion is not to feed them for the first four weeks or so, and then start a vegetative-feeding regimen higher in nitrogen. Continue feeding the vegetative nutrients until the plant has stopped growing upward.

After that, switch to a flowering-nutrient regimen higher in phosphorus for the next few weeks, until you plan to start flushing the plants. Remember that auto-flowering plants are smaller, with diminished root systems and thus a diminished ability to uptake nutes, so avoid overfeeding at all costs. Start with a quarter of the manufacturer's recommended strength on the nutrient bottle and work up to half-strength if you see signs of yellowing.

SUBJECT: **The Cure**

FROM: **Dizman**

🌱 My name is Diz, and I've been growing for 15-plus years. I have several fine strains and a couple that nobody in the world has, because I've been crossing these strains for the past five to seven years. My anchor is some old-school Blueberry from Amsterdam that I acquired years ago.

My shit comes out mint—absolutely top-notch-looking and with great potency. My problem is that when I dry and cure, I just can't

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Danko Tip: Keep all wiring off the floor to avoid the issues that arise when water and electricity meet.



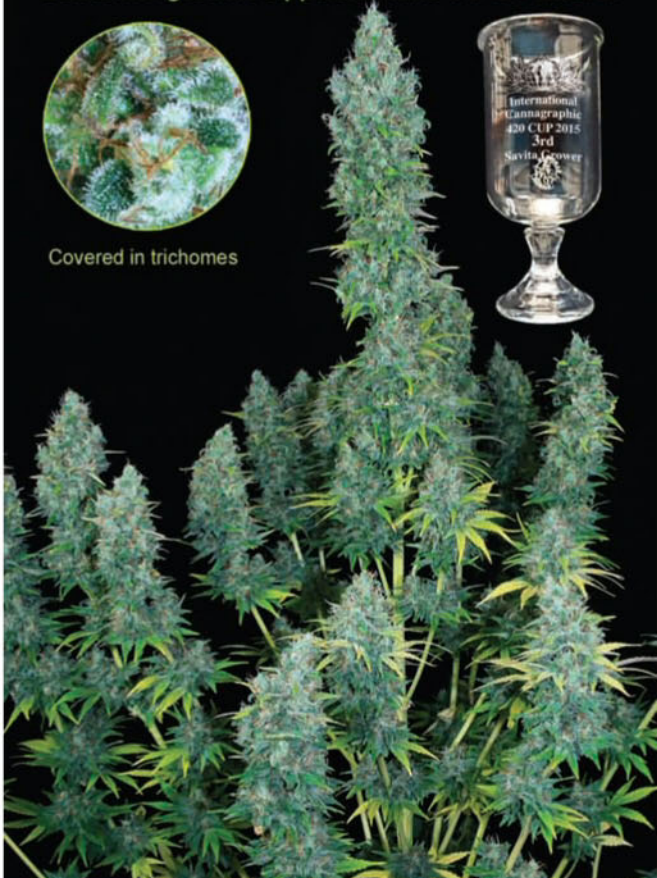
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Hang dry branches until they snap before beginning the curing process.

get it right. I hang them, wait till the buds feel dry but the stem still bends, and then put them in jars, burping them daily for five to 10 minutes of open air. The problem is that, no matter what the strain, it comes out smelling like carrots and with a bland taste and smell. How can I fix this? Do I need to let them hang just a little longer drying before I cure? I feel I may be putting them into the jar still a little too moist, but I'm not sure. I appreciate any help you can give me—I want mint meds all around.

Dear Diz,

It sounds to me like you've already diagnosed the problem. What you suspect seems to be true: You're jumping the gun and putting your buds into their curing stage before they've been properly dried. That's why you're ending up with buds that smell and taste bland and vegetal: They still have too much chlorophyll, and that greatly affects the scent, taste and burnability of your cannabis.

