

SPECIAL 420TH COLLECTOR'S ISSUE

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JAN 4/20

**420**

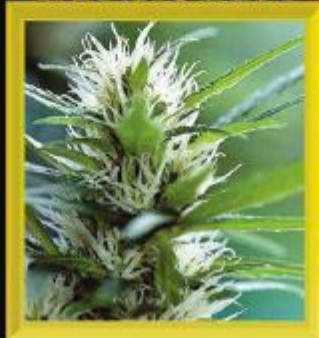
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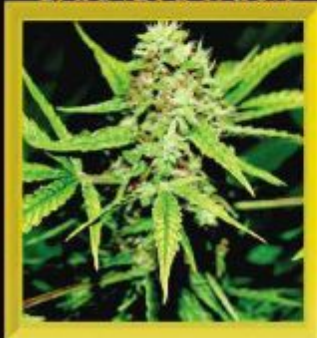
# GOLD COLLECTION

BARNEY'S FARM



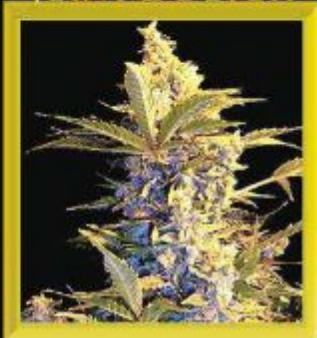
LSD

BARNEY'S FARM



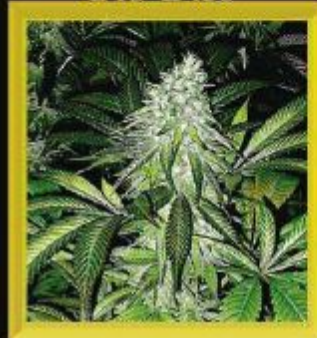
VANILLA KUSH

JOINT DOCTOR



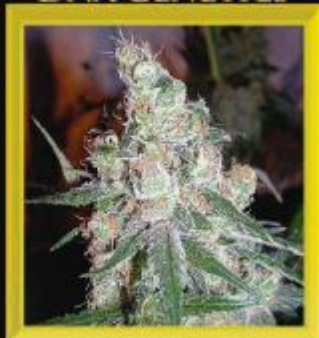
EASY RYDER

G13 LABS



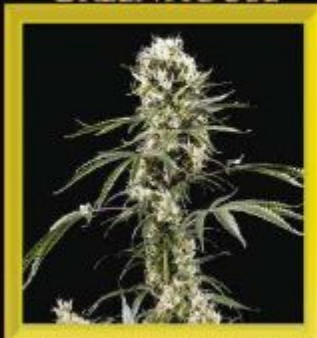
PINEAPPLE EXPRESS

DNA GENETICS



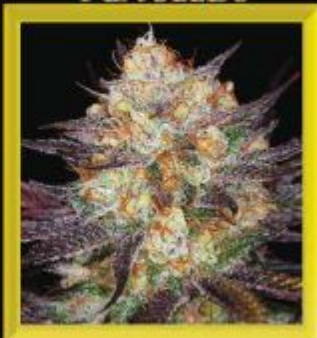
CHOCOLOPE

GREENHOUSE



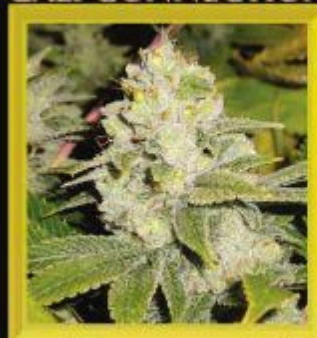
SUPER LEMON HAZE

TGA SEEDS



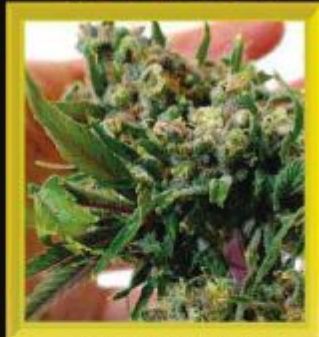
QUERKLE

CALI CONNECTION



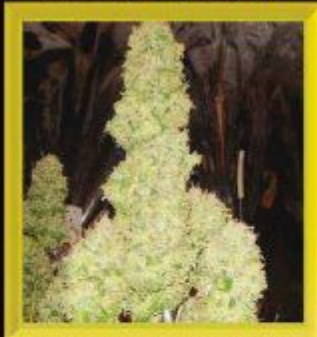
DEADHEAD OG

BIG BUDDHA



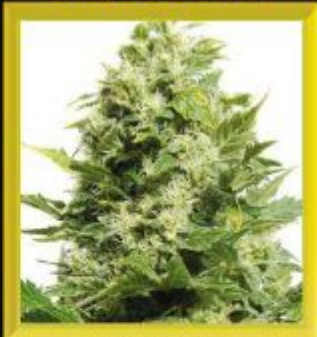
BLUE CHEESE

SERIOUS SEEDS



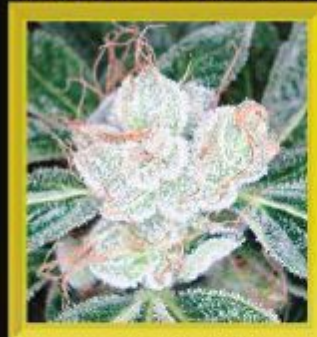
WHITE RUSSIAN

BIG BUDDHA



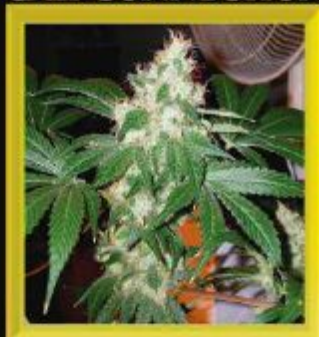
CHEESE

RESERVA PRIVADA



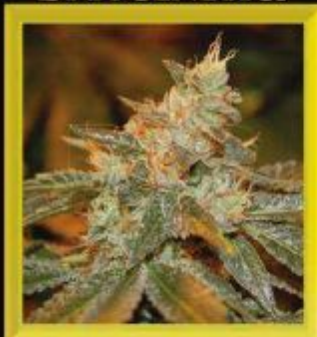
SOUR KUSH

CALI CONNECTION



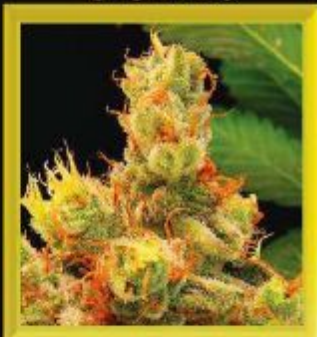
CHEM VALLEY KUSH

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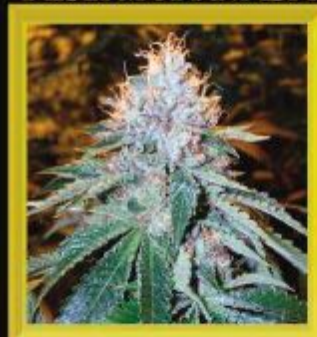
CATARACT KUSH

G13 LABS



BLUEBERRY GUM

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OG KUSH #18

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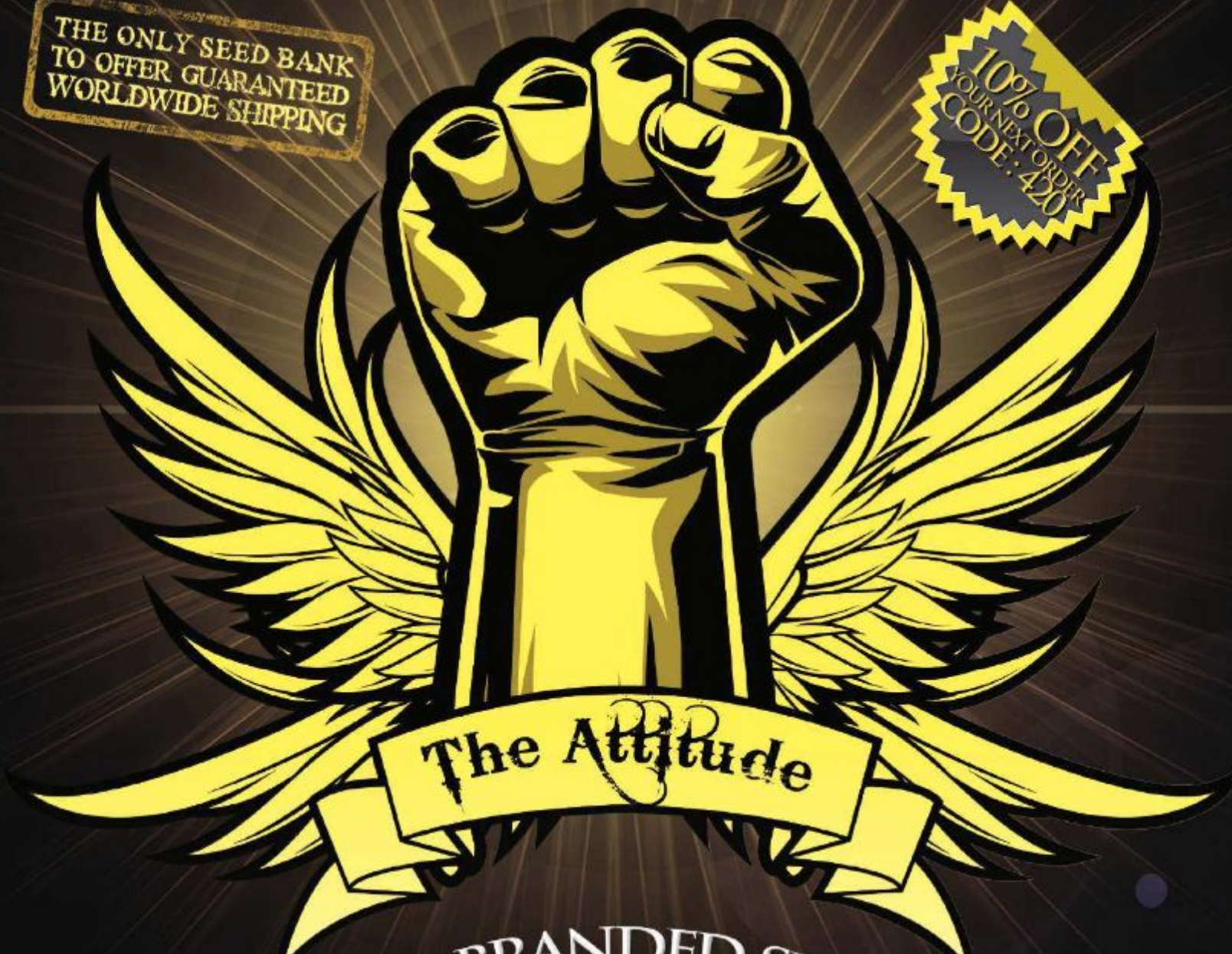
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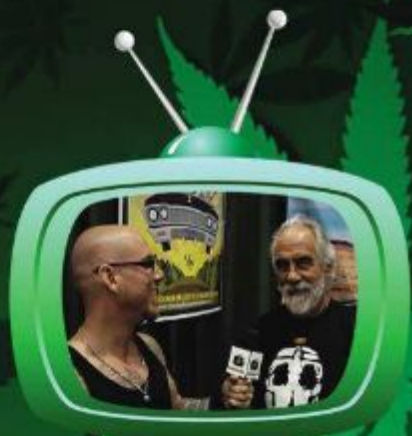
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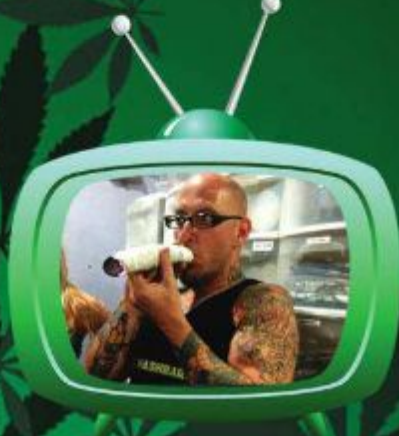
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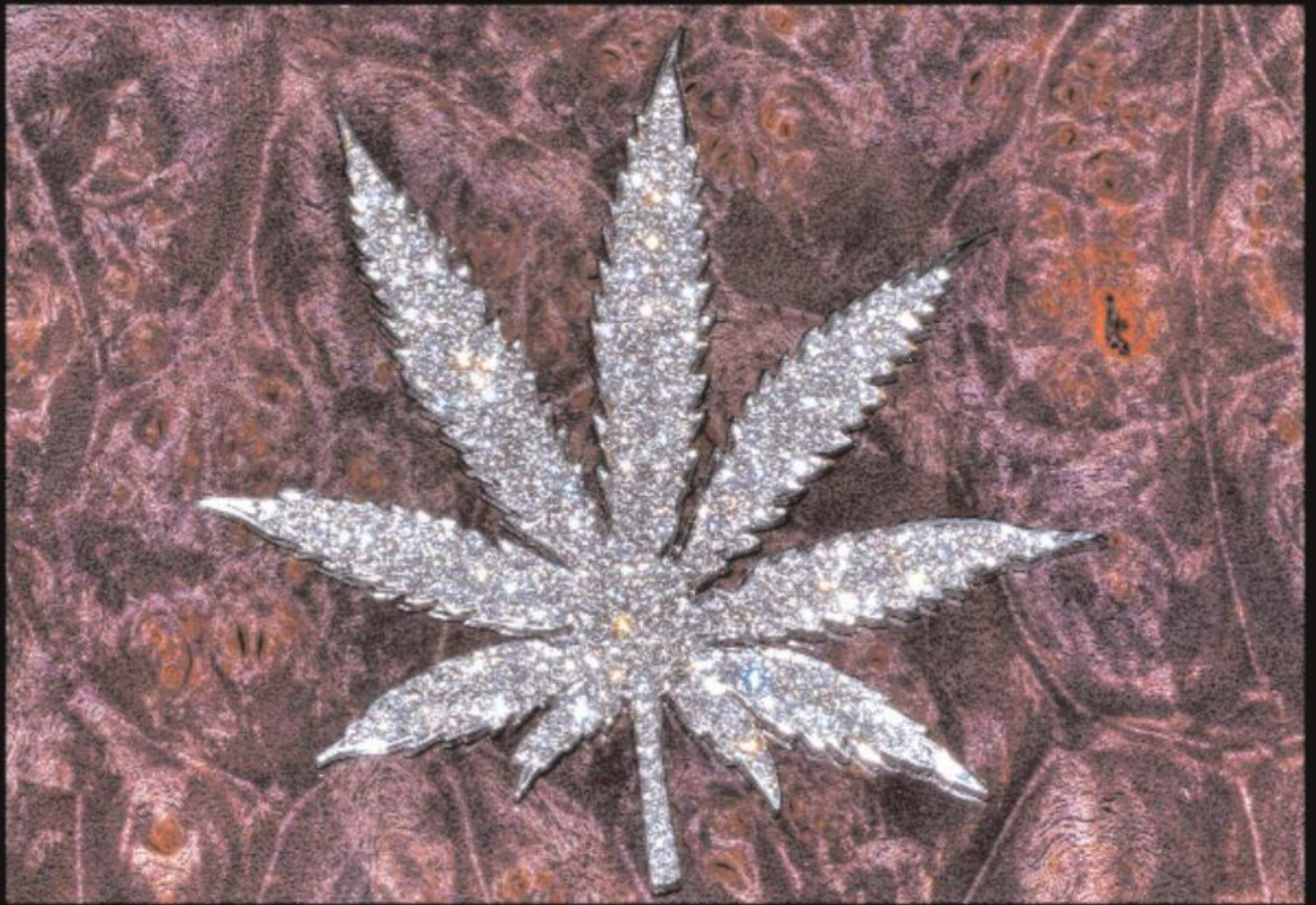
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The Artist Kelsie works her magic on Miss HT Brittany Wagener. See page 14!

