

YOUR GUIDE TO 3 EASY GARDENS

HIGH TIMES

SEPT 4/16

**12TH
ANNUAL
GEAR
OF THE
YEAR**

**DOOBIES
MUSIC AWARDS**

**D.L. HUGHLEY
SOUNDS OFF**

**GROW
ROOM
TIPS & TRICKS**

**INSIDE
CALI
CLUBS**

**POT
IN KENTUCKY**

< THE HYDROPLEX

**PEST
CONTROL
THE NATURAL WAY**

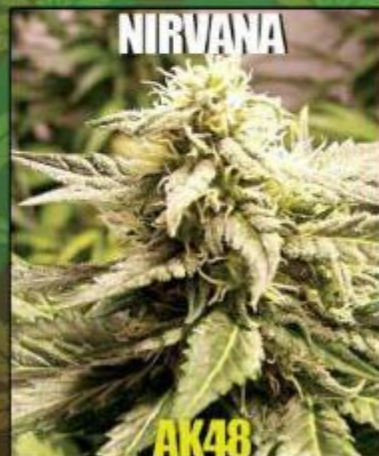
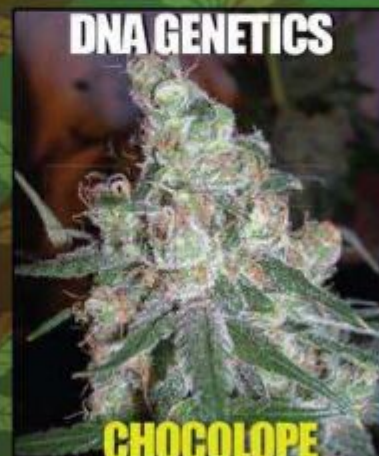
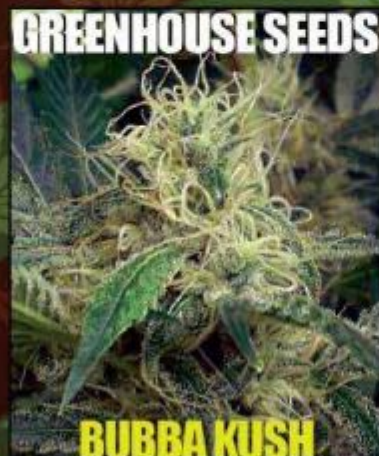
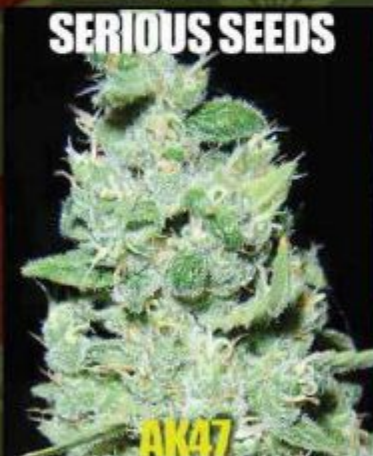
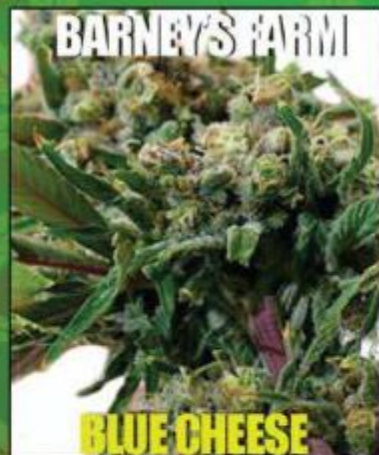
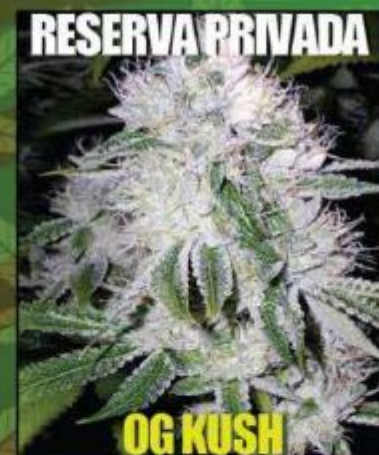
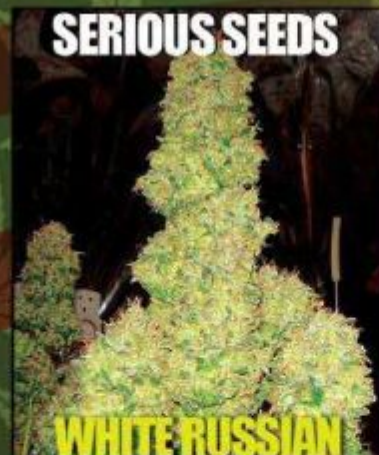
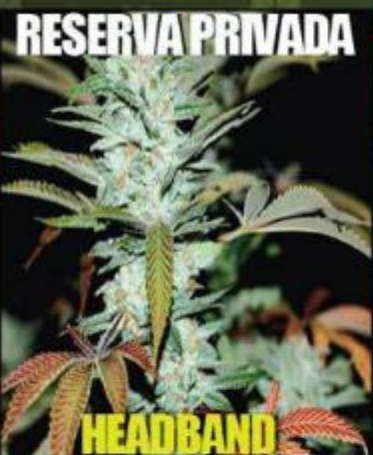
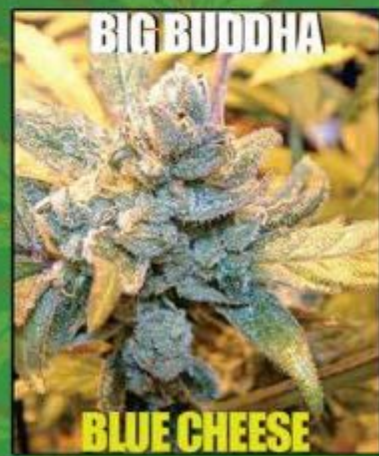
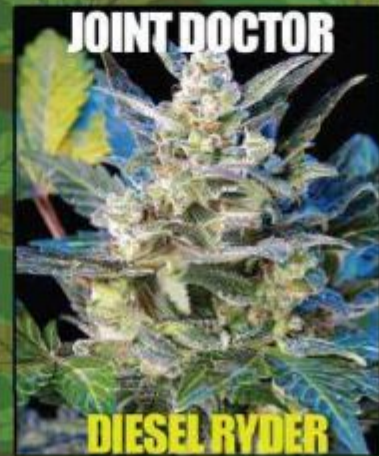
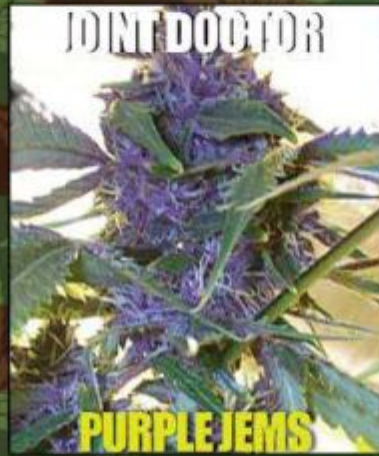
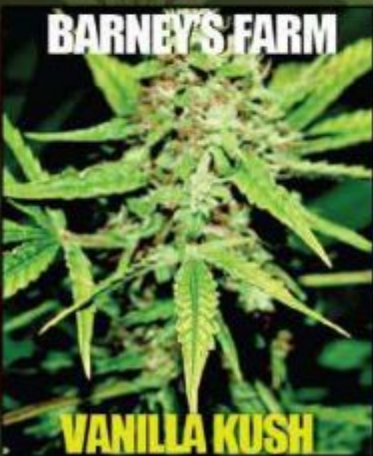
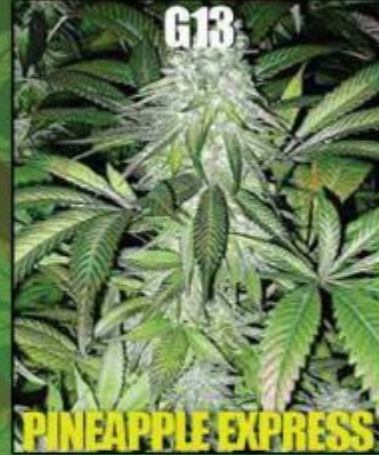
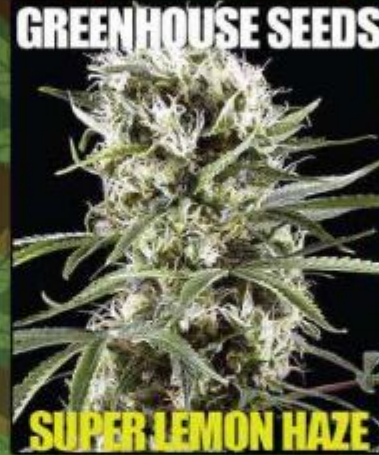
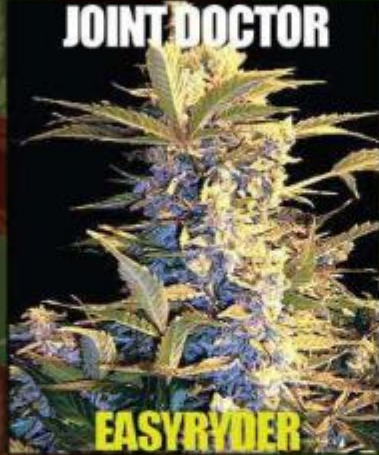
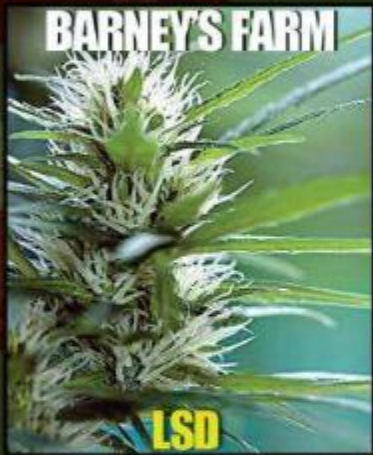


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NICO ESCONDIDO

As the amount of pot produced annually skyrockets, the cultivation equipment marketplace flourishes.

The growing industry is a growing industry! As most other businesses struggle to emerge from the recession, marijuana farming-equipment companies continue to expand and thrive as more and more people decide to take matters into their own hands and start raising their own cannabis. With the needs of all these new growers in mind, we at HIGH TIMES present our 12th Annual S.T.A.S.H. Awards (short for Significant Technological Achievements in Secretive Horticulture), our picks for the best cultivation products in the world.

Products that make our esteemed list have to meet several criteria. They must ease the burdens of growers as well as increase their yields. They must be simple to use while also guaranteeing heavy harvests. We've traveled to hydroponic-industry conventions from Spain to Canada and visited cannabis gardens throughout the United States to find the most innovative horticultural lighting, grow trays, plant nutrients and all-in-one growboxes around—items that indoor and outdoor ganja gardeners are sure to appreciate.

Along the way, we've also learned new tips and tricks to help beginners and experts alike grow bigger buds and produce more connoisseur-quality medical marijuana than ever before. In this issue, you'll find helpful hints on everything from organic pest control (page 38) to indoor garden design (page 116). Check out our "3 Easy Ways to Get Started" feature (page 66) for a few handy ideas on how to set up your first grow, and take an inside peek at California's cannabis dispensaries to see what's possible for all of us down the road (page 79).

All in all, the issue you hold in your hands is a pot-packed horn of plenty meant for newcomers to the grow scene as well as longtime weed aficionados. Add to that Dan Skye's hilarious interview with pot-friendly comic D.L. Hughley, Bobby Black's Doobie Awards coverage and managing editor Natasha Lewin's trip to the Kentucky Derby, and you've got a well-rounded look into a cannabis community that continues to keep on growing!

Danny Danko

Danny Danko
Senior Cultivation Editor

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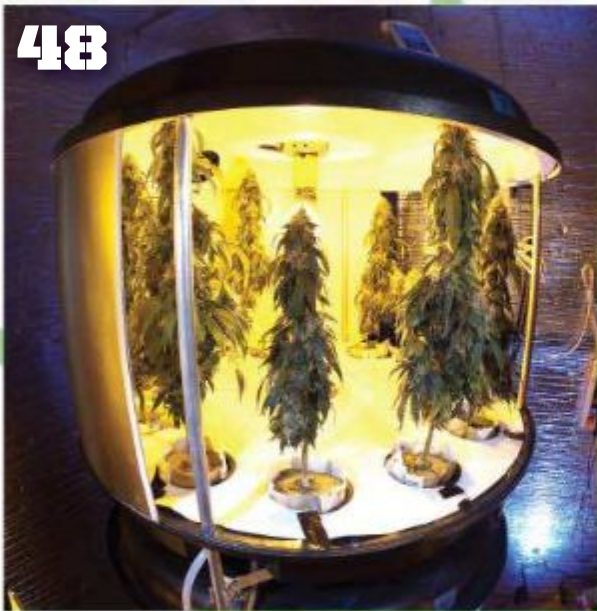


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FEATURES

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BY BOBBY BLACK

Seven bands and six-foot vapor bags were among the highlights at this year's annual music-awards party and Cowboy Cup at the SXSW festival in Austin, TX.

38 ORGANIC PEST CONTROL, PART II

BY HUGH JIÉLDER

Two months back, we began with a lesson on growroom hygiene and some basic preventative measures for pest and disease control. This second installment goes even deeper, examining specific insects, molds and diseases that can afflict your garden. It also offers a comprehensive list of natural, organic solutions to combat these pests as well as ideas on how to keep your growroom safe without the use of commercial pesticides.

48 THE 12TH ANNUAL S.T.A.S.H. AWARDS

BY ERIC SCHONER

The HIGH TIMES Cultivation Department presents its annual rundown of the best gear of the year to assist cannabis farmers in their never-ending quest to increase yields and decrease workloads. Try these handy pot-production products in your own growroom for better efficiency with less effort!

66 3 EASY GARDENS

BY FELIX GREEN

Given all the new indoor growers trying to achieve marijuana self-sufficiency these days, we offer beginners an introduction to the merits of both hydroponics and soil, as well as three easy gardens that anyone can set up in their own home to get growing simply and quickly.

79 DEFENDING DISPENSARIES

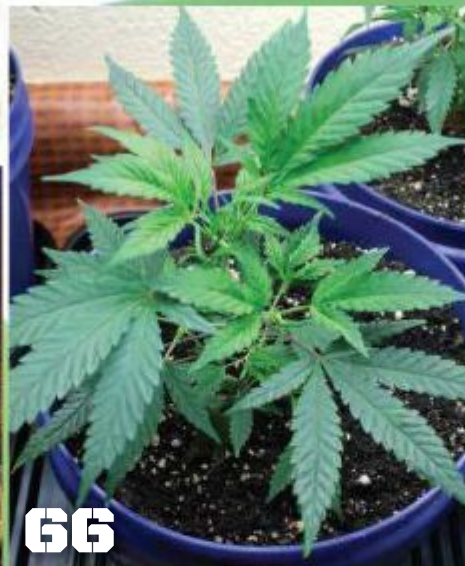
BY DAVID BIENENSTOCK

The media often portrays the dispensary scene in California and Colorado as some kind of "Wild West," but our insider's look reveals that America's \$2-trillion-per-year health-care industry could learn a lot from the best dispensaries when it comes to putting patients before profits. Plus: A guide to landing your own green job!

86 HIGH TIMES Interview: D.L. Hughley

BY DAN SKYE

If you're looking for a comic who can take the essence of reality, turn it inside out, and make you laugh your ass off, then you're looking for D.L. Hughley. In this exclusive HT interview, D.L. gives you the DL on just about everything on his mind.



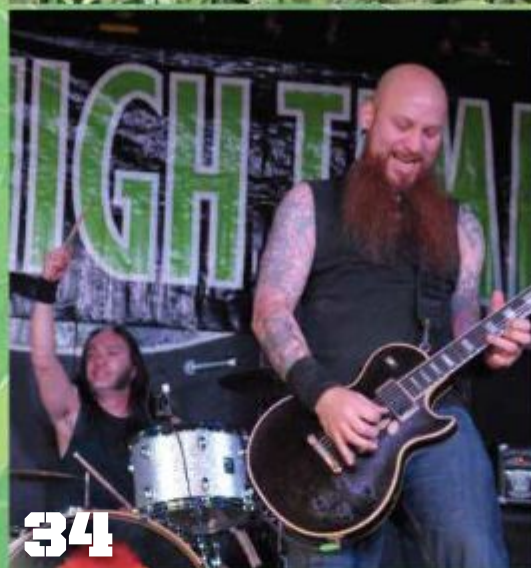
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EDITED BY DAN SKYE

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EDITED BY DANNY DANKO & NICO ESCONDIDO
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134 NEXT MONTH

140 POT 40

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FEEDBACK

GLASSBLOWING ROCKS

Loved the Flameoff article! I managed to locate my old glassblowing partner, who works in Los Angeles now. He offered to let me use his torch and even sell my pipes for me. Sadly, it wouldn't be the same as the old days, when we would puff a hit after every pipe. Peace!

Mikey Neides

TO JACK

I recently learned of Jack Herer's death. I found a copy of his book, *The Emperor Wears No Clothes*, at a used bookstore and read it several times. Jack was one of my heroes, and I think I even smoked his name-sake bud once.

Mike

MISS HIGH TIMES Q

Okay, I've gotta go there: How come the HIGH TIMES lady of the month is always a slim, bikini-clad, twentysomething girl? Where are the normal-looking chicks, the average- or bigger-size women that represent a huge portion of your loyal readers?

I understand, of course, that your target demographic is probably males in their twenties or thirties. I'm just sayin'

Emily

HIGH FROM DOWN UNDER

I've only been reading HT for six months. I enjoy it, but I get jealous of the pics. In Australia, we don't get those breeds.

I was wondering if there's any way that the big pharmaceutical companies can be sued for neglect if Rick Simpson really does have affidavits and testimonials from people who have been cured of cancer using cannabis? Surely there must be some way to sue the companies that make ineffective cancer drugs for their neglect and disgusting profiteering off dying people, even in the US.

Ryan

PROUD VETS

Keep up the good work, Bobby. Just read your article on veterans caught up in the Drug War in the latest issue of HT ("The Thin Green Line," June '10) and was very pleased to see that something is finally being done. Ya'll will be hearing lots from me in the future. I'm just beginning an entire new life. A year ago, I didn't know what NORML was; now I'm a member. I am devoting the rest of my life to legalization and growing—maybe writing also. Peace and love, bro!

Billy Mac

Semper High, Mr. Black! I have been getting feedback from vets that toked. They tell me that if they piss positive, they'll be denied treatment. Meanwhile, these heroes are being forced to take large amounts of heavy-duty narcotics to deal with pain. Here is a quote from one vet: "Help us veterans



that have to follow the VA's pain contracts and are forced to take narcotics instead of smoking." I think helping these vets is what "supporting the troops" is all about—not just when they're on the battlefield, but when they come home, too. I may be in the New York area sometime in late May or early June and would very much enjoy it if I could stop in by you, maybe do lunch and a bowl. Thank you for what you do.

*Hemp Solo
(I smoke pot ... SO WHAT?)*

COLORADO MARKET QUOTES

Could you guys start including Colorado in the THMQ? I'm a Denver dank lover, and I'd like to be able to keep a better ear to the ground in my local market. Colorado had the longest section in the dispensary directory in the March "Top Glass of 2010" issue. I know that because I've got it sitting open in front of me—and in the very same issue, the THMQ has got someone talking about Colorado Springs-grown bud!

*Your hazy homeboy,
purplehazer7*

The THMQ is entirely generated from reader submissions. We do our best to include every state in the THMQ each month. However, if we don't receive a submission from a certain state in a given month, that state is left out. The best way for people to ensure that their state regularly makes the THMQ is to submit their strain, price and location info to thmq@hightimes.com.

CANNABIS CRUSADER

I began my journey into the world of cannabis at age 12, and with six years of bud experience under my belt, I find myself with an overwhelming interest in the plant and everything about it. I often stay awake late at night reading HIGH TIMES articles that I have already read, simply because I want to read them again. Unfortunately, this sacred plant still isn't legal in the US, and although I hope for the best, I fear I may never see the end of prohibition.

I want to take an active role in the legalization of marijuana—not only for medicinal use, but for recreational and industrial uses as well. Honestly, I believe that until stoners around the world stand up for themselves and say, "We just wanna get high," we will never see the first legal 4/20 (which would certainly be a glorious celebration—one that would bathe the world in pot smoke!). Right now, one of my biggest "fears" is being forced to choose between my love for MJ and employment.

Keep up the good fight!!

Steve

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DOGS IN THE CROSSFIRE

A video of a February SWAT team assault on a home in Columbia, MO, which was released in May, has gone viral. People are outraged by the needless terror inflicted upon a family, but the senseless killing of a pet raised a new level of awareness as to what the Drug War continues to be—a violent, wrongheaded assault on our rights. It's bad enough that American citizens involved with marijuana face the possibility of having their doors kicked in by law enforcement, and being threatened at gunpoint. But routinely shooting the family dog, which seems to be a policy adopted by law enforcement nationwide, is unforgivable in America. Just ask Michael Vick. Wouldn't animal handlers make more sense than firing live ammo? Visit [youtube.com/watch?v=RbwSvvUaRqc](https://www.youtube.com/watch?v=RbwSvvUaRqc). Caution: graphic footage.

HEROES OF THE AIRWAVES

Though "terrestrial radio" is on the downside and losing ground to both satellite and Internet radio, there are still cool stations out there on the old-school airwaves, with none being cooler than KMUD-FM, broadcasting in Northern California's famed Emerald Triangle to 20,000-plus listeners.

KMUD goes beyond the standard nonprofit "community radio" station by broadcasting live warnings of incoming police helicopter raids to Triangle farmers. An example of a recent KMUD report: "Around 9:40 a.m. this morning, a large gray helicopter was seen taking off from the Garberville airport [in Humboldt County], apparently heading toward Reed Mountain. The occupants were fully dressed in combat gear, and the convoy of cars they arrived in were unmarked."

Law enforcement has objected to KMUD's unique PSAs. Mendocino County Sheriff Tom Allman expressed concern that these warnings will allow the Mexican drug cartels allegedly growing in the Triangle to arm themselves to the teeth in anticipation of raids on their wild gardens. Of course, these same "Mexican cartels" have been offered for years by Northern California cops and the Feds as a justification for conducting raids on legitimate Triangle residents. Moreover, in the last 15 years, much of the pot targeted has been intended for legal medicinal consumption, meaning those raids violated state law.



MONTANA DISPENSARIES FIREBOMBED

In early May, two medical marijuana dispensaries were firebombed in Billings, MT. In both incidents, rocks were thrown through the windows followed by Molotov cocktails. The fire scenes were also spray-painted with the message: "Not in our town." Locals believe the bombings were carried out by a radical group of area residents. The bombings came just before the Billings City Council was scheduled to meet to discuss regulating medical marijuana. Eighty-nine licenses for medical marijuana dispensaries have been issued and some city residents have voiced concern. The council voted to temporarily ban new medical marijuana businesses and freeze the businesses already in place. Billings police are working with the Bureau of Alcohol, Tobacco, and Firearms to apprehend the bombers.



CONSPICUOUS CONSUMPTION

The newest addition to the "Was this really necessary?" category of new product ideas is the gold-plated Volcano Vaporizer. The standard Vaporizer already retails for \$539—ouch!—but if you really need to show the world that money—or common sense—is no object, get it gold-plated. Contact Computer Choppers of Oregon. Plunk down \$1,495 for a gold-plated Volcano available online or send in your own and get it encased in gold or platinum; you can also have it decorated with jewelry or engraved. We suggest "I'M RICH AND STUPID."

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THANKS, MICK— WE THINK...

In May, Mick Jagger of The Rolling Stones came out for legalization of pot on the *Larry King Live* show. However, the 66-year-old rocker suggested a feeble way of getting there. "You usually try these things out in very small places," he said. "You know, like you try a new product out in a small kind of society or an island somewhere. In England, they always try out new mobile phones in the Isle of Man. They've got a captive society. So I said, you should try the legalization of all drugs on the Isle of Man and see what happens."

The Isle of Man, with a population of approximately 80,000, sits in the North Irish Sea between England and Ireland.

Mick then did some convoluted theorizing on drugs: "Human beings seem to have a propensity to want to take drugs in some form. It seems to be the propensity of human beings to want to use them. I think you have to take that as read, you know. But then what do you do when it affects so many people's lives, and not in a good way? And then also you get a lot of violence at both ends of the scope. So you get violence in some countries. That's the part that speaks to some sort of legalization. Because that, you would hope, would help the violence from both ends of the supply line."

We're pretty sure this is a statement of support.

DAN SKYE (2) / FREEBIE, ILLUSTRATION BY LOUISA BERTMAN



MEXICO HARVESTS GO LOCO!

Pot production in Mexico is climbing. Despite a massive offensive against Mexican drug cartels, cultivation in Mexico increased 35 percent in 2008 and continues to grow. According to the 2010 International Narcotics Control Strategy Report (INCSR) released by the State Department: "Despite the efforts of the [Mexican government], drug cultivation rose significantly in 2009."