Next time, dry the branches by hanging them up in a well-ventilated room and wait until they actually snap instead of bending before you put them into glass jars. There's still plenty of moisture within your buds even if they feel dry on the outside. The curing process will draw that trapped-in moisture from the middle of your buds. Soon after you've jarred them up, check back and you'll find that they feel moist again. That's the liquid being drawn slowly out, and when you burp the jars periodically, you're letting that collected moisture out and using fresh air to pull more of it from your buds. 🌿



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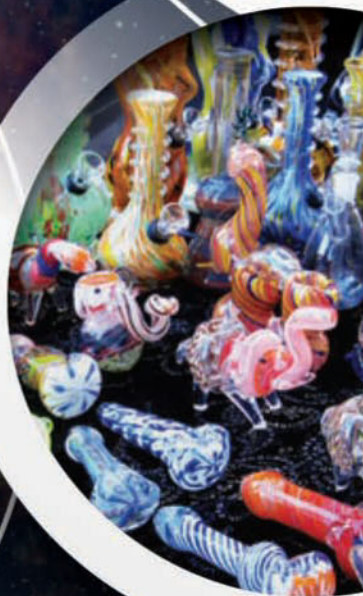
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Edibles



This Bloody Mary Jane is a spicy way to medicate your morning!

Bloody Mary Jane

Start your day with a THC-infused cannabis cocktail.

— *By Elise McDonough* —

Noted mixologist and marijuana enthusiast Warren Bobrow combines his two passions into one fantastic book that's sure to be a fixture on the shelves of hedonistic cannaphiles everywhere. *Cannabis Cocktails, Mocktails & Tonics* contains 75 recipes for all types of fantastic drinks subtly infused with THC. Beyond classy options for inebriation, Bobrow shares considerable knowledge on the origins of healing tonics and how alcohol was a vital ingredient in the apothecarist's pantry.

Chapters include basic instruction on infusing alcohol, preparing tonics, shrubs, and tinctures, and then using these base

ingredients to infuse afternoon liveners, after dinner drinks, warming beverages to chase away the chill and cooling beverages to soothe the brow.

If you've ever wanted to learn how to infuse cannabis into absinthe, make marijuana simple syrup, or add THC to a cocktail cherry, look no further than this indispensable volume. This version of a "Bloody Mary Jane" incorporates tincture instead of vodka, and if you want to get really inventive, add a dash of medicated hot sauce to spice up your THC dose. Sip slowly and savor this wonderful way to start your day.

A Bloody Good Remedy

Have you ever had a Bloody Caesar? It's the Canadian take on the classic American brunchtime eye-opener, the Bloody Mary, and it contains one unusual ingredient: clam broth. (If you've ever had Manhattan clam chowder, you get the idea.) And it's startlingly delicious. The best part of A Bloody Good Remedy, though, is that it's alcohol-free, so you won't have to deal with a banging head on Monday morning. It's lightly medicated, too: you simply prepare your tomato-clam mixer, toss it over ice, and then add a few drops of your favorite cannabis tincture. Try one infused with Blue OG. Its blue-fruit notes and crushed-woodchip scent are a lovely, if unexpected, partnership with the saline flavors of the clam broth and the spicy tomato base. Oh, and go nuts when it comes to garnishes; the weirder and wackier, the better.

Ingredients:

6 ounces (180 ml.) store-bought tomato-clam mixer, chilled (or, your favorite Bloody Mary mix combined with 1 ounce clam broth)

No more than 2 tsp. (10 ml.) of your favorite cannabis tincture

Assorted garnishes, such as olives, cherry tomatoes, celery sticks, lemon wedges, fresh chiles, an entire smoked herring, or even fried chicken pieces

Fill a glass with ice. Add the mixer, followed by the tincture, and stir gently to combine. Strain mixture into glasses. Garnish as much and as creatively as you like!

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From "cocktail whisperer" Warren Bobrow comes this collection of THC-infused drinks, including fabulous concoctions like the Mez-zrole Cocktail, Thai-Spiced Ginger Beer, Garden Punch, Hot Pot Buttered Rum, Mango Lassis, Vichy water, bourbon-based beverages and much, much more!

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Lost in the Sauce

Cannabis condiments make it easy to add a dash of dank to any meal!

By Elise McDonough

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They Put Pot in What Now?!

Vegan Cannabis Caviar

Bizarre and innovative, this THC-infused seaweed gel caught our attention.

Straight out of a science fiction future, you have a cannabis-infused vegan caviar. *What is it made out of?* Water, organic black truffle infused olive oil, gold cannabis oil, organic activated charcoal, organic algae, calcium and organic sea salt. *Does it taste like caviar?* Not really. It tastes like seaweed in cannabis truffle oil, and it's not as salty as expected. It does arrive elegantly packaged, with 250 mg. of THC, and according to the lab, it contains exactly as much as promised. Pair this with cheese and crackers, or use it to top a grilled salmon or pasta dish. According to Trophi, creator of this cannabis caviar, it "isn't just something that you medicate with, this edible makes a visually and texturally artistic statement, leaving you joyful with creative ways to feel well." Instagram: @trophi420

Flavor of the Month

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Has crime really increased in medical marijuana states?