## OUR 420TH ISSUE!

Special-celebration issues are a visible milestone for the HIGH TIMES staff. They're a time to take stock of the magazine and celebrate the elements that have contributed to our longevity. They're also a time to feel fortunate—because being part of HIGH TIMES is also to be a part of the modern cannabis history that we're all creating and experiencing, for better and worse. And all of us here are especially grateful, in these wobbly economic times, to be a part of one of the few American industries that is still growing and expected to flourish in the years ahead.

Even so, we all yearn for a safer, saner world for pot smokers. Five minutes ago, I was surreptitiously smoking a joint while pretending to take a leisurely stroll in the parking lot of the Palms Hotel and Casino in Las Vegas. I'm not sure how many tourists take a midday walk in Vegas on blazing asphalt with the temperature holding at 108 degrees, but that's the state of pot smoking for most of us. We're still skulking around, grabbing our pleasure on the sly, trying not to get busted.

This episode took place right before our interview with rocker Melissa Etheridge. She's at the tail end of her "Fearless Love" tour and was more than happy to sit down and talk with us for this historic issue. She's a breast-cancer survivor and an outspoken proponent of cannabis, medical and otherwise. Her perspective on the future matches ours: She's as eager for a new day to dawn as we are, a day when cannabis can compete in every industry—food, textiles, construction, medicine and countless others—without being stigmatized as a dangerous plant.

The mission of every issue of HIGH TIMES is to normalize the world's attitudes toward cannabis. Therefore, it's only fitting that NORML founder Keith Stroup weigh in here on the history of that organization, HIGH TIMES' stalwart partner since the beginning. You'll also find Tommy Chong and Ethan Nadelmann in this issue, along with other notables of our community.

Everyone's seeking a world at peace with marijuana. Four hundred and twenty issues represents our own strength of purpose. We're gratified that you, our readers, have found value in the part we've played in this vital crusade.

Our solemn promise: It won't take 420 more issues for this new Age of Cannabis to arrive. Thanks for being part of HIGH TIMES!

  
Dan Skye  
Executive Editor

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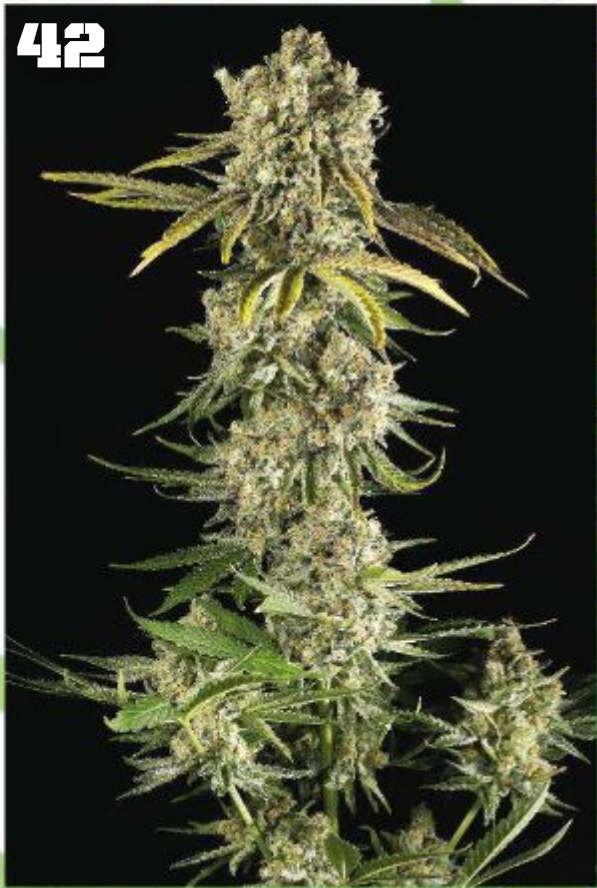


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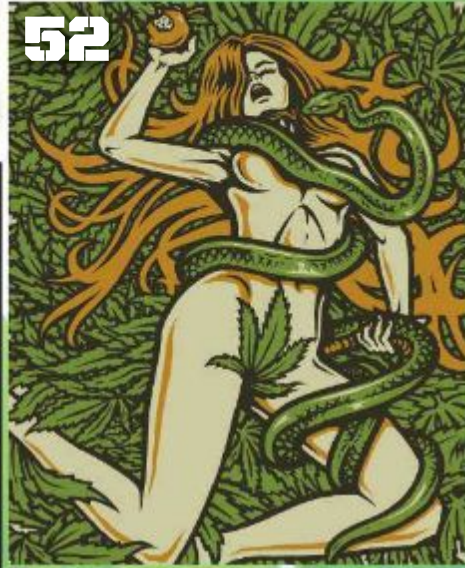
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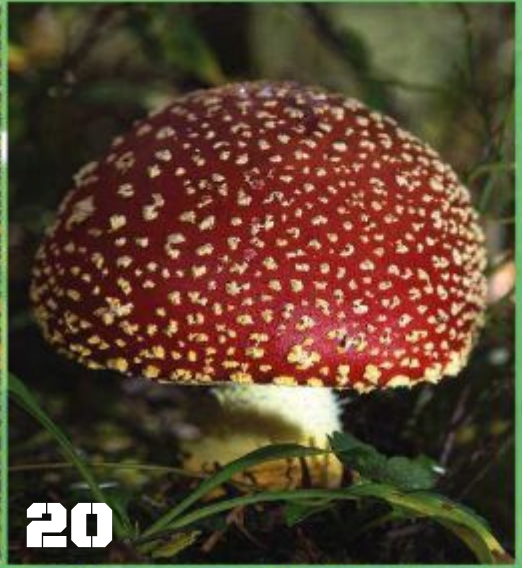
42



52



20



58



## FEATURES

### 42 THE HISTORY OF KUSH

Danny Danko investigates the history and lineage of the legendary cannabis strain known as "the Kush" in our revealing search to separate fact from fiction and myth from reality about this tasty and potent pot variety. Bonus book excerpt: Danny's Top 10 Kush Strains.

### 52 THE ART OF ROCK

BY BOBBY BLACK

The concert poster has been the quintessential way by which we learn of and commemorate our favorite live performances. HT's resident rocker takes a brief look at the history of this unique genre and showcases some of today's headiest artists.

### 58 CLONING MADE EASY

Danny Danko discloses the basic environmental factors that lead to successfully rooting cannabis cuttings for more efficient gardens that provide more harvests yearly—and with larger yields of guaranteed female buds. Bonus: Cloning in Coco by Mosca.

### 66 KUSHMAN'S VEGANIC GROWING

HIGH TIMES' legendary cultivation reporter extraordinaire returns with a unique new growing technique and philosophy that goes beyond the merely "organic" and takes connoisseurs and medical patients into the realm of the cleanest, tastiest and best-burning cannabis ever.

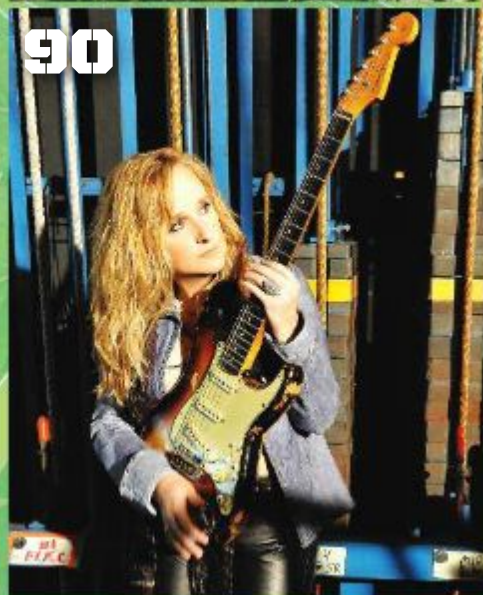
### 85 THE 420 MILESTONE

Keith Stroup, Ethan Nadelmann, Vivian McPeak and Dennis Peron weigh in on the significance of 420 issues of HIGH TIMES and the long road that still lies ahead of us.

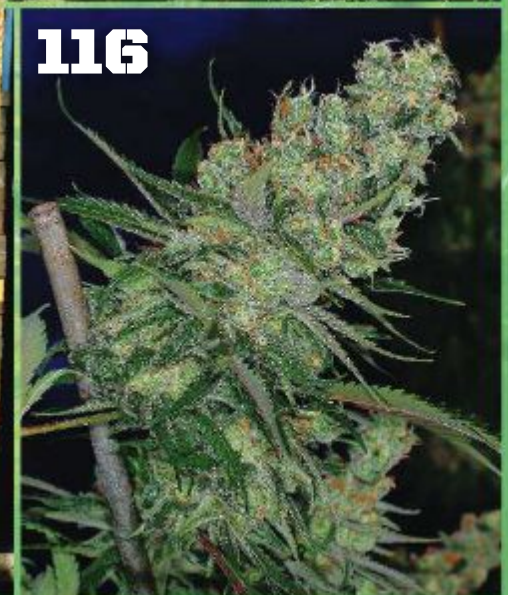
### 90 THE HIGH TIMES INTERVIEW: MELISSA ETHERIDGE

She's one of the top women in rock 'n' roll, a breast-cancer survivor and an outspoken proponent of marijuana, medical and otherwise. Melissa Etheridge lends her powerful voice to the clamor for legal cannabis.

90



116



## DEPARTMENTS

### 06 PAGE SIX

### 13 HIGHWITNESS NEWS/BUZZ

EDITED BY DAN SKYE

Celebrating 420; Big Score; 420 Birthdays; Top cover models; Indoor boom; Our stonedest covers; Tommy Chong; 30 years of the Telluride Mushroom Festival; First Generation Hip-Hop; HIGH TIMES with Bob Marley; Reviews; Brain Damage Control; Band of the Month; Miss HIGH TIMES; Almost Infamous.

### 99 GROWORLD

EDITED BY DANNY DANKO & NICO ESCONDIDO  
Pix of the Crop; SSDP; Freedom Fighter; Ask Dr. Mitch; Munchies; Cannabis Clinic; Strain Breeding by Subcool; Gear/Hot Products; Dear Danko; Pot 40.

### 126 NEXT MONTH

### 132 POT 40

COVER: KENT SEA STRAIN: CHEM DOG  
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Weed is so simple: obtain and ingest. And you've gotten 420 issues out of that—you guys are geniuses! HIGH TIMES is to weed what the Waldos are to 420. We both support higher learning.

Congratulations on 420 issues.  
*The Waldos,  
 originators of the term "420"*

**Congratulations, HIGH TIMES!**

While most print magazines are losing readers, HIGH TIMES is publishing its big, fat 420th issue! I am proud to have been a part of so many of those 420 issues during the last 37 years. HIGH TIMES is an institution, in America and worldwide!

¡Viva HIGH TIMES!  
 ¡Viva 420!  
*Jorge Cervantes*

What can I say to the most notorious magazine in history? The 420th issue? Has it only been that many? I started reading HT at 12 years old. I fondly remember and acknowledge all my mentors: Thomas King Forçade, R the Dope Connoisseur, Professor Afghani (RIP), Chris Simunek, Steve Hager, Mel Frank, Jorge Cervantes and Robert Connell Clark. Collectively, they taught me almost everything I know concerning the plant, the culture and everything related to cultivation. After all these years, I still can't wait for the next issue so I can read it cover to cover! I very much look forward to issue no. 840. Maybe by then the world will have rid itself of these senseless anti-cannabis laws.

Booyashaka, HT, and respect!  
*K, Trichome Technologies*

Seems like just yesterday that I was looking at my first issue of HIGH TIMES. Nothing's really been the same ever since: There's pre-HT and post-HT. Looking back after all these years, I wonder what my life would have been without HT. (Lame, I'm sure!) I'd like to thank the gang in New York and all the remote peeps out in the way that make the magazine happen. I'd also like to forget all the trunks of cars I was put in back in the early years just to be able to photograph those secret gardens. The pictures sure made it worthwhile, though, and I hope all you good people enjoy what you see through my eyes.

*Freebie*

Hey, HIGH TIMES! Congrats on issue no. 420! The Disco Biscuits will puff one down on behalf of your joyous occasion!