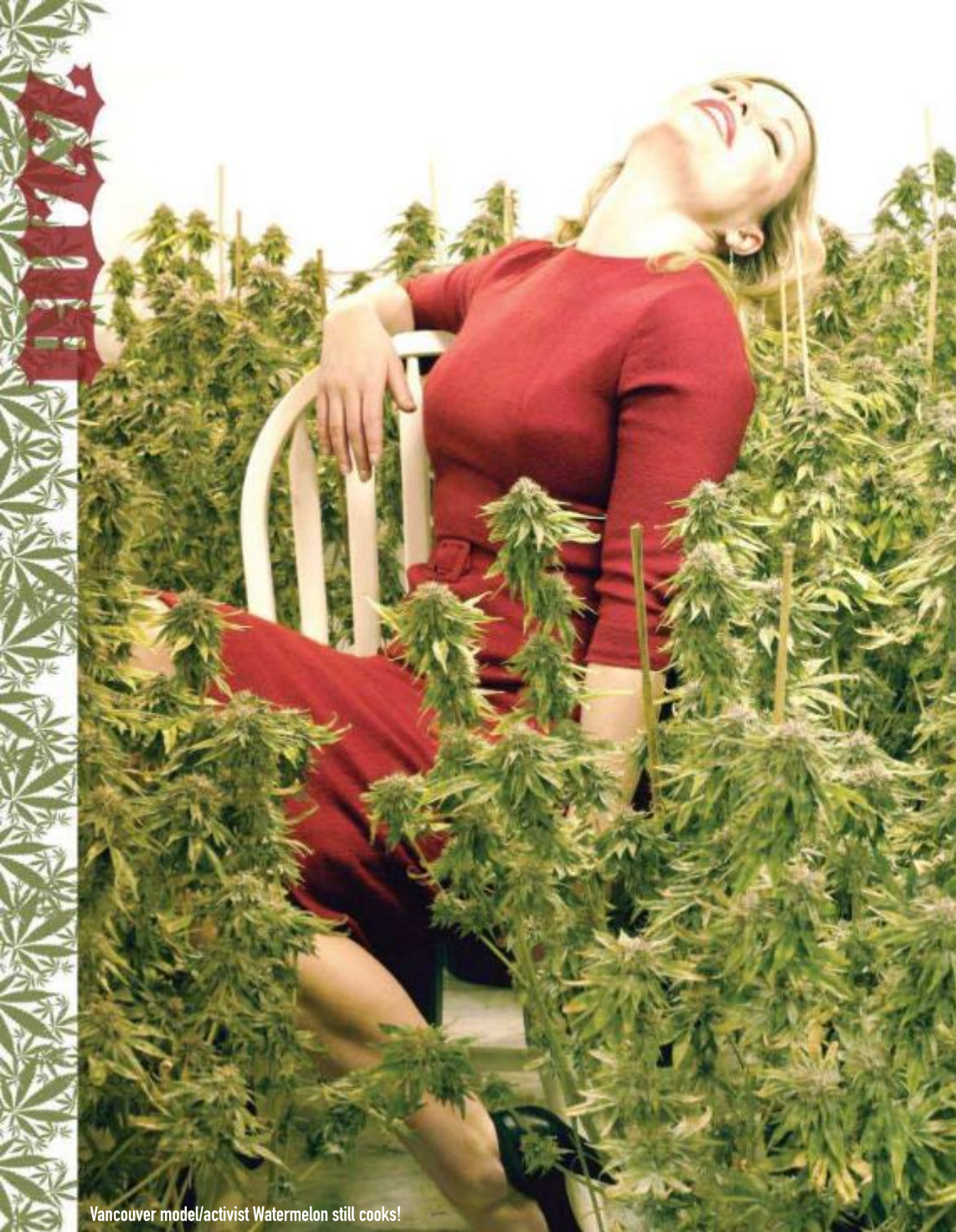
In 2008, 12,000 hectares of land (the equivalent of 46 square miles) was used for marijuana cultivation, up from 8,900 in 2007. This increase is a 16-year high. Meanwhile, eradication of plants has decreased.

The report specifies that the recent focus of the military and law enforcement on combating the rise of methamphetamines and violence of the cartels has fueled the increase in cannabis production and smuggling operations to the US.



EMERY EXTRADITED

In May, the order to extradite Canadian cannabis activist Marc Emery to the US was signed by the Canadian Minister of Justice. Emery is the founder of the marijuana magazine *Cannabis Culture* and was the proprietor of Marc Emery Seeds, which distributed millions of pot seeds across North America. He now faces a 5-year stretch in a US federal prison for exporting those seeds to America. Marc's wife, Jodie Emery—who in his absence will continue to oversee the cannabis-related businesses that she and her husband have established—said, "I am absolutely devastated that this government has opted to send my husband, a Canadian citizen, to the United States for a crime that amounts to a \$200 dollar fine in Canada. This case is about silencing my husband for his marijuana activism. This Conservative government has declared a culture war in Canada and my husband is its latest victim."



Vancouver model/activist Watermelon still cooks!

WATERMELON SWEET AS EVER

Our stunning two-time cover girl from Canada has been very busy since the last time she graced the pages of HIGH TIMES. Watermelon (yes, that's her legally changed name) was the star of the 2006 "Buds and Babes" calendar in the UK and has appeared in several pot documentaries, including *Escape to Canada*, *The Union: The Business Behind Getting High* and *Women in Weed*. All the while, her status as the high priestess of baked goods in her hometown of Vancouver, Canada, has remained undisputed.

Her *Baked & Baking* DVD from 2002 is still a steady seller. But now she's starring in *Baking a Fool of Myself* (bakingafoolofmyself.com), a slickly produced, contemporary Web cooking show that teaches the modern stoner how to bake with shake, infuse booze, and create delicious treats with a special kick.

Each show features Watermelon's mouth-watering recipes, made with assistance from her real-life mom. If you can take your eyes off the dishy Watermelon long enough to focus on the dish she's cooking, you'll be preparing premium pot food in no time.

Lucky locals can sample Watermelon's culinary skills at her regular sampling parties. Invitees will delight in dishes like "spin-akopita" puff pastry, "waken bacon," black Sambuca marijuana ice cream made with organic cashew milk, or one of her infamous gin-and-chronics.

Watermelon is still a regular at Wreck Beach, Canada's best clothing-optional spot. She also performs in comedy/burlesque shows that she produces. Presently, she's working on her tango skills as well as a degree in philosophy. On top of that, she's making plans for the 70-year-old movie theater she recently purchased. This girl just never stops—except to spark one up.

Visit melongirl.com. For more shots of Watermelon, visit mariacoletsis.com.



THIS MONTH IN SHOWBUZZ

Hitchens
outs
Clinton.



THE TRUTH COMES OUT!

Remember when Bill Clinton was running for President back in 1992 and famously declared: "I smoked marijuana, but I didn't inhale." Apparently

Bubba wasn't lying. British author, essayist, and public "intellectual" Christopher Hitchens attended Oxford with Clinton when the future Prez was studying in England as a Rhodes scholar. Hitchens recalls: "He preferred, like many another marijuana enthusiast, to take his dope in the form of large handfuls of cookies and brownies."

Hitchens also believes Clinton ratted out American students who participated in anti-Vietnam protests to the London desk of the CIA.

THE SPORTING LIFE HURTS



If you're a pot smoker and happen to be a sensational athlete, expect nothing but pain. Andrew Lambo, a minor leaguer in the Los Angeles Dodgers baseball organization and a fourth-round selection in the 2007 amateur draft, was suspended a whopping 50 games for testing positive a second time for pot. Lambo is considered to be one of the organization's top outfield prospects.



The US Naval Academy dismissed star slotback Marcus Curry from the football team for lying about why he missed a curfew, but insiders say a drug test in December led to the harsh punishment. He reportedly told the brass that he hadn't known he was smoking pot; therefore it technically wasn't a violation. But the word is administrators never bought the story.



Nevadans for Sensible Marijuana Laws (NSML) came out in support of University of Nevada, Las Vegas basketball player Matt Shaw who was suspended for a year because of one positive test for marijuana. The suspension effectively ended his college career. "At the age of 22, Matt is an adult," said Dave Schwartz, NSML campaign manager said. "He made a rational decision to use a substance less harmful than alcohol. We hope all Nevadans will stop to think about this for just one moment—and think specifically about the fact that players who drink alcohol to excess face no punishment, at least until they assault someone. It simply makes no sense. And for those who say, 'He should have just followed the rules,' we say, 'Why do we have rules and laws that horribly punish people who choose to use marijuana instead of the more harmful substance, alcohol?' It is time for a change."



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KENTUCKY-FRIED



Churchill Downs is packed waiting for the Derby race.



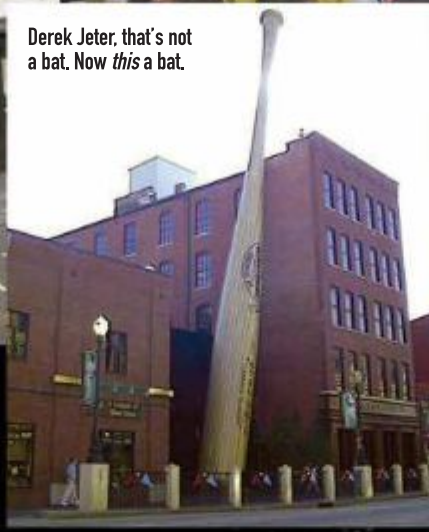
Is that the chronic on your head or are you just fucking awesome?

Don't let Kentucky fool you. It's a central state, technically, but everything about it screams "Southern"—biscuits

and gravy, bourbon, horses, baseball, seersucker suits, drawls. So let's dispel all the rumors right now: There is *no* restaurant at the top of the Louisville Slugger Bat, the Hotel Saratoga is *not* an actual hotel, Bloody Marys *are* an alternative to breakfast, and Kentucky *is* still—and always will be—a major ganja-growing state. (In fact, it's the No. 1 cash crop.) All those Kentucky exports, mixed with a little Southern hospitality, equals one stoned state.

Kentucky is also a commonwealth—one of four states in the nation with a government based on "the common consent of the people." The rule of the Kentucky is that there are no rules—unless you get caught.

My tour guide is J-Sho, a Kentuckian born and bred. She picks me up shortly after midnight at the Blue Grass Airport, where snow globes are



Derek Jeter, that's not a bat. Now *this* a bat.



Derby-mania! And Abraham Lincoln...

still allowed and a drink in your hand won't get you hassled, as long as you don't flaunt it.

We hit Ramsey's for lunch the next day in Lexington. It's a town favorite located on *High Street* (go figure). If you're a vegetarian, Kentucky will keep you on your toes—I stick to the green beans, fried green tomatoes and kale greens. J-Sho stops me before I take a bite to ask the waitress if they have bacon in them. Our server doesn't bat a lash: "They sure do, honey. Want some extra bacon on the side, too?"

On to the great Kentucky Bourbon Trail, home to such legendary bourbons as Wild Turkey and Jim Beam. We get our trail passports stamped at the Four Roses distillery. Remarkably, Four Roses was one of four distilleries allowed to stay in production during Prohibition—for medicinal purposes, of course. Sound familiar?

The free tour includes sampling the distillery's finest wares. We ask for seconds and get them. The only warning outside reads: "Please do not bring your handguns inside."

Then we head to Louisville, a 90-minute drive away. We stop in at what the locals call the "general store." Phones are ringing constantly. A pixieish woman in her early forties answers the one attached to her belt. "Hello, Mary. You're hungry, huh? Okay, give me an hour and I'll be over."

Then she answers the kitchen-table phone: "Yes, I have some sugar you can borrow. Give me 20."

"Everything is code words—'apple pie,' 'eggs,' they all mean something different," I'm told.

Nancy is a single mom who runs her own business and is also one of the biggest suppliers in town. "Everyone either knows her personally or

STORY

Story by Natasha Lewin



Bubblefunk and Northern Lights.

Southern Culture on the Skidz at Headliners.



Ben Lang of Louisville Glass Institute gets all fired up.



Beau stops to smell the buds.



Fancy horses on the streets of Louisville.

knows of her. Most pot in Louisville runs through her," one of her clients tells me. Louisville legend has it that the show *Weeds* is loosely based on her life. In the backyard, folks are sampling her finest strains: Bubblefunk, Willie's Wonder and Northern Lights

get packed, rolled and measured out for purchase.

"I've got a bunch of cancer patients, many in wheelchairs. I have to go to them," Nancy tells me. "The guy across the street got diagnosed with muscular dystrophy when he was 30, so I've been taking care of him for over 20 years. He's wheelchair-bound too. We watch out for each other."

J-Sho and I move on to Bardstown Road,

the hippest part of Louisville. The Lang Brothers run Natural Mystic, a headshop specializing in detailed glass. Their shop Louisville Glass Institute is preparing to host glassworkers from around the world for the annual Glass Art Society (GAS) conference.

Later in the day, it's time for mint juleps across the street at O'Shea's and a visit with the good doctor. Armed with a Ph.D. in botany from the UK and a love of good weed, the doctor's been growing indoors and out since the '70s.

"There are still family patches here and there," he tells us, "but not like it was yesterday. The outdoor thing just kept getting tougher and tougher. Harvest is hunting season. But instead of hunting, they are *hunting*. You need protection, especially around harvest season—laying trip wire ... you just want to discourage somebody. Some people, around harvest, camp with it—they *sleep* with it.

"This goes on everywhere," the doctor continues. "Some of the guys hike into the national and state parks because it's public land. So they hike in and out, in and out. But there's no specific parts of Kentucky—they grow further south and to the east, where you

get into the hills. Plants grow really well there. The soil is really good. We get plenty of sun and rain. We don't have to worry about it like in a lot of other places."

We sample some of the doctor's own Baby Girl, a G-13 hybrid crossed with a couple of his own strains. "It has got a little Jack in it, some G-13," he tells us.

And then it's time for the toast of the town, the Kentucky Derby—13 races, crazy hats, Churchill Downs, bourbon, bourbon, bourbon. We have box seats around the first turn. My pot-leaf-shaped hat brings me luck: I win \$50! A woman in a poodle skirt tells my pals that my "hat looks like the Chronic." The expected rain results in a few good old-fashioned freak-outs in the muddy infield. Number 4 wins out of 20 horses. Pot solidarity runs deep at the Derby. (4/20!)

The smell of fresh marijuana wafts from the stands, but the cops are too busy dealing with underage alcohol poisoning to bother anyone peacefully smoking grass. Then the rain turns to sun and we spend the evening at Jack Frye's, eating baconless potatoes after enjoying a Baby Girl spliff in the parking lot.

Good night, my old Kentucky home. ✨

The mint julep salesman makes a good pitch.



EARLYTIMES KENTUCKY WHISKY Mint Julep



Gatewood wants the government out of our gardens.

THE 'LAST FREE MAN IN AMERICA' SPEAKS

Gatewood Galbraith talks pot, politics, and the passing of his hero, Jack Herer. By Natasha Lewin

Gatewood Galbraith has run for Congress, Kentucky commissioner of agriculture, state attorney general and, now, five times for governor. He lost them all, but won more than 10 percent of the vote. He's an ultra-outspoken proponent of civil liberties, personal privacy and the right to grow, smoke and tax marijuana. He cites Jack Herer as huge inspiration. Currently, he's running for governor in the 2011 election with fellow Kentuckian Dea Riley as his running mate. He has already received endorsement by the United Mine Workers of America. We caught up with Gatewood in Lexington, KY.

Tell us about Jack Herer.

He changed my life. Jack was a social and philosophical tsunami; the ripples of his philosophy will reach every shore of every country. He was willing to teach every individual—not only in his own sphere, in language and culture, but in ways that were appealing and inspirational to people. He found a common denominator with everyone: *freedom*.

Jack gave us the factual information; he gave us the tools to be warriors. We had to use the facts in order to stand up to these law-enforcement tyrants. Jack used the information that they presented and told us how to use it as fuel against them. We would not be anywhere near where we are today if it wasn't for Jack Herer. I don't have many heroes—Jack, Willie Nelson, the Chinese man that stood in front of the tanks ... people that stood up in the matter of rights.

How did you get into politics?

In student demonstrations, I was one of the four with bullhorns. In 1971, with three to four thousand people, we shut the University of

Kentucky down. They called in the National Guard. Next to Kent State, Kentucky was the only other school where the National Guard came in with live rounds in the chambers. There were 5,000 guards, and 5,000 students behind me—but turning into Superman won't solve the problem. I don't know what laws were invoked to put them there, so I decided to write, study law. Then I figured if I'm going this far, I'd run for governor.

By 1981, I was pursuing the legalization of marijuana. In 1984, I ran as a Democrat promoting legalization. Everybody laughed, but we had the advantage: There were more marijuana smokers than there were Republicans. I got 14 percent in the primary.

Later, when I tried to run as a Democrat in the '90s, the Democrats froze me out. I ran for Congress as a Democrat in 2000; I ran in 2003 for attorney general as an independent. But really, I ran to change the laws for marijuana. I knew that, at some point, economics would give way to legalization. This transition from black market into legitimate status is worth trillions of dollars. And people don't understand it.

Cannabis has been used for hundreds of years. California is going to legalize marijuana this November. Once this money starts coming in, the only question left is whether you're going to be the second state or the 50th to legalize.

It is going to cut the cost of health care by half a billion dollars a year, because a lot of people would rather smoke a joint and lay in bed than be stuck in a hospital with tubes and be zombies. Each state has to understand that sovereignty rights are big here. The right to grow your own or to not grow at all—it should be left up to the individual.

We are going to remove all these people behind bars that are in the prison industry. We are going to eliminate the Drug War. We are going to celebrate the individual. We are going to enunciate the principles of America. That's what I am saying, and that is why I will keep running until the laws change. 🌿

For more information, visit gatewood.com or check out Galbraith's book, *The Last Free Man in America: Meets the Synthetic Subversion* (Outskirts Press 2004).

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Trans-High Market Quotations (THMQ) reports pot prices by the ounce, strain and location. To submit prices, go to the THMQ link at hightimes.com.

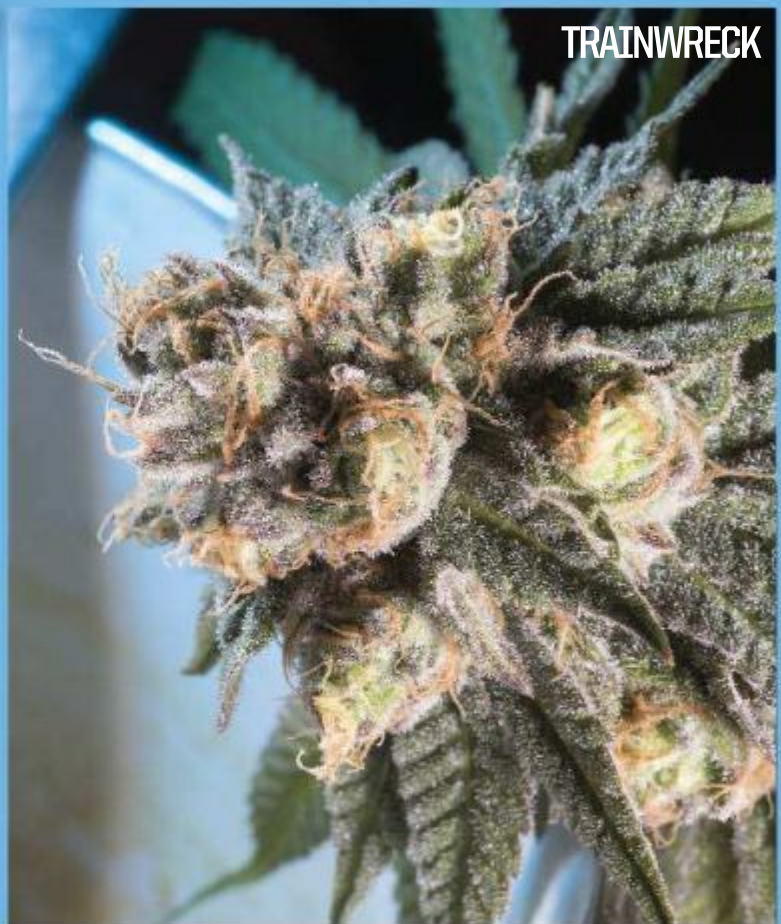
CURRENT US PRICE INDEX: **\$383** (last month: \$344; YTD: \$360)

CURRENT KIND INDEX (\$350+ PER OZ): **\$434** (\$405, \$427)

CURRENT MIDS INDEX (\$150-\$349 PER OZ): **\$286** (\$279, \$279)

CURRENT SCHWAG INDEX (\$1-\$149 PER OZ): **\$100** (\$110, \$97)

STATE	CITY	STRAIN	PRICE
ARIZONA	Tucson	Orange Kush	\$400
CALIFORNIA	Compton Redding Sacramento	OG Bubba Kush	\$350
		Silver Haze x Trainwreck	\$200
		Grape Ape	\$275
	San Diego	Sour Diesel	\$275
		Hindu Kush	\$400
TEMECULA	Belladonna	\$400	
	Clockwork Orange	\$550	
COLORADO	Craig Denver	Pure Power Plant	\$400
		Cheesel	\$300
		Super Lemon Haze	\$350
IDAHO	Boise	Bubblegum	\$300
		Hash Plant	\$350
ILLINOIS	Berwyn	Blackberry	\$425
IOWA	Sioux City	Trainwreck	\$375
		Super Silver Haze	\$375
LOUISIANA	New Orleans	Cheese	\$560
		Jack Herer	\$560
MAINE	Portland	Silver Haze Jack Herer	\$400 \$400
MARYLAND	Annapolis	Snow Cap	\$350
MASSACHUSETTS	Boston	NYC Diesel	\$400
MICHIGAN	Bay Harbor Detroit	White Widow	\$300
		LA Confidential	\$350
	Grand Rapids	Sour Diesel	\$500
		Chocolate Trip	\$300
		Chemo dog	\$300
Harbor Springs	Bubble Hash	\$800	
	Blueberry	\$350	
NEVADA	Reno	Purple Urkel	\$300
NEW HAMPSHIRE	Manchester	Sour Diesel	\$475
		OG Kush	\$350
NEW JERSEY	Mays Landing	Blue Dream	\$450
		Bubblegum Haze	\$450
NEW YORK	Rochester	Headband x Sour Diesel	\$350
		White Rhino	\$320
NORTH CAROLINA	Greensboro	Cream Kush	\$460
OKLAHOMA	Tulsa	C-99	\$400
PENNSYLVANIA	Bethlehem Pittsburgh	Sweet Tooth	\$600
		Blueberry	\$500
		Trainwreck	\$390
SOUTH CAROLINA	Charleston	Strawberry Cough	\$400
		Jack Herer	\$400
TENNESSEE	Nashville	Sour Diesel	\$440
UTAH	Salt Lake City	Mazar	\$300
INTERNATIONAL (prices in US or Canadian dollars or British pounds)			
ARGENTINA	Buenos Aires	Kong	\$230
CANADA	Kamloops London Toronto	Bubblegum	C\$200
		White Russian	C\$230
		OG Kush	C\$250
ENGLAND	London	Kong	£240

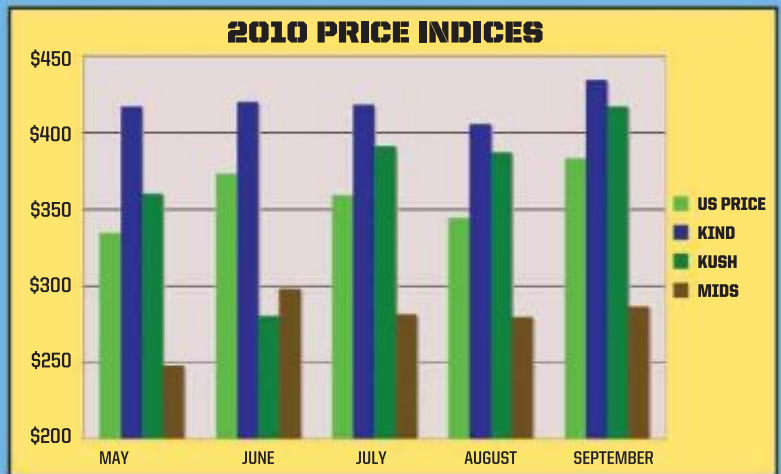


MARKET ANALYSIS

Once again Kush took the top spot, narrowly beating out Diesel and Purps in total submissions. However, while Diesel's average price dropped \$45 from August, Kush's average price shot up \$30 this month, and Purps essentially held steady (-\$10). The top five submitted strains for the month, with average price, were Kush (\$417), Diesel (\$413), Purps (\$361), Haze (\$363) and Trainwreck (\$329).

Index Watch: All indices finished above both their year-to-date and previous month's average, with the exception of the Schwag Index (-\$10). The US Price and Kind indices experienced the biggest increase from their previous month's average (US Price +\$39, Kind +\$29).

HIGH TIMES wants to know what you're smoking. Submit your strain information, including location and price by the ounce, to thmq@hightimes.com.



Kong - \$230
Buenos Aires, ARGENTINA
"It's a true beast—the second crop of Kong is even more lethal than the first! Big, dense calyxes with a very unique flavor and coated in fat resin heads that give you a truly mind-numbing stone."

Silver Haze x Trainwreck - \$200
Redding, CALIFORNIA
"A beautiful plant that grows large yields and loves the outdoor Northern California sun the best. The smoke gives you an energetic euphoria that soars higher and higher. The price reflects the flooded market ... even in dry times!"

Bubblegum - C\$200
Kamloops, CANADA
"Awesome. Very sweet-smelling, with the most sugary taste when smoked."

Pure Power Plant - \$400
Craig, COLORADO
"Grown indoors. It has a great smell and very potent high."

Trainwreck - \$390
Pittsburgh, PENNSYLVANIA
"Some of the densest and least-stringy Trainwreck I've ever seen—beautiful, crystal-caked nugs with lots of dark red hairs."