Hugh Dirtyrat

Hi Hugh,
 Nope. Although opponents of medical cannabis thought dispensaries would bring trouble, recent research suggests that there's either no impact or even a slight drop in violent crime when medical cannabis is available. Researchers speculate that preference for pot to drinking might lead to less crime.

No need to blow smoke about personal use.



of use. If that sounds like a major effect to you, then definitely stay away from the plant.

Does marijuana protect against brain hemorrhage?

Paul Bearer

Hi Paul,
 The experimental results have been weird. One study showed a slight increase in the chance of getting one specific type of hemorrhage for cannabis users. Then another study found that folks who do have brain hemorrhage and test positive for THC tend to have better outcomes than the folks who don't. I wouldn't make too much of either of these findings until we get a replication or three.

Prohibitionists insist that the number of people who use marijuana has doubled since legalization started. What should I say?

Anita RePLY

Hi Anita,
 One scientific paper reported that cannabis use doubled from 2001 to 2013, based on face-to-face interviews. However, legalization makes people more willing to discuss their cannabis use with an interviewer. Back in 2001, prohibition led many people to lie about their cannabis use; in 2013, that need to fib decreased. So we can't be sure if cannabis-use rates have changed, or just the perceived bias against saying that you toked. Other surveys have shown only about a 20 percent increase. 🌿

Marijuana use has been shown to hurt verbal memory in a huge study, so stop recommending it as a medicine.

Mr. Mackey

Hi MM,
 The study you mention is a huge one, with plenty of participants and variables. After quite a few analyses, users remembered a half-word less (on average) than non-users out of a list of 15 words for each five years

Dr. Mitch Earleywine is a professor of psychology at SUNY Albany and the author of Understanding Marijuana and The Parents' Guide to Marijuana.

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Never Been Dabbed

We all have our own "first dab" story. It's usually a very memorable event that you will struggle to remember for the rest of your life. *By Craig Coffey*

Dabbing should be fun, and with a little caution and awareness, you'll probably have a great time. On the other hand, you may end up giving your friends an epic story that they'll embarrass you with for years to come. Let's review some common concerns facing the first-time dabbler.

Do you smoke weed every day?

For real, if you didn't answer "Hell, yeah!" to this question, then there's a really good chance that your first dab is going to end in the DTFO zone (see below). Consider that the average dab has about as much THC as an

entire joint. If you aren't smoking several joints a day, then even a small dab is probably going to get you a little sideways. We recommend that you build up a long-term daily pot habit before taking the waxy plunge.

DTFO

This is a sorry state of affairs when it happens in a public place. Sometimes it can even happen to the seasoned dabbler. One minute, everything is fine; the next thing you know, you're waking up from a long, deep dab nap on the floor. Getting Dabbed the Fuck Out (DTFO) is kind of like being abducted by aliens: You lose some time, wake up in a strange place, and have a hard time explaining to people exactly what happened to you.

The Dab Sweats

The moment is here: your first

dab. Inhale, exhale—cough, cough, cough... looks like you're gonna make it! Then, all of a sudden, it feels like someone just turned up the heat. Don't panic: This is normal and actually a

wonderful level of highness—so stoned that sweat starts pouring from your brow. Have a glass of water, focus on your breathing, and keep your head off the floor.

Rig-and-Torch Awareness

Being "too stoned" isn't the only danger the newbie dabbler faces. Dab rigs and torches can be dangerous and should be handled with care.

If you're a first-time dabbler and aren't sure how to operate the equipment, don't be too proud to ask an experienced friend to help you out. Spatial awareness is a critical tool in the dabbler's bag. Put on your Buddha hands, move with purpose, and always be aware of what's too hot to touch. You don't want your "first dab" story to be about your visit to the emergency room to treat your gnarly torch burns.