*Marc Brownstein, bassist, the Disco Biscuits*

DNA Genetics and family would like to give HT kudos for being around for 420 issues!! Thanks for reporting the issues on cannabis long before the "green rush" and when it was not so accepted; by doing this you paved the way and gave a platform for people like DnA. Respect and keep up the good work!! Puff tuff.

*DNA Genetics*



I'm delighted to be a never-censored columnist for HIGH TIMES, and I'm inspired every month that such a magazine has consistently served its readers with information, commentary and photography based on pleasure, compassion and justice. So here's wishing y'all a happy 420, as invisible communities toke at the exact same time in what has become a global ritual.

*Paul Krassner, HT columnist*

BC Bud Depot would like to wish the HIGH TIMES staff and all of their loyal readers a Happy 420th. Let's all smoke a bowl in great anticipation of what the next 420 issues will bring.

*Matt & the BC Bud Depot team*

Other magazines have come and gone, while HIGH TIMES has been providing me with amazing insights into the world of green for decades now. In this 420th issue, I'd like to thank HT and its staff for the great opportunities over the years to be a part of this incredible scene as a contributor to the world's most notorious magazine devoted to all things cannabis. The articles, photos, books and calendars always give me something to look forward to year after year. But it's the people of HIGH TIMES and the community they've created that are truly the heroes of this great publication. I look forward to being a part of this awesome team for years to come, and I salute the people who have worked so hard to bring us the kind, one issue at a time.

*Lochfoot*

T.H.Seeds and Hemp Hoodlamb would like to congratulate HIGH TIMES on your 420th issue. It's been a long and stony road, but thanks to HT, we have kept on track. It's been an honor to participate in the Cannabis Cup every year, and we look forward to another 420 issues from the world's best cannabis magazine—one that proves, over and over, that hemp works!

From sunny Holland,  
*T.H.Seeds/Hemp Hoodlamb*

Congratulations to HIGH TIMES on your 420th issue! Who'd have thought that one of Tom Forçade's many amazing feats would lead to decades of the finest journalism on so many different topics? Four hundred and twenty issues devoted to helping readers support their own freedom, make ends meet, and stay informed is a superb accomplishment and a genuine public service. It's hard to look at it all without quoting the Grateful Dead. Let's all celebrate in our favorite way as we eagerly anticipate prohibition's end and another 420 issues!

*Dr. Mitch Earleywine*

**Keep It Green!**

*Soma of Soma Seeds*

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# celebrating 420

HIGH TIMES recognized the untapped energy behind 420 and fueled the phenomenon.



Long Live Thomas King Forçade!

**Remember those old movies** about knighthood and medieval history? At some point during the flick, a palace bureaucrat would step out on a castle balcony and solemnly address the crowd gathered below: "The king is dead! Long live the king!"

It was so confusing. Were they going to bury the king, or put his corpse back on the throne?

Here in the 21st century, we're still confused. In the magazine world, we continue to hear similar pronouncements about the publishing industry: "Print is dead!" And yet, here HIGH TIMES stands—stronger and more vibrant than ever.

We've watched countless magazines vanish over the past few years. Five hundred publications folded in 2008, 400 more in 2009, and just as many this past year. The recession has been brutal on ad revenues. Print circulation is in decline, and website audiences have increased. Plus we keep hearing that everybody reads a whole lot less.

But here we are, publishing our 420th issue and entering our 37th year of celebrating *high times*, which truly is our mission. As the saying goes, life is what we make it. Our bodies and our brains are our sacred property. We're free to use them as we see fit in order to explore this incredible experience called life. John Holmstrom, HT's publisher during the mid-'90s, has always been quick to note that Tom Forçade, HIGH TIMES' founder, never intended HT to be a so-called "marijuana magazine." He envisioned something more, a chronicle of the counterculture whose overriding message would be: "Do what you want, and fuck anyone else who doesn't like it!"

There are some obvious provisos to that declaration, such as "Be responsible" and "Don't fuck up anyone else's ride." But generally, that's what HIGH TIMES is all about. Obviously, marijuana is the vehicle we now drive to actualize Tom's Forçade's vision. But that's because our government's War on Pot represents a war on our bodies, our brains and our freedom. The right to freely use marijuana represents far more than just the right to get high.

As Tom Forçade was founding HIGH TIMES, a group of students at San Rafael High School in California were sowing the roots of a countercultural institution. Forty years later, their simple, secret code of 4:20—a time to hang out and shed the high-school anxieties—has become internationally understood stoner-speak. In fact, stoners commonly say "Let's 420!" any time they feel like toking up. And April 20 has become the unofficial pot smokers' holiday, widely covered by the media annually, and growing in stature as marijuana culture proliferates around the world.

During the pre-Internet era, HIGH TIMES was instrumental in spreading the gospel of 420, defining its meaning and dispelling myths about its origins. Unfortunately, Tom Forçade died in 1978 and never witnessed the communal power that 420 has unleashed. Nor did he witness the proliferation of indoor pot growing, or the artistry and innovations of the glass-smokeware industry—or the fact that we are now on the cusp of full-scale legalization.

Today, we see victories for our side everywhere. People know propaganda when they hear it. They're sick of lies—which is why HIGH TIMES is still here.

Reaching the milestone of 420 issues demonstrates that the pursuit of truth can be both a public service and a marketable product. So the next time we hear "Print is dead," we're gonna shout back: "Long live the king!"

Which would be marijuana, of course! 🌿

HIGH TIMES ARCHIVE, DAN SKYE, TOM FORÇADE PIPE BY TAMMY BALL



Watch our video "The Story of 420."



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# BIG SCORE!

On this auspicious occasion, Miss HIGH TIMES 2010 Brittany Wagoner wanted to give HT a special cheer, so she had herself body-painted by The Artist Kelsie. But Brittany's no cheerleader—she's a top player with great moves! Grower, activist and dispensary budtender in Denver, she's a superstar in the major leagues of cannabis! Check out her body-painting experience at [hightimes.com](http://hightimes.com).



To see more

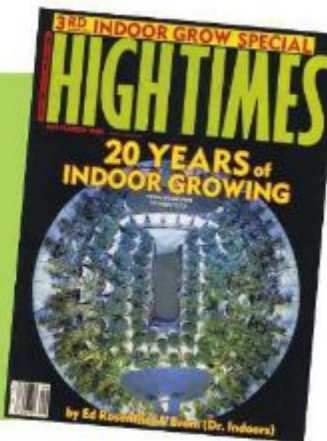


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# LATE BLOOMERS

We may be publishing our 420th issue, but indoor cultivation didn't make the cover until issue #91 (Mar. '83), and an actual grow-room didn't appear until issue #157 (Sept. '88). Two decades later, cannabis has generated a multibillion-dollar industry dedicated to producing top-quality cannabis indoors. As a result, outdoor growers are now reporting a precipitous drop in prices.



# BORN ON THE 20TH OF APRIL



**EDNA PARKER**  
Lived to 115. Fourteenth-longest-living person ever.



**JOAN MIRO**  
Spanish surrealist painter whose art still blows the stoner mind.



**ADOLF HITLER**  
Universally agreed-upon personification of evil.



**JOHN PAUL STEVENS**  
Served 35 years on US Supreme Court. Retired in 2010.



**TITO PUENTE**  
Jazz and mambo musician considered the king of Latin music.



**LIONEL HAMPTON**  
Jazz legend who played vibes, piano, drums and sang.



**GEORGE TAKEI**  
Played Sulu in TV's *Star Trek*. Outspoken gay-rights activist.



**RYAN O'NEAL**  
*Love Story* actor struggling with family problems in recent years.



**JESSICA LANGE**  
King Kong's girlfriend in '76 remake. Took home Oscars in '82 and '94.



**EDIE SEDGWICK**  
Tragic actress/model of the Andy Warhol scene.



**STEVE SPURRIER**  
College coach well-known for winning and arrogance.



**DON MATTINGLY**  
Ex-New York Yankee, borderline Hall of Famer with bum back.



**STEPHEN MARLEY**  
Bob's son and a reggae star in his own right.



**CRISPIN GLOVER**  
Film actor famous for extreme creepiness.



**JOEY LAWRENCE**  
'80s teen TV heartthrob who was in...um....



**CARMEN ELECTRA**  
Electrifying body. Un-electrifying talent.



**MIRANDA KERR**  
Victoria's Secret super-model known for not being overweight.

# OUR STONEDEST COVERS

Some of *HIGH TIMES*' most outlandish cover ideas have come out of 4:20 sessions. Herewith, our most bizarrely buzzed covers.



**CUPCAKE SURPRISE** (Sept. '75)

Um, that's not a cupcake. One of our classics—primarily because there's no story listed on the cover that has anything to do with the image! But that's okay: How can you argue with chocolate?



**LOST IN THE KALI MIST** (Aug. '76)

Our rendition of the Hindu goddess Kali is a little confusing. We understand the sex and mushrooms, but how do you get high on leather? Plus, the model is holding beer and dice. Nobody said we had to make sense.



**SKIRTING THE ISSUE** (Feb. '80)

This hula outfit was a true grass skirt. Thirty-one years ago, readers rarely saw colas of this magnitude. Our cover certainly did nothing to hurt Hawaiian tourism.



**THE FOUL LINE** (Jun. '85)

In the '80s, professional athletes (and practically everyone else in America) did a bump every now and then. But then the Drug Warriors lumped coke together with pot—and we've been working to overcome the stigma ever since.



**MOONSTRUCK** (Feb. '92)

WTF? Considering that no one lives on the moon or is going to anytime soon, let alone grow pot up there, this concept appealed to absolutely no one. But the pot we smoked that day sure was good!



**TAKE ME TO YOUR DEALER** (Aug. '95)

During the mid-'90s, the media became fixated on UFOs. We joined in because we know our audience—stoners love weird shit! (Note: That's senior editor Bobby Black as the alien.)



**PYRAMID POWER** (Sept. '95)

Photographers often outdo themselves creating new images. One even built the Parthenon, Stonehenge and the Great Pyramids of Egypt, which ended up on our cover.



**WE GOT PUNK'D!** (Nov. '96)

Let's make a mohawk out of pot! Great idea ... but how? We found out. You hire a top makeup artist, let her run rampant with glue, and end up ruining more pot than we ever thought possible.



**WATERWORLD** (Mar. '01)

We were obviously all wet with this issue: water pipes, hydro reports, Muddy Waters the blues legend, and a floating mermaid holding a conch full of top-notch kind.



**SEND IN THE CLONES** (Mar. '02)

What can you do with sexy twins? Paint them white, put blue lipstick on them, and make them look generally hideous. But we got our point across with the readers. After all, this is science!

# A DOUBIOUS DATE

April 20 has had more lows than highs.

YEAR	EVENT	LEGACY
1534	Explorer Jacques Cartier sets sail and discovers Canada and Labrador.	They were there already.
1657	Freedom of religion granted to Jews of New Amsterdam (now New York City).	Muslims still have problems building mosques.
1775	The British begin their siege of Boston during the Revolutionary War.	Bad way to win hearts and minds.
1799	Napoleon issues a decree to establish Jerusalem for Jews.	That worked out well.
1862	First pasteurization test completed by Louis Pasteur.	Great! But now experts say dairy will kill you.
1871	The Civil Rights Act of 1871 becomes law.	Oh, well, they tried.
1871	New law allows president to suspend writ of habeas corpus.	Took less than 100 years to sidestep the Constitution.
1888	246 reported killed by hail in Moradabad, India.	The Weather Channel would've gotten it wrong anyway.
1903	New York Highlanders play their first game.	Later they become the Yankees, now universally hated.
1916	The Chicago Cubs open Wrigley Field.	Haven't won the World Series since 1908.
1917	Lenin names Russia "free land of world."	Well, it sounded good.
1918	Manfred von Richthofen ("the Red Baron") shoots down his last plane in WWI.	He's shot down and killed on April 21.
1926	New technology for sound in movies is announced.	Audiences lose hearing during action flick <i>The Expendables</i> .
1945	Soviet troops enter Berlin during WWII.	How do you spell "revenge"?
1961	US-backed invasion of Cuba fails at the Bay of Pigs.	Cuba and US locked in time warp ever since.
1971	US Supreme Court okays busing to achieve racial desegregation.	A lesson in how to please no one.
1983	President Reagan signs a \$165B bailout of Social Security.	It's amazing how far \$165B used to go.
1993	Uranus passes Neptune, which occurs every 171 years.	Damn! Missed it again!
1999	Columbine HS massacre: two students murder 13 then kill themselves.	Permanent stain on our day of bliss.
2004	In Iraq, insurgents fire on Abu Ghraib prison, killing 22, wounding 92 others.	They must have been pissed off about something.
2010	BP Deepwater Horizon fire results in massive oil spill in the Gulf of Mexico.	Wakeup call, anyone? Apparently not.



The legendary comic, Tommy Chong, drops some stoner wisdom on the marijuana masses.

# CHONG, BONGS AND CIVIL WRONGS

We've reached our 420th issue. Is that significant for you?

The thing about HIGH TIMES is that you guys were like the bastard child of the publishing world. HIGH TIMES and Cheech & Chong are a lot alike: We both share countercultural cult status that we *earned*. You guys managed to keep that thread of truth on the newsstand. I see HIGH TIMES all over the place. You're like *The Daily Show* for magazines—you're miles ahead of the culture. Because pot is becoming mainstream, people are just now discovering HIGH TIMES.

You became one of the mainstays of our success. You've been on the cover eight times! My whole career is wrapped up with HIGH TIMES. HIGH TIMES and Tommy Chong were meant for each other.

You were busted for selling bongos six years ago and spent a year in prison. Did the experience change you?

Big time, big time. I was always really a comedian—I didn't see it coming. We had been making and selling bongos openly for years. Then, all of a sudden, if I shipped them across state lines, I was breaking federal law. I was set up so blatantly that it really woke me up. When I was facing time, I could have beaten the charge. The business was not in my name; it was in my son's name. They could have given him a rough time—and they would have. So I pleaded guilty, and I'm glad I did. I went on location ... I was embedded with the troops!

Did you ever think, "I can't believe this is happening to me"?