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Cool Tube	\$79.99
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Our bulbs are optimized for plant growth, with high lumens and a full-color spectrum output.

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		1000w	\$44.99

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6. Amber Valentine and Edgar Livengood.

JUCIFER RISING

Road warriors Jucifer have been blowing minds—and stacks—since 1993. Married couple G. Amber Valentine (guitar, vocals) and G. Edgar Livengood (drums) travel the country in their RV 365 days a year, delivering their trademark bone-crushing stoner garage-metal riffage through a towering wall of 14(!) cabinets. The band just released their fifth full-length album, *Throned in Blood*, on their very own brand-new imprint, Nomadic Fortress, and are also the subject of two forthcoming feature films, one by Derek Cianfrance (who directed Michelle Williams and Ryan Gosling in *Blue Valentine*) and the other by David Hall (director of *Maryland Deathfest: The Movie*). Before they departed to give Europe a taste of thunder, Valentine spoke with HIGH TIMES. By Polly Watson

Describe the first time you got high. It was [right at the end of] high school. My friend worked at a movie theater. We smoked with his mom—which blew my mind, as my household was *much* more conservative—and then got in his car for the short drive to the theater. I started feeling good about halfway there. I remember looking at myself in the car's side mirror, sticking my head out the window and seeing huge eyes and a pasted-on grin. I said to myself, "I have glass rabbit eyes!" I couldn't stop laughing. My friend had keys to the theater, and we went in—it was closed—and had a private screening of whatever was out at the time. I

don't even remember the movie—just the sensation of being high. We both passed out in our seats and woke up to a quiet theater and stiff necks.

How do you deal with having weed on tour?

We stopped touring with weed years and years ago. We're obviously a band, and we look like we'd have drugs, so we always get profiled. But the kindness of strangers ensures that we have access to it.

Do you find that some states are more forgiving than others when it comes to weed?

Definitely. States like California, where medical marijuana is legal, have really loosened up on non-medical use. It's shocking [to me] to see how nonchalant people are, having grown up in the Bible Belt, where it's still aggressively prosecuted.

As the daughter of a mom who has lupus and fibromyalgia, I get really upset about the states still forbidding medical use. Doctors are putting my mom on extremely dangerous, strongly addictive, nervous-system-depressive synthetic narcotics for pain, and she can't opt for something natural and more low-key? It's awful. There are so many people who would benefit from medical marijuana—not to mention the ludicrous concept that alcohol and cigarettes are okay, but pot is some kind of "gateway drug." Legalize it!

Let's talk about *Throned*. The record is about the folly of war. Your last release, *L'Autrichienne* (Relapse 2008), was also a concept album. What inspired you to start making albums focused on a central idea? We didn't let people in on it back in the day, but all of our records have been concept records. After years of people assuming the songs were au-

tobiographical, or random, we figured out we needed to start making the concepts known—not because we felt misunderstood, but because the songs have more emotional impact when the listener knows what they're about. I think it really makes a difference to know the basic topic, even if you don't care about lyrics. [Adhering to a concept is] also a great way to accommodate the kind of mood and sound shifts we like to put in an album sequence.

Live shows form the backbone of your considerable reputation. Do you feel that *Throned in Blood* captures the energy that Jucifer wields live?

We're happy with the album, [but] I think the songs will translate 100 percent more intense in person. It'd be a bummer if they didn't. We hope to always have something to offer in our shows that transcends what's on the album, because that's what we believe a live show should be. We want to give people a great record for their money—and when they've already bought the record and pay for the show, they deserve a whole extra return for that extra investment. ✨

Feed Your Plants Carbohydrates, L-Aminos And Vitamins,

And You Get Tastier, More Aromatic, Buds!

Seeing your roomful of huge flowers that smell like candy (maybe like the cotton candy at an amusement park), and then after harvest, savouring the fine taste, aroma and potency of huge amounts of potent, sweet-tasting flowers with your friends is what really makes you happy right?

The smiles on their faces, and them patting you on the back, that's what the good life is all about ... So, what can you do right now to grow the biggest harvests of the most potent, best-tasting flowers?



Start by Providing Flower-Boosting Energy When Your Plants Most Need It

Getting sweeter, bigger harvests is easy when you give your plants carbohydrates that jolt them with an energy boost.

Remember that during peak bloom cycle your plants' need for sugars exceeds their ability to manufacture them. The more you push them, the more CO₂ and nutrients you give them, the more they need carbs, and the more they fall behind. The resulting carb deficit is the same thing that happens when athletes collapse near the end of grueling competition. And it's why carb-loading is a cherished tactic athletes use to keep going strong for victory, when others fall and fail.



Sweeter Flowers Are Worth More

Sweeter flowers are yours when you boost your crop's taste, potency and aroma by furnishing anthocyanins, isoflavonoids, polyphenols, isoterpenes and tannins found in cranberry and grape extracts. Growers using these compounds report that a sudden bouquet of pleasant scent arises from their flowers within moments of the compounds being fed to plants in water ... and ... after harvest, you and your friends will enjoy the extra-sweet aroma and taste that your flowers provide (Plus, there'll be more flowers to enjoy too!).

Another technique for upgrading the aroma, taste and value of your crop is to feed vitamins to your plants. For example, Vitamin C stimulates photosynthesis and cell replication while also protecting your plants from negative effects of intense light and heat. To go along with Vitamin C, studies show that feeding your plants B vitamins provides many flower-boosting benefits while also protecting crops from stress.

So how can you get this extensive menu of crop-boosting compounds you've just found out about?

Fortunately, Advanced Nutrients scientists have successfully managed the complex task of sourcing, processing, and combining all these aminos, carbs, and vitamins into Bud Candy so you get bigger, sweeter buds right away.

Best of all, you're getting two products in one because Bud Candy gives you everything in Sweet Leaf and CarboLoad, but it also gives you a lot more in an easy to use formula. Whether your plants are in bloom phase right now, or you're preparing for bloom phase, this is the time to procure 100% organic Bud Candy and get cotton candy taste, fatter buds, and stronger plants.



Fast Facts

PRODUCT TYPE:

Bloom Booster, Taste/Aroma Enhancer, Plant Protector

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WHEN TO USE:

Bloom phase.

MIXING DIRECTIONS:

Use 2 mL per Liter during weeks 1 through 6 of your flowering phase.

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Advanced
Nutrients

Anton Newcombe (center, in denim jacket) and the ever-changing Brian Jonestown Massacre.



'First and foremost, it's still psychedelic music, and to me *psychedelic* doesn't mean "blotter art," it means "mind-expanding."

ANTON AT THE GATES OF DAWN

Brian Jonestown Massacre break on through to the other side of psychedelia. By John Payne

Like his band, the infamous Brian Jonestown Massacre, the even more infamous Anton Newcombe is one deeply misunderstood phenomenon—something that BJM's new album, *Who Killed Sgt. Pepper?*, will only push to more troubling extremes. Yet the crankily opinionated (in fact, wickedly witty) Newcombe—best known for his role in the documentary *Dig!*, which focused on the Brian Jonestown Massacre's falling-out with the Dandy Warhols—has good reasons for proclaiming that he's got the most important band on the planet.

Who Killed Sgt. Pepper? is a thoroughly mind-melting mélange of arcane world music and semi-blatant grabbings from the cheesy pop rock/R&B/funk of the past, all of it juxtaposed with the trademark gnarly punk/garage slams that the band have been mastering since their birth in 1994. But that's a fairly superficial way of describing such a mysteriously moving sound, for all of this pop detritus has been frappé'd in the Farberware of Newcombe's complex mind, and what's stewing out is an extraordinarily evocative and ambiguously gorgeous mess.

That "ambiguous" part is important, because most rock bands just don't deal in the in-between nebulosities of sound and word, generally preferring to conk you on the head with their populist anthems and fist-pumping calls for *action!*. But Newcombe's done with all that—now, he says, without a trace of pretension, is the time for making art.

"First and foremost," says Newcombe, "it's still psychedelic music, and to me *psychedelic* doesn't mean 'blotter art,' it means 'mind-expanding.' So there's a lot going on in my sort of silliness when I was setting out to do this. The first goal was trying to make movie music, like Giorgio Moroder back in *Midnight Express*, but something more shamanistic and dark or something. And really weird—I wanted to see how quickly I could scare the shit out of myself."

Who Killed Sgt. Pepper? is a beautifully baffling thing that sounds different every time you listen to it. Newcombe was curious about what he could do with the mythology of the Beatles' *Sgt. Pepper*, which he calls "a suffocating sort of iconoclasm." While you might hear a slight referential thing here and there—"Ring My Bell," "Rock With You" and "I Feel Love" wisp like ghosts through these tracks—for the most part, these references are turned completely inside-out. The only place where the musical cues sound kinda obvious is in "This Is the One Thing We Did Not Want to Have Happen," but here it's Joy Divi-

sion getting eviscerated. And that, Newcombe points out, was intentional.

"Sometimes I create questions for people," he says. "I have a beef with bands like Interpol or the Strokes: These people approach their art—or their commercialism—going, 'Wow, Wire! *Pink Flag!* It's a great record—I think I'll *live* it! I'm gonna *be* it!' And then you've got the media pushing that, to where you've got Interpol just whizzing as Joy Division Lite. So my joke was, 'Well, who's Joy Division? I'll rip it off Interpol.' I set up a booby trap. Today, everybody's best ideas become everybody else's ideas."

These days, the Brian Jonestown Massacre is a communal circle of like-minded weirdos that split their home somewhere between Iceland and Berlin, with the latter being where Newcombe got clean of his old vices and basically started afresh. It's a better life over there, apparently.

"It just seemed like a good time for me to sort of make the jump," he says. "Politically and culturally, the writing is on the wall. In Europe, you don't hear these people shouting each other down about socialism, whatever they're saying about Obama and all that crap. It's like you *know* a certain segment of the population is gonna stand up for human rights, education and all that stuff, and then you're gonna have public debate about militarism et cetera."

However, Newcombe does get homesick for California from time to time ... sort of.

"But that rat race?" he continues. "I just can't see it. There's no reason for it. It's like a series of bubbles: You've got your little bubble house, your bubble invitation to go to your bubble party to be with your bubble friends, and you go to this club or this restaurant and you stay in your car and you go to your job and your gym and your golf course, your street, your area of the beach ... so that's a life worth living? It's a joke."

Whereas, in olden times, Newcombe might have dealt with his varied frustrations by getting well and truly slammed, he now lives by choice as a clean machine tapping the magic serums of his own inspired head. But then, he also thinks that whether he's "clean" or not is his own damn business—as it should be for anyone who might prefer to do otherwise, such as peaceably puffing their pot pipe, for example.

"The government has no business dealing in that," he almost snarls, before adding with a laugh: "In fact, their business is law enforcement—and their business is getting that stuff on the side. It's just nuts that someone could get busted for dealing weed and not get busted for stealing banks!" ✦

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As the Liars pull out their medical-marijuana cards, Aaron observes that there are now more marijuana dispensaries than McDonald's inside LA's expansive borders.

The Liars speak the truth about marijuana. From left to right, Angus Andrew, Julian Gross and Aaron Hemphill.



LA VIDA MOTA

A perilous LA weed dispensary inspires the Liars' *Sisterworld*. By John Fortunato

Lanky Filipino-born Australian globetrotter Angus Andrew came to California after attending Vassar College in Poughkeepsie, NY, for a semester. While in Los Angeles, he met fellow prospective medical-marijuana cardholders Aaron Hemphill and Julian Gross and formed the Liars. In 2001, Angus and Aaron relocated to Brooklyn, and these post-punk experimentalists dropped their bombastic dance-punk debut, *They Threw Us All in a Trench and Stuck a Monument On Top*. Soon after, they crossed the Hudson River to dwell in New Jersey for their witchcraft-informed noise-rock follow-up, *They Were Wrong, So We Drowned*. From there, and with Julian in tow, they did a two-year stint in Berlin, culminating in their '06 conceptual labyrinth, *Drum's Not Dead*, followed by a neo-psychedelic '08 full-length simply titled *Liars*. (Stony fans should take note that each Liars album contains at least one ethereal track where the ambience comes from the sound of smoke going through a chamber.)

Now back in LA—where Angus just forsook his loft apartment within a perilous marijuana dispensary—the Liars return with the more song-oriented *Sisterworld*, a tragic epilogue exposing the seedier underside of his current adopted hometown.

"Aaron lives in Venice, and Julian's at the opposing north end in Highland Park. I was in Le Brea in between," Angus says. "I found a weed dispensary with an abandoned studio above. That seemed thumbs-up, but it was a beacon for crime. They have a security guy to show ID. I was close with him, buying a good amount of weed."

However, a few robbers murdered the security guard, and this experience, along with the way the cops dealt with the situation, tormented Angus.

"The cops cut off his clothes. He was naked in the street bleeding," Angus says. "When you're in a position as a writer, you're both inspired by the situation and disgusted by your reaction—being excited by seeing this horrible killing. But I had a lot of those scenarios going on around me, which was perfect for what I was looking for, but nothing I could hack for long."

The album's raging industrial-metal mantra, "Scarecrows on a Killer Slant," captures all the murderous, gun-wielding pandemonium that Angus observed that day. However, while he was dismayed by LA's myriad lawbreakers, Aaron and Julian seemed to take it more in stride.

Angus reflects: "Their perspective is different—it's a little more romantic. I felt it was 'shock and awe.' The experiences we had were the types of things that'd make you want to find some sister world that's completely undefined either physically or mentally, in terms of a place to reestablish yourself away from the constant barrage of influences we always feel—particularly in America, especially Los Angeles. Advertising is constantly coming at you. How do you get away from that to get a sense of what's important?"

Back at the dispensary, Angus once witnessed, on a security camera, an individual trying to use the "jaws of life" to break into the place. And if all that wasn't crazy enough, he soon had to cope with another ordeal.

"Eventually, these guys sledge-hammered through the wall to my studio one night. It was a good experience to get the visceral taste of the landscape," he recalls. "What interests me is the fantasy of LA. It's extremely different. *Sisterworld* explored areas that aren't spoken about: 90 percent of what's shot for movies in LA is done in about two percent of the city. Even geographically, the idea of LA is difficult to grasp. Downtown has many homeless shelters in this big sprawl. How do you achieve an identity in a place that's so loose and fluid? Whereas, in New York, it's not so much fantasy—it's the opposite."

Aaron chimes in: "There are very shady and badly operated dispensaries. There's one in Venice that has a locked-door holding area, and there's another one that looks like a boutique where nothing's written on the wall. It's all big jars—they take out tweezers and describe the pot. Some are old X-rated theaters. One looks like a fancy silk boutique where things are wrapped in an organic screen displayed like an ice-cream parlor."

As the Liars pull out their medical-marijuana cards, Aaron observes that there are now more marijuana dispensaries than McDonald's inside LA's expansive borders. Weirdly, Julian's prescribing doctor posed in a bikini for her business card.

"She was a real doctor," Julian affirms, "but she makes more money writing weed prescriptions than working 20-hour days five times a week for 30 grand. You can either pursue medicine at a hospital or sell marijuana."

Though the Liars maintain that the marijuana quality at the dispensaries is fine, Angus has a few doubts concerning legalization. "The idea of legalization, I'm happy about," he elucidates. "But it's not easy to pull off, realistically or logistically." ✨

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WHITE LINE FEVER

MICK FARREN

Speed-Speed-Speedfreak
(Feral House)



In the '60s, the warning "SPEED KILLS!" could be found everywhere from bathroom walls to public-service radio spots by the likes of Frank Zappa. While speed can indeed kill, the claim has also been made about cannabis, so its credibility has always been an issue.

Mick Farren is one of the leading lights of underground culture—the author of 40 books, the frontman for proto-punk band the Deviants, and an all-around shit-stirring troublemaker. In his new book, subtitled *A Fast History of Amphetamine*, Farren doesn't whitewash speed's gnarly effects, but he does tell the truth so that people can make informed decisions separate from the influence of Drug War propaganda. A former devotee of crank himself, Farren knows whereof he speaks, chronicling the rise of the sleep-robbing chemical from its initial synthesis as amphetamine in 1887. As with other drugs, its use was encouraged—even mandated—by those in power when it suited their purposes: Militaries from the Nazi *Wehrmacht* in World War II to the US forces in Iraq have popped uppers when



The Deviants (L to R) Sandy Sanderson, Mick Farren, Russell Hunter & Paul Rudolph

needed or ordered to (in the latter case, at the same time that George W. Bush was proclaiming National Methamphetamine Awareness Day. Such is the schizophrenic nature of drug policy).

The author examines disparate personalities from Adolf Hitler to Elvis, Hunter Thompson to JFK, Hank Williams to Judy Garland—all of them speed freaks. Despite speed's debilitating burnout, people can get a lot done while using it, and, as Farren points out, it was the perfect drug for '50s America and its mindless work ethic. That it also fueled Jack Kerouac—and thereby kicked off the Beat movement and influenced every counterculture since then—is just one of

life's little ironies. And from the Hells Angels to the Mexican mafia, the demand for illegal speed has been a boon to black markets.

The book is cleverly formatted in the shape of an amphetamine capsule and is chock-full of Farrenisms (referring to Hitler at his most tweaked, Farren describes him as "high as a swastika-decorated kite"). The author and his publisher, Feral House (legendary for their controversial tomes), have provided a sometimes fun, sometimes scary, always fascinating look at one of the most popular items in the recreational pharmacopoeia. Speed may indeed kill, but its history teaches us a lot about human nature.—Michael Simmons

ROKY ERICKSON

Love Cast Out All Evil
(Anti)



Austin native Roky Erickson inspired the entire San Francisco psychedelic scene and many lo-fi garage-rock acts when his early group, the 13th Floor Elevators, scored a national hit with their howling '66 smash, "You're Gonna Miss Me." Arrested for possession of one measly joint in 1969, Erickson has spent the rest of his life reeling from the outcome. After pleading insanity for marijuana possession, he was committed to Rusk Hospital for the Criminally Insane and received shock treatment in the '70s. Suffering from mental illness and convinced he was an alien, Erickson became a toothless, hoarding recluse, yet still managed to cut such cult classics as "I Walk With a Zombie" and "Don't Shake Me Lucifer" despite his disturbingly misanthropic behavior.

Recorded with folk-edged indie rockers Okkervil River, *Love Cast Out All Evil* serves as a resounding testament to Erickson's curious compositional ability. A solemn autumnal reclamation, its deep-rooted, soul-baring religiosity stands in direct contrast to his earlier demonic bedevilment. The sentimental orchestral madrigal "Be and Bring Me Home," the balladic lullaby "Forever," and forlorn plaint "Please Judge" all expose a genuine confessional melancholia previously unseen in Erickson's work. On the other hand, the hard-driving, piano-pounding mantra "John Lawman" and the beat-heavy country-punk rampage "Bring Back the Past" have the same full-blown intensity as the schizoid guru's finest garage-psych missives. Remarkably, this engaging set contains his most demurely earnest, easily approachable and consistently rewarding batch of tunes. Fans who crave more are also directed to Erickson's career-spanning compilation, *I Have Always Been Here Before*.—John Fortunato



KATIE ARNOLDI

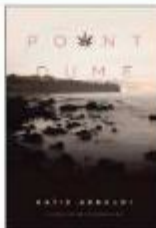
Point Dume
(The Overlook Press)



In her latest novel, *Point Dume*, Katie Arnoldi deftly offers a vivid, unflinching and entertaining look into the lives of various Southern California denizens.

Easily the two most interesting characters in the book have lives that revolve around marijuana. The first is Pablo, a rough-around-the-edges young man who lives in a camper and makes a living by skimming and selling buds off the plants growing in the mountains he calls home. The voice that begins the book, Pablo is an easygoing, likeable slacker, prone to discussing the differing types of camouflage clothing he wears while riding his bike around the back trails searching out gardens. The other is Felix, an impoverished Mexican who agrees to be smuggled across the border into the US to watch over one of those cartel plantations for what is, to him, an unheard-of sum of cash. Unused to the solitude and loneliness of hiding out in the woods for an entire planting season, Felix goes a bit bonkers. He begins to build an entire menagerie of animals from sticks, at first to pass the time, then gradually treating the animals as though they're not just alive, but family. Felix goes so far as to supply both sides of their conversations—some of which Pablo overhears as he's on his rounds, inspecting the fields and gardens he plans to raid at the end of the season.

A somewhat sad twist comes at the end, but otherwise, this book is funny and heartwarming, and many of the situations will be familiar to readers of HIGH TIMES.—Preston Peet



Gold: Before Woodstock, Beyond Reality

Directed by Bill Desloge and Bob Levis
(MVD Entertainment Group)



In 1968, "organizers" (not "directors") Bill Desloge and Bob Levis shot this hellzapoppin' satirical hippie western starring Garry Goodrow as Captain Jinks, a cop determined to bust a commune for lewdness, and Del Close as Hawk, an inept revolutionary who comes to the aid of the communards. Goodrow and Close are underground-comedy legends, members of The Committee, the San Francisco acting troupe known for its brilliant antiestablishment humor. (Close was also a veteran of Chicago's improvisational theater Second City and a mentor to John Belushi and Bill Murray, among many others.)

There's topical social commentary here (for instance, Jinks's murder of a longhair is intercut with images of the Kennedy and King assassinations), as well as rampant carefree nudity from both sexes. And no freak flick would be complete without music: We see Ramblin' Jack Elliott surrounded by a gaggle of hippie chicks who have neglected to put their clothes on (Elliott looks delighted), and we hear the MC5 on the soundtrack (their late-period manager, pirate-radio king Ronan O'Rahilly, executive-produced). With the exception of a vague reference to a gold rush at the beginning of the film, the most obvious gold here is the kind from Acapulco that the cast smokes throughout (the crew audibly giggles off-camera). It's hardly Fellini, or even a classic period piece like, say, Robert Downey Sr.'s *Greaser Palace*, but *Gold* does accurately capture the authentic sense of tribe that any veteran of that era can attest to.—Michael Simmons

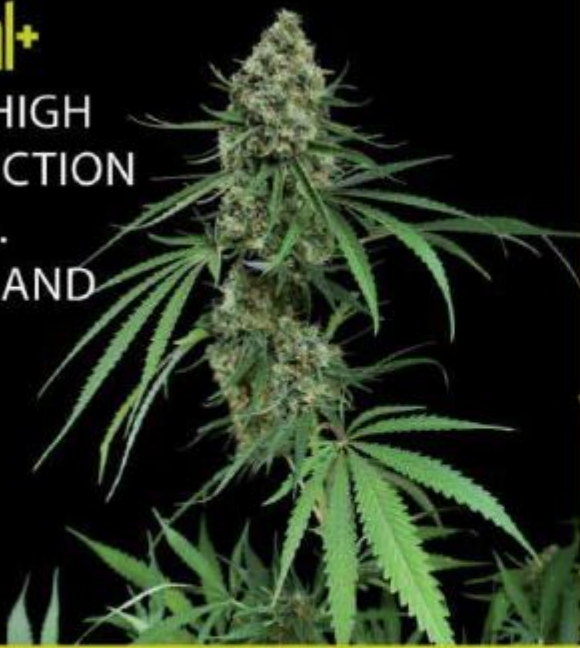


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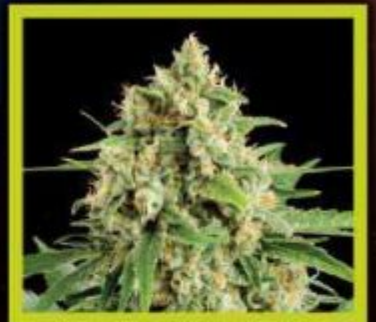
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INDICA.
SWEET AND
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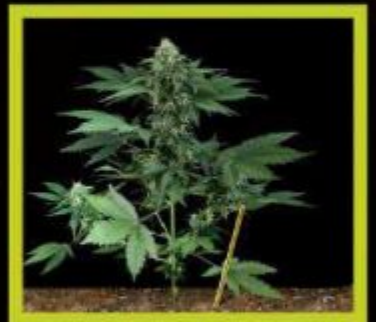
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MEMORIES OF JACK

The legacy of Jack Herer is tinged with moments of humor and triumph.

By Paul Krassner

In 1973, “Captain” Ed Adair, Jack’s partner in the marketing of countercultural items, insisted that they take a joint oath: “We swear by our life, and our love for it, that we will work every day of our lives, all day, all night, to legalize pot—until we’re dead, or it’s legal, or we can quit when we’ve turned 84.”

In 1980, they began a series of protests on the front lawn of the Los Angeles Federal Building that would last for as many as 100 days at a time. The demonstrators would feed and provide clothes and portable bathrooms for volunteers attempting to get legalization initiatives onto the local and state ballots. On the flagpole, they even hung a huge marijuana-leaf banner right beneath the American flag.

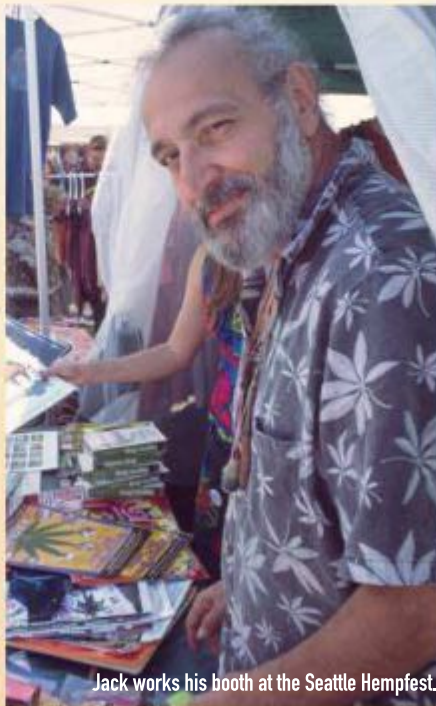
One morning in January of 1981, President-elect Ronald Reagan came to LA.