The Long Stone

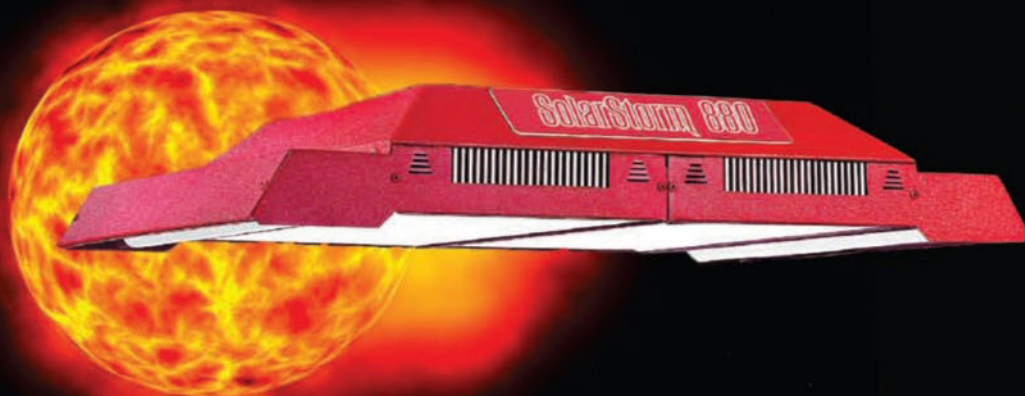
Some new dabbers may find that they get very high, go to sleep, wake up and are still very high. The dab high can have a real "stick to your ribs" quality that the first-time dabbler needs to be aware of. Don't start dabbing the day before a new job or a court date, because you may find yourself too high to rise to the occasion. ✨



If you aren't smoking several joints a day, then even a small dab is probably going to get you a little sideways.

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Writing on the Weed Wall

The signs are everywhere that cannabis prohibition is ending.

Allen St. Pierre is executive director of NORML. Visit norml.org.

Cities Sell Pot

Cities are now selling cannabis directly, in some cases taking in all of the revenue and taxes. The municipality of North Bonneville, WA has the monopoly on selling cannabis products via its city-owned cannabis store. The town of Hancock, MD, has entered into an agreement with a local medical cannabis provider in order to receive a small percentage of the operation's revenue. Meanwhile, Oakland, CA wants to exchange city-owned land for a percentage of the revenue derived from cultivation centers and retail stores.

Prohibitionists Enter the Industry

A former DEA legal counsel jumped ship to join Privateer Holdings. National Institutes of Health researchers have departed for cannabis biotech companies. The former head of security for the New York Transit Authority is performing similar duties with a New York medical cannabis provider. And a sitting US federal attorney is turning down law firms and political jobs in order to go from prosecutor to pot purveyor.

Dems and GOP Vet Pot Views

The national senatorial vetting committees of both the Democratic and Republican parties now ask potential candidates

about their positions on cannabis. Wild-eyed prohibitionists get demerits.

The Media Frenzy

Headlines like "Marijuana Is the Next Billion-Dollar Industry" and "Marijuana Legalization Is Sweeping the Nation" are omnipresent. CNN, CNBC and *Vice* (on HBO) regularly air features on the culture of cannabis. *Newsweek* and *Time* have printed a half-dozen cannabis-themed covers in the past two years.

Presidential Pot Ponderings

All candidates have been asked about their stance on marijuana legalization. Some, like Bernie Sanders, have come out with full-throated support for legalization. Nearly all of the candidates seem to agree on one basic theme: Let the states continue to "experiment" with legalization.

Ending the UN Pot-Prohibition Firewall

At the United Nations General Assembly conference in New York City, the UN reviews anti-drug treaties for possible amendment. With so many countries now moving away from the failed policy of pot prohibition—including the United States, Canada, Mexico, Jamaica and Uruguay—UN elites are feeling the burn for the first time ever.

Cannabis Celebs

Celebrities are endorsing cannabis and are investing in the industry. Snoop Dogg, Willie Nelson, Woody Harrelson, the Bob Marley family, Roseanne Barr, Whoopi Goldberg, Nick Lachey, Montel Williams, B-Real, Melissa Etheridge, Wiz Khalifa, Kevin Smith, Tommy Chong, Dick Wolf and Peter Thiel are just a few.

Joint Pro-Pot Political Fundraisers

Ever seen Democrats and Republicans go to a "joint" fundraiser before? These days, congressmen like Earl Blumenauer (D-OR) and Dana Rohrabacher (R-CA) travel together to cannabis-industry fundraisers, where sums in excess of \$100,000 are routinely raised and donated at a single two-hour event. Regulatory agencies report that members of Congress have garnered \$100K in pro-pot fundraising hauls.

Our Map of Marijuana Laws Is Being Rewritten

Each year, NORML's map of US cannabis laws becomes increasingly colorful, with four legalization states, 16 decriminalized states and 36 states with medical cannabis laws. Soon enough, all 50 states will be colored green! 🌿

FREEDOM FIGHTER

By Kevin Mahmalji, NORML national outreach coordinator

Veteran With a Mission

Former Army officer David Bass leads Texas's vets into a new battle.