They're very sneaky—not just the cops, the whole legal profession. Prosecutors deal people's lives like they were a deck of cards: "Instead of life, how about 30 years?" They agree on it and have a handshake, and everything is done. That's what they did with me.

It split my families. They took about as much money from me as they could—about \$2 million at the end of the day. There were some dark times. They took what they could from me; they took my computers, my bongos. They tried to really make me feel like—well, like a *nigger*. That's what they did. They put me in jail, in uniform; they made me a prisoner.

I consider the Drug War a very racially driven war. It's the last Jim Crow law on the books. What got me interested right from the beginning was the hypocrisy of Richard Nixon: The first thing he did as president was appoint a commission to look into whether or not pot should be legal. The commission came back with the conclusion that pot *should* be legal. Then he dismantled the commission and formed the DEA, which has jurisdiction throughout the whole world.



**My whole career is wrapped up with HIGH TIMES. HIGH TIMES and Tommy Chong were meant for each other.**

You and Cheech were contemplating reuniting right before your bust. How did it affect him?

Well, Cheech had previously given up the culture; he also did some anti-drug commercials. But at the end of the day, he was still known more for being Cheech from Cheech & Chong. When we got back together, it was so simple and so easy—because we were meant to do this. Now we've done it. It remains to be seen what is next.

What have you learned from all of this?

Ego is the devil. The reason I ended up in jail was that my ego said, "I am Tommy Chong—I will never wind up in jail."

How do you stay on top of things today?

*I Ching* has helped me bring it under control.

Some say that's like using numerology or horoscopes to cope.

Every day, everybody has something that works. *I Ching* helped me in jail.

Jail is a corrective process—and I was there to correct my behavior.

You and Shelby have been married for over 30 years. What's kept you together?

We fell in love on acid. It was a cosmic connection—I love beauty, and she loves beauty. She gets more beautiful every day. Of course, my eyes get worse every day. [Laughs] It all evens out. The main thing: We argue. She challenges me on everything I do and say. It's like living with an editor.

So what's your next goal?

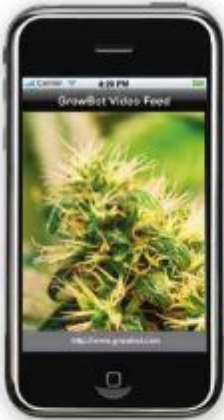
Total humility—that's what I'm going for. 🌿

Visit [cheechandchong.com](http://cheechandchong.com), and also check out Tommy's memoir, *I Chong: Meditations From the Joint*.



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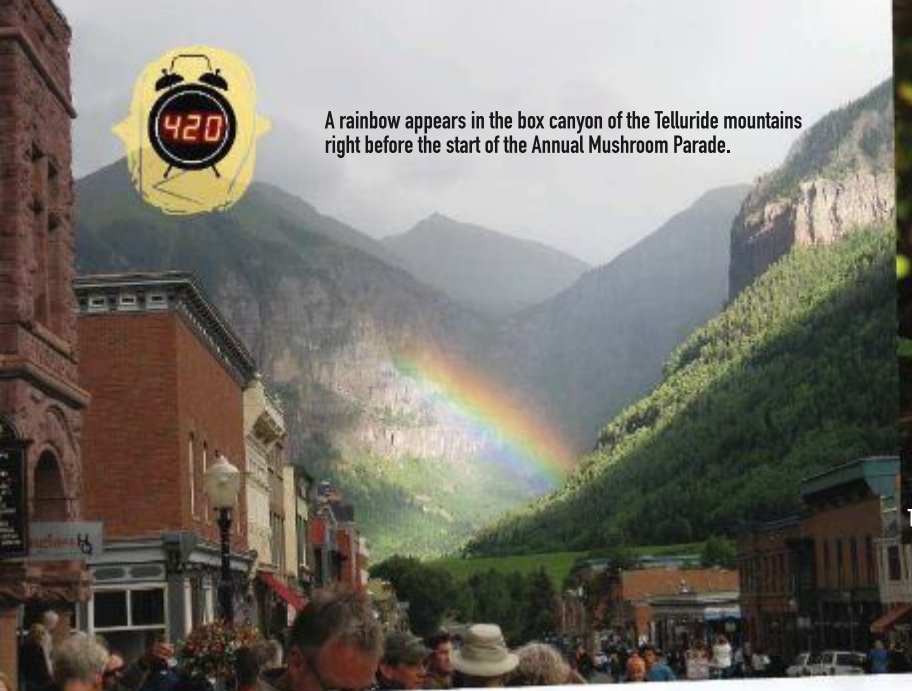
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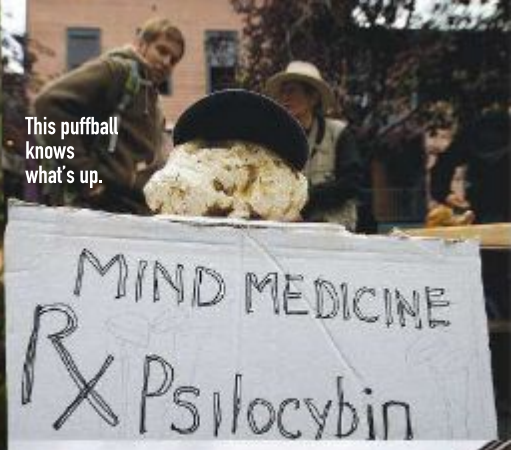


A rainbow appears in the box canyon of the Telluride mountains right before the start of the Annual Mushroom Parade.



The beautiful and toxic *Amanita Muscaria*.

This puffball knows what's up.



Fungophiles, unite!

## The Telluride Mushroom Festival celebrates 30 years of boomin' and shroomin'. By Natasha Lewin

The summer of 2010 was an unusually rainy one for Colorado. The normal annual precipitation there is 17 or 18 inches, which works out to about 1.5 inches per month—but this past year, August took the title of wettest month on record, with nearly 3.5 inches falling. That had some Coloradoans cursing the Weather Channel, but lots of rain means lots of moisture—and lots of moisture means a very successful Telluride Mushroom Festival.

Held at the end of every August, the Telluride Mushroom Festival enjoyed a monumental year in 2010. Aside from the very unexpected (but extremely appreciated) rainfall, Mush Fest celebrated its milestone 30th anniversary. While the festival pays homage to fungi of all shapes and sizes (toxic *and* edible), the underlying purpose of the yearly trip to Telluride is clear: to trip ... out. Thirty years of wizard hats and fairy wings is

nothing to shake a spore at. To understand how a quiet ski town with a population of less than 3,000—the size of most urban high schools—has nurtured and enjoyed 30 annual weekends of toadstool-topped trucks shutting down its main thoroughfare for the yearly Shroomfest parade, one must first understand Telluride and its hippie roots.

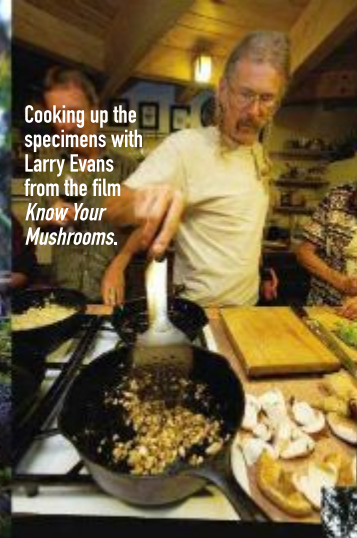
Contrary to what most people believe, Colorado isn't all liberals and pot smokers: In Grand Junction, a local carwash declares that it will "remove 'HOPE' and 'CHANGE' bumper stickers for free." And the front page of the *Denver Post's* food section is dedicated to mushroom foraging with the North American Mycological Association—three pages devoted to fungiphilia—just a day before the 30th Annual Shroomfest. Yet there's not one mention of the festival, nor of Telluride.

The town is tucked away in a box canyon surrounded by steep, forested cliffs in the western San Juan Mountains. Located at an elevation of 8,700 feet, Telluride was originally a conservative mining town—the only industry until 1972, when the first ski lift was erected, eight years before the Mushroom Fest was born. In time, mining families left the area and were replaced by young, worldly nature seekers who wanted to keep their numbers small. The new population was anti-expansion, anti-tourism and, most importantly, antiwar. The townspeople tried banning tourist cars from the city proper, allowing only horse-drawn carriages. As a result, Telluride's economy began to slide, but the town began its recovery by branding itself as "Colorado's Best Kept Secret."

Today, Telluride is famous for its festivals: Since the late '70s, it's played host to a different event for



Are mushrooms the key to soaking up the oil spill? Noted mycologist Paul Stamets thinks so.



Cooking up the specimens with Larry Evans from the film *Know Your Mushrooms*.



Getting down with the drum circle.



Art Goodtimes is the Grand Marshall.



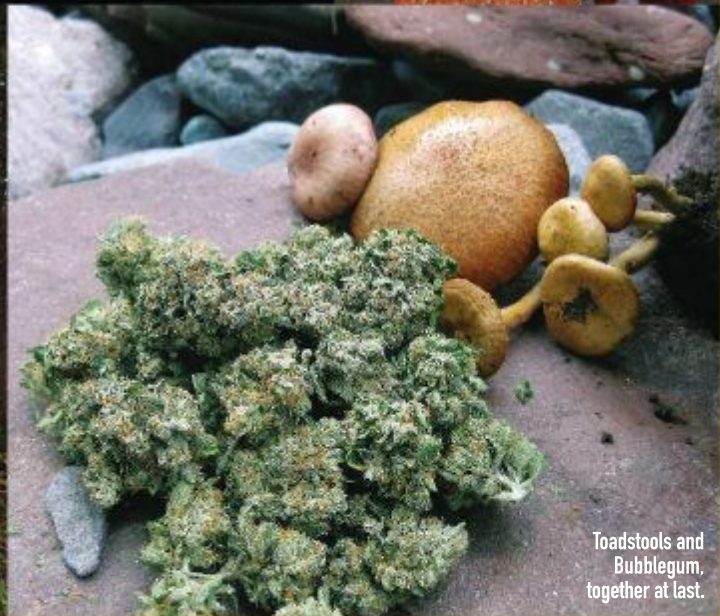
Entheogens as Medicine panel (l to r): ayahuasca expert Marie Luna, yours truly, spiritual investigator Michael Logghe, Valerie Mojeiko of MAPS and mushroom expert Gary Lincoff.



Fungus Claus with a treat for the naughty ones on his list.



What a day for a foray.



Toadstools and Bubblegum, together at last.

every weekend of the summer, including the star-studded film and bluegrass festivals. This past year, Phish performed an intimate sold-out concert for an audience of 600 at Telluride's Town Park.

By the '80s, the town had become synonymous with the counterculture. Mexican smugglers used it as a drop point, and Glenn Frey featured it in his hit song from *Miami Vice*, "Smuggler's Blues." Importers and exporters of the drug scene were happy to visit the unassuming locale during their downtime. Tourism boomed, and when an extension to the ski area opened, Telluride's place among exclusive Colorado resort towns like Vail and Breckenridge was sealed. It now boasts free public transportation aboard its bus, the Galloping Goose, which traverses the town's loop. A free gondola connects it with another small ski community, Mountain Village, 365 days a year. And, at present, there are five medical-marijuana dispensaries open for business here, two of them lo-

cated on West Colorado Street, the main drag that bisects the town.

Mush Fest first began in the late '70s as a small educational conference in Aspen, hosted by Dr. Emanuel Salzman and Beth Israel Hospital. There was disagreement among some of the participants and mycologists as to whether or not hallucinogenic mushrooms should be included. In 1981, Fungophile, Inc.—the Salzman nonprofit that ran the event—moved the conference to the much freer-thinking environs of Telluride. Today, the Telluride Institute—a not-for-profit organization dedicated to health and well-being in the progressive world—shares the responsibility for running the festival with the Telluride Council for Community Arts and Special Events. Art Goodtimes, a T-Ride resident and self-proclaimed "Chief Pooh Bear" of the annual Shroom Fest, has been one the event's main organizers for 25 years, even saving the festival from shutting down in

2008. "It's become a lot more than just a conference," Goodtimes says. "Over the years, organizers began stacking on more elements—music, performance, the famous parade—until it evolved into the four-day fungal immersion it is today."

That's no fungi lie: Mush Fest is an extravaganza of all things shroom! The festival includes cultivation workshops, film screenings, fungus identification stations, mushroom tastings, forays into the meadows of the San Juan Mountains, as well as panels, lectures and discussions with the planet's top mycologists. Past guest speakers have included author and physician Dr. Andrew Weil, celebrated psychonaut Terrence McKenna, chemist Sasha Shulgin, founder of the Drug Policy Alliance Ethan Nadelmann, and psilocybe expert and advocate of medicinal mushrooms Paul Stamets.

You may not find magic mushrooms on any of your forages, but they're a crucial part of Mush

**'Over the years, organizers began stacking on more elements—music, performance, the famous parade—until it evolved into the four-day fungal immersion it is today.'**

Fest. Psilocybin is considered an entheogen, a psychoactive substance used for spiritual purposes. Most of the mycologists who come to the festival discuss the importance of psilocybin in society—especially how its natural healing properties shouldn't be overlooked, given that

they've been demonstrated scientifically time and time again. So while you won't see *Psilocybe cubensis* sitting on any of the festival's ID tables for analysis, you will see quite a few trippers. If you choose to join the festivities, though, be sure to bring plenty of water: Telluride's pretty high up, and if you take that free gondola ride, you're at an altitude of almost 13,000 feet. Altitude sickness is no joke, and combined with a hallucinating journey, you could be in for quite the tummy flop.

And if you go next year, remember to respect Telluride—it has a lot of hippie history to it. You won't see any "Don't move here" T-shirts in window displays, but the message is there. The townsfolk won't bother you if you don't bother them—just keep in mind that, at midnight, everything in Telluride shuts down. *Everything*. Occasionally, bars will stay open on the weekends until 1 or 2, but that depends on the bar. So make sure you have everything you need before taking that twilight trip.