It was five days before his inauguration, and he needed a haircut from his favorite barber. With his entourage of Secret Service agents, Reagan visited the Federal Building. “You’re doing a fine job,” he told the manager, “and I want you to know that you can bring any of your problems to us. Incidentally, why are those Canadians on the lawn?” Reagan had mistaken the five-pointed hemp leaf for the maple leaf featured on the Canadian flag.

“They’re not Canadians,” the building manager explained. “Those are the marijuana protesters, and they live down there 24 hours a day.”

“Well,” said Reagan, “I’ll be on the job in a few days, and I’ll see what I can do for you.”

A week later, after only two days in power, the Reagan administration renewed a World War II-era anti-sabotage act, which had originally been passed in 1943 as a wartime measure to prohibit anyone, such as saboteurs, from being on federal property after regular business hours. As a result, Jack and five others were arrested for registering voters on federal property after dark. But Jack refused to accept a year of unsupervised probation and pay the maximum fine of \$5 (the original amount specified in the law, which had been re-enacted so hastily that federal authorities



Jack works his booth at the Seattle Hempfest.

‘We swear by our life, and our love for it, that we will work every day of our lives, all day, all night, to legalize pot.’

neglected to adjust it for inflation). He was sentenced to 14 days in jail.

“It was the best thing that ever happened to me,” Jack once told me. “I had never been given the opportunity to write so clearly and without interruption.”

In his dreary cell, Jack composed an outline for *The Emperor Wears No Clothes: The Secret History of Hemp and the Conspiracy Against Marijuana*. Self-published and without major distributors, wholesalers, advertising or reviews, the book became an underground classic—never officially recognized as a best-seller, though it has sold over 700,000 copies.

My favorite anecdote about Jack comes from another outspoken visionary, Gatewood Galbraith, who’ll be running

for governor of Kentucky next year.

“When Bill Bennett was named the Drug Czar,” Galbraith recalls, “he held a news conference at the National Press Club. So Jack and I rented the room next to them, and he gave an anti-Drug Czar talk. Jack wore a three-piece pinstripe suit—the first time he had a suit on in 30 years. He looked like a heavyweight Phineas T. Freak Brother, and he was so funny. He said, ‘Gatewood, this is a national news conference, and I have a very serious question.’ I said, ‘What’s that, Jack?’ And he said, ‘Should I take three hits of acid, or six?’ So I said, ‘Suit yourself.’ He said, ‘Okay, six.’ He took six, and he went up there and gave a brilliant performance.”

In 1994, at the Seventh Annual Cannabis Cup, a new strain of marijuana, four years in development, was christened “Jack Herer.” Jack mused: “Long after I’ve died, people will be smoking Jack Herer.” It may not have been that particular brand, but the mourners at his funeral were sure smoking something. 🌿

The full story behind Krassner losing his mind is included in the expanded edition of his autobiography, *Confessions of a Raving, Unconfined Nut: Misadventures in the Counterculture*, available at paulkrassner.com.

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HIGH TIMES UNSIGNED BAND OF THE MONTH
SHRUB

The Midwest has long been a hotbed of successful hip-hop artists, but Shrub's eclectic fusion of rap, reggae and rock brings a whole new flavor to the scene.

Shrub's debut EP, *Señorita*, is quickly setting this Columbus, OH-based band apart from the pack. From the ganja-induced club anthem "We Wanna Smoke," to the dancehall banger "Come and Get It," to the much more emotional "Cherries," Shrub has tapped into a unique and raw sound all their own.

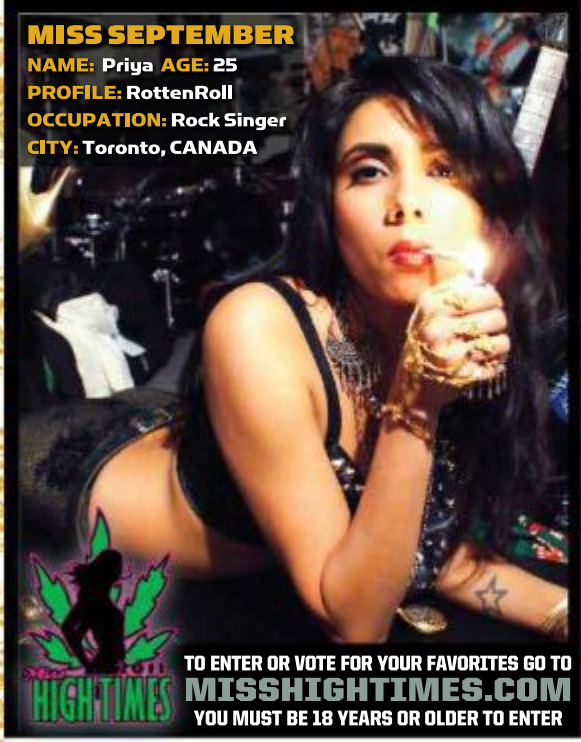
The EP features guest appearances by DJ Rasta Root (current DJ for Phife Dawg of A Tribe Called Quest and Chip Fu of the Fu-Schnickens), Lyrical (artist/producer for Myrical Records) and Jenny Flory (singer/songwriter from the Wonder Twin Powers). Additionally, Opie Ortiz (from the Long Beach Dub Allstars) created the sick album artwork.

Most recently, Shrub has been working with award-winning dub-reggae producer Dubmatix on a tripped-out, three-song remix companion album to *Señorita*. Both *Señorita* and the Dubmatix remixes are available through iTunes, Amazon.com and CDBaby.com.

For more information on Shrub, including tour dates and audio samples, check out hightimes.com/shrub.

MISS SEPTEMBER

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PROFILE: RottenRoll
OCCUPATION: Rock Singer
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DO MY WORK HIGH

Jersey rockers Cycle of Pain take home the Doobie for Pot Song of the Year.

While in the midst of putting together my "CoffeeShop Confidential" video last summer, I got an email from the good folks over at Adrenaline PR about some new metal band they were promoting called Cycle of Pain—a side project of Black Label Society bassist J.D. DeServios. Each song on their self-titled debut (Reform Records) featured a different guest performer, such as Korn's Ray Luzier, Fear Factory's Burton C. Bell, P-Funk's Clip Payne and many others.



Cycle of Pain bassist J.D. DeServios and singer Greg Locascio.

There was one particular track, however, that the publicity people were most eager to bring to my attention—a cannabinoid collaboration with Black Label (and former Ozzy) guitarist Zakk Wylde and Cypress Hill's Sen Dog entitled "Do My Work High."

With lyrics like "Break time come, I roll up another / Do it big like I'm on the fuckin' HIGH TIMES cover," this was definitely a song I could identify with. In fact, I liked it so much that I decided not only to use it in my potcast, but also to host a listening party for the band. So a few weeks later, the group and I met up at Rye Bar in Bayonne, NJ, where we played their album for a group of fans, then blazed a few bowls around the corner before sitting down for a live interview.

"The first time I got high, I was like nine years old," DeServios confessed. "We went to my brother's house, and I stole a big roach from his ashtray. It was mostly paper, but I got three hits from it and held it in really good, and I got fuckin' wasted. I remember feeling like I was in a movie ... we were running through the woods, and I felt like I was in *Starsky & Hutch* and shit."

When asked what activities he most enjoys with weed, DeServios made it pretty clear that he's an all-of-the-above kind of guy. "I was in a cover band once, and one day I was smoking, and one of the guys in the band was like, 'Dude, I didn't know you got high.' And I said, 'Dude, I've been high ever since you met me!'"

"Speaking of which," I asked, "tell us the inspiration behind the song 'Do My Work High.'"

"Greg [Locascio, vocals] got fired from his job for doing his work high!" DeServios laughed. "He was a cab driver, and he was on a break around the corner smoking in the cab, and somebody called a cop on him, and they came and busted him for doing his work high!"

Locascio picked it up from there: "So I was out of work, I was home a lot, and I just



started jamming on this riff. The lyrics were pretty much true to where I was at during that time. I was stressing out about a lot of things, and herb is always a good solution for that."

When Locascio played the song for J.D., he loved it immediately.

"He said, 'Man, this would be so perfect if we could get B-Real or Sen Dog to do a little rap on this,'" Locascio continued, "because it really captures that Cypress feel.'" Luckily, DeServios was in a position to make that happen.

"Back in 2006, I was in LA recording with Black Label, and Sen Dog happened to

be across the hall from us recording with his rock band SX-10," he explains. "Apparently, Slash was supposed to come in and do a guitar solo on one of his tunes, but he never showed up. So I said, 'Dude—Zakk's right across the hall, man ... he'll blast a solo for you if you want!' Zakk came and did the solo, and it was totally awesome. After that, Sen said to me, 'If you ever need a favor, you got it.' So one night when we were hanging out at the Rainbow, I asked him if he'd rap on a tune for me, and he said, 'No problem.' Sen is a beautiful guy—he was very accommodating. And obviously Zakk is my brother, so he was good enough to jam a solo on it for us. That's how the whole tune came together, and it ended up being perfect."

Perfect, indeed—with its catchy chorus, relatable rhymes, and synergistic synthesis of rap and metal, "Do My Work High" is destined to become one of the all-time great stoner anthems—one that we were proud to announce as our Pot Song of the Year at the Doobie Awards this March (see story on next page).

"This is such an honor," J.D. gushed as he admired their tokable new trophy, "because this song isn't just some shit we made up—we really fuckin' live it!"

You and me both, brother. ✨

For a free download of "Do My Work High" just scan here! Check out more from Cycle of Pain on MySpace or at cycleofpain.net.

Get the free mobile app at <http://gettag.mobi>

Sweet Seeds



Best Seeds Bank
Expocannabis 2007



Best Seeds Bank
Spannabis 2008



Autoflowering

A feminised automatic strain of high stature. We have selected this particular one, which can reach a height of 1-1,5 metres, in order to answer our customers demand for a taller automatic strain. Growing it outdoors with plenty of sunlight, it can reach 2 metres in height. Good production of compact and resinous buds. A fruity taste with a Skunk touch.

(Big Devil)

Autoflowering: 100%. Indoor Blooming: 6 weeks.
Indoor/Outdoor Harvest: 9 weeks from the germination. Height: 1-2 m.
3s. \$32,98
5s. \$54,50 / 10s. \$109

Autoflowering

Our most recent and fastest autoflowering strain. Excellent production with big buds covered by abundant and aromatic resins. These plants can reach heights of 40-90 cm. Strong effect and sweet taste with exotic tones inherited from its Diesel ancestry.

Fast Bud

Autoflowering: 100%. Indoor blooming: 5 weeks.
Indoor/Outdoor Harvest: 7 and half weeks from germination. Height: 40 - 90 cm.
3s. \$21,50
6s. \$43,02 / 10s. \$86,04

Autoflowering

Automatic feminised variety. The beginning of its flowering does not depend on season or photoperiod; therefore it can be grown all year round. Extremely fast flowering, it's height does not exceed 80 cm. Sweet aroma, hints of cheese and yeast.

Speed Devil

Autoflowering: 100%. Indoor Blooming: 5 weeks.
Indoor/Outdoor Harvest: 8 weeks from the germination. Height: 40 - 80 cm.
3s. \$37,28
5s. \$58,80 / 10s. \$117,6

Sweet Cheese

New

It's a fusion between two high-grade strains, Cheese x Black Jack. The genetics highlight the virtues of its ancestors, giving a new twist to the aromas and flavour of the Black Jack. It produces long central buds surrounded by plenty of peripheral buds that are also long and of good quality. Its high productivity added to a new and revolutionary flavour - a slight taste of mature cheese and spice - makes Sweet Cheese a recommended option for those who seek new flavours and aromas. Regarding the effects, it is important to remember that we're dealing with a mix of two of the big hitters in cannabis genetics. Its effect is strong and long lasting, inducing euphoria and a feeling of relaxation.



Indica/Sativa: 30%-70%.
Indoor Blooming: 9 weeks.
Outdoor Harvest: Mid-late October.

3 seeds \$41,59 / 5 seeds \$70,28 / 10 seeds \$142,01

Snow Fruit

New

Sweet Seeds present the abominable plant of the snow! It has predominantly indica genetics that, in our opinion, have rarely been seen before. This strain has an exaggerated development of the lateral branches. Because of this just one plant can occupy an extensive area of cultivation and produce a huge harvest on its own. It produces succulent and compact buds thanks to its long calyxes. While it blooms it exhibits a charming range of colours in its foliage, with shades of green, magenta, red, and purple... It also develops a big mantle of trichomes in the flowering bunch and throughout its foliage during this phase. It's a strong strain, with a very short internodal distance and strong stalks that help it to resist the windy conditions of outdoor growing. While fresh, its aroma is reminiscent of a mix of mint and fruits of the forest, with a slight flavour of toasted almonds and humus. Its effects are very strong and relaxing due to its high percentage of THC and CBD. This is a strain of high medicinal quality.



Indica/Sativa: 90%-10%.
Indoor Blooming: 8 weeks.
Outdoor Harvest: End of September.

3 seeds \$35,85 / 5 seeds \$60,24 / 10 seeds \$114,75

Double White

New

This is the result of crossing two elite clones selected around the year 2000, White Widow and Great White Shark, which are the two most appreciated and famous of the White family. Genetics characteristics include easy growth, strong effect, extraordinary taste and high production of trichome covered buds. In short, this is a plant with which it is easy to get good results. It's a vigorous and strong plant, with short internodes and a very resistant structure. This allows easy control of its growth during which the blooming of the buds join together to form a long tail. Its aroma is very pleasant and powerful, with slight tastes of sweet and sour, fresh and floral. The effect is also strong and typical of the indica-sativa hybrids.



Indica/Sativa: 60%-40%.
Indoor Blooming: 9 weeks.
Outdoor Harvest: Mid-late October.

3 seeds \$28,68 / 5 seeds \$50,19 / 10 seeds \$100,38

Cream Caramel

Cocktail of our best indicas, Blue Black x Maple Leaf Indica x White Rhino. Sweet and caramelized taste. Relaxing and antidepressant.



Indica/Sativa: 90%-10%.
Indoor Blooming: 8-9 weeks.
Outdoor Harvest: End of September, beginning of October.
3s. \$28,68 / 5s. \$50,19 / 10s. \$100,38



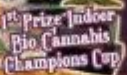
S.A.D. S-1

Sweet Afgani Delicious



Self-pollination of one of our strongest and most aromatic mothers. Afghan genetic, with a strong sweet aroma.

Indica/Sativa: 90%-10%.
Indoor Blooming: 8-9 weeks.
Outdoor Harvest: End of September.
3s. \$21,50 / 5s. \$43,02 / 10s. \$86,04



Black Jack

One of our most powerful and productive hybrids, Black Domina x Jack Herer. Intense incensed Haze aroma. Very strong hybrid.



Indica/Sativa: 50%-50%.
Indoor Blooming: 9 weeks.
Outdoor Harvest: Beginning of October.
3s. \$27,24 / 5s. \$48,76 / 10s. \$97,52



Jack 47

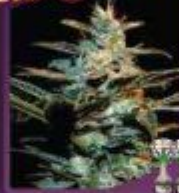
Hybrid between the two most powerful varieties of all time, Jack Herer x AK 47. Very high production with a very intense effect. Excellent force, the plant produces big buds full of resins. Sweet and incensed aroma.



Indica/Sativa: 25%-75%.
Indoor Blooming: 9 and a half weeks.
Outdoor Harvest: End of October.
3s. \$43,02 / 5s. \$71,71 / 10s. \$143,42

Ice Cool

Developed starting from a NYC Diesel line, powerful with high production with a particular and strong blue cypress tone and exotic smell. Indica's plant structure with a strong euphoric effect that shows the presence of sativa in its genetic heritage.



Indica/Sativa: 40%-60%.
Indoor Blooming: 9 weeks.
Outdoor Harvest: End of September.
3s. \$47,33 / 5s. \$88,84 / 10s. \$137,68

Green Poison

Hybrid variety principally indica with very high production. Excellent taste and aroma. Thanks to its quick flowering, it anticipates fungal attacks. Flowery and fruity taste.



Indica/Sativa: 70%-30%.
Indoor Blooming: 7 weeks.
Outdoor Harvest: Mid to late September.
3s. \$32,98 / 5s. \$54,50 / 10s. \$109

Sweet Tai

Súper Tai x Early Skunk
Indica/Sativa: 30%-70%.
Indoor Blooming: 9 weeks.
Outdoor Harvest: End of September, Beginning of October.
3s. \$21,50 / 5s. \$43,02 / 10s. \$86,04

Wild Rose

Rosetta Stone x HOG
Indica/Sativa: 35%-65%.
Indoor Blooming: 9 weeks.
Outdoor Harvest: Mid to late of October.
3s. \$28,68 / 5s. \$50,19 / 10s. \$100,38

Mohan Ram

White Widow x S.A.D. S1
Indica/Sativa: 85%-15%.
Indoor Blooming: 8 weeks.
Outdoor Harvest: End of September.
3s. \$28,68 / 5s. \$50,19 / 10s. \$100,38

Psicodelicia

U.S.' Clone x Nepal's Plant
Indica/Sativa: 30%-70%.
Indoor Blooming: 8-9 weeks.
Outdoor Harvest: End of September, Beginning of October.
3s. \$25,81 / 5s. \$47,33 / 10s. \$94,66

Ganesh Spirit

Sativa clone from Northern India's mountains
Indica/Sativa: 40%-60%.
Indoor Blooming: 8 weeks.
Outdoor Harvest: Beginning-mid October.
3s. \$28,68 / 5s. \$50,19 / 10s. \$100,38

Flash Back #2

FLO x White Widow
Indica/Sativa: 40%-60%.
Indoor Blooming: 8-9 weeks.
Outdoor Harvest: End of September, Beginning of October.
3s. \$24,37 / 5s. \$45,89 / 10s. \$91,78

Botafumeiros

Asian ancestry and Haze
Indica/Sativa: 25%-75%.
Indoor Blooming: 10 weeks.
Outdoor Harvest: Mid to late October.
3s. \$35,65 / 5s. \$67,37 / 10s. \$114,74

Collector Edition Pack

C.Pack #1
6 seeds properly labeled
S.A.D. Black Jack
Psicodelicia
\$65,93

C.Pack #2
6 seeds properly labeled
Cream Caramel Ice Cool
Sweet Tai
\$68,84

C.Pack #3
6 seeds properly labeled
Mohan Ram Flash Back #2
Double White
\$64,50

C.Pack #4
6 seeds properly labeled
Jack 47 Wild Rose
Green Poison
\$74,58

Autoflowering C.Pack #1
6 seeds properly labeled
Big Devil Fast Bud
Speed Devil
\$65,97

www.sweetseeds.es

Please Note!

Sweet Seeds does not send seeds to the USA. For more Info Contact: The Attitude Seedbank at 0044 1473 7246 98 / 011 44 1473 7246 98 or The Single Seed Centre at www.worldwide-marijuana-seeds.com

C/ Nicasio Benlloch 36-39- 46015 - Valencia (España) - Tel: (+34) 963 890 403 - Fax: (+34) 962 055 855 - mail: info@sweetseeds.es

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THE 2010 DOOBIE

CELEBRATING THE

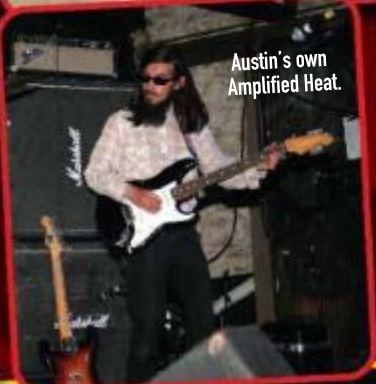
Once again this spring, HIGH TIMES headed down to Austin, TX, to throw our Eighth Annual Doobie Awards party at the SXSW music conference. From high noon till sundown on Sunday, March 21, we blazed down the world-famous Emo's club with seven bands, six-foot vapor bags, and six hours of sunshine and free Heineken. This year's performers were blues babe Amyjo Savannah, Cali desert rockers House of Broken Promises, Austin's own Amplified Heat and Dixiewitch, Boston power-pop group Prospect Hill, Maryland reggae riffsters Lionize, and Sin City hemp-hop stars Los Marijuananos. The presenters included HT's own managing editor Natasha Lewin and Temple Dragon Jet Baker, P-Funker Kim Manning, Kobjusters Barry and



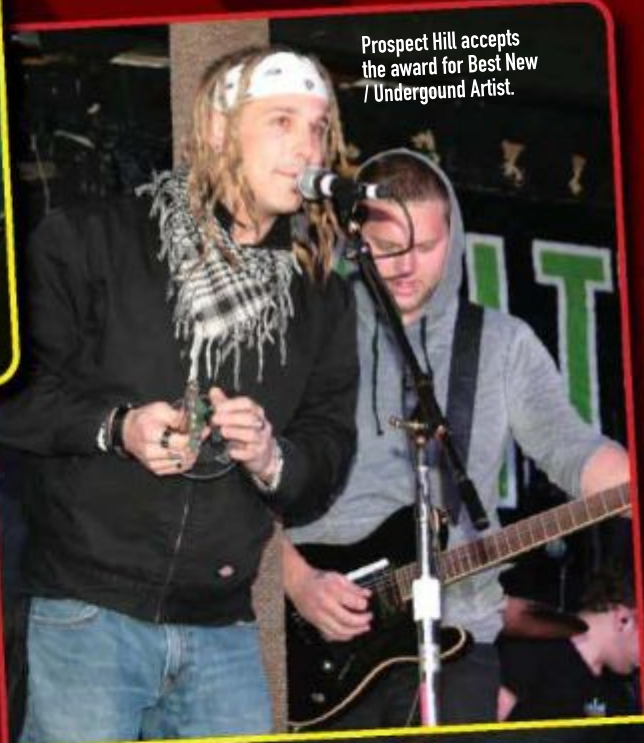
Best Stoner Rock winners House of Broken Promises get brutal for the camera.



Trinidad of Dixiewitch, winner of Best Local Band award.



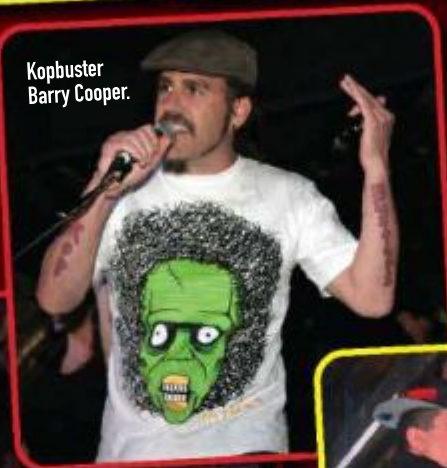
Austin's own Amplified Heat.



Prospect Hill accepts the award for Best New / Underground Artist.



Lionize singer / guitarist Nate Bergman.



Kobjuster Barry Cooper.



P-Funk's Kim Manning and Candi Cooper present for Best Jam Band.



4:20!!!

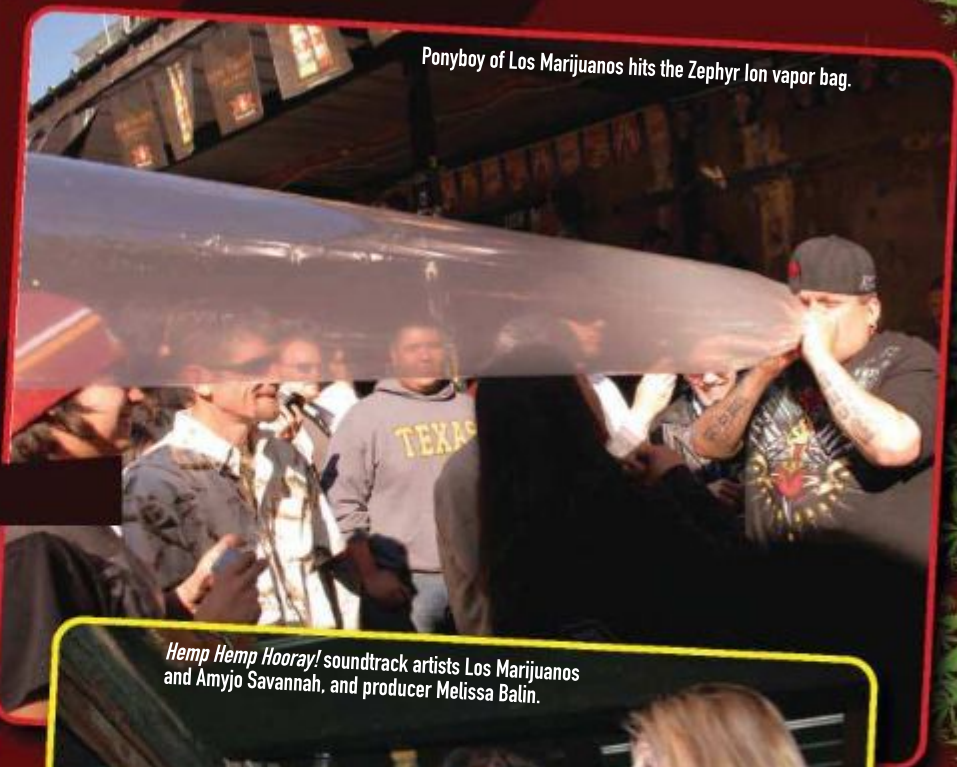
AWARDS

YEAR'S HIGHEST MUSIC

BY BOBBY BLACK

Candi Cooper, as well as local activists from Austin NORML, Texas Cannabis Crusade and Outgrow Big Bro.