Major David Bass (retired) served 21 years on active duty in the US Army, part of Operation Desert Storm and Operation Iraqi Freedom. Upon his retirement in 2006, he was rated 60 percent disabled by Veterans Administration doctors. Like so many other vets, Bass was prescribed narcotic medications for his chronic pain and psychotropic drugs for post-traumatic

stress disorder (PTSD).

But Bass hated the side effects and, after researching medical cannabis, found it to be a much safer alternative. Since that discovery, he has tirelessly advocated for his brothers in arms. Now the director of veterans' outreach for Texas NORML, David has organized Operation Trapped, an initiative to raise awareness of the need for medical cannabis among veterans.

His strategy is simple: Texas vets are being asked to place a



piece of paper with their name, branch and dates of service, combat operations and service-connected disabilities inside a prescription-pill bottle. These bottles will

be displayed at the State Capitol during the 2017 Texas legislative session to highlight the need for a veterans' medical marijuana program.

Bass and other service members are also requesting a meeting on Veterans Day with a representative from Governor Greg Abbott's

office to discuss their preference for cannabis as an alternative to pharmaceutical drugs.

"Our Texas veterans aren't criminals," Bass says. "They're homeowners, taxpayers, professionals in many different types of jobs, students and voters. Our veterans have made the ultimate sacrifice for our state and our nation. Choosing health and mental well-being should not be a crime. Our veterans have earned the right to choose a safe, effective medication for their service-connected disabilities."

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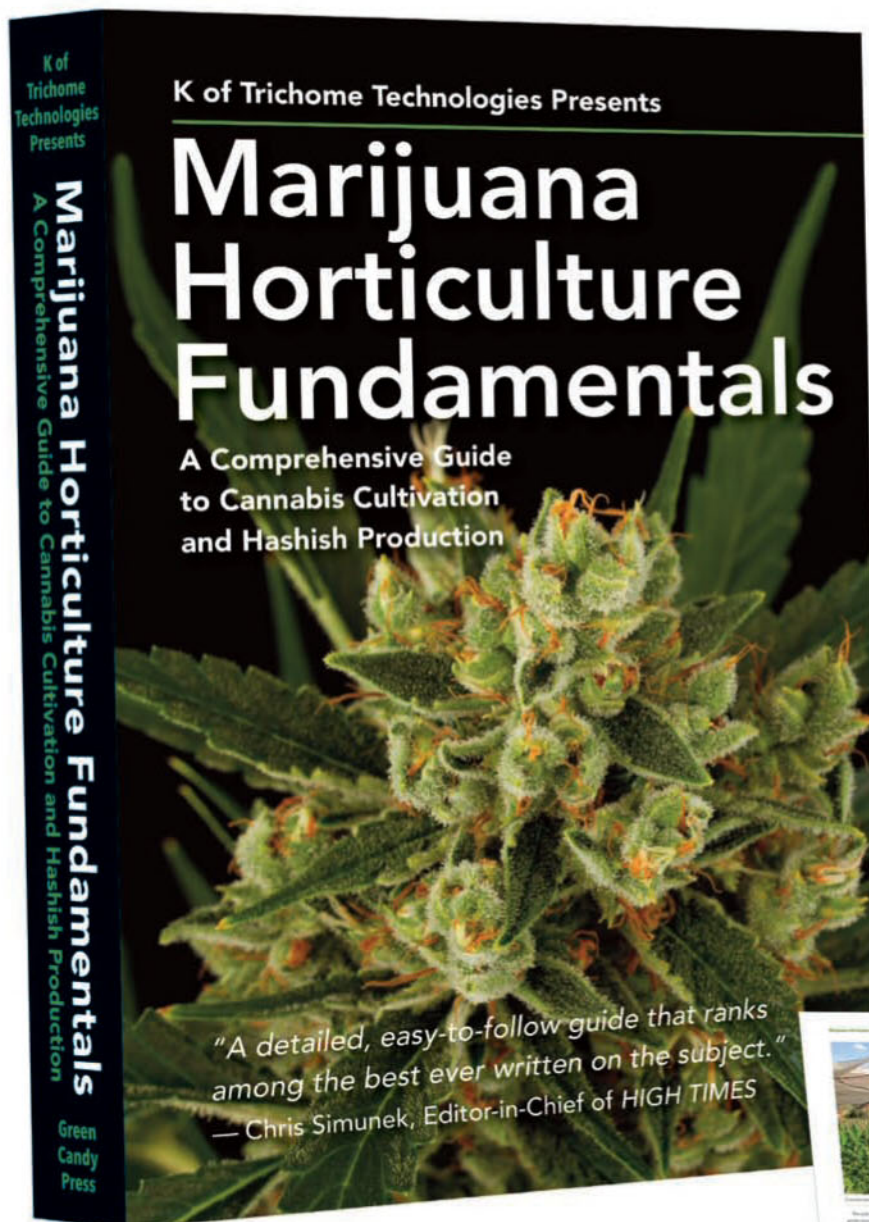
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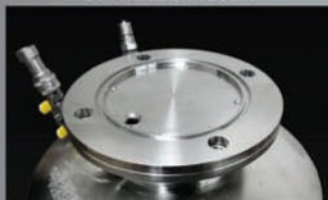