And most importantly: Have fun! Dress up like *Amanita muscaria* for the parade, ask questions, go on the forays, and try a bite of the *nontoxic*, freshly picked fungi. Truffles are too expensive everywhere else. Here, they're free! ✨

*For more information on the Telluride Mushroom Festival, go to [tellurideinstitute.org](http://tellurideinstitute.org).*

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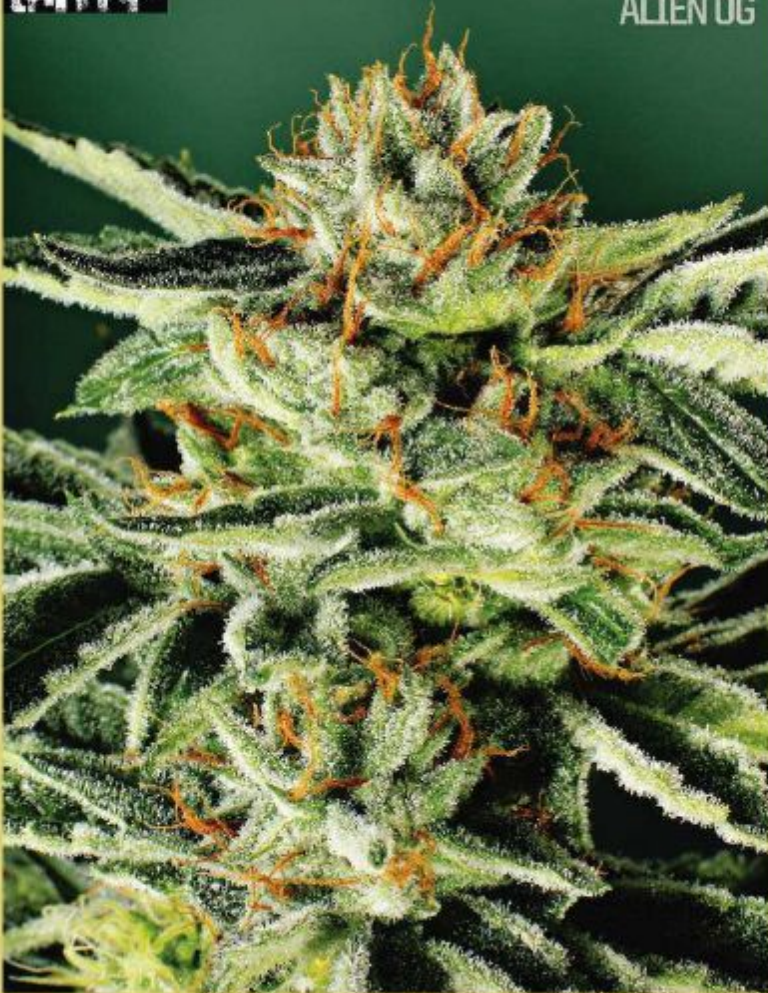
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**MARKET ANALYSIS**

For the second straight month, Diesel took the top pot spot and Kush finished the month as a runner-up. Blueberry made the top five for the first time since July 2010. As was the case in July, Blueberry was the least expensive strain of January's top five. The top five submitted strains (with average price) were Diesel (\$433), Kush (\$371), Haze (\$390), Blueberry (\$338) and Purps (\$442).

**Index Watch:** After taking a hit in December, the US Price and Kind indices both finished above their previous month's average for January (US Price +\$41, Kind +\$16). While the Mids Index essentially held steady, January 2011 marked the first month in which no entries were received for schwag. As a result, no data is available for the Schwag Index this month.

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

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](http://hightimes.com).

CURRENT US PRICE INDEX: **\$377** (last month: \$336; YTD: \$377)

CURRENT KIND INDEX (\$350+ PER OZ): **\$423** (\$407, \$423)

CURRENT MIDS INDEX (\$150-\$349 PER OZ): **\$283** (\$285, \$283)

CURRENT SCHWAG INDEX (\$1-\$149 PER OZ): **N/A** (\$99, N/A)

**Homegrown - \$420**

Jerusalem, ISRAEL

"Due to massive busts on this year's spring crop in North Africa, the whole region is suffering big time. Israel was dry until late June, and the prices are now double the norm. Due to this embarrassing situation, many smokers cut down. But the grow scene is on the uprise ...."

**UK Cheese - \$250**

Salem, OREGON

"This is the TGA/Subcool version of UK Cheese. Very, very stinky, with hints of sour cream,

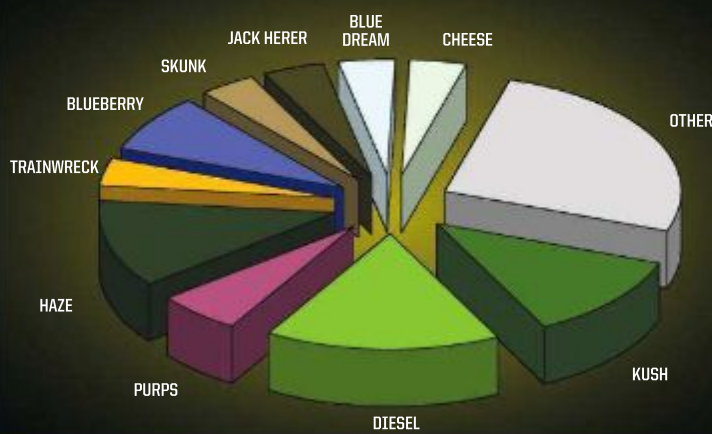
Parmesan and blueberries. Have to take it easy on it or you'll be staring out the window looking for cops that ain't coming. The price reflects the extremely flooded market here."

**Diesel - \$400**

Fairfax, VIRGINIA

"Very nice, fluffy, purple-tinted buds with fat calyxes spiraling off into little foxtails. The crystal coverage on this strain is insane. The exterior of the buds almost appears white, but there's purple somewhere under all those trichomes!"

**STRAIN SUBMISSIONS JANUARY 2011**



STATE	CITY	STRAIN	PRICE
ARIZONA	Arizona City	LA Confidential	\$300
CALIFORNIA	Los Angeles	OG Kush	\$450
		Diesel	\$340
	Twin Peaks	Trainwreck Jack the Ripper	\$340 \$350
COLORADO	Denver	UK Cheese	\$300
		Blueberry	\$250
	Evergreen	Afghan Kush Island Sweet Skunk	\$350 \$340
DELAWARE	Dover	White Diesel	\$420
		Cali O	\$400
FLORIDA	Jacksonville	Kush	\$480
		Diesel	\$480
HAWAII	Honolulu	The Purps	\$425
ILLINOIS	Chicago	G-13	\$400
	Crystal Lake	Skunk	\$350
INDIANA	Anderson	Blue Pearl	\$450
LOUISIANA	Baton Rouge	OG Kush Bubble Hash	\$700
		Grapefruit Haze	\$360
MAINE	Old Town	Afghani White Shark	\$300
MICHIGAN	Detroit	Sour Diesel	\$500
MONTANA	Helena	Afghan Headband	\$250
		Super Lemon Haze	\$250
			\$250
NEW YORK	Queens	Jack Herer	\$350
NORTH CAROLINA	Statesville	White Widow	\$400
		Jack Herer	\$480
		Crimea Blue	\$400
		Super Lemon Haze	\$480
NORTH DAKOTA	Williston	Strawberry Ice	\$480
OHIO	Cleveland	East Coast Sour Diesel	\$375
		Purple Kush	\$400
		Super Silver Haze	\$500
OREGON	Eagle Creek Salem	AK-47	\$280
		UK Cheese	\$250
PENNSYLVANIA	Reading	Cat Piss	\$400
RHODE ISLAND	Providence	White Widow	\$425
		Cheese	\$300
		Sour Diesel	\$500
		Strawberry Cough	\$500
SOUTH CAROLINA	Charleston	Lemon Diesel	\$450
		Cindy-99	\$450
VIRGINIA	Fairfax	Diesel	\$400
WISCONSIN	Milwaukee	God Bud	\$350
<b>INTERNATIONAL</b> (prices in Canadian or US dollars)			
CANADA	Kelowna	Diesel	C\$200
		Green Crack	C\$240
	Surrey	Kryptonite Kush Banana Kush	C\$210 C\$220
ISRAEL	Jerusalem	Homegrown Ditch Weed	\$420 \$85





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At the 23rd Annual HIGH TIMES Cannabis Cup in Amsterdam, a host of hip-hop celebrities, including Grand Wizzard Theodore and Busy Bee Starski, will be celebrating the emergence of hip-hop. By Steven Hager

Busy Bee (in sheepskin coat) at "The Cheeba Spot" in the Bronx, 1980.



## BUSY BEE

on the origins of hip-hop and the infamous "battle"

The word "hip-hop" came from Keith Cowboy. At that time, it was Grandmaster Flash and the three MCs, which was Keith Cowboy, Melle Mel and his brother Kid Creole. Billy was going into the Army, and Flash was giving a street party. Cowboy kept saying: "This is for Billy, going to the Army, left, right, hip, hop, don't stop, Billy!" It started right there. Mean Gene started as the understudy DJ with Grandmaster Flash. And he had two MCs, Kevie Kev and Robbie Rob—they were both brothers, and Theodore and Mean Gene were brothers. And by their last name being Livingston, they just called the whole crew "the L Brothers."

I would travel by myself to try and get my name built. And Mean Gene just happened to see me in the chicken joint, and he said: "Bee, you need to be down with us." And I was saying: "Well, you got your crew, you got Kevie Kev, you got Rob, you don't need me." Plus, at this time, Kevie Kev was like the star guy on their crew. I was thinkin' that they didn't actually need me. Gene said: "It's my group, and I want you down with it." So I became an L Brother. We were like the Beatles, and we used to crush everybody. We was pretty—like I'm still right now. We wore nice clothes. We was the greatest.

A friend of mine named David used to come to school with a Marlboro pack with 13 joints in 'em. And every day after lunch, he would come back looking Chinese when he was supposed to be Puerto Rican. I used to tell him: "You comin' back to class lookin' all cockeyed and retarded, and I don't know what you doin'."

Then, after school, we go in the gym behind the stage and light up. I'm coughing, don't know what's going on—and then, about 20 minutes later, I was scared of everything. I was so panicky. He said: "Just relax, don't start that, you can't go home now." It was so funny, because that was my first experience. That one joint, my whole body was like: "Oh, God, what did I do? I ain't doin' that no more!" Next day, I wanted more.

In 1981, there was an MC convention, and a lot of MCs was signing up to win a trophy or the \$500 cash prize and reputation for being the greatest for 10 minutes. And, prior to that, I had won all of them. And I would come last—they didn't want to go on after me. I had the name. I used to uplift the crowd, and I would keep a smile on their face. The host of the show was like, "Last, but not least—Busy Bee." And I got on. Then the guy was sayin' the contest is over, but one more rapper wanted to enter—and his name is Kool Moe Dee. "But Kool Moe Dee is in the Treacherous Three." "No, he not doin' the Treacherous Three, he's just going to do it by himself." So he got on the microphone, and the first thing he said was: "Okay, how many people like Busy Bee?" And everybody went bananas. "Well, I'm here because everybody say Busy Bee can't be beat, and Busy Bee keeps winning all these contests. Well, I'm here tonight to take him out." And he went into his snappin' thing. I'm downstairs, smokin' weed, drinkin' champagne, beatin' on the girls and chillin', you know? And my homeboys come down and say, "Biz! Kool Moe Dee is goin' crazy up there! This nigger is snappin' on you! You gotta go upstairs!" By the time I got upstairs, people was just goin' crazy. It was no battle—the way he said it, it was funny. The next day, the word went out like a tidal wave—I couldn't go no place. I mean, right now it's 2010, and that tape is still rockin' right now today. But it was no battle—it was sabotage.

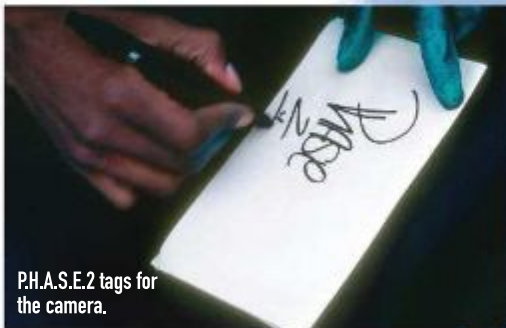
For more: *Origins of Hip Hop with Busy Bee Starski*: [youtube.com/watch?v=aBRXefG0Pbc](http://youtube.com/watch?v=aBRXefG0Pbc)  
*Kool Moe Dee Snaps on Busy Bee*: <http://www.youtube.com/watch?v=iGMakc5eWfw>

# FIRST GENERATION HIP-HOP

## P.H.A.S.E.2

creator of wild style and classic street dances

I grew up in an atmosphere where we recognized we were being robbed of knowledge of culture, and knowledge of self. We created an art form that came up from our supposedly insignificant existences, and now it's everywhere on earth. That's a testament in itself. In the late '60s, amidst an abundance of political and social turmoil, cultural awareness, racial pride and unrest, a youth-inspired movement emerged. Those who spawned its birth called it writing .... We're a part of something that is not only a part of New York history, but a part of the world.



P.H.A.S.E.2 tags for the camera.

But instead of trying to deal with the culture, the authorities chose to wipe it out. Just think ... they tried to kill it, but it just wouldn't die. No one I know in New York learned about hip-hop from movies or books. We experienced it all around us and through us: From the Lindy hop and jitterbug to the boogaloo, Afro twist, Latin hustle and freestyle, you always had those who were taking it all to a different level. Older brothers and sisters rocked to "Mother Popcorn" and "Karate Boogaloo" at a sweet-16 house party .... Just because you write or were in a movie or a book doesn't make you hip-hop, just like being able to spin on your head doesn't necessarily make you a b-boy. For the true hardcore, it's deeper and more spiritual. Words like "legend," "old school" and "pioneer" are not appropriated correctly these days.