In addition to awarding 10 of our fabulous, fully functional glass trophies (created by the diabolical Dr. Bobalicious from Las Vegas), we also announced the results of our Third Annual Cowboy Cup (see the sidebar next page) and the *Hemp Hemp Hooray!* soundtrack contest. This online music competition was organized by Melissa Balin, director of the documentary film *Jack Herer's The Emperor Wears No Clothes*, who was on hand to represent. The lucky winners (Benedict Arnold & The Traitors, Northern Lights, Superbitch, Ben Scales and Roland A. Duby) will now have their songs appear alongside Savannah, Los Marijuanos and DJ Dre Ghost on the CD of music from and inspired by the film. **CONTINUED ON NEXT PAGE**



Ponyboy of Los Marijuanos hits the Zephyr Ion vapor bag.



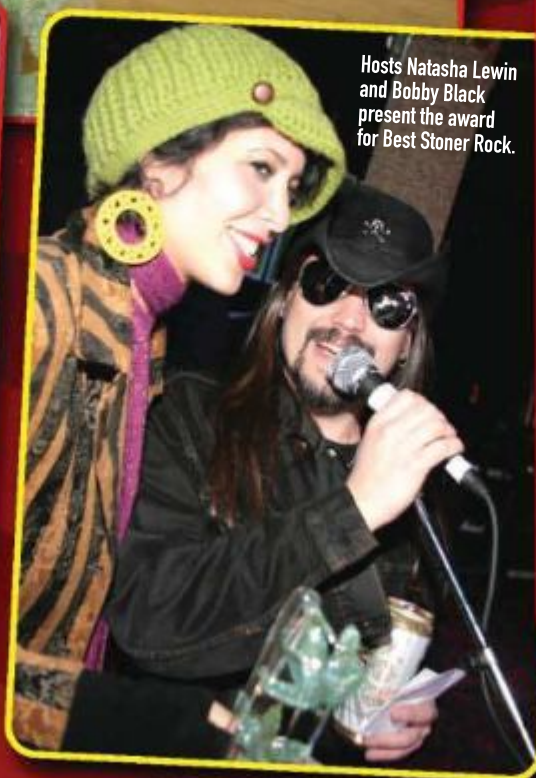
Hemp Hemp Hooray! soundtrack artists Los Marijuanos and Amyjo Savannah, and producer Melissa Balin.



The 2010 Doobie Award trophies, created by Las Vegas glass blower Dr. Bobalicious.



Dr. Bobalicious (left) shows off his wares.



Hosts Natasha Lewin and Bobby Black present the award for Best Stoner Rock.

2010 DOOBIE AWARD WINNERS

BEST JAM BAND ARTIST
GOV'T MULE

BEST REGGAE/SOUL ARTIST
LIONIZE

BEST HIP-HOP ARTIST
METHOD & RED

BEST METAL ARTIST
SLAYER

BEST ALTERNATIVE ROCK ARTIST
ALICE IN CHAINS

BEST STONER ROCK ARTIST
HOUSE OF BROKEN PROMISES

BEST NEW/UNDERGROUND ARTIST
PROSPECT HILL

BEST LOCAL ARTIST
DIXIEWITCH

POT SONG OF THE YEAR
"DO MY WORK HIGH"
CYCLE OF PAIN (FEATURING
SEN DOG & ZAKK WYLDE)

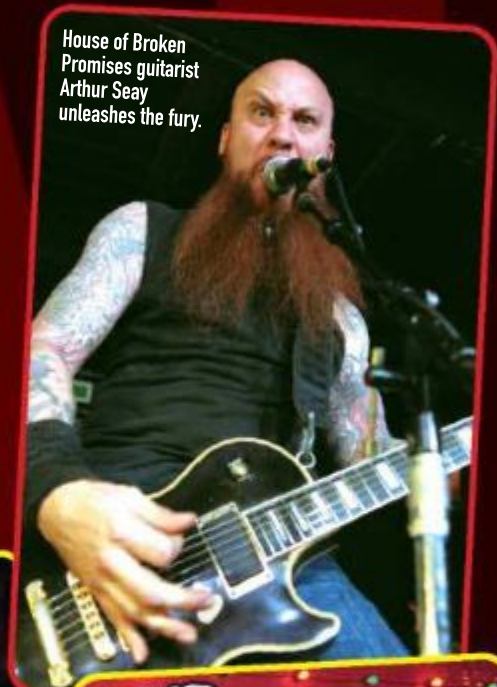
LIFETIME ACHIEVEMENT AWARD
CYPRESS HILL

CHRIS EUDALEY (7); MISS SHELIA (6)

THE 2010 DOOBIE AWARDS

A huge, Texas-sized thank you to the staff of Emo's and all of our sponsors: Zephyr Vaporizers (for keeping their long bag filled all day), 420 Science (for making the custom stash jars), 420 Exchange (for making the custom stash jars), Bambú (for supplying a case of rolling papers and cool merch), 420 Exchange (for making the official Doobies T-shirts), Apothecary Genetics (for flying in Los Marijuanos), and Northwest Holistics (for supplying the ... well, let's just call it *good cheer*). See y'all next year!

Order your official 2010 Doobies stash jar at 420science.com and T-shirt at myspace.com/getyour420. For a list of this year's nominees, photos, videos and more, go to hightimes.com/tags/doobies and myspace.com/htdoobieawards.



House of Broken Promises guitarist Arthur Seay unleashes the fury.



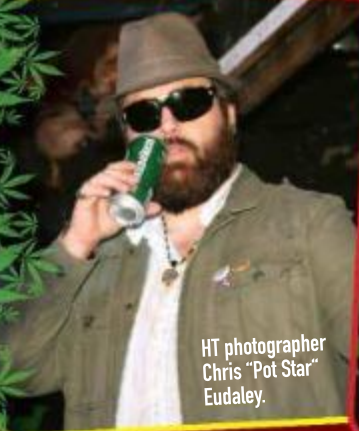
The lovely ladies of Outgrow Big Bro show off their Doobies stash jars.



Sponsors 420 Exchange wearing the shirts they made for the event.



Got the munchies? Luckily, Stony's pizza is parked outside!



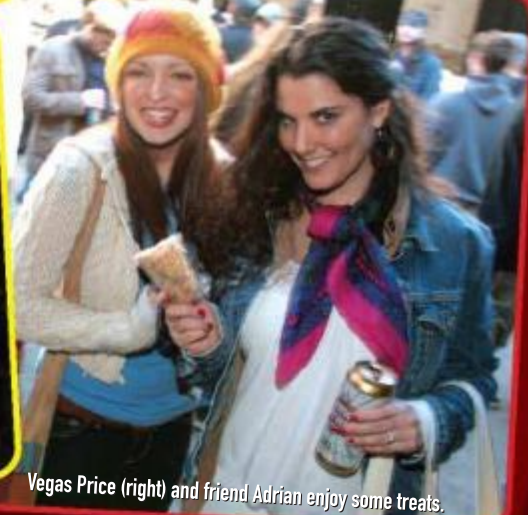
HT photographer Chris "Pot Star" Eudaley.



Mrs. Pot Star Sonya was the trophy girl.



Austin actor and activist Jet Baker.



Vegas Price (right) and friend Adrian enjoy some treats.

3RD ANNUAL COWBOY CUP

Each year before the Doobies, HIGH TIMES hosts the Cowboy Cup—an exclusive VIP tasting party where we judge the Lone Star State's best weed. Hosted by Jet Baker and Vegas Price, this year's competition included six strains, which were coded using cowboy-boot stickers and judged on the blind. As always, our panel consisted of some of the area's top pot growers and activists, as well as some close friends and special guests. After several hours of delirious deliberation, the votes were tallied and decoded. And the winners were ... in third place, N9M1 (aka Fierce Purple Boots); in second place, Southern Sweet (Two Boot Saloon); and in first place, Dank #1 (Arizona Boot). Thanks to all who voted!



CHRIS EUDALEY (8); MISS SHEILA (3)

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Pineapple Chunk

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Vanilla Kush

♀ **5** €36 **10** €65



LSD

♀ **5** €37 **10** €66

1 PAYABLE IN US DOLLARS FROM ANYWHERE IN THE WORLD

“Why is my plant turning yellow? ... What are those spots on the leaves? ... Isn't it too early to be seeing crystals? ... Are those the same flies that are in our kitchen?! ... Is that a spider web on top of Mount Cola?”

If these questions arise in your growroom, then keep reading, as this is where prevention—and, if need be, eradication—begins in our second installment of “Indoor Organic Pest Control.”

INDOOR ORGANIC PEST CONTROL

PART 2 by Hugh Jielder & Mike Utah

What Are You Smoking?

Does your herb unexpectedly pop when you smoke it? In the absence of seeds, that popping sound is likely the dead carcass of a spider mite exploding. Mite fireworks are harmless, albeit very unappetizing. The real question, however, is this: What chemicals did this grower use to eradicate—or even just contain—this pest problem? And is it okay to smoke those chemicals? (Answer to that last one: Definitely not!)

Cannabis growers have been locked in a chemical war with spider mites and other pests for many years. Some commercial non-cannabis grows using toxic knockout pesticides like Avid also tend to rotate between that and other synthetic miticides like Floramite in order to reduce the likelihood of the pests developing resistance. Resistance, or tolerance, to chemical pesticides can occur because they are so heavily used in the treatment of pest problems.

In the absence of rotation treatment, mites (especially on the West Coast) have developed some resistance to the widespread casual use of Avid on cannabis in the '90s. It's not uncommon to hear that the Avid doses necessary for the containment of mites on cannabis increase on a yearly basis. If the application of Avid by cannabis growers continues without chemical rotation, it could eventually stop working altogether.

And it's not that the spider mite is special. It's merely one small symptom of a larger pattern that manages to escape most newspaper headlines: Over 500 species of pests have thus far developed resistance to pesticides.

We know that the repeated application of the same pesticide leads to the development of resistance in insects. If pesticide rotation is generally more effective, then it would seem that a combination of many low-toxicity pesticides could be, over the long term, the best pest-control strategy. But before you start mixing up some sort of toxic brew in your kitchen that might harm you or your plants, let's take a look first at what nature has to offer us.



Unexpected guests like this praying mantis can become a garden's demise.

The Neem Revolution

In our prior pest-control discussion, we explained that some plants possess special “exudates” that not only seal up plant wounds, but also possess pest-control properties.

Neem oil and its more extracted form, Azatrol, are examples of such natural tree exudates, and they exhibit such minimal toxicity for mammals that they are even used as toothpaste ingredients in India. Some people eat neem leaves to cleanse the blood, stimulate the liver and boost the immune system. But to the same extent that neem appears not to harm humans, it can be devastating to bug populations. Neem can prevent, contain and even eradicate most plant-munching insects like spider mites, thrips and fungus gnats. But it is not an instant knockdown, and there are disagreements among biologists as to the precise mechanism by which it works.

What we know for certain, by observations of insects that have ingested neem, is that the neem causes them to “forget” to lay eggs, eat and mate. (Some insects forget that they can fly!) If eggs are nevertheless produced, they may not hatch. And if they do, the larvae's molting process can be disrupted. Furthermore, these effects manifest them-

selves at incredibly low concentrations (in the parts-per-million range). Some biologists claim that the neem tree protects itself from munching insects with fake insect hormones—rather than actually poisoning the bugs, the tree throws noise into their biological programming.

Aside from the low doses necessary, the fundamental feature that sets neem apart from more traditional pesticides is that this wide variety of behavioral effects appears to derive from a multitude of active chemicals. Scientists have identified over 150 active substances in neem. With so many chemicals involved, developing resistance in insects seems to be comparable to the difficulty that humans have achieving “tolerance” to marijuana.

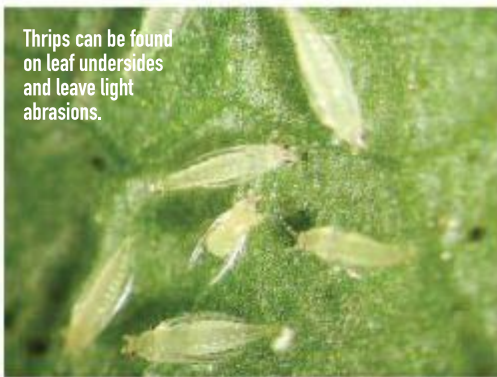
It has also been observed that grasshoppers limited to a neem-only leaf diet prefer to starve to death rather than eat the leaf—suggesting that neem treatment should occur even in the absence of any obvious pest damage to plants. This is what's referred to as a “preventative” pest-control program. For many pest problems, eradication becomes very difficult once the symptoms are observed on the plants. Hence, prevention is often the only sure way of growing pest-free.

Does Your Growroom Have an STD?

Indoor and outdoor growers face different types of pest threats. For instance, the chances that slugs or caterpillars will attack your indoor garden are virtually nonexistent. But, by imposing these artificial boundaries that reduce the threat of slugs and caterpillars to zero, your growroom's walls and filtered ports also eliminate the natural balance of the outdoor ecosystem that keeps spider mites and thrips in check.

The organic pest-control philosophy suggests that we embrace, as much as possible, nature's own methodologies for balancing the ecosystem by selectively introducing natural predators and natural plant extracts into our artificial grow environment. To avoid confusion, we're going to focus here exclusively on an *indoor* organic pest-control program, as some of the chemicals we're discussing can actually harm beneficial *outdoor* insects (for example, bees).

Indoor growers will most commonly contend with powdery mildew and spider mites. However, thrips, fungus gnats and, on occasion, botrytis are not unheard of indoors. Except for botrytis, these are basically growroom "STDs" (strain-transferred diseases): They typically transfer from one grower to another on clones—and, unfortunately, growers will oftentimes fail to disclose the presence of these pests in attempt to seal the deal on a clone transaction. For certain, the passing of growroom STDs has tainted many grow relationships. But it doesn't have to be that way. There is a cure.



Thrips can be found on leaf undersides and leave light abrasions.

Introduction to the Enemy: Thrips

Thrips are winged insects that are small enough to fit through the eye of a needle (around 1mm across). Identifying a thrip infestation during the vegetative cycle is easiest because thrips feed on the tops of leaves and the internodes along the main stem of the marijuana plant during this stage, leaving a distinct iridescent squiggle pattern in the wake of their dinner.

Even though thrips may appear not to cause heavy damage to cannabis plants, they will feed upon your buds during the flowering stage. The bud will actually become a little "thrips house," protecting them from direct contact with pesticides. It's also worth noting that some experienced growers have noticed that powdery mildew may coincide with the arrival of thrips. This may not be a complete coincidence, as it's already been established within agricultural circles that thrips can spread plant viruses. In fact, these bugs are sufficiently dangerous to crop yields that they are listed as a potential anti-crop weapon by the Biological and Toxin Weapons Convention!

Spider Mites: The King of Pests

Spider mites, on the other hand, leave their dreaded yellow-spotted calling card on leaves. They're about as difficult to see as thrips: Growers tend to notice their damage before they see the mites or mite eggs. Given sufficient numbers, mites will spin tiny web highways that appear to facilitate their transportation—and that strike fear in every grower's heart.

Given their preferred hot, dry environment, spider mites are amazingly reproductive: Just one female can reproduce one million mites in less than a month! It is this incredible rate of reproduction that lends the spider mite its unique ability to quickly develop resistance to most pesticides.

The spider-mite life cycle can completely repeat (from egg to egg) in as little as nine days, and the large mite eggs are impressively resistant to most chemical treatments. This means that nearly all treatment programs will involve multiple regular applications. Growers tend to differ on the precise schedule, but anywhere between three to seven days between applications isn't uncommon. The act of clearing out mites is made particularly arduous by the need to hit both the tops and bottoms of leaves during treatment. It wouldn't be unfair to call mites the King of Cannabis Threats.



Powdery mildew is prevalent indoors, especially with high humidity.

Powdery Mildew

Before we talk about mildew, we first need to discuss ultraviolet frequencies. Natural sunlight contains ultraviolet frequencies called UV-C rays (at around 200- to 280-nanometer wavelengths of light) that destroy pathogens such as viruses, bacteria, mold and mildew in outdoor air. UV-C can even destroy beneficial organisms within an organic-nutrient formula. The UV-C rays can easily penetrate these organisms' outer membranes, where it then damages their DNA. The glass envelopes on a high-intensity discharge (HID) light tend to filter out UV-C because glass naturally blocks those frequencies. It's arguably for the best, since these rays can be harmful to the human eye, among other things.

Without some sort of filtration system de-



Spider mites are perhaps the most common pot pest.

signed to continuously cleanse or sterilize your growroom's air, powdery mildew can spread very rapidly in indoor grow operations under HID lighting due to this lack of UV-C. Under these conditions, a wet leaf surface or small pocket of high humidity is all that's required for the powdery mildew (PM) fungus to penetrate the plant's waxy scale armor.

Powdery mildew will tend to establish itself either on young leaves up to two to three weeks of age, or on points of plant damage or death. Plants should be spaced to maximize air circulation and trimmed of old or dead leaves in order to minimize this threat. Infections are incredibly difficult to eradicate fully from a growroom, so infected leaves should ideally be quarantined before circulation fans spread the spores.

Since the mildew establishes itself in moist areas, from which it sends out additional armies of spores, grow-op air intakes should ideally be as dry and sunlit as possible. The fungus spreads by sending spores into the air, meaning that growers would be wise to filter their system intakes as best as possible with spore and/or carbon filters. However, powdery mildew can also arrive on clones without any obvious initial signs of infection. New clones should ideally be quarantined from the rest of the garden for at least two weeks, which should be sufficient for any pre-existing infection to announce itself.

The PM fungus cannot survive without the proper host plant. Although growers often talk about powdery mildew as if it lives within the plant, it never actually invades the plant tissue beyond the topmost epidermal cells. When mildew gets into a plant's skin, it can initially look like small circles of a light, snow-like dust on the topsides of leaves. For those cannabis strains that are susceptible to powdery mildew, the snow-like covering will intensify until the plant lacks the light necessary to photosynthesize.



Plants should be continually checked for botrytis through harvest.



Sticky-tape traps are good for catching winged assailants.



Aphids are sap-suckers that move easily from plant to plant.

Botrytis (a.k.a. Gray Mold)

Botrytis is a plant fungus that is known to attack a wide range of fruits and vegetables. Since botrytis tends to grow on dead or dying leaves and fruits, infections tend to occur around harvest time.

Because moisture is necessary for all the life-cycle stages of botrytis, cannabis strains that generate dense buds are also more susceptible to it. The spores require wet plant tissue at 55°F to 70°F in order to germinate. Once they do, high humidity and cool temperatures will ensure an efficient conversion of your prized buds into unusable material. Lowering the humidity is one way to slow or halt their progression.

The mold itself can take on a variety of colors, from white (like powdery mildew) to a smoky gray or brown color. In its wake, it can leave a dark brown rot or slimy, goo-type residue. If the mold strikes a plant within a flowering room, it can also release ethylene gas onto the neighboring plants. Since ethylene is also a plant hormone given off by ripened or rotting fruit, vegetables and flowers, this might cause unwanted consequences. Thus, any type of mold needs to be removed from the grow-room at the first sign of formation, even if it means removing maturing flowers.

Fungus Gnats

Fungus gnats start out as larvae that feed 1 to 3 inches below the surface of soils that are high in organic content. But it's the larvae's appetite for root hairs and small feeder roots that most concern cannabis growers. These root wounds can act as portals for the transfer of soil-borne pathogens like pythium and fusarium into the plant. As we know, it's not uncommon for one cannabis-pest problem to snowball into other, seemingly unrelated problems.

The adult female gnats will try to lay anywhere from 100 to 300 eggs on moist soil surfaces or in soil cracks in batches of two to 30 eggs—meaning this is a problem that can quickly multiply in a growroom. The sudden wilting, decreased vigor, poor growth, yellowing and foliage loss visible on plant topsides is typical of pests like the fungus-gnat larvae, which attack plant roots. Adult gnats are often seen flying beneath the plant canopy, as they require the moist soil near the surface in order to reproduce.

Check for nematodes in grow mediums and reservoirs!



Nematodes

Nematodes are tiny, wormlike creatures that mostly live in soil. They are so small and abundant that a fistful of natural soil can contain thousands of them. Not all nematodes feed off cannabis plants, however. The parasitic ones that do can cause a symptom called *incipient wilting*. This is when plant leaves droop during midday and recover at night, and it can be a tell-tale sign of infestation.

An outbreak of predatory nematodes within

an indoor grow may indicate that there's something wrong with the balance of microorganisms within the ecology of the soil. That's because nematodes have many natural enemies, including viruses, bacteria, protozoa, other nematodes and killer fungi. Cannabis strains can also naturally release exudates which repel or kill many nematodes, perhaps explaining why this pest problem tends to be uncommon in indoor grow ops.

Aphids (a.k.a. Plant Lice)

Aphids live very complicated lives, moving through multiple stages of development throughout the year that can vary quite a bit in appearance. There are thousands of different species, and different types of aphids vary in the plant parts they prefer to extract sap from—some actually feed from the insides of buds, but most feed on stems, branches and leaves.

The earliest damage can be difficult to spot; it should appear as light-colored spots near the leaf veins. This damage can then cause the leaves to curl, among other easier-to-spot symptoms of leaf damage. One dozen scattered adult aphids can multiply into thousands in just a few days.

Like thrips and fungus gnats, aphids can also spread fungi, bacteria and plant viruses. Aphids actually have a symbiotic relationship with plant viruses, which is worsened by the fact that some aphids enjoy variety in their diet: They will actually land on plants and only briefly probe them with their sword-like stylet before seeking out other plants. Still, this is just enough time to transfer disease among neighboring plants. This behavior makes up for the fact that they tend to be poor fliers, unable to completely direct their movements in a wind.

Aphids are like the cows of the bug world because they exude a substance called honeydew from their rear ends, which ants unashamedly milk them for. This sugar-rich food source is more than just a tasty treat for ants; it's also a fertile growing medium for sooty mold. Sooty mold, in turn, can reduce plant photosynthesis and leaf transpiration. Where there is an aphid problem, there is oftentimes also an ant entourage protecting the aphids from predators. Making matters worse, the ants will actually find the aphids and herd them onto fresh grazing areas (in other words, your other healthy plants).

PEST	Control Techniques
Spider mites	Neem oil/Azatrol Pyrethrum fogger with piperonal butoxide such as Dr. Doom (pyrethrum is extracted from chrysanthemum, and piperonal butoxide is an extraction of safrole oil). The goal is to fill room air, not coat plant leaves. Predator mites (temperature and timeliness of application need to be considered when selecting a variety of predator).
Thrips	Neem oil/Azatrol Beneficial nematodes (breaks the root-zone life cycle) Minute pirate bugs Pyrethrum fogger with piperonal butoxide Spinosad
Powdery mildew	Neem oil/Azatrol Potassium bicarbonate Sulfur burner (best used before appearance of flowers; beware of house fires caused by burner) Organic compost teas Powdered mycorrhizae (will keep root zone healthy, where mildew begins)
Botrytis	Potassium bicarbonate Powdered mycorrhizae
Fungus gnats	Beneficial nematodes (breaks the root-zone life cycle) Neem oil/Azatrol
Pythium (root rot)	Roots Excelurator (seaweed extract, B vitamins and beneficial bacteria) Enzymatic root cleaners Hydrogen peroxide mixed with surfactant such as ZeroTol (extremely effective, but also destroys all other beneficial microbes) Pythoff (a chlorine-based sterilizing agent that will destroy your beneficial insects too)
Aphids (plant lice)	Soapy sprays once a week for a month for small-scale problems Pyrethrum/neem oil applied twice a week for intermediate problems Predator insects such as ladybugs or lacewings for large infestations Low-concentrate malathion or diazinon solution



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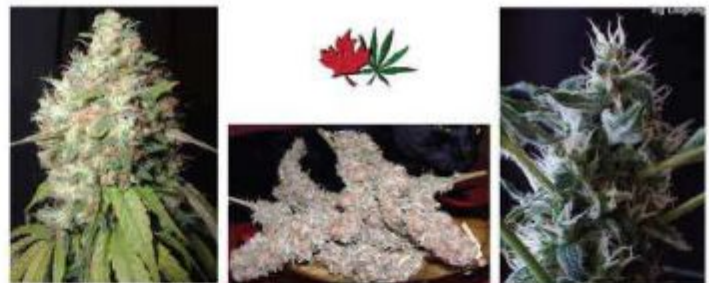
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PEST CONTROL

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Whiteflies

Whiteflies are really quite similar to aphids in many respects—in fact, the two are genetically related. Like aphids, whiteflies suck sap and exude honeydew, and they also spread plant viruses.

Whiteflies and aphids even generate fairly similar plant symptoms, including the sooty mold that follows the honeydew. However, the tricky thing about whiteflies is that they generate few initial plant symptoms, and the adults hide out of direct view beneath leaf undersides. They use this natural advantage to multiply before being noticed.

Whitefly adults look like tiny specks of ash or tiny moths. When a severe infestation is disturbed, they will billow like a cloud before resettling. Like mites, whiteflies reproduce faster when temperatures are high (between 80°F to 90°F).