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CRITTER OF THE MONTH

SPIDER MIGHT

 I'm a long time fan of the magazine and recently got into photography myself. I want to submit my photo in hopes to get feedback from fans as well as staff there. Please let me know what you guys think so I can make a future out of it. *Mike Picasso, Las Vegas Nevada*

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GROW OF THE MONTH

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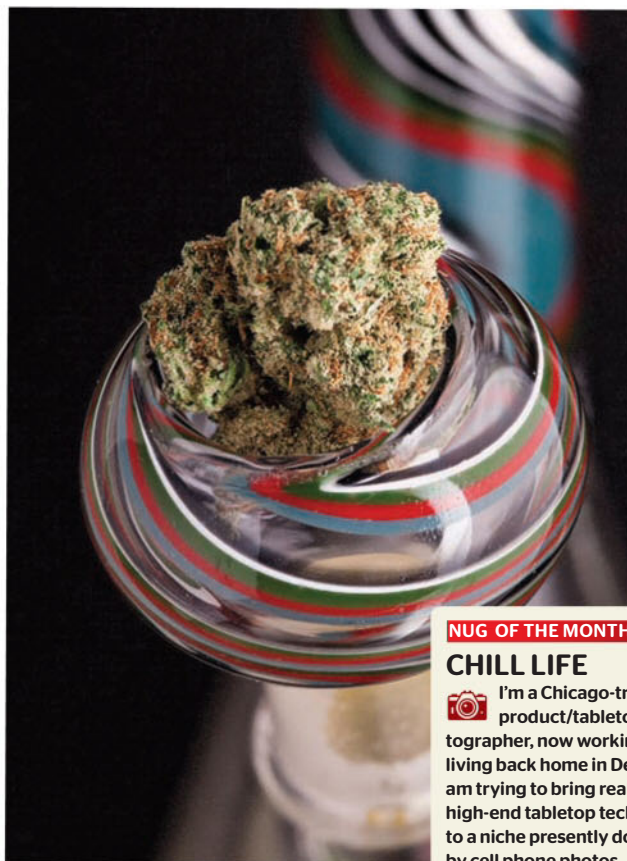
 If you want to taste what we've got going on here, drop in the premier collective of Mammoth Lakes, CA, Green Mammoth a.k.a. "The Best Joint in Town." This is Mendo Breath grown in Roots Organics. *GreenMammothGrower*



GROWER OF THE MONTH

ARM'S LENGTH

 I love your magazine! These were grown for around 90 to 100 days in a light dep greenhouse I made. The strain is Green Crack. *Patrick R.*



NUG OF THE MONTH

CHILL LIFE

 I'm a Chicago-trained product/tabletop photographer, now working and living back home in Denver. I am trying to bring real world, high-end tabletop techniques to a niche presently dominated by cell phone photos. *J. Karl Brewick of The Chronic Camera*

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► Big-Yield Technique

Whether you're in the midst of an indoor cycle or gearing up for a big outdoor harvest in the fall, cultivation editor-at-large Nico Escondido provides expert tips and tricks for maximizing your garden's yield via pruning and trellising.

► Wiz on Weed

We catch up with hip-hop superstar Wiz Khalifa on a rare day off in sunny LA. Get the lowdown on his smoking habits, what he listens to while high, and why his life totally rocks.

► Dateline: Holland

It's been over a year and a half since High Times held its last Cannabis Cup in the Netherlands. Coffeeshops are still trying to make sense of Holland's hazy pot laws.