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## GRAND WIZZARD THEODORE

inventor of scratching and the needle drop

I think it happened because of the poverty—the abandoned buildings, the way people were living with the drugs and stuff and, like, nothing really to do. Music was a way out for everybody. And it got to the point where everybody started gettin' into it. And as time went by, our way of expression kept elevating, it kept goin' to different levels, and it became hip-hop. You could express yourself through graffiti or MCing or DJing. I remember, when I first went to see Herc throw a block party, I was like: "Wow!" He had the big giant speakers, and the sound system was like really, really crazy. So after I heard Herc, I was hooked, I was like, "This is what I want to do!"

Hip-hop came from nothin'—it was just a way for us to express ourselves. We wasn't worried about what it was gonna become. It was just a way for us to celebrate. Grandmaster Flash made a break that was three seconds long and extended it to however long he wanted. He would backspin the record and get it back to the part that he needed. And then I came up with the techniques called scratchin' and the needle drop, where I could just pick the needle up and drop it on the part of the record that I needed. Me and Flash were the only people that was takin' DJing to the next level.

When I first did scratchin', there was nobody in the house but me. I was making a cassette tape for my school. And the music was really loud in the house, so my mom busts in the room: "Hey, turn the music down or turn the music off!" When she was talkin' to me, I was still holding the record, rubbing it back and forth with both turntables playin' at the same time. I didn't have no earphones on. When she left, I rewound the tape and heard myself doin' it and just capitalized off of it. Then my brother Mean Gene couldn't find Flash for two or three weeks. Nobody heard from him—we pretty much thought he was dead. My brother wanted to throw a block party, so he said, "Eff this, I'm going to do the block party." He let me jump on the turntables, and everybody got to see what I can really do.

Hip-hop today doesn't have no soul—it's gotten to the point where you have these record companies tryin' to dictate to us what hip-hop is. You take an 18-year-old kid, and he want to talk about how many people he killed and how many drugs he sellin' on the street. That's what they want to put out instead of puttin' out music to make people feel good. They let Public Enemy roll for a little while, and they just tried to get rid of them. I think it should be a balance. I mean, play Lil Wayne on the radio, but also play Slick Rick and Dougie Fresh. Play everything so everything can be rounded off. The first generation of hip-hop, we're not getting our proper respect. We elevated everything. ✨

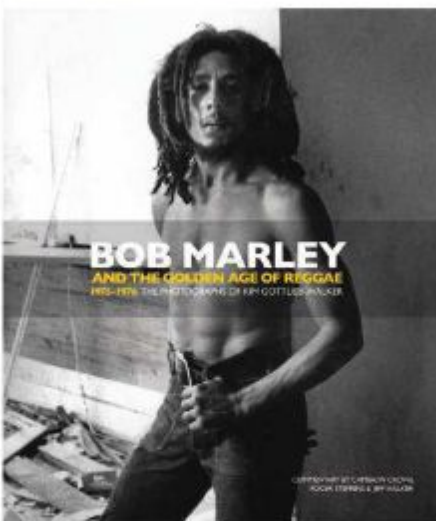
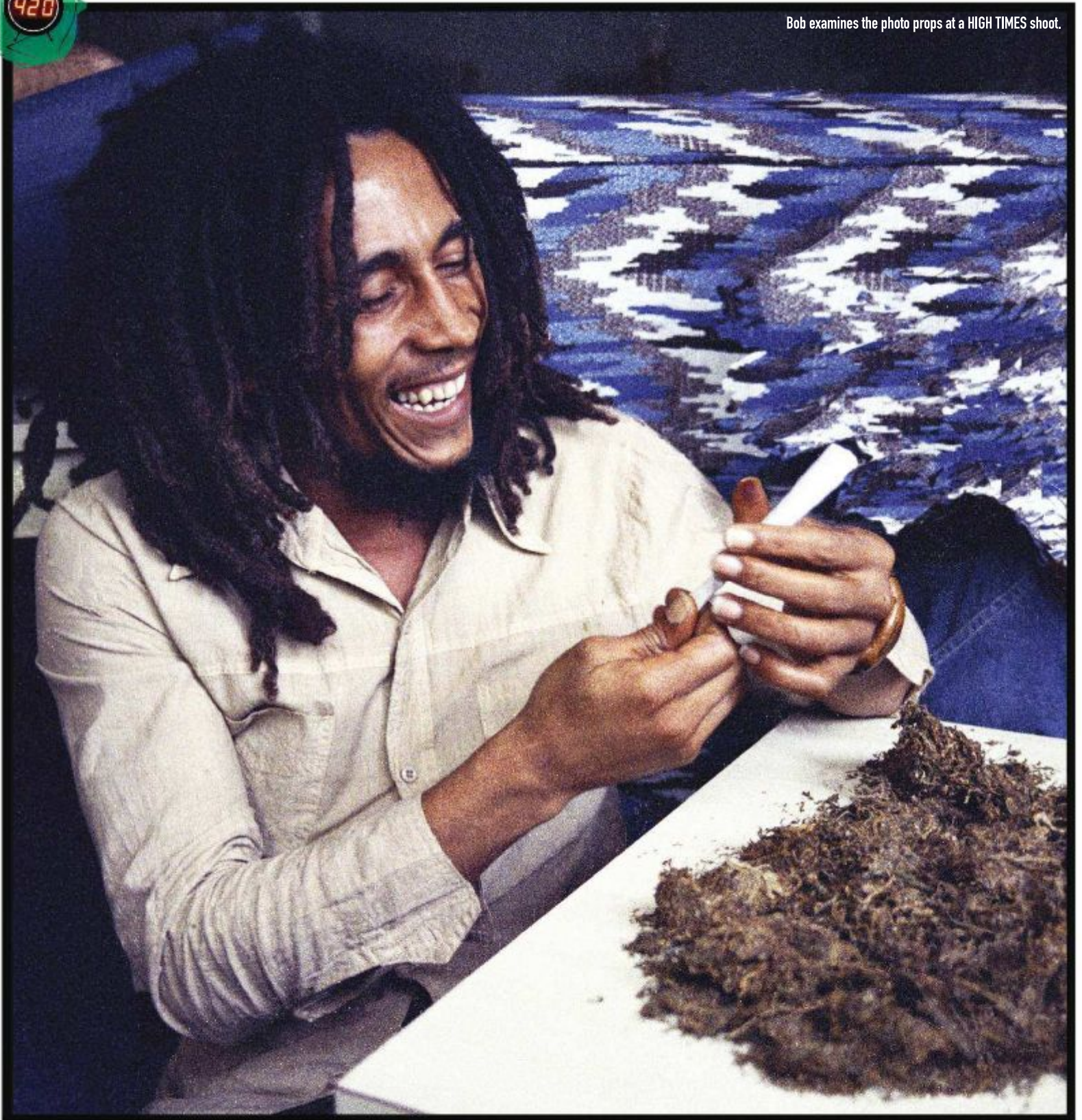
For more: *Birth of the Scratch*: [youtube.com/watch?v=4JBa6w00HI](https://www.youtube.com/watch?v=4JBa6w00HI)

Grand Wizard Theodore at the T Connection in the Bronx, 1980.





Bob examines the photo props at a HIGH TIMES shoot.



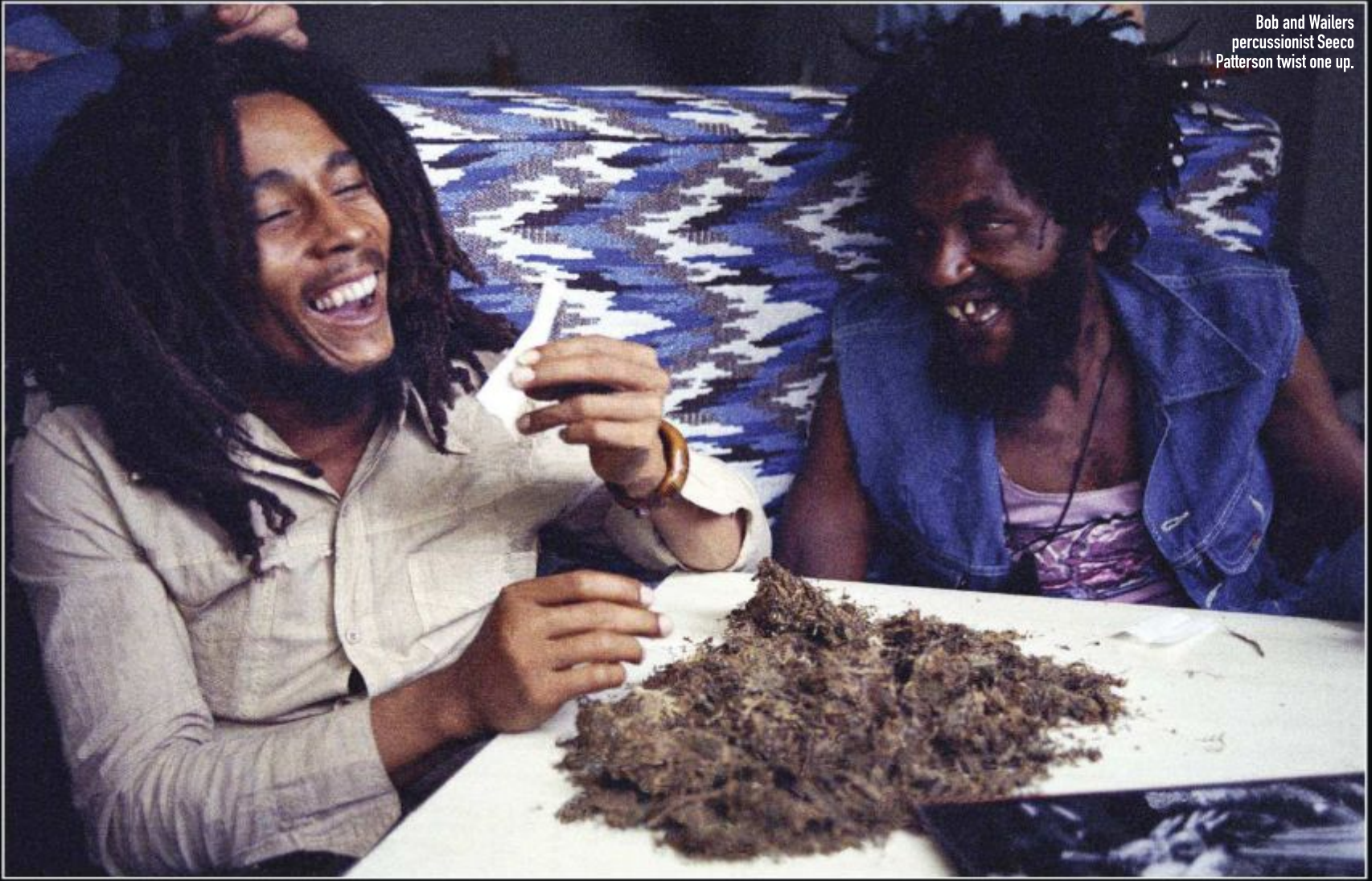
## HIGH TIMES WITH BOB MARLEY

Story by Jeff Walker, Photos by Kim Gottlieb-Walker

During 1975 and 1976, renowned underground photojournalist Kim Gottlieb and her husband, Island Records publicity head Jeff Walker, documented what is now widely regarded as the golden age of reggae. Over two years of historic trips to Jamaica and exclusive meetings in Los Angeles, Kim took iconic photographs of the artists who would go on to define the genre and captivate a generation. Their new book, *Bob Marley and the Golden Age of Reggae* (Titan Books), recounts that journey and provides many never-before-seen pictures of reggae luminaries, including Peter Tosh, Bunny Wailer, Toots Hibbert, Burning Spear, Jacob Miller, Third World, Lee "Scratch" Perry—and, of course, Bob Marley. On the occasion of HIGH TIMES' 420th issue, enjoy these unpublished outtakes from the photo shoot that Bob did for our legendary September 1978 cover.

1976 was a banner year for both Bob Marley and Island's overall reggae campaign. *Burnin'* and *Catch a Fire* were both reissued early in the year, and we released *Rastaman Vibration* on April 30 (which would reach No. 8 on

Bob and Wailers  
percussionist Seeco  
Patterson twist one up.



Bob in contemplation.

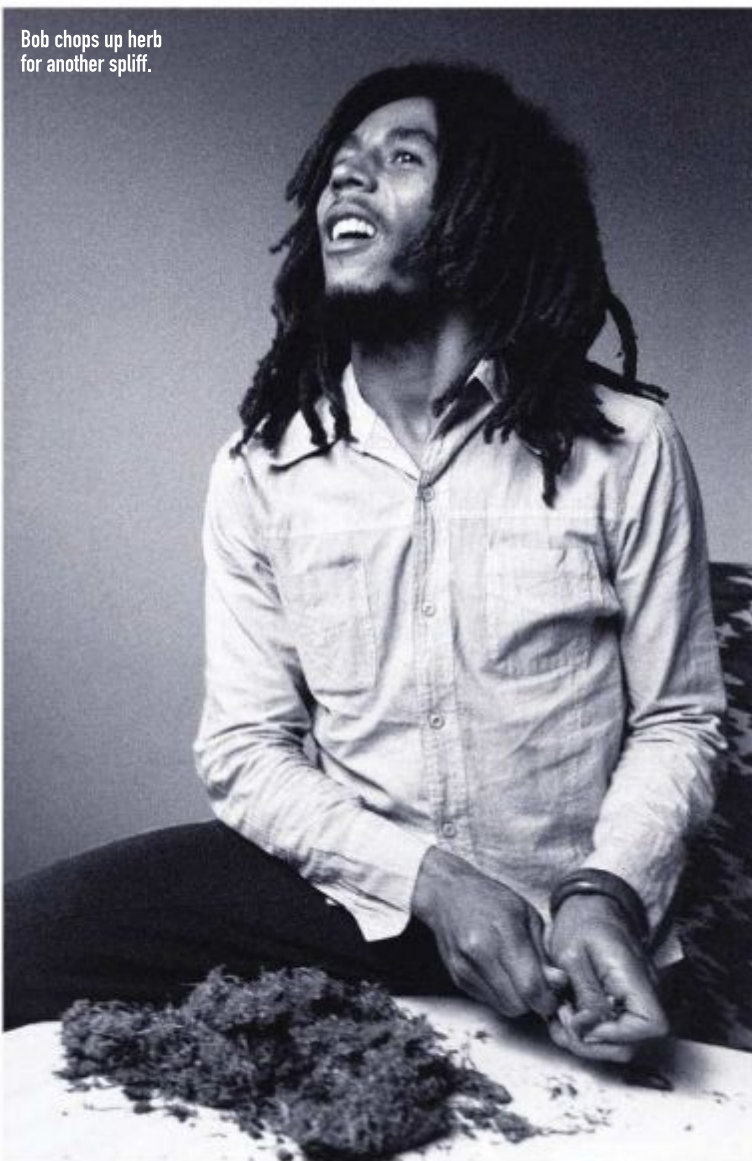




Bob and Seeco representing the herb.