Algae

Algae is a plant, which means that most of the chemical options (such as algaecides) available for controlling it will kill cannabis plants as well. Algae requires sufficient heat, light and nutrients to survive. Reservoirs on recycling programs are often cooled below 70°F in order to minimize the growth of algae. Many growers also cover their rockwool media as an effective means of control. And though older plants can handle it, the minimum dose of hydrogen peroxide required to treat algae (50 ppm) also tends to be phytotoxic to young plants.

When algae appears in nutrient solutions or on rockwool slabs, it can increase the pH of the solution or medium during the daylight hours and decrease it during the night. These pH swings may or may not be bad for your plants, as different elements are absorbed by the plants to varying degrees based upon pH values.

A little bit of algae in a grow op is nothing to lose sleep over. However, there are downsides. Insects do feed upon algae; the algae is feeding upon nutrients that were intended for the plants; and algae can become serious enough that it can, over time, block drip emitters and aeroponic sprayers, or even seal the medium off from fresh oxygen. Furthermore, when algae blooms, dies and decomposes, it can reduce the oxygen available to plant roots. This decomposition process can also release toxins into a reservoir, which in turn act as a food supply for harmful plant fungi. It's worth noting that when roots are deprived of oxygen, they tend to become susceptible to pathogens like pythium.

Algae has turned this Rockwool black and eats up the plant's nutrients.



Pythium

Pythium is a water mold. Some pythium spores actually have tails (called flagella) that permit them to navigate through water. This means that pythium is less of a concern in soil than it is in systems that recycle nutrients. In such systems, it's not uncommon to see pythium affect all of the plants that share one single reservoir. When this occurs, the plants will wilt and turn yellow over time. Pythium is easy to spot because it turns the bark at the base of the plant stalk brown, and it becomes less of a concern as plants mature.

There are two different types of pythium spores: One germinates at 82°F, the other at 59°F. Accordingly, eliminating large temperature fluctuations in the nutrient solution or medium will help to minimize the chances of a pythium attack.

Eradicating Pests During the Vegetative-Growth Phase

When it comes to thrips, it's important to realize that insects in the family *Thripidae* don't have the standard hooks at the end of their legs like other insects; instead, they have hoof- or bladder-like appendages. By far, the best and most organic way to greatly reduce a thrip infestation is to take the plants outside the growroom and shake them off. The adults will fly away, and many of the nymphs will jump from the shaking plants. But this will probably not fully eradicate them.

Of all the available treatment options, one of the most effective treatments for both mites and thrips during the vegetative-growth cycle is neem. However, the application technique is incredibly important: Although neem will be absorbed by the plant and transported around, its effectiveness is in large part a function of how well it's applied to the plant. That's because neem works, in part, by smothering insects. And for this reason, dipping the plant in a neem solution is always more effective than spraying—not to mention that dipping gets the neem underneath leaves and inside those tiny crevices where bugs can hide.

A simultaneous neem dip and drench can

eradicate a thrip infestation, whereas a spraying may only contain it. But dipping plants is only possible when they're smaller and well supported. Since dipping is as quick as it is effective, growers who maintain mother plants may decide to limit the size and shape of these plants. Since neem works best if applied repeatedly every three to five days through the third week of flower, any trick for speeding up the process of application will permit the grower to increase the number of applications per cycle.

Neem solution should be used within hours of mixing it into water, as it is known to degrade rapidly with exposure to UV. Growers can also add organic dish soap to their neem solution at a rate of 1/4 teaspoon per quart of diluted neem or Azatrol solution. This will reduce the beading of fluids due to the water tension that cannabis-leaf hairs can create. Not only will this improve the treatment's coverage, but it may also reduce leaf burn, because water droplets suspended above the leaf by its hairs can focus light with sufficient intensity to burn the leaf in various locations.

For this reason, it's best to treat the plants with the grow lights off and to permit as much time as possible (preferably four to eight hours) for absorption of the neem. Growers should take very careful notes on their treatment methodology, because the crisp of leaf burn can take a day or two to show up. Many growers cut the neem dose in half and rinse it off the leaf tops four hours after application just as a preventative measure.

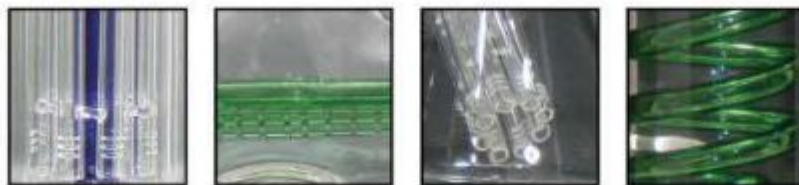
Another new organic solution that has been very effective as a neem substitute is SNS-217, an all-natural rosemary-oil extraction that is mixed with water and applied to plants. Application is similar to neem in that growers can spray, dip or rub the solution onto their plants. SNS-217 is particularly effective in dealing with mite problems and is generally safe for humans. One application per week, even on healthy plants, can help prevent an array of pest problems before they start, just as with neem oil.

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Dealing With Soil-Borne Pests

When fungus-gnat larvae run out of fungus in the soil to eat, they can start to nibble on your plants' roots. Large fungus-gnat outbreaks can reduce yields and even ruin crops. The trick with any pest that spends some portion of its life cycle in the soil—which includes both fungus gnats and thrips—is to focus on the soil.

There are two options when it comes to soil-borne pests: a neem-oil soil drench or beneficial nematodes. The application of beneficial predator nematodes to the soil every two weeks is usually sufficient to break the life cycle of both of these predators. The *steinernema* and *heterorhabditis* species work best. You can apply the nematodes with nutrients, but be aware that your pump may possibly kill them. Obtaining natural predator bugs like nematodes is easy, and they can even be ordered online and sent to you via regular mail. Other advanced-gardening centers (and even pet shops) may also carry beneficial predator insects.

Dealing With Pests During Flowering

Whether or not your thrip problem can be effectively treated with neem will depend upon the part of the grow cycle you're in. This is because thrips can actually feed upon your buds from the inside during bloom, making them invulnerable to spraying or fogging with pesticides, and also be-

cause application during bloom can damage delicate flower sites. Thus, the problem demands a different sort of solution.

The term "beneficial insect" generally refers to insects that do not feed upon the plant of interest. Beneficial nematodes and minute pirate bugs can actually survive applications of neem; however, it is possible to smother any insect with neem, given a sufficiently thick application like a dip. Once the neem application has dried, it will no longer harm the beneficial insects.

The minute pirate bug is a beneficial insect that feeds exclusively on thrips (including the ones *inside* your prized buds). Each minute pirate

bug can eat up to 20 thrips a day, making it impossible for the thrips to get a grip on your garden. Although it's certainly true that the minute pirate bug is known to go into a state called "reproductive diapause" (i.e., dormancy) in response to shortened days, the bugs will still persist long enough in a flowering room to have a useful impact upon thrip populations.

Knowing that mites will leave a dying plant, mite infestations late in flower have caused many growers to skip their flushes and tear down their plants early. When neem is not an option, there exists one other intriguing and legendary technique for fighting spider mites: carbon dioxide (CO₂). One grower reports that half of a 50-pound cylinder of carbon dioxide slowly drained over four hours into a 2,500-cubic-foot (11' x 22') room with the lights off and the room temporarily sealed was effective as an instant knockdown specifically for the control of spider mites. The outcome was piles of dead mites on the floor beneath his plants.

Details on CO₂ technique are sparse, so growers are advised to take detailed notes and share their experiences on this topic with others until it's perfected. That said, it's vital for everybody to realize that *excessive carbon-dioxide levels can cause a person to become unconscious, at which point further exposure can be absolutely lethal.*

CONTINUED ON PAGE 96

Predator or beneficial bugs like these lady bugs eat harmful pests without hurting plants.



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ROX	\$185.00
OPIUM	\$190.00
SPOETNIK	\$185.00
ICE CREAM	\$185.00
JACKY WHITE	\$185.00
WHITE BERRY	\$185.00
DELAHAZE	\$185.00
NEBULA	\$190.00

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REGULAR PACKS OF 10

KUSHAGE	\$240.00
MK-ULTRA	\$260.00
SAGE N SOUR	\$250.00
BURMESE KUSH	\$235.00
SKUNK XXX	\$140.00

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MIGHTY MITE \$140.00
SEA LEVEL \$140.00

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Green House Seed Co.
FEMINIZED PACKS OF 5

A.M.S.	\$140.00
THE CHURCH	\$140.00
BIG BANG	\$140.00
WHITE WIDOW	\$140.00
WHITE RHINO	\$140.00
HIMALAYAN GOLD	\$150.00
SUPER SILVER HAZE	\$185.00
SUPER LEMON HAZE	\$150.00
EL NINO	\$140.00
GREAT WHITE SHARK	\$145.00
ARJANS STRAWBERRY HAZE	\$150.00
ARJANS HAZE #1	\$150.00
ARJANS HAZE #2	\$150.00
ARJANS HAZE #3	\$150.00
ARJANS ULTRA HAZE #1	\$150.00
ARJANS ULTRA HAZE #2	\$150.00
ARJANS ULTRA HAZE #3	\$150.00
TRAINWRECK	\$145.00
KING KUSH	\$145.00
LEMON SKUNK	\$140.00
DAMN SOUR	\$145.00
GREEN - O - MATIC	\$140.00
K-TRAIN	\$145.00
NL HAZE	\$150.00
HAWAIIAN SNOW	\$140.00
JACK HERER	\$175.00
CHEESE	\$150.00
BUBBA KUSH	\$150.00

MIXED PACKS CALL FOR DETAILS

SATIVA - INDICA MIX PACK	\$175.00
INDICA MIX PACK	\$175.00
SATIVA MIX PACK	\$175.00
BLACK & WHITE MIX PACK	\$175.00
RASPBERRY MIX PACK	\$175.00

DONT SEE WHAT YOUR LOOKING FOR?
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British Columbia Seed Company

AK	\$140.00
JACK	\$140.00
MAUI MIST	\$140.00
BUBBLE FUNK	\$140.00

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Secret Valley

TOP DOLLAR	\$140.00
NORTHERN FLAME	\$140.00

DONT SEE WHAT YOUR LOOKING FOR?
CALL FOR ADDITIONAL STRAINS

DUTCH PASSION
FEMINIZED PACKS OF 10

SKUNK # 11	\$180.00
WHITE WIDOW	\$260.00
MAZAR	\$250.00
POWER PLANT	\$235.00
JORGE'S DIAMONDS	\$240.00
BRAINSTORM	\$185.00
EUFORIA	\$220.00
DURBAN POISON	\$254.00

REGULAR PACK OF 10

TWILIGHT	\$150.00
BLUEBERRY	\$200.00

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CALL FOR ADDITIONAL STRAINS

Serious Seeds
REGULAR PACKS OF 10

KALI MIST	\$200.00
BUBBLE GUM	\$200.00
WHITE RUSSIAN	\$200.00
CHRONIC	\$190.00
AK 47	\$200.00

W ALSO STOCK FEMINISED SERIOUS STRAINS.
CALL FOR DETAILS

Solar Warrior

RAINBOW SKUNK	\$140.00
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CALL FOR ADDITIONAL STRAINS

QUEBEC'S BEST

HASHY SENSI STAR	\$90.00
KEMO SENSI STAR	\$90.00

DONT SEE WHAT YOUR LOOKING FOR?
CALL FOR ADDITIONAL STRAINS

Seeds

ZOMBIE VIRUS	\$125.00
POW TANG	\$125.00

DONT SEE WHAT YOUR LOOKING FOR?
CALL FOR ADDITIONAL STRAINS

WHITE

MANITOBA POISON	\$100.00
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3. Calculate your subtotal and add shipping.

4. Write your SHIP TO address in the space provided below.

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Ship To: _____

MAIL ORDERS TO: 13-4 Alliance Blvd, Suite 425 Barrie, Ontario, Canada L4M 7G3
Total: _____

The Twister makes easy work out of hours of trimming labor for growers on the go.





GrowLabs provide easy environmental controls combined with quick takedown capabilities.

12th Annual HIGH TIMES

S.T.A.S.H. AWARDS

For the past dozen years, the HIGH TIMES Cultivation Department has scoured the globe, from hydroponics-industry trade shows to the most humble cannabis farms, to find and report on the best new innovations in ganja-growing technology for what we call the S.T.A.S.H. Awards (for Significant Technological Achievements in Secretive Horticulture). Our prize picks for “grow gear of the year” comprise the most useful and highly beneficial pot-growing products that help reduce workloads and increase harvests. Compiled by Eric Schoner.

Best Power Trimmer

THE TWISTER

You know you've got a high-class problem when trimming your massive cannabis harvest takes up more time than you can afford to spend. For commercial growers with too much bounty and not enough hands on deck, there's **The Twister**, a precision piece of machinery that uses 11 self-sharpening blades to make over 300 cosmetic cuts per second. The 2-horsepower, 3,450-rpm motor vacuum makes this the strongest industrial trimmer on the market. One of the best features of the Twister is its ability to be used for hours on end without overheating. The Twister also breaks down lightning-fast, allowing for seamless and easy cleaning and storage. With watertight seals on all of the electrical work as well as the motors, you can power-wash the entire thing, saving even more of your valuable time for loftier pursuits.

Price: Call for a quote!

Contact: The Twister Machine, 888-254-3204, (US) 213-531-0114, (Canada) 604-495-1895, thetwistermachine.com

Best Grow Tent

THE GROWLAB HORTICULTURAL PORTABLE GROWROOM

When deciding how to construct a growroom, there are many factors that are often considered. How much space is available? How to waterproof the area? And most of all, how fast can the room be broken down? These portable growrooms, manufactured by GrowLab Horticultural, addresses all of these concerns. Providing growers with a maximum grow area of up to 9'6" x 9'6" x 6'7" (not to mention a variety of smaller sizes), these water and air tight grow laboratories can be collapsed quickly and easily. A thermal film on the tent's interior is not only waterproof but is also highly reflective and insulative (97 percent thermal retention).

The GrowLab GL290, our choice for best Grow Tent of 2010, incorporates a moveable framework of poles in the ceiling, making the adjustment of light positions or filters that much easier. Reinforced ceiling poles, especially near the middle to prevent sagging, provide additional safety in holding necessary lighting equipment. In addition, the intake and exhaust ports are adjustable to fit various sizes of ducting for cooling lamps and circulating air. Exhaust fans can also be attached at the sock port in the rear corner of the roof, where they can sit atop the tent, externally, eliminating extra heat from the growroom and providing a safer solution than strapping or hanging more equipment inside.

And as if there weren't enough lavish features, most models of the GrowLab feature clear viewing windows that can be covered or uncovered to check on gardens without disrupting the controlled environment of an indoor growroom.

Price: GL290 \$919.95; other sizes range \$90 to \$730.

Contact: everestgardensupply.com; (888) EGS-2007.



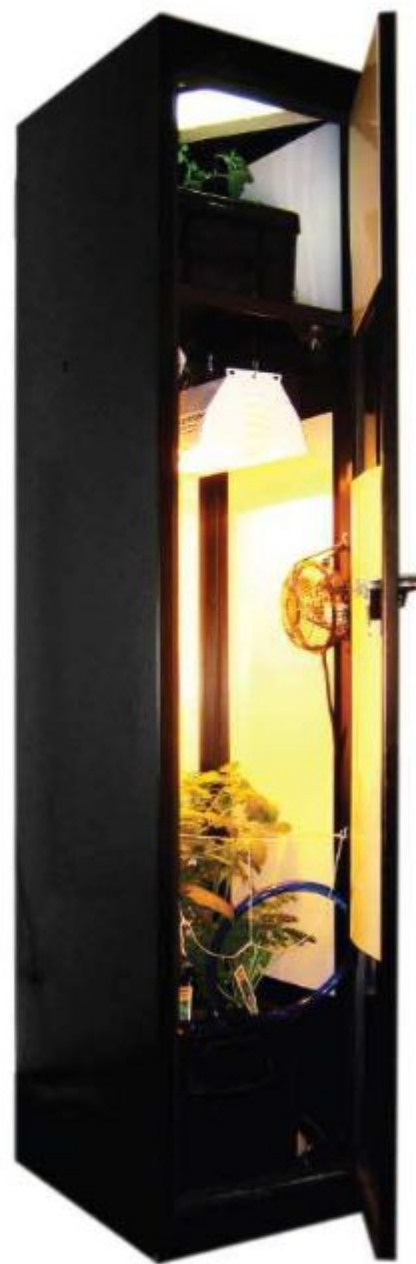
Best New Cloning Chamber

BC NORTHERN LIGHTS NURSERY

Every grower wants a fast turnover rate with high-quality results, and it all starts with happy, healthy clones and seedlings. Perennial S.T.A.S.H. Award winners BC Northern Lights have developed and released **The Nursery** in order to simplify the cloning process and enhance the earliest stages of plant life. They've incorporated cutting-edge technology to give users the ability to control various stages of growth using touch-screen technology and an auto-monitoring system. The Nursery contains 84 clone slots in 12 different chambers, allowing growers to optimize the conditions necessary for cuttings to thrive by controlling each chamber individually with misters and temperature controls. Another outstanding feature is the ability to grow clones at various stages of growth, whether fresh off the mother plant or rooted and up to 10 inches tall. Some of the finest medical-cannabis dispensaries use The Nursery to consistently provide their many patients with clones, and now you can too.

Price: Call for a quote!

Contact: BC Northern Lights, 888-236-1266, bcnorthernlights.com



Best Budget Growbox

THE SUPERLOCKER FROM SUPERCLOSET

Growboxes allow their users to control their environment while concealing their hobby from the prying eyes of neighbors and authorities, but many are priced way too high for the amateur grower to consider. That's why we're so happy about the arrival of the new **SuperLocker** from SuperCloset, a fully functional 15" x 18" x 66" self-enclosed unit that contains everything you need to plug in and start growing. The SuperLocker includes an air-filtration system, a 150-watt HPS light on an easy-to-use pulley system, and highly reflective panels that reduce the chances for mold. The vegetation chamber on top ensures perpetual harvests, and the lockable door adds to the stealth factor. Add CO₂ for an extra \$199 and supercharge your hydroponic grow locker to new heights. You can also rest easy due to their no-hassle three-year warranty.

Price: \$1,195

Contact: SuperCloset, 877-GROW-SUPER (877-476-9787), supercloset.com

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composition

vegetable compost, native block cut florida peat, chunky perlite, coconut coir, dolomitic lime, organic chicken manure, gypsum, 72 natural organic trace minerals

Scientific Soils Distributor Inquires
www.scientificsoils.com

discountgrowshop.com



Best New Rotating Grow Unit

HYDROPLEX

Plants that rotate grow thicker stems and denser foliage than stationary ones due to increased light exposure at all areas of growth. Moving the plants this way also eliminates potential problems caused by heat spots or perpetually shaded leaves and builds stronger stalks as they grow and move against each other. The innovative new self-enclosed hydroponic unit called **The Spinner** provides 12 individual plants with the maximum exposure to light that a grower can achieve indoors by rotating each plant on its axis around the central light source (either a

400-watt or 600-watt HID bulb). The proven "flood and drain" nutrient-feeding method nurtures the roots, and hot spent air is exhausted using a 125-cfm fan. The simple-to-assemble and easy-to-use Spinner rivals other 1,000-watt stationary systems in dry-weight yields, and you can stack up to three units for maximum efficiency over the same footprint under 8 feet of ceiling space.

Price: \$1,999

Contact: Hydroplex, 877-906-SPIN (877-906-7746), hydroplexonline.com

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Organic Grow Room 4 X 4 \$699.99

Organic Grow Room 4 X 8 \$1299.99

3X3 \$499.99, 2X4 \$399.99, 2X2X4 \$549.99

Includes Systems, Lights, Fan, Carbon Filter, Timers, YoYos, Pots, Mini-Clip Fan, Temp/Humidity Gage, and Setup DVD. Purchase Nutrients & Media separately. Upgrade your light for just a few bucks more!

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1000 Watt MH/HPS Electronic System \$369.99

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Add a Propagation & Cloning Kit \$49.99



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THERMAL SHIELD™ \$29.99 - 25ft x 3 5ft \$49.99 - 50ft \$89.99 - 100ft

GROW TENTS

2'x2'x4'	\$108	5'x10'x7'	\$499
2'x4'x6'	\$120	8'x8'x7'	\$599
3'x3'x6'	\$210	10'x10'x7'	\$799
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4'x8'x7'	\$390	20'x10'x7'	\$1189

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6" x 50cm - \$89.99; 8" x 50cm - \$109.99
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Best Growbox Innovation

TOUCH-SCREEN SENSORS FROM BC NORTHERN LIGHTS

It's difficult to keep track of the ever-changing conditions inside self-contained growing units, and keeping them at optimal levels is even harder. Luckily, the growbox scientists at BC Northern Lights have developed their new all-in-one **Sensory Overload** touch-screen managing system, which allows its users to monitor and control pH, TDS (nutrient levels), water temperature and CO₂ as well as atmospheric temperatures and humidity level. Min/max



daily reports reveal what's going on when you're not there and can bring problems to light before they escalate. The easy-to-navigate interface and pre-programmed settings maximize success for beginners, and seasoned growers can customize and upgrade the sensors to their needs.

Price: Call for a quote!

Contact: BC Northern Lights, 888-236-1266, bcnorthernlights.com



Best Vertical Hydro Garden

VERTICAL HYDRO 90

The future of vertical growing is here! Bringing functionality and practicality, the **Vertical Hydro 90** provides cutting-edge hydroponics with new features that are unrivaled by any other vertical grow systems currently on the market. The entire system is encased in easy-to-move sliding walls that allow for simple light-to-canopy adjustments. It's clear that the designers at Vertical Hydro Garden took customer concerns into serious consideration. Most vertical hydroponic systems have fixed walls, predetermining and setting in stone the light-to-canopy

ratio, thereby limiting light penetration through denser canopies. Besides the movable walls, there's a 6-foot light track to further enhance the functionality of this system. Each of the movable walls holds 45 net pots, giving the grower a total of 90 plants to flower. There's a 50-gallon reservoir on each side, providing enough nutrient solution for all 90 plants throughout their grow cycle.

Price: \$4,500.00 + \$150.00 shipping; Anywhere in the continental US

Contact: Vertical Hydro Garden, 916-673-6585, verticalhydrogarden.com

Best LED Grow Light

STEALTH GROW TECHNOLOGIES

With so many competitors on the LED lighting market, it's hard to decide which unit provides the best bang for your buck. The new line of **Stealth Grow LED Lights** from Stealth Grow Technologies provides its users with the cutting edge of LED growing at some of the most competitive prices available. The variety of different lighting systems helps indoor farmers drastically cut electricity costs while limiting heat buildups due to HID bulbs. Utilizing 2-watt bulbs as opposed to the 1-watt industry standard, Stealth Grow bathes your plants in the brightest light we've seen yet from any LED system. The built-in fans push any heat generated from the enclosed system through the top and away from sensitive plant tops. This allows you to put the Stealth Grow LEDs closer to your canopy level than ever before.

Price: \$999 (SG 300: 3' x 4' coverage area); \$1,599 (SG 602: 4' x 5'); \$3,199 (SG 1202: 4' x 8')

Contact: Stealth Grow Technologies, 800-770-9788, stealthgrow.com



Best Ballasts

QUANTUM SERIES BALLASTS

Tired of hearing the sound of vibrations from your old ballast on the floor of your growroom? The **Quantum Series Ballast** eliminates annoying background noise from your ballasts and is capable of handling both high-pressure sodium and metal-halide bulbs. These ultra-lightweight digital ballasts provide optimal light output while running cool to the touch and generating much less heat than typical magnetic ballasts. The availability of a dimmer switch is crucial, whether you're looking for energy efficiency and lumen control during early plant growth or just trying to ride out a hot spell. The option to run the Quantum Series Ballast at either 120 or 240 volts simply by switching the power cords (included) gives the user unrivaled control over energy consumption. Offered in 400-, 600-, 750-, and 1,000-watt models, Quantum Series Ballasts provide the highest-quality product to a full spectrum of indoor growers.

Price: 600 watts, \$204.75; 1,000 watts, \$393.75

Contact: Quantum Horticulture, 877-HYDRO-US (877-493-7687), quantumhort.com





STASH Award WINNER!

Easy Roots: \$19.99



Easy Glow Reflective Film: \$179.99

STASH Award WINNER!



Raptor Reflector: \$260



STASH Award WINNER!

Quantum Ballast:
1000 watt: \$355.95 600 watt: \$233.95



IceBox: \$139.95

HOME GROW DEPOT



Ledt600: \$1,100



Sentinel: \$520



STASH Award WINNER!

Infinite Breeze: \$55.95

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Home Grow Depot is an information and products hub that offers all growers the opportunity to maximize their efforts, production and quality. Home Grow Depot offers information from commercial agriculturalist, authors, journalists, grad-level and well-known backyard scientists. We pride ourselves on offering a wide range of products at the lowest possible price, while sharing our research and our results.

Home Grow Depot carries a wide variety of high quality organics, hydroponics equipment, and full grow set-ups. We only sell products we thoroughly understand in order to help you maximize your efforts. The grower comes first. Profit margins and manufacturer opinions come second. We're available 7 days a week!

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We can help you design your indoor or outdoor garden to be as efficient as it is beautiful. Our goal is to help cultivate a network of knowledgeable and well-informed growers. By helping people produce their own foods and herbal medicines, Home Grow Depot can help grow our economy and the personal sovereignty of our community.