► Double 4/20 Bash

High Times' yearly 420 celebration kicked off in San Bernardino with the top strains in America competing for the 2016 US Cannabis Cup! Then see which buds of the Rockies took home prizes at the *High Times* Colorado Cup.

► Marijuana Manners

All stoners can benefit from a "headiquette" lesson. In an excerpt from his new book *How to Smoke Pot (Properly)*, journalist and *HT* alum David Bienenstock offers guidance on navigating some of marijuana's hazier customs.

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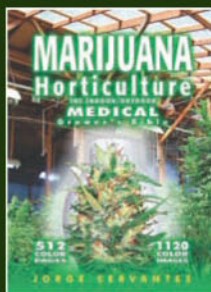


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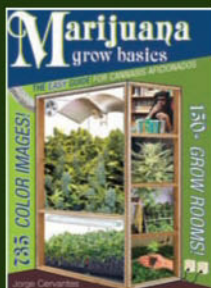
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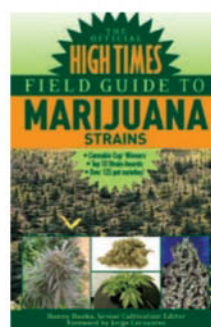


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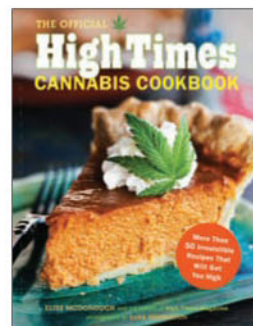
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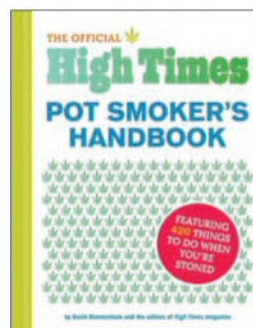
The Official HIGH TIMES Field Guide to Marijuana Strains By Danny Danko

This cannabis compendium covers the world's top pot varieties—all meticulously researched and lovingly described in terms ranging from odors and flavors to potency levels and medicinal properties. **\$14.95**



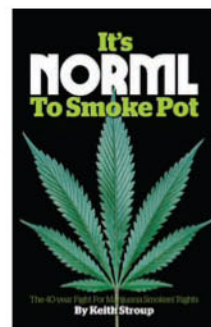
The Official HIGH TIMES Cannabis Cookbook by Elise McDonough

Go way beyond the brownie and master your munchies with over 50 recipes for stoner cuisine that will get you high—including recipes inspired by Cheech and Chong, Snoop Dogg and Willie Nelson. **\$19.95**



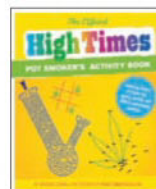
The Official HIGH TIMES Pot Smoker's Handbook by David Bienenstock

This handbook rolls up all of our collected wisdom into one indispensable ganja guide. With a life-changing list of 420 things to do when you're stoned, this is truly the ultimate guide to green living. **\$19.95**