Bob chops up herb for another spliff.



**BOB WAS ENTHUSIASTIC ABOUT AN OFFER TO BE ON THE COVER OF HIGH TIMES, AND HE READILY AGREED TO DO A PHOTO SHOOT.**

*Billboard's* Top Albums chart).

And, having been personally invited by Pete Townshend, Toots and the Maytals were in the midst of an American tour opening for The Who after Island released their now-classic album, *Reggae Got Soul*.

Toots was also one of the sweetest, most energetic and determined people I've ever known—and the only reggae performer who came close to being the kind of "showman" that James Brown personified onstage.

Island was also releasing the landmark soundtrack album from Perry Henzell and Jimmy Cliff's *The Harder They Come*, as well as the Heptones' *Night Food*, Burning Spear's roots classic *Marcus Garvey*, Jimmy Cliff's *Strugglin' Man*, Max Romeo's *War in a Babylon*, Dillinger's *CB200* and Third World's self-titled debut album.

The Wailers' "Rastaman Vibration" tour began in April 1976, and I joined up with them in Philadelphia, where Bob and I talked about that year's tour publicity and some interviews we had planned when he got to LA. The band arrived in LA on May 26 to play the Roxy again, this time with Donald Kinsey on guitar and all three of the I-Three. This was one of the greatest performances I had ever seen Bob give. I also had the privilege of introducing Bob to a Beatle, and his reaction was an enthusiastic "Ras Beatle!"—face to face with Ringo as they greeted each other. Alas, this meeting took place in the dark recesses of On the Rox, the secret party floor above the Roxy, and no pictures were ever taken.

During some down time between the Roxy and the Santa Barbara County Bowl, Kim and I went to Bob's hotel to shoot a private session for the now-iconic HIGH TIMES cover that would feature Bob smiling over a mound of herb. His delight that afternoon is pretty evident in these never-before-seen photos of that session.

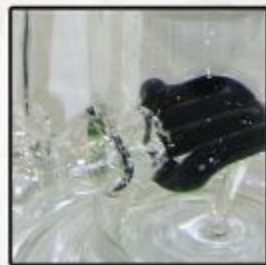
Two days later, as the sun set on Bob Marley as he neared the end of his outdoor concert at the Santa Barbara County Bowl, none of us could have imagined what lay ahead in the next few years—from the attempt on Bob's life in his home as he was rehearsing for the "Smile Jamaica" concert (meant to help simmer down a very tense political climate in Kingston) to the diagnosis of the cancer that would eventually take his life way too soon. But on that day in Santa Barbara, in an idyllic setting, Bob was at the peak of his powers, and his legend would only continue to grow. ✨

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# KINKY THINK

What Would Kinky Do?

**Kinky Friedman**

(St. Martin's Press)



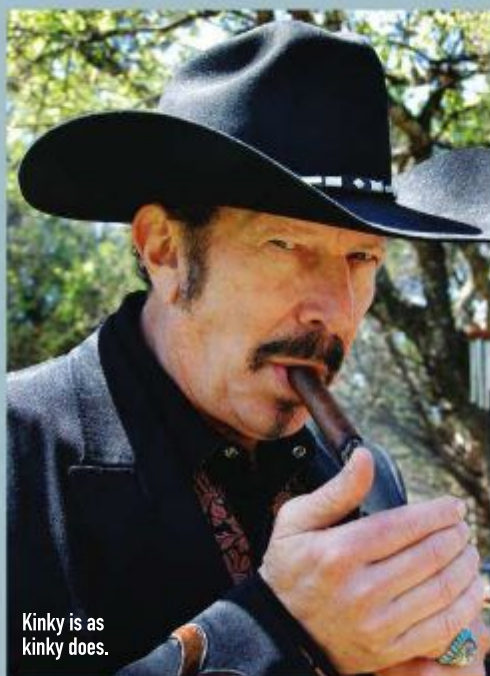
Heroes of a Texas Childhood

**Kinky Friedman**

(Kismet Press)



To characterize Kinky Friedman as “eclectic” would be an understatement: The country singer/mystery novelist/cigar entrepreneur/gubernatorial candidate/humorist has excelled at everything he’s tried. Here are the Kinkster’s two latest tomes, and they’re as smart and funny as all the rest. You expect something at least interesting from a man who sleeps in bed with four dogs (as well as a cat on his head), and whose avowed subversive duty is to “irritate the hall monitors.” (I have to be careful not to quote Kinky too often or he’ll expect to be paid for this review.)



Kinky is as kinky does.

His fans know he’s smart and funny, but what chroniclers miss in describing him is how soulful the wisecracking He-brew-hyphenate is. *Heroes ...* is a revealing look into his character, formed by the many influences of his youth. There are chapters devoted to his father and his babysitter, as well as to old-school liberal Texas politicians (it’s *not* an oxymoron) like Ralph Yarborough and Ann Richards, Alamo casualties like Davy Crockett, and Lone Star historians like J. Frank Dobie. The Friedman litmus test for heroism is a devotion to the cause of underdogs and a determination to do what thou wilt while telling the critics to go to hell.

Likewise, *What Would Kinky Do?* is a paean to another of his life’s idols—himself. (Kinky’s admitted that he can’t go longer than five minutes without talking about the subject.) A collection of odds and ends—magazine columns, liner notes, book reviews—it functions as an autobiography by someone who’s too attention-deficit-disordered to sit down and write one. Indeed, there’s more information contained herein than I can repeat in such a short space—but besides his musical career with the Texas Jewboys and his adventures in literature and attempted public service, Kinky recalls a childhood memory of his father’s friend, whose testicle was once hanging for all to see from the poor guy’s swimsuit. “You don’t see people’s testicles hanging out of their bathing suits much anymore,” the author notes.

And in an era that rewards conformists with political office and airheads with celebrity status, we don’t get singular worldviews like Kinky’s much anymore. As for these books: Read ‘em and roar.—**Michael Simmons**

## Eminem

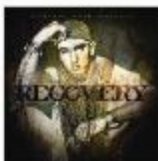
*Recovery*

(Aftermath/Interscope/Shady)



Eminem (a.k.a. Marshall Mathers) may no longer be one big step ahead of the curve, but the iconic Detroit rap sensation still boggles the mind with his indignant wordplay. During the ‘90s, the smirking freestyle satirist shocked the world by proving that a fragile white dude could stand up to hard-hitting hip-hop guiding lights like the Notorious BIG, Tupac and Snoop Dogg. But after a self-imposed three-year retirement, his ranting, celebrity-stoked diatribes took a backseat to more personalized escapades on 2009’s purging *Relapse*—a reasonable response to a second divorce and an ongoing rehab stint.

A year later, the cleaned-up superstar continues to tone down the audacious banter for the frantic abolition of *Recovery*. Even if his snipping, quick-spit rhymes don’t always cut as deep as they once did, Eminem’s definitely retained enough skill to thrill. Yet it’s the internal pain caused by ruinous prescription-drug abuse (Valium, Vicodin, Ambien) that gets frontline attention here. Ultimately, he plays a sympathetic loner whose sardonic streak has turned reflectively inward. When he’s not wallowing in grief-stricken pain, the apologetic wordsmith searches for redemption in “Talkin’ 2 Myself” and “Won’t Back Down.” His validating promissory note, “Not Afraid,” invites faithful fans to join hands on the long journey back to sobriety. But that’s not to say he still can’t become a “loose cannon” sticking daggers into anyone who gets in the way on the righteous opening salvo, “Cold Wind Blows.” Once the chief voice of authority for documenting our scandalous contemporary culture (and also propagating antagonistic jilts), Eminem’s currently convalescing as a bruised and battered survivor.—**John Fortunato**



## Underworld

*Barking*

(Cooking Vinyl)



Usually, dance-music artists don’t have to worry about growing old. Even in a musical environment where you’re only as good as your last Mixcloud, producers can continue to DJ and release tracks for as long as they can make people move—which means the emergence of fatigue in a heritage dance act’s sound can often be far subtler. In Underworld’s case, they’ve also got the added burden of living up to a legacy of stadium electronica smashes, from “Born Slippy” to “Cowgirl,” that gave birth to the term “progressive house.” Nowadays, they’ve got a whole bunch of snot-nosed electro hipsters to contend with—and since founding partner/DJ Darren Emerson’s no longer around to help them make sense of it, they’ve recruited Paul Van Dyk, Deep Dish’s Dubfire and other collaborators to flesh out the productions for their latest LP. But while there’s fun to be had on it, *Barking* smacks of diminishing returns.

Vocalist Karl Hyde, for one thing, is still plugging away with his rhythmic-doggerel free-verse shtick, so there’s nothing new there—plus the productions that surround him are highly variable. The Paul Van Dyk collaboration, “Diamond Jigsaw,” with its guitar-driven melody and commercial-soundtrack-ready feelgood chorus, may be the blandest thing they’ve ever recorded. And even the better tracks, like the quirky wobble of “Hamburg Hotel” and the hands-in-the-air uplift of “Scribble,” make one wonder where the group’s once easily recognizable style has gone. Judging from “Louisiana,” the album closer, it’s taking a distressing snooze in a field where sleeping is prohibited.—**Justin Hampton**



## Wiz Khalifa

*Kush and Orange Juice*

(Taylor Gang/Rostrum Records)



*Kush and Orange Juice* plays up Pittsburgh MC Wiz Khalifa’s daily indulgence of marijuana, women (often someone else’s), fashion (primarily Louis Vuitton) and the player life. The album was strategically released a week before 4/20—and, soon after, the tag #kushandorangejuice became Twitter’s No. 1 trending topic. No surprise there: Since his first mixtape, *Prince of the City: Welcome to Pistorvania* (2005), the former Warner Bros. artist (circa 2007 to ‘09) has maintained a habit of attempting to unify the weed-smoking universe.

On the flute-driven track “The Statement,” Wiz Khalifa opines: “We belong on the top but we ain’t trippin’ / ‘Cause we’ll get there in a minute” (and also: “At my hotel chillin’ / Bad women coming for my marijuana prescription”). On the top-down, cool-out track “Spotlight,” he boasts: “No joint roaches in my car / Play the game smart, we gonna get this cheese / Don’t give police a reason to fuck us all.” He also reminds fans of his player mentality: “While you at home on Twitter trying to hack in her page and shit / We smoking and cracking jokes at how lame you is.” The Kush theme continues accordingly on “In the Cut,” with “rolling doobies up” and “I always keep one rolled” as part of the sped-up track’s chorus. But possibly the most risqué track is “We’re Done,” which samples Demi Lovato’s Disney pop-rock song “Our Time Is Here.” All in all, *Kush & OJ* offers a tastefully eclectic blend of various musical rhythms and melodies that make for easy listening, every bit of it aimed to take you higher.—**TRU**





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# THE GREAT HIPPIE DEBATE

Two sides square off to determine what legacy the flower children deserve. By Paul Krassner

At the Winnipeg Comedy Festival, I participated in a fake debate played strictly for laughs. The resolution: "Whereas they were mostly disheveled, disorganized and doped up, be it resolved that the hippies of the '60s accomplished nothing."

Comedian Bruce Clark took the affirmative position. "Don't get me wrong," he argued, "I like hippies. Some of my best friends are squeegee kids. In fact, it would be a better place if hippies were running the world. And when I say 'running the world,' what I really mean is harvesting the marijuana. It would be a kinder, gentler society, but let's be honest: Nothing would ever get done. Unless you think it's an accomplishment to stare at your own hand for an hour or tie-dye your cat."

"Hippies often gave their children names associated with hippie culture, names like Sky, Rain, Sunshine and Autumn. I thought it was because of their respect for nature, but it's actually something else that's associated with hippies: being homeless. I didn't figure that out myself; I heard it from the son of hippie parents and a good friend of mine—Spare Change. He's not happy with the name, but his sister, Dumpster Diver, is *livid*."

"Hippies justify their counterculture lifestyle by pointing to the man they call the 'original hippie,' Jesus. I gotta say I agree: Jesus had long hair, he wore sandals, he was anti-establishment, and he hung around with a dozen other guys who never seemed to have a job. And he must have been stoned to hang around with all those lepers. I'll concede the fact that Christ was a hippie—but I doubt that Jesus made his wine out of bong water."

"Unless we employ revisionist history, there's no evidence to suggest hippies accomplished anything. Grace Slick, the lead singer of Jefferson Airplane, said it best when she said: 'If you remember the '60s, you probably weren't there.' And if you *were* there, you're probably too old to remember them. Hippies have added little to the world. It would be a great MasterCard commercial: 'Used Volkswagen bus, \$600. Incense, \$10. Collection of Grateful Dead eight-tracks, \$6. Being a hippie: useless.'"

Then came my rebuttal.

"In the aftermath of the repression and blandness of the 1950s," I argued, "hippies exploded onto the scene, deriving their entire philosophy from Celestial Seasonings teabag boxes. At its core, the counterculture was a spiritual revolution: The holy trinity was sex, drugs and rock'n'roll. But the fundamental accomplishment of hippies was that they cared for each other. This characteristic was crystallized at



The heritage of hippies is not viewed favorably by all.

Woodstock by an announcement warning the audience: 'Do not take the brown acid!'

"Timothy Leary, a cheerleader for the hippie movement, was the guru of LSD, a chemical compound that he considered to be a vehicle for expanding consciousness. Leary even wanted to experience consciousness after his death. He planned to have his head frozen so that someday

technology would enable him to be cloned from his own cells. And if that didn't work, his head could always be used on *Celebrity Bowling*."