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4 7 6 9



Best Plant-Moving Innovation

THE RPM (REVOLUTIONARY PLANT MOVER)

Imagine being able to simulate the best conditions of growing outdoors without all of the drawbacks. The Revolutionary Plant Mover (RPM) replicates the sun's natural movement, providing the maximum percentage of energy for plant growth. The patented RPM is the only system to have a rotating base plus four discs that rotate along with it. While the base rotates counterclockwise for one turn every 10 hours, each of the four independent trays rotate clockwise four times every 10 hours, thereby simulating the actual sunrise and sunset. Sitting on top of the rotating trays are four 5-gallon buckets fed through two low-pressure, high-flow tubes. These feeding arms supply your prized plants with 24 hours of nutrient-rich, oxygenated water. The RPM uses a 400-watt light yet has the ability to rival the dry yield of 1,000-watt grow! Why waste money on extra electricity and heat when you can get equal results with a lower-wattage light combined with an RPM? They don't call it "revolutionary" for nothing.

Price: About \$1,900.00

Contact: Revolutionary Plant Mover, (702) 473-5901, revolutionaryplantmover.com



GET THE BIGGEST YIELDS FROM YOUR BLOOM BOOSTER

Most likely, you're one of the 91.7% of growers who use bloom boosters every bloom cycle, because you want to be sure your boosters give you the biggest yields possible for your garden ... to be precise ... you look for bloom boosters that give you:

- Larger, heavier, denser flowers
- Flowers with more essential oils, aromatics, terpenoids, phenols and other potency factors
- Measurable, significant increases in overall harvest weight and market value

But most bloom boosters don't measure up to these goals. In fact, until recently poorly-absorbed forms of phosphorus and potassium (P and K) were the main ingredients in most bloom boosters.

Worse, almost all bloom boosters have incorrect ratios or types of phosphorus and potassium. Most provide double the amount of phosphorus to potassium. That's not useful. Your plants need much more potassium than phosphorus during bloom phase.

And when too much phosphorus is dumped into your plants, it creates a potential for phosphorus toxicity that works against flower production and overall plant health. Not only that, your crops may taste harsh so they hurt your throat and lungs.



Fast Facts

PRODUCT TYPE: Bloom Booster

GARDEN TYPES:

Liquid Big Bud has been specially designed for use with all hydroponics, sphagnum, and soil growing mediums. Big Bud has been developed for use with any and all hydroponic, aeroponic, drip irrigation, NFT, flood & drain, drip emitters and continuous liquid feed growing systems.

WHEN TO USE:

Peak bloom phase.

MIXING DIRECTIONS:

Use 2 mL per Liter during weeks 2 through 4 of your flowering phase.

GROWER EXPERIENCE LEVEL:

Hobbyist, Expert, Professional and Grand Master Growers

DERIVED FROM: Potassium Sulfate, Potassium Phosphate.

COMPANY FOUNDERS' NO-RISK, 100% MONEY BACK GUARANTEE:

If for any reason you're not absolutely delighted, we'll refund all your money back it's that simple.





Best Growing Container

AIR POT

With typical plant pots and buckets, roots reach the sides and bottom and then begin to swirl around, staying close to the outside of the container for less-than-optimum results. Allowing air to reach those roots is called “air pruning” because it encourages roots to grow back into their medium and take more advantage of all the space and nutrients available. The new **Air Pot** system from Super-roots utilizes this proven technique and actually reduces the need to transplant from container to container. The Air Pot’s walls are comprised of a high quality plant safe plastic, that are holes surrounding the container. The walls are fixed to a slotted base that is raised off the bottom of the walls for optimal drainage. One of the main benefits of the holes surrounding the walls is that each hole allows oxygen to reach the roots, making these pots perform excellently in both hydroponic and soil gardens. The durable, high-grade, recycled HDPE material can be used multiple times without fear of contamination, and the pots are available in sizes from .3 gallons up to 12 gallons.

Price: Various

Contact: Terra Hydro Co., 877-839-GROW, calgrowers.com



Best Water Innovation

YIELD 2.0

Water is the lifeblood of any plant, cannabis included, and making the most of your water is essential to growing success. We’re amazed by the benefits provided by the new cutting-edge product called Yield 2.0, which increases harvests by energizing water. We were initially a bit skeptical of this product’s claims, but our testing revealed that as plain water passes through the magnetized chamber, the molecules of hydrogen and oxygen transform into looser-bonded molecules. A looser molecule means that each drip of water will be able to penetrate the leaves more effectively, thereby lowering the amount of water and nutrients needed. The creators of **Yield 2.0** are so sure that their product will yield 10% to 30% more that they offer a 100% money-back guarantee on each unit.

Price: \$550

Contact: Home Grow Depot, 877-821-GROW (877-821-4769), homegrowdepot.com



Best New Deep-Water Culture Innovation

THE HYDROFOGGER

We’ve seen countless versions of DWC units on the market, but none with the versatility and efficiency of the new **Hydrofogger**. This affordable single-bucket system works great for even the most inexperienced of growers by utilizing an ingenious double-reservoir system that provides plenty of room for a huge root mass to grow. The Hydrofogger ensures the perfect ration of oxygen-infused nutrient-water solution by incorporating a misting system that continuously “fogs” the growing roots with essential nourishment and also keeps the reservoir well aerated. All that O₂ in the root zone translates into quick and massive plant growth aboveground. Whether you’re growing one monster plant or 12 smaller clones, the Hydrofogger is capable of satisfying all of your needs from seedling to harvest for true DWC growing.

Price: \$99

Contact: Hydrofogger, 440-591-7603, growthponics.com



Best Nutrients

ADVANCED NUTRIENTS

With an unmatched dedication to growing great buds, **Advanced Nutrients** has provided growers around the world with the best variety of nutrients and plant supplements for years. Advanced Nutrients now provides sets of their best nutrients in bundles for every level of gardening expertise, including the hobbyist, expert, professional and grandmaster grower. Regardless of what level you are, Advanced Nutrients guarantees that their easy-to-use products provide the highest-quality results. Their latest products, Ancient Earth and Jungle Juice, are affordable and efficient new nutrients that take advantage of the benefits of humic and fulvic acids for rapid plant growth.

Price: Various

Contact: Advanced Nutrients, 604-854-6793, advancednutrients.com





Hydroplex

HOME OF THE SPINNER

**The Best in New
Hydroponic Technology!**



THE SPINNER is unlike any other hydroponic system on the market. Inside **THE SPINNER**, each plant is rotated on its axis and exposed to light on all sides. The roots within the root chamber are also rotated, improving nutrient distribution.

FEWER PLANTS = LESS TROUBLE

THE SPINNER uses only 12 plants per unit, decreasing your power consumption and increasing your yield.

ENERGY + SPACE EFFICIENCY

SPINNERS stack easily with no extra parts required. Stack **SPINNERS** three high in a 2.5' x 2.5' area with a standard ceiling height.

360° EXPOSURE

Each plant automatically rotates, exposing 100% of the plant to the light source.

QUANTITY + QUALITY

Greater yields at a higher quality than ever before.

EASY ACCESS

With sliding doors positioned all around the unit, accessing any plant is easy.

LIMITED TIME OFFER - ONLY

\$1999.00

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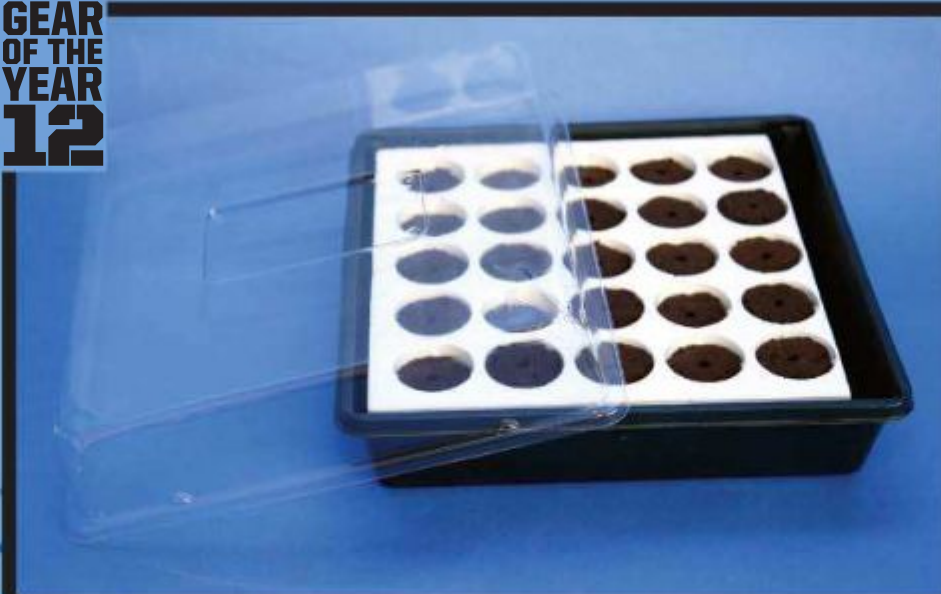
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the SPINNER
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"It's the most innovative grow machine that I've ever seen. I love The Spinner." - Bruce Perlowin



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Best Cloning Tray

EASY ROOTS

Timely and properly rooted clones can make the difference between a successful growing project and a frustrating exercise in humility. The new **Easy Roots** cloning trays provide their users with a quality product at an affordable price that takes the guesswork out of rooting cuttings. This compact unit uses foam-bound Canadian peat that's infused with beneficial bacteria to help strengthen the root system without harming your precious plants. Easy Roots come pre-wetted, with condensation forming on the humidity domes ensuring just enough moisture to get the job done. Cuttings started in Easy Roots are easy to transplant into soil, soilless mix or most hydroponic systems, and the success rate is phenomenal.

Price: \$19.99

Contact: *Maine Indoor Garden Supply, 877-522-MIGS (6447), maineindoorgardensupply.com*

Best Grow-Tray Supports

STURDY-BUILT FLOOD TABLE BENCHES

Strong frames supporting grow trays are a must in order to avoid catastrophic issues such as breakage or flooding. We love the **Sturdy-Built Flood Table Benches** for their amazing durability as well as their versatility in the grow-room. The benches were obviously manufactured with a functional approach that pays extremely close attention to detail. The pitched design keeps stagnant water from pooling, and the rust-resistant powder coating ensures maximum longevity. The unique pocket design of the stand keeps the flood tables from rocking side to side; center supports prevent them from sagging; and locking casters make them easy to move at will. The manufacturer's lifetime guarantee demonstrates real confidence in the quality of these benches.

Price: Various

Contact: *West Coast Growers, 888-924-4769, westcoastgrowers.com*



Best Trimming Innovation

TRIMPRO ROTOR

We've always loved the incredible trimming products available from multiple S.T.A.S.H. Award winners TrimPro, and year after year they continue to outdo themselves in technical achievements. Their newest advancement is the **TrimPro Rotor**, a completely automated unit encompassing all of the best qualities of their classic TrimPro, but with higher walls to keep your prized plants in the cutting zone. Simply drop buds into the trim bucket and watch as the non-stick rubber arms gently move them around the high-quality tempered-steel blades, leaving you with perfectly manicured buds every time. (TrimPro also offers a variety of options for the grate size.) Once the TrimPro Rotor manicures the buds, it stores all of the valuable trimmings in a lightweight, detachable bag for easy transportation.

Price: \$1,435

Contact: *TrimPro, 450-349-0811, trimpro.ca*

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Moving the air that accumulates closest to your plants is crucial for carbon dioxide (CO₂) to reach leaf surfaces, while also strengthening stalks and branches through agitation. The wall-mounted **Infinite Breeze Fans** from Quantum Horticulture not only oscillate from side to side but also move up and down in a W-shaped rotation that reaches much more of the canopy for more effective air circulation at plant level. UV-resistant plastic ensures that your small investment will last for many grows to come, and Infinite Breeze Fans offer three speed settings and innovative wall mountings that keep them out of your way, saving valuable floor space for more plants.

Price: \$59.95

Contact: Quantum Horticulture, 877-HYDRO-US (877-493-7687), quantumhort.com



Best Reflective Product

EASY GROW REFLECTIVE FILM

Maximizing light supply means taking advantage of every lumen available to your plants, and using reflective material to surround a grow space can increase yields substantially when implemented properly. Our testing has revealed that **Easy Grow Reflective Film** provides optimal reflection, increasing light penetration through the densest of canopies. With seven highly reflective liners to choose from, Easy Grow Reflective Film offers reflection products to satisfy any grower's needs. Their ECO Diamond Diffusion Foil is covered in a diamond-pressed pattern for an even distribution of light that also works as a thermal reflector, preventing heat leaks from being spotted from above by police helicopters using thermal imaging to find your grow.

Price: \$30 to \$165 per roll (33- and 100-foot rolls), depending on the grade

Contact: Easy Grow Reflective Film, 866-913-4769, easy-grow.co.uk

Best Stealth Product

VIAGROW AIR SILENCER

All indoor growers know that keeping excessive noise to a minimum is crucial to the success of any pot-production project. Even in legal gardens, loud fans running all day sound almost like airplanes taking off and can really get annoying. After years of fine-tuning, the new **Viagrow Air Silencers** finally solve this aural dilemma using technology similar to the muffler on the back end of a car. The ultra-lightweight design doesn't compromise the strength and integrity of your ducting, and the aluminum-cast flanges muffle almost all of the noise created by your fans and filters. The simple-to-install Air Silencers come in a variety of lengths and duct sizes, providing almost endless options for sound suppression.

Price: \$89.99 (6" x 50 cm);

\$129.99 (10" x 75 cm); and

more

Contact: Hydro Wholesale,

866-803-2100,

hydrowholesale.com



12 Plant PhD's Discover

The Japanese Engineering
Breakthrough That's Allowing Growers

To Multiply Their Yields

From Their Plants Within
The Same Bloom Time



We all want our plants to get into peak bloom phase faster and to yield a bigger harvest. Now, a team of 12 plant PhD's and their research assistants believe they have found the answer ...

"The secret," says Dr. Savov, "Is we implement the Japanese engineering principle of continuous improvement – called kaizen – into developing a better 2-part premium bloom base fertilizer. The principle of kaizen states that small, continual improvements at each step of a multi-part process equals a much larger, compounded total increase in performance in the final product."

Compound Improvement ... The Most Powerful, Plant Growing Force In The Universe?

Much like Albert Einstein called compound interest, "the most powerful force in the universe"—these small, continuous improvements at each phase of a multi-part process yield a very powerful, impressive end result.

So, when it comes to a premium bloom base fertilizer — a team of 12 PhD's working for Advanced Nutrients in a leading Bulgarian research lab simply found multiple ways to improve upon each stage of the two-part process of growing plants.

In the end, it worked exceptionally well to achieve a bigger, compounded, yield — in at least one documented head-to-head, consumer trial — over 40% bigger!

How This Scientific Breakthrough Gets Your Plants Into Bloom Faster and Multiplies Their Yield Without Increasing Your Bloom Time

First, the scientists wanted to improve upon the actual ingredients used in their 2-part formula. The idea was to give you better "Building Blocks" for your plants to use to get bigger yields, more colorful flowers, a stronger aroma and maximum potency. This was the first stage the team improved upon.

Next, they wanted to enhance your plant's abilities to get the maximum absorption of these nutrients because having the highest quality ingredients without ensuring your plants can fully absorb them is worthless. The scientists discovered that most growers aren't seeing bigger yields with other fertilizers because their plants aren't able to effectively absorb the nutrients being used.

Obviously, improving the absorption abilities of your plant greatly compounds the effectiveness of the high quality ingredients being used! Lastly, in an effort to maximize every part of your plant's deepest core levels of plant bloom metabolism and floral production, the scientists developed a proprietary blend of floral growth co-factors to activate and control these core issues.

These co-factors include amino acids and amino acid precursors essential to protein formation which promote cellular metabolism, replication and other bloom processes. In addition, other proprietary co-factors create enhanced changes in how plants carry out bloom

phase functions.

Let's examine how the scientists improved these phases in developing the ultra-premium, 2-part bloom base nutrient for Grand Master Growers – Connoisseur!

Instead of using low-quality, questionable ingredients—the team at Advanced Nutrients invested heavily in putting to use only the most potent, most effective, most proven ingredients possible (ingredients no other company uses because of the high cost to both source and manufacture these ingredients into bloom fertilizers!)

How To Ensure Your Plant Gets The Maximum Uptake Of Nutrients ...

To start with, every single one of the micro-nutrients used in Connoisseur is chelated so you get maximum absorption and uptake of these amino chelates into your plants. With a theoretical absorption range of pH 1-10, this in effect means you get the highest absorption rate possible of these life-giving micronutrients for as long as your plant is alive!

What's more, Advanced Nutrients, has also invested heavily into chelating a high percentage of the macro-nutrients used in Connoisseur to get your plants to bloom faster and keep them in that bloom phase longer!

How Growers Of High Profit Plants Are Making More Money With This One, Simple Scientific Breakthrough ...

If you count on your plants to make you money, you're going to love Connoisseur!

Here's why commercial growers of rare and profit-producing plants love this comprehensive hydroponics fertilizer formula ...

- You get a faster time to peak bloom time ... meaning you get to sell your plants faster!
- You get more flowers and more weight per flower ... which means more money per plant!
- You get more aroma, more taste, and more color in your plants ... which means you get more satisfied and repeat customers!
- The bottom line? You get more profits per each crop cycle!



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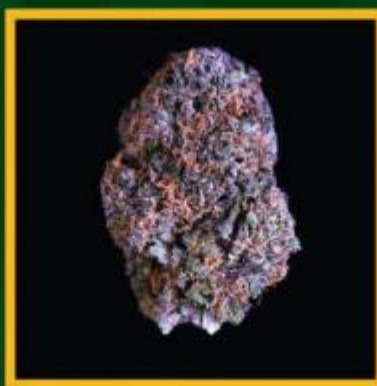
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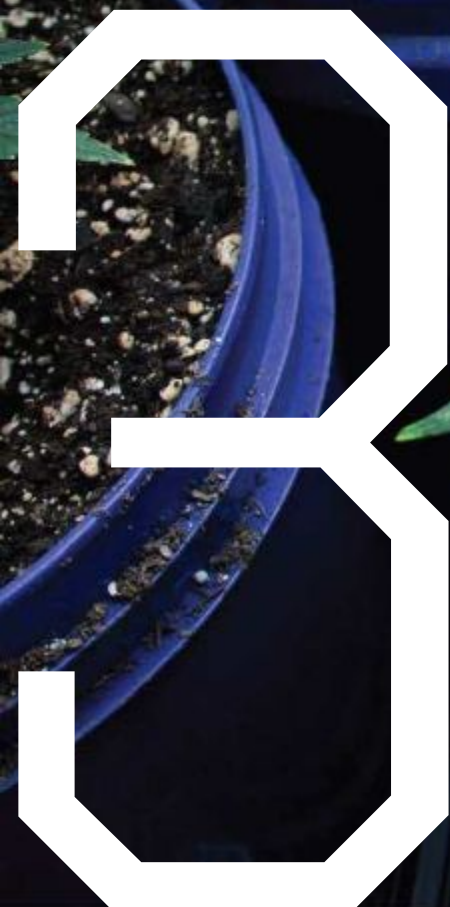
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With 14 of the nation's 50 states (plus DC) already on the books as medical-marijuana states, and more on the verge of passing similar laws, it's no surprise that more and more people are growing in neighborhoods all around the country. And as more and more people start to grow their own herbal meds, society will continue to adapt, perceiving marijuana as just a normal part of life.

That's why we've decided to put together a few simple ways to get started for all you out there thinking of getting on the medical bus to homegrown happiness. If you're new to the scene, then this article is just for you, since its focus is on small-space growing with good returns and, of course, good buds. **By Felix Green**

Soil and soil-less mixes are the most forgiving grow mediums for the beginner grower.



EASY WAYS TO GET STARTED

ABOUT SOIL

For most new growers, soil is usually the best and easiest way to go. It has a tendency to be more forgiving of the minor mistakes that can happen when you're starting out. There are a number of different ways that you can use soil, everything from simple plastic pots to 5-gallon buckets or more elaborate containers like Earthboxes.

Earthboxes are one of the more expensive options, but they're pretty much worth every penny. The reason these boxes are good for beginners as well as advanced growers is that they protect against overfeeding and reduce the chances of underfeeding. And for any new grower, learning the feeding cycle is an important and difficult process.

If Earthboxes seem a little too expensive or intricate, then 3- or 5-gallon buckets will work just fine—but make sure that you buy two buckets for every plant you plan to grow. The reasoning here is that you can then drill holes in the bottom of one pot and place it into the other one without holes. This helps to improve drainage and reduce the chances of overfeeding, which can create root rot and impair healthy root growth.

The holes in the first bucket allow any unused water to drain out the bottom into the second container. If you don't have some type of drainage in your pots, excess water can build up at the bottom and prevent a good water-to-air ratio. If you can't afford to buy extra buckets, make sure you still cut holes in the bottom of the ones you do use (assuming they're not already there) and place a plastic catch plate under them.

The key to any healthy, productive plant is a good root base. Without that,

the plant can't absorb the proper amount of nutrients to form healthy buds. No matter what type of container you use, make sure that you buy a good soil or soilless mix. Any of FoxFarms' mixtures are great, such as their Planting Mix for seedlings and clones, or their Marine Cuisine for the vegetative-growth stage (and sometimes the first few weeks of bloom as well). Light Warrior is another great mix that comes highly recommended.

These products are especially good for new growers because they come with basic nutrients already mixed into the soil. With the nutrients premixed, all you have to do is feed the plants with water at the proper pH for about three to four weeks, depending on their growth. After about a month, the plants will have consumed most of the nutrients in the soil, so you'll need to start adding nutrients on your own.

The pH factor is another reason that growing in soil is better for beginners. Over time, plants in soil can slowly adjust to a slightly "off" pH level. Most plants like the pH balance to be somewhere between 6.2 and 6.7 in soil, whether you're using plain or nutrient-mixed water. If the pH is off-kilter, your plants will not take up nutrients through their root system. A grower can tell if the pH is off by the way a plant's leaves twist at the tips; they resemble a hand that has lost its finger-muscle function.

So with soil, it can be as basic and easy as you want to make it at the beginning. Just buying the right soil and simple nutrients can get you started on your way, eventually progressing onto more complicated diets and environments that will help you produce even bigger buds.

HYDROPONICS

When talking about hydroponics, there are all kinds of methods and systems that we can discuss. There are elaborate setups and also simple hydroponic systems that can produce some primo pot. Your choice will basically depend on your knowledge, time and the money you're willing to spend on the project. In this section, we'll introduce you to some of the basics of hydroponic growing.

Two of the most crucial things you need to know about hydroponics is that it's all about your reservoir and the plants' feeding cycle. These two areas are emphasized because, without a well-balanced reservoir that is on a proper feeding cycle designed for that particular system, your plants will never thrive and will produce only gangly, unhealthy buds.

Most hydroponic systems operate at a pH balance of somewhere between 5.5 and 6.2. Each system and plant varies, but look for signs on your plants (such as the leaf tips twisting) to tell you what they like (or don't like). Nutrients and temperature will alter the water's pH level as well. Growers should never pH the water first—always do it after adding any nutrients, and always go back and check after it's been sitting in the reservoir for about a day. Pumps create heat, so they can raise the temperature of the water, which affects the pH as well.

Another good idea is to always have two pumps in your reservoir: one that feeds the plants, and one that keeps the water stirred and mixed. The pH level goes up when the water temp increases—but most water comes out of the tap cold, so if you check the pH level of a cold glass of water right out of the tap (i.e., with nothing added to it), the pH will be lower than if you went back to that same glass of water when it was at room temp or warmer.

The temperature of the reservoir is also important: You want to keep it below 75°F. This is a problem that even experienced growers battle. If the temp rises above 75°F regularly, problems like bacteria and disease can form, killing a plant's root system. When designing a system that fits your space, make sure that the reservoir has sufficient ventilation. It may also be necessary to leave the top off, allowing any heat to rise out.

Also keep in mind that reservoirs need to be shaded from light. Extensive exposure to light can be very bad for them, because it will raise the temperature of the reservoir and turn the nutrients in the water bad. Most reservoirs are located under a table or off to the side of the room for a deep-water culture (DWC) or ebb-and-flow system.

The next thing you need to take into consideration when growing hydroponically is the feeding cycle. Depending on what type of system you choose, there may be a built-in timer that will help you run your operation. If you're using a drip system, there's a chance you're using a digital timer or a more advanced cycle timer. It's easy to find basic heavy-duty and digital timers at most local hardware stores. As for cycle timers, they can be found at most grow stores or else ordered by them. Green Air Products makes a great one that has adjustable settings.

Advanced timers like the Green Air cycle timer have two functions: an interval setting and a time



Hydroponics can create massive root systems and larger yields.



Rockwool slabs like these offer less buffering but can hold plenty of water.



Hydro systems offer a variety of feeding methods like this top-fed, soil-less mix system with sprayer nozzles.

setting. So, for example, if you want to feed your plants for five seconds every 15 minutes, you can set it that way; if you want to feed your plants for five minutes every hour, you can set it that way as well. These cycle timers are much more expensive than other conventional timers, but they're worth it depending on your system. (They can also be used for other items in your growroom, like air filters and CO₂ systems.) These timers come in two models, one of which has a photo sensor that allows the timer to work only when the lights are on.

This part is especially important: You should never feed your plants while the lights are off. When you're growing in soil, this usually isn't a problem, because you typically work on the plants while the lights are on. But with hydroponic systems, there is usually some sort of timer setup to feed the plants on a daily basis. Your plants should always get their first feeding of the day when the lights are just coming on, and then periodic feedings throughout the day while they're still on, whether your plants are in the vegetative or flowering stage.