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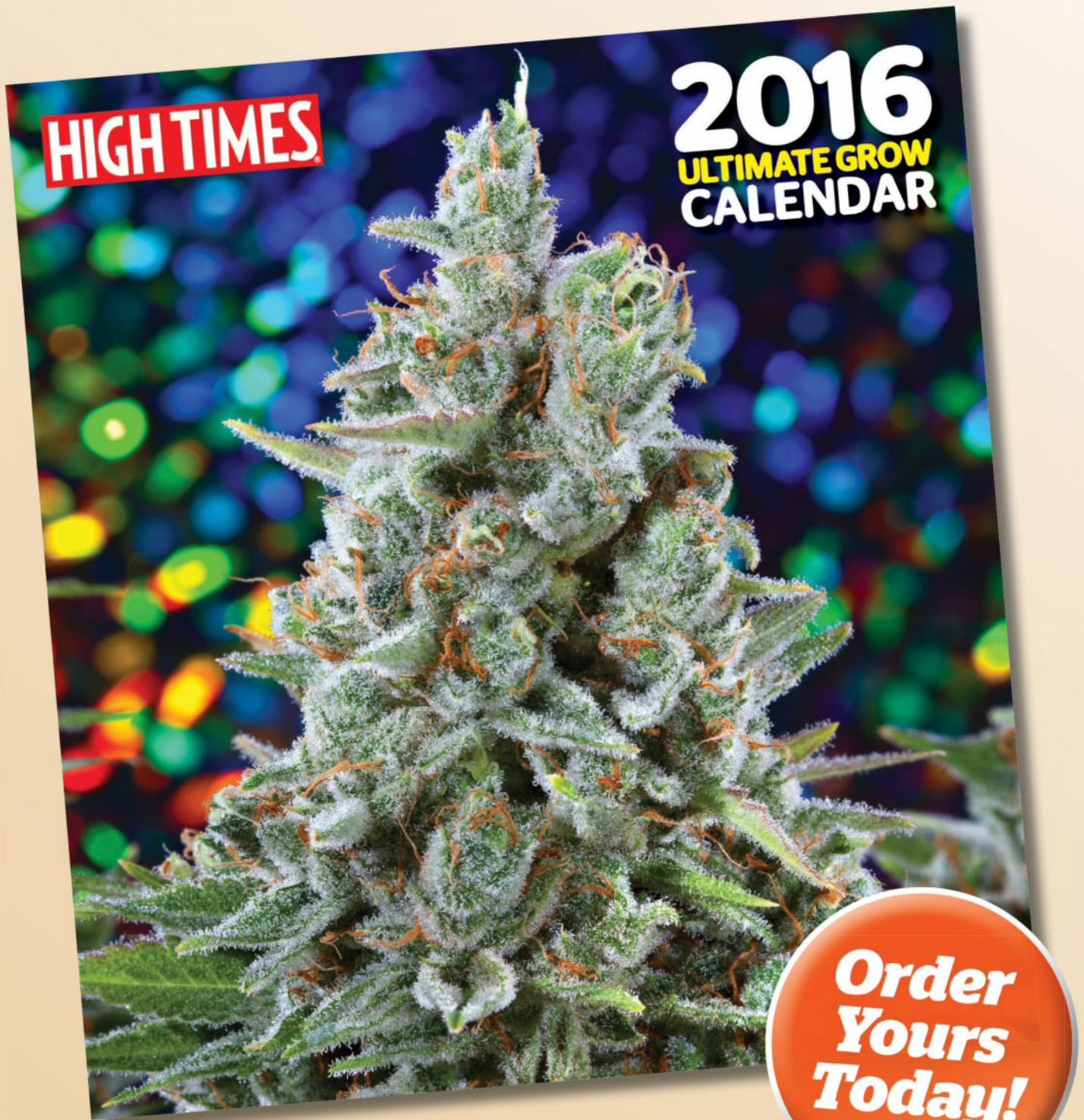


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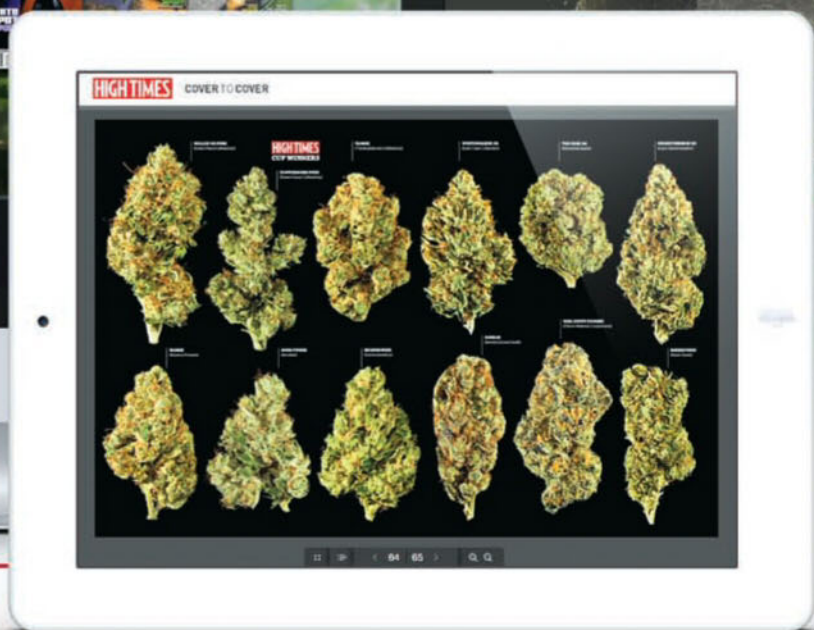
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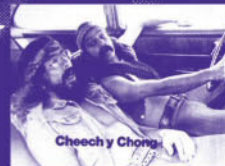
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