Determining your feeding cycle is where hydroponic growing can get tricky. When the plants are smaller, they don't require feeding as often—maybe once a day when they're slightly bigger than clone size. Once your plants have matured and grown, you might be feeding them every two hours. The medium that you decide to use also helps determine this. If you're using rockwool blocks and slabs, you may not have to feed your plants as often; rockwool retains water very well, and it's usually contained in plastic, which doesn't allow it to "breathe" and dry out as quickly. With clay aggregate or lava rocks, the roots of the plants are exposed to a lot more air, requiring you to feed them more frequently so that their roots don't dry out.

Both mediums work very effectively, so determining which one is best for you depends on your situation. With rockwool blocks and soil, you'll have to worry about disposing of the materials at the end of a growing cycle. With the rocks, you can simply wash them in a sink or tub and they'll be ready for use in your next garden.



These 1,000-watt lamps are air-cooled using 8" flex ducting.

GROWROOM BASICS

Now that we have some of the basics down, let's consider a few examples of simple gardens. Whether you decide to go with soil or hydroponics, the setup of the room will be the same: Good air ventilation (including odor control), proper lighting, and enough electricity to power your garden are the primary starting points for an indoor grow operation.

No matter how big your growing space is, there are plenty of products on the market to suit your needs. You can buy everything from 1-gallon bags or pots to a larger Earthbox-style trough. If you're growing hydroponically, there are flood trays that start at 2' x 2' as well as larger sizes and various shapes. There are also ebb-and-flow bucket systems (a.k.a. deep-water culture or DWC) that can be customized to fit in any grow space.

Once you've decided on a system, the next thing you'll need to focus on is your lighting, which will also depend on the size of your growroom. A 600-watt light produces a 3' x 3' light footprint, while a 1,000-watt light produces a slightly larger footprint (4' x 4'). You should use these basic measurements in determining your grow space. For example, two 600-watt lights are a perfect setup for a 3' x 6' flood table, while one 1,000-watt lamp is perfect for a 5-gallon DWC system of four to six buckets.

After choosing the type of lamps, the next

step will be to figure out how to cool them and maintain the correct growroom temperature. If you're using a dedicated room inside a house for growing, normal window-mounted air conditioners will usually work. If you don't have a window that's accessible, in-room air conditioners can be a great option. These are stand-alone units that use 4" to 5" ducting to disperse the vented heat out of a window or into another room in the house via ductwork and vents constructed in a shared wall or door. (Note: When determining how big an air conditioner you'll need for a given space, remember that a single 600-watt light produces 2,500 BTUs, while a 1,000-watt light emits 4,000 BTUs.) Dispersing the heat can be particularly useful in the wintertime if the grower lives in a cold climate, as the heat byproduct from the growroom can be used to heat another room in the house, such as a bedroom. This can help to offset the cost of the electricity used to power the growroom lights by allowing the home to use less power on heating.

The next important aspect of a growroom's setup is ventilating both the room air and the heat

coming off the lamps. Most growroom lamps come with hoods that have flanges on the sides specially designed for 4", 6" or 8" ducting. This allows growers to attach the ducting and in-line fans to suck away heat produced by the bulbs and exhaust it out of the grow space. This can be done on a separate conduit circuit from the normal air-exchange systems if the growroom is using two or more lamps—meaning that cooler air can be sucked in from outside the room, passed over the bulbs, and then vented right back out of the room. If a grower is running only a single lamp, however, air from within the room can be sucked in, passed over the bulb and blown out of the room—effectively cooling the bulb, removing heat from the room, and acting as a general air circulator, all in one system and using only a single fan.

As far as circulation fans go, wall-mounted fans work very well because they don't take up any floor space, which can be valuable in many growing situations. Vertical (adjustable-height) floor fans and little floor turbo fans can be purchased at just about any retail store and will work fine as well. Either way, it's important that you have fans moving the air so that it doesn't become stagnant and allow heat pockets to build up.

Lastly, odor control is often the most overlooked and difficult part of growing. Without a good odor-elimination system, grow ops can become a big problem. There are basically three ways of controlling the pungent smell that plants put off. The first option is a carbon (activated-charcoal) filter. These work the best of all the options out there, but they can be bulky and expensive in some cases. Carbon filters come in

various sizes and can work with just about any operation; they start about as small as a 2-liter bottle and increase in size to over 5 feet tall. (The largest models can be fairly wide and pretty heavy as well.) They also vary in the size of the ductwork that they can accommodate, with most models being capable of handling 6" to 12" ducting.

Another option for odor control is the use of ionizers. These devices neutralize the atmosphere on a molecular level and provide a workable growing space. Ionizers, however, are not always the

best for your plants. When using them, try not to locate them in the same room as your plants; you should always try to place them in an adjoining room or outside the door.

The last option for odor control is the use of air fresheners. This is probably the least effective of your options, because even if you use really good ones, all they do is mix with the smell of your plants to create an odor that still smells kind of like weed. ONA is one of the leading companies for industrial-size odor deterrents; there's even a model with a fan that disperses the solvent throughout the room. In truth, it's best to use at least two of these three options in conjunction to make sure that your operation is secure.



A carbon filter "scrubs" the air for odor control.

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3 EASY WAYS TO GET STARTED

SETUP 1

For people who live in medical states and are limited to a certain number of plants, large soil containers and hydroponic bucket systems are both great options. These systems allow growers to grow larger plants that will produce a more rewarding yield.

Ebb-and-flow or DWC bucket systems come with a number of buckets that usually provide from six to 12 plant sites. These can be either 3- or 5-gallon bucket pots that connect to both a main bucket (the mechanical brain of the system) and a large reservoir. The “brain” bucket has a built-in timer and outlets that control the pumps. This main bucket is hooked up to the larger reservoir that controls the rest of the buckets. Located inside the “brain” are float valves that control the level of water for all the buckets hooked up to the system. When the main bucket is flooded, all the buckets fill up to the proper height. After a set time, the “brain” bucket then empties itself using a small pump that is located inside and will drain the water out of it as well as the rest of the buckets in the system.

However, there is usually about an inch of water that remains in the bottom of each bucket. This actually helps out when the plants become bigger and their roots stretch down through the holes in their net pots sitting at the top of the buckets (hence the name: deep-water culture). If, for some reason, your pumps fail or you lose electricity, the small amount of water that remains in the buckets can feed the plants for as much as a day or two—and when working with hydroponics, that extra margin can be crucial.



This DWC bucket system is perfect for growing large plants -- in this case, mothers for clones.



This flood-and-drain system houses the reservoir underneath the flood tray for ease and safety.

SETUP 2

For growers who aren't concerned about plant limits, using flood tables is probably the best bet. Growing a bigger number of small plants is easier than maintaining and growing large ones. For systems like these, smaller plastic containers filled with hydroton pebbles (hardened expanded clay) work great. The larger 6" x 6" rockwool blocks also work well in table systems.

Both of these options work more efficiently because there is no need to use extra rockwool slabs underneath for the roots to grow into. If you decide to grow larger plants on a flood table (though this is *not* recommended, because the smaller containers and rockwool cubes will not be able to provide adequate support for these plants), growers will need to use a trellis or similar system for added support. If a grower does decide to grow larger plants in a “sea of green” (SOG) format, they should use rockwool slabs at the very least, because these slabs allow the plants to form a larger root base that will help to support them as well as increase their nutrient uptake.

When using a flood table, you should always place the reservoir underneath it. This helps when flooding and draining the table, making these transitions a lot smoother. It also comes in handy if, for some reason, any cracks form or the tray breaks, as you have a better chance of the water leaking back into your reservoir and not on the floor.

For these setups, you can usually use an industrial timer with 15-minute intervals, which can be purchased at most hardware stores or grow shops. When you're using a system like this, you can flood the table for 15 minutes every three to four hours when the lights are running. Growers may choose to feed their plants at six-hour intervals when they're smaller and still in the vegetative and early-bloom stages. The most important thing is that you pay attention to your plants and let them tell you if the feeding cycle needs to be increased or decreased. As with growing in soil, you don't want to overfeed your plants or the roots won't form as quickly as they should.





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3 EASY WAYS TO GET STARTED

The Earthbox allows for flexible feeding and soil mediums.

Even outdoors, soil in large containers can be just as good or better than in the ground.



SETUP 3

When asked the best way to grow in soil, the common answer from advanced growers who like to keep it simple is “Earthboxes.” These grow containers can really make growing as simple as filling the boxes with the soil (or soilless mix) of your choice and then feeding your plants every few days.

The boxes come with a reservoir attached at the bottom that holds 2 to 3 gallons of water or nutrient solution. Placing a small container beneath them when filling the boxes is a good idea: These units have a built-in overflow hole drilled into them to help eliminate overfeeding.

Another benefit of growing in larger soil containers is the ability to stake your plants or add various types of support. Unfortunately, when growing with hydro, you don’t always have the option to stake your plants, because there’s nothing to drive the stakes into. With Earthboxes, you can really grow a plant to its fullest potential by utilizing bamboo stakes or string netting. Spreading the branches out allows the lower parts of a plant to receive more light and produce more nuggets, thereby increasing yields.

There is also a Velcro tape that you can purchase at most garden stores to help stake plants up. Velcro tape is preferred because it’s very easy to work with. Growers can also drill holes in the sides of the boxes and pull the branches apart, undoing the tape and reapplying it as the plant grows. The tape is made of pretty durable material, so you can reuse it in more than one garden.

And that’s about it. Hopefully, with these helpful hints on a few easy gardens, we’ll have more and more growers popping up all over the place. And with more growers and cultivators out there comes more private genetic breeding and the continued progress of this wonderful plant that we all love to enjoy. 🌿

String netting serves as a support frame for holding up and separating heavy branches.



Large containers equal larger root structures, larger plants and larger yields.



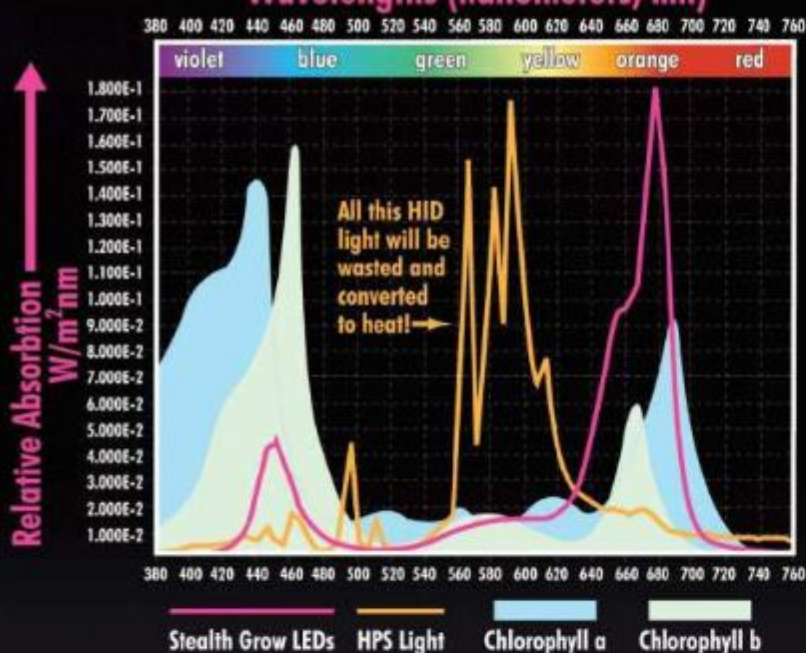
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A legal medical marijuana patient carefully considers the offerings at Oakland's Harborside Health Center

DEFENDING DISPENSARIES

The media likes to portray California's medical-marijuana dispensaries as some kind of out-of-control 'Wild West,' but our insider's look reveals that America's \$2-trillion-per-year health-care industry could learn an awful lot from the best medical-cannabis collectives when it comes to putting patients before profits. By David Bienenstock

One man from Illinois lost his coverage in the middle of chemotherapy because his insurer found that he hadn't reported gallstones that he didn't even know about. They delayed his treatment, and he died because of it. Another woman from Texas was about to get a double mastectomy when her insurance company canceled her policy because she forgot to declare a case of acne That is heart-breaking, it is wrong, and no one should be treated that way in the United States of America.

—President Barack Obama, speaking to a joint session of Congress

This article is about *Cannabis sativa*, not President Obama, so let's all set aside our partisan politics for a moment. What makes the above quote relevant isn't who's speaking so much as what's being said. On live national television, the President of the United States acknowledged that America's so-called "health-care" industry hires roomfuls of people to figure out how to screw you out of services you've already paid for, based on obviously irrelevant technicalities, even if the consequence is your own death.

At least, that's what happens if you've *got* insurance, never mind if you don't. And yet, the men and women who run these companies and make these decisions earn millions of dollars every year and get treated like pillars of society. Through it all, they comfort themselves into a good night's sleep with a simple bedtime reminder that, as CEOs, they've simply got to do whatever's going to make the most money for their shareholders. In our capitalist system, anything else would be irresponsible.

Hell, even Obama let them off the hook in the very same speech.

"Insurance executives don't do this because they're bad people," he said, referring to the business practices sometimes known as "murder by spreadsheet." "They do it because it's profitable."

Profit—apparently a motive so sacred that it's worth letting a man die in the middle of his cancer treatments. Which is ironic, of course, because San Francisco's legendary Brownie Mary—and so many medical-marijuana activists like her—thought it was worth risking their own freedom in order to supply a miraculously healing herb to cancer and AIDS patients with nowhere else to turn.

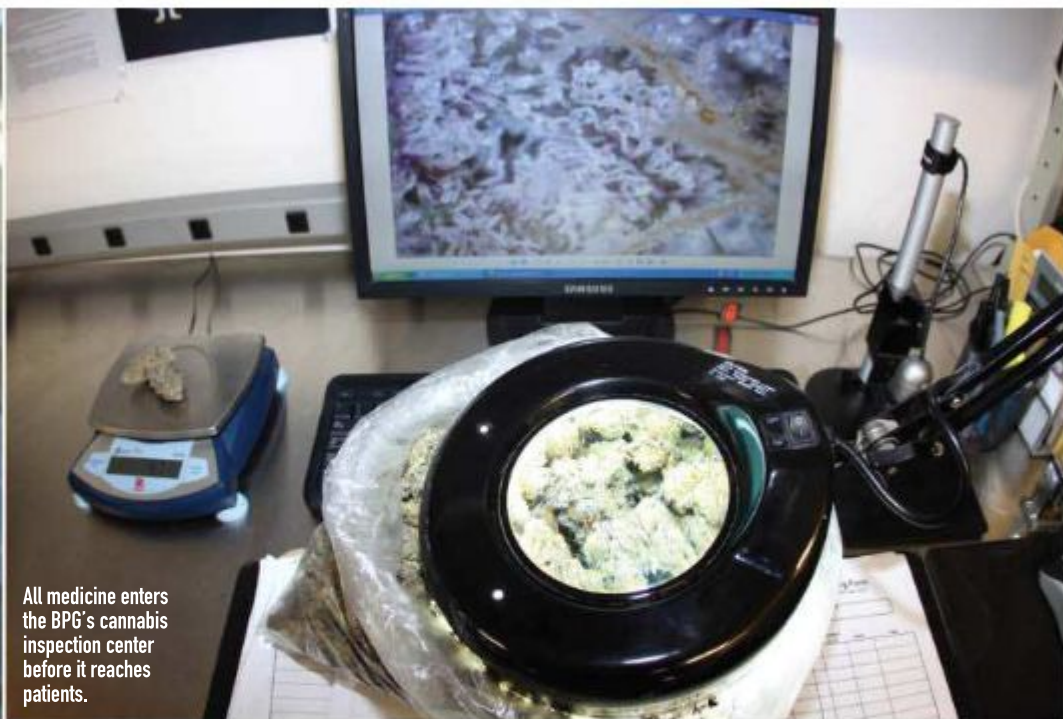
"My kids need this, and I'm ready to go to jail for my principles," hospital volunteer and medicated-dessert heroine Mary Jane Rathburn once said. "I'm not going to cut any deals If I go to jail, I go to jail."

Brownie Mary was twice arrested for supplying completely free medicine to the sick and dying, made from ingredients donated by kind-hearted cannabis cultivators from all around the Golden State. Nurtured by this example of propaganda by the deed, the early seeds of the modern medical-marijuana movement began to take root, and Brownie Mary would go on to help pass California's groundbreaking Proposition 215 voter initiative and open the legendary SF Cannabis Buyers Club, America's first openly operating medical-cannabis dispensary.

But even after passage of Prop. 215 in 1996 made California the first state to legalize medical marijuana, many more activists would be arrested, incarcerated, sent underground or exiled for the same crime of



Debby Goldsberry, founder of the Berkeley Patients Group



All medicine enters the BPG's cannabis inspection center before it reaches patients.

'We thought every day was our last day. Raids were happening all around us, and we lived under constant threat of being closed by the DEA.'

compassion. So let us never forget that, long before medical marijuana ever became a "growth industry," it was an act of civil disobedience that often brought with it dire consequences. And even today, in this supposedly more enlightened era, where the US Justice Department has promised to respect state law, we still see raids and arrests at the hands of the federal government that leave medical-cannabis providers in hot water and their patients "not high and dry."

Debby Goldsberry, founder of the Berkeley Patients Group, has lived with that threat long enough to celebrate the 10th anniversary of her dispensary on October 31, 2009—a date officially designated "Berkeley Patients Group Day" by the City Council. Asked if she ever expected such a high honor from the local government, Goldsberry smiles wryly and shakes her head.

"We thought every day was our last day," she explains regarding the dispensary's early years. "Raids were happening all around us, and we lived under constant threat of being closed by the DEA. Fortunately, the city of Berkeley has been extremely supportive."

Walk into the Berkeley Patients Group today, and once you make it past the friendly (but professional) security staff and verify that you're a legally sanctioned medical-marijuana patient, you'll enter an inner realm where the long-held dream of "safe and legal access" to medical marijuana has become a reality. In addition to a wide variety of cannabis strains and concentrates, plus edibles, seeds, clones and extracts, the BPG also accommodates onsite medication and provides members with free services, including therapeutic massage, acupuncture, legal as-

sistance and tutoring. They also offer financial support to both community programs like the local library, youth center, school-lunch program, homeless outreach and YMCA, and the national marijuana-law reform movement, including Americans for Safe Access, Students for Sensible Drug Policy and BPG's own grassroots activism.

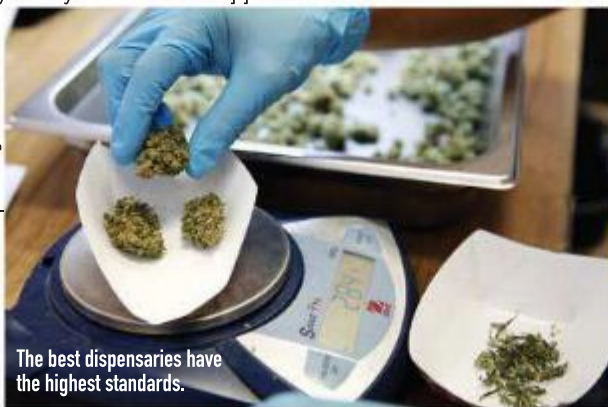
Less than 10 miles to the south, another longtime marijuana activist, Steve DeAngelo, describes the Harborside Health Center in Oakland as his "life's work," a showplace dispensary capable of serving as a model for the rest of nation to emulate as medical marijuana continues to spread, state by state. Spacious, professional and welcoming, HHC offers a plethora of cannabis medicine, all of which is lab-tested for potency (THC, CBD, and CBN) and impurities (molds, bacteria, chemical residues), plus a diverse selection of clones and a full range of free services that includes weekly classes on how to grow your own medicine—despite the rather obvious conflict of interest with its own core business. And, oh yeah, HHC paid \$3 million in taxes last year, not to mention providing over 100 truly green (and much-needed) jobs in cash-strapped California.

Ultimately, DeAngelo believes that the greatest service HHC can provide is giving the world a living example of what responsible cannabis distribution looks like, a vision potentially powerful enough to dispel nearly a century of prohibition and propaganda and help usher in a new era of complete legalization.

"We need to demonstrate to our fellow citizens that we're worthy of their trust," DeAngelo says. "We must prove to them that cannabis can be distributed in a safe, seemly manner."



Steve DeAngelo, executive director of Harborside Health Center.



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To most medical marijuana patients, California looks more like the promised land than the "Wild West."



To a certain mind-set, marijuana—medical or otherwise—will only become respectable when the investor class finds a way to cash in.

Unfortunately, the vast majority of Americans have never set foot in a medical-cannabis dispensary and consequently rely on the media for information about them. And so it was concerns over the "Wild West" of California—flames fanned by near-constant repeats of *Marijuana Inc.* on CNBC—that prompted New Jersey lawmakers to severely limit the ailments eligible for a doctor's recommendation when they passed the nation's newest medical-marijuana law in January.

The New Jersey Compassionate Use Medical Marijuana Act, which took effect on August 1, also prevents those patients who do qualify from any form of self-cultivation, making it the first medical state with such a ban, one that effectively forces patients to buy their medicine from a state-licensed "alternative treatment center." The first six such dispensaries, spread across the state, will operate as nonprofits, but the law specifically allows for future dispensaries to turn a profit—another dubious first for New Jersey.

"I think we all see what's happened in California," New Jersey's governor-elect, Chris Christie, commented just before the bill was signed into

law by his lame-duck predecessor, Jon Corzine. "It's gotten completely out of control."

Naturally, if Mr. Christie, now the governor, finds a system where chronically ill patients can grow or buy a medicinal plant without fear of arrest to be "completely out of control," well then, he must be pretty deeply fucking troubled by the blatant abuses of the health-insurance industry, which, as noted earlier, would rather see you die on the operating table than pay what they owe for your surgery.

Then again, don't hold your breath waiting for those guys to be held accountable. It's a double standard so blatant you can't even wrap your mind around it, but at the end of the day, cut-throat health-insurance executives earn society's respect not for healing, or even helping, but for making profits, while medical-cannabis dispensary workers who

risk arrest every day to bring ill patients what their doctors recommend face society's reproach for "making money selling drugs."

To a certain mind-set, marijuana—medical or otherwise—will only become respectable when the investor class finds a way to cash in. But while California currently permits the lawful cultivation, transportation and sale of cannabis for medical purposes, and employees can earn a "reasonable salary" for performing these tasks, *all* such enterprises must be organized as nonprofit entities. Which means that for-profit corporations, like those that run our health-insurance system, need not apply.

Meanwhile, what Governor Christie's comment makes obvious is that we all *don't* see what's happened in California. It's certainly



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The Revolutionary Love Project transformed this abandoned house into a community center in Sacramento.



Yvonne (a.k.a. 99), founder of the 99 High Art Collective.



An art opening at the 99 High Art Gallery.

doubtful that Christie's familiar with the Revolutionary Love Project, a joint effort of the Cannabis Buyers Club of Berkeley, the Capitol Wellness Collective and the Tahoe Wellness Collective that's brought medical-cannabis patients and volunteers together to create the newly opened Freedom House in Sacramento.

"We have taken a house that was destroyed and abandoned by the homeless and drug abusers and are turning it into a community center," explains volunteer coordinator Courtney Sheats. "Together, we can begin to meet the needs of those who suffer most in the community, and help to address the issues of poverty, education, health and humanity."

At the 99 High Art Collective in Venice, the founder, Yvonne, was inspired to open a combination medical-marijuana dispensary and art gallery for more personal reasons.

"When my mother was diagnosed with cancer, I knew it was time to share with her everything I knew about marijuana. So I decided to create a place where my mother and all medical marijuana patients could feel safe, comfortable and joyful acquiring their medicine," Yvonne explains. "I never understood why healing had to be done in a sterile environment, devoid of art, love, music, and good vibes. We believe that there is an art to healing and healing is an art—to us, they are inseparable."

Again, the focus is not just on cannabis, but community, compassion and creativity as well—three powerfully healing forces that the modern health-care industry not only fails to foster, but wouldn't even recognize unless you figured out a way to slap a price tag on them. And speaking of price tags, that brings us to the flip side of the dispensary argument: If the prohibition tax on supply keeps slowly dissipating, how come top-grade bud at the best dispensaries still costs up to \$75 an eighth? Where's the compassion in that?

Well, first of all, before you declare total victory in the fight for medical marijuana, even in "out of control" California, better talk to Jeff Joseph about Organica, his all-organic medical dispensary in West LA that's been consistently harassed over the past two years by the DEA, the Los Angeles County Sheriff's Department and the LAPD, including raids and arrests that occurred long after Obama officially vowed to respect state law when it comes to medical marijuana.

The fact is, until federal law changes, dispensaries remain technically illegal, and those who operate them still run risks you'd rather not think about. They also have to cover overhead that includes rent and utilities, payroll, taxes, legal compliance, packaging, security, insurance, quality control, member services, and other costs not traditionally associated with cannabis distribution.

Meanwhile, California law allows medical-marijuana patients to grow their own medicine, arrange for a caregiver to grow it for them, or join a nonprofit cultivation collective that cuts out the middleman entirely. With all these options available, California patients who choose to visit a dispensary do so because it's convenient and safe; because there's a large selection of well-sourced, high-quality medicine sold on an open exchange at an agreed-upon rate; and because they know they'll be treated like patients instead of criminals. It's not a perfect system—but when compared to the corporate health-care alternative, the difference is as clear as life and death.

So the next time you hear some politician claiming to support medical marijuana as long as their state doesn't become "the next California," remember to ask them why the hell not—and whether they'd rather break bread with a medical-marijuana provider or a health-insurance CEO. ✨