"After I took my first acid trip, I told my mother about it. She was very concerned—she said, 'It could lead to marijuana.' My mother was right. She cautioned me, 'And marijuana could become a habit.' Indeed, when *HIGH TIMES* published a questionnaire, one of the questions was 'Is it possible to smoke too much pot?' And a reader responded: 'I don't understand the question.'"

"Socrates said, 'Know thyself.' Norman Mailer said, 'Be thyself.' And the hippie movement said, 'Change thyself.' Many hippies changed their names as a symbolic act of their independence from mainstream society. The editor of a psychedelic paper, *The Oracle*, changed his name to Siddhartha and joined a commune, where they all called him Sid—they thought his name was Sid Arthur."

"Hippies not only developed a humane value system, they also lived their alternative, based on cooperation rather than competition. They served as harbingers of organic farming, alternative medicine, women's liberation, environmental pro-activity—and hippie theme parks."

"That old hippie maxim of the 1960s, 'Make Love, Not War,' is as relevant today as it was then—literally. Aging male hippies don't seem to have any problem with erectile dysfunction; they just worry that it's really rigor mortis setting in on the installment plan. I imagine myself emceeding the Geezerstock Festival, standing on an outdoor stage, looking out at a vast audience of gray-haired hippies with paunches and wearing granny glasses. 'Are you having fun? I can't hear you! No, I mean I really can't hear you! And now I'd like to introduce the Rolling Stones before they gather any more moss. Oh, wait, I've just been handed an announcement: 'Warning: Do not take the brown antacid!'"

Judging by the audience applause, the moderator declared me the winner of the debate. I'll smoke to that. ✨

Paul Krassner publishes the infamous "Disneyland Memorial Orgy" poster. Come visit Minnie Mouse—who's fucking Goofy—at paulkrassner.com.

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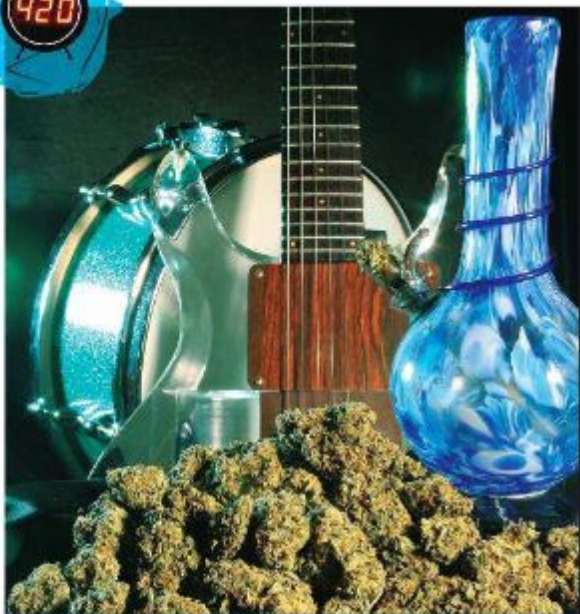
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BY BOBBY BLACK

## COLOR ME KOZIK

can't help but think back to our first-ever 420 Collector's Special a decade ago. It was our May 2000 edition, and it happens to be one of my all-time favorite issues for several reasons. For one thing, it contained my stoner rock feature "It's Only Rawk & Roll"—the story that enabled

me to travel to California for the first time. On that trip, I not only got to see and party with about a dozen killer bands, I also got to interview one of my personal heroes: rock-poster artist extraordinaire Frank Kozik.

It was warm and beautiful in San Francisco that morning, which is why I made the mistake of attempting to trek down to Frank's studio on foot—foolishly expecting (like only a New Yorker would) that if I grew tired, I'd simply hail a

cab. Instead, I soon found myself hopelessly lost in the deserted wasteland that is the East Bay industrial area, on what had to be the hottest day of the year. Feet aching, throat parched, body drenched in sweat, I was beginning to lose heart. And then I heard it—from the distance behind me, a low roar, then a rumble, growing closer, louder, building in vibration and volume. I squinted into the horizon, and then I saw them—an army of Harleys a thousand strong, like an earthquake on wheels ripping toward me from as far as the eye could see. Knowing that Kozik rode a hog himself, I mused wearily that perhaps fate had sent them to show me the way. I followed the caravan down Third Street, to a local watering hole on the corner of 22nd called the Dogpatch Saloon, and inquired within. Sure enough, I'd made the right call—turned out that Kozik's place was directly across the street from the bar.

Taking up an entire floor of the waterfront warehouse, his studio space was a fanboy's wet dream—smothered in rare posters, stickers, comics, toys and an entire display case full of Zippos. After a quick tour of the print room and the rest of the floor, we settled in at his desk, where I spent about two hours picking his brain as he inhaled some McDonald's and Marlboros.

Juxtaposing images of fetishism and fascism with childlike cartoon characters, pairing violence, vice and vulgarity with innocence, ennui and the iconic, Kozik has created some of the most memorable and mesmerizing posters and album covers in rock history. From punk legends like the Sex Pistols and Iggy Pop to guitar greats like Dick Dale and Eric Clapton, from

Chili Peppers to metal masters like Slayer and Soundgarden, he's worked with them all.

But Kozik wasn't content to rest on his artistic achievements. Eventually, he "got bored doing the poster thing" and decided to start his own indie label—Man's Ruin Records. Between



Our first 420-themed issue, illustrated by Frank Kozik.

1994 and 2002, this underground media mogul designed and put out over 200 releases (mostly collector's items like colored vinyls), including the much-sought-after *Desert Sessions*—all-star jams featuring members of stoner rock luminaries like Kyuss, Fu Manchu, Nebula, Monster Magnet and Soundgarden.

As both a disciple of stoner rock and an avid poster collector, Kozik was something akin to a demigod for me. When I started studying graphic design in college, the first projects I

began creating were my own rock posters. During my 16-year tenure here at HT, I've designed tons of event posters and flyers, and Kozik has always remained my biggest influence.

After the interview, he let me browse through his vast inventory and take pretty much whatever I wanted—including the metallic gold poster for his Man's Ruin showcase at the Justice League club that I'd seen the night before. (It now hangs framed above my mantel.) Before leaving, I asked him if he'd consider doing an exclusive illustration for that issue—and he agreed. A few weeks later, a disc arrived; on it was a layered, digitized illustration of a jolly green she-devil wearing only a giant pot leaf with a 420-tiled background behind her. After a little debate and a lot of cajoling, the publisher and art director agreed to not only make it the cover, but to let me do the layout.

Which brings me back to why that 420 Collectors' Special is so special to me: It was the first and only HIGH TIMES cover I ever commissioned and designed myself—and, as it turns out, the last time we've had an illustration on the cover. Of course, being who we are, few cover images can compete with the holy herb itself when it comes to sales figures. Nevertheless, though it may not have been one of our biggest-selling issues, it's without a doubt one of the most unique and iconic. ✨

**For more about poster art, turn to page 52. To read the original Kozik interview and see a gallery of Bobby's poster designs, go to [hightimes.com/almostinfamous](http://hightimes.com/almostinfamous). For more on Frank Kozik, go to [fkozik.com](http://fkozik.com).**

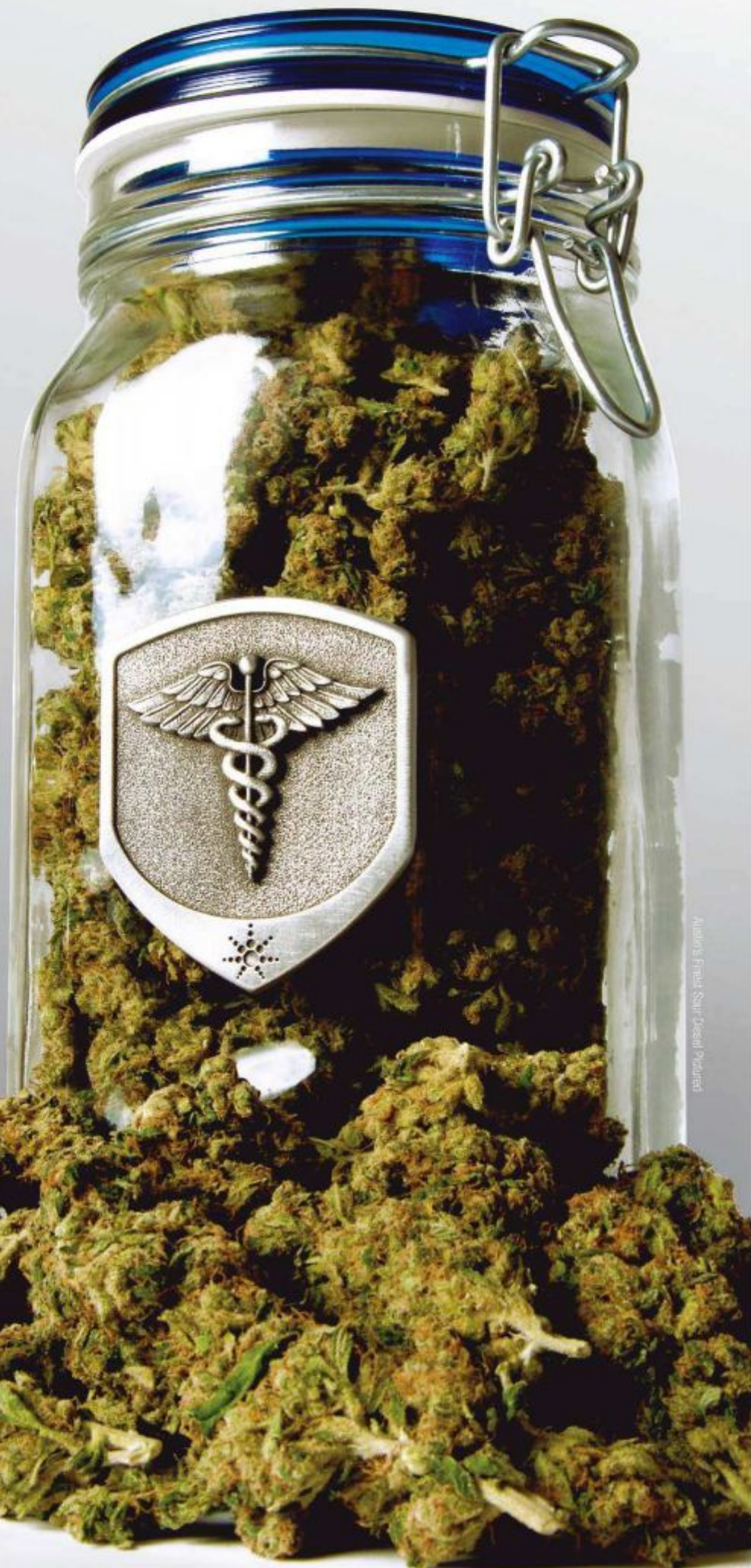
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# Sweet Seeds

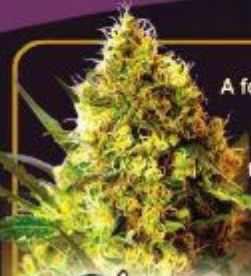


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## Autoflowering

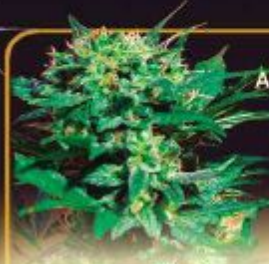


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## Autoflowering



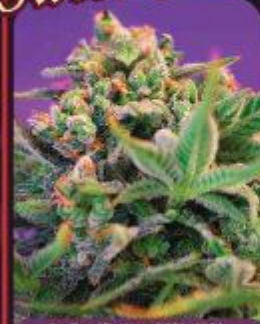
Automatic feminised variety. The beginning of its flowering does not depend on season or photoperiod; therefore it can be grown all year round. Extremely fast flowering, it's height does not exceed 80 cm. Sweet aroma, hints of cheese and yeast.

### Speed Devil

Autoflowering: 100%. Indoor Blooming: 5 weeks.  
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## Sweet Cheese

### New



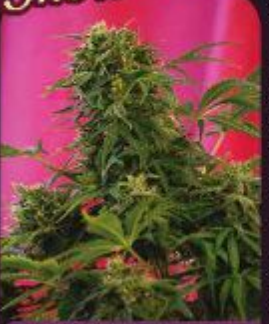
It's a fusion between two high-grade strains, Cheese x Black Jack. The genetics highlight the virtues of its ancestors, giving a new twist to the aromas and flavour of the Black Jack. It produces long central buds surrounded by plenty of peripheral buds that are also long and of good quality. Its high 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



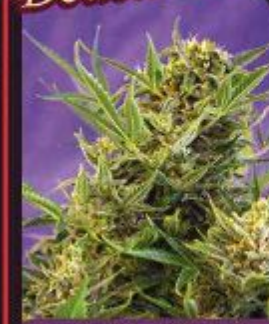
Sweet Seeds present the abominable plant of the snow! It has predominantly indica genetics that, in our opinion, have rarely been seen before. This strain has an exaggerated development of the lateral branches. Because of this just one plant can occupy an extensive area of cultivation and produce a huge 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 intermodal 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

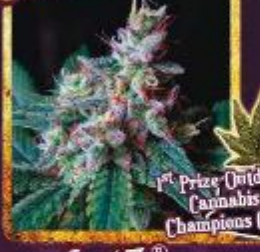


This is the result of crossing two elite clones selected around the year 2000, White Widow and Great White Shark, which are the two most appreciated and famous of the White family. Genetics characteristics include easy growth, strong effect, extraordinary taste and high production of trichome covered 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



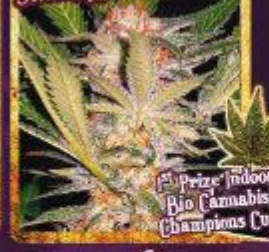
Cocktail of our best indicas, Blue Black x Maple Leaf Indica x White Rhino. Sweet and caramelized taste. Relaxing and antidepressant.



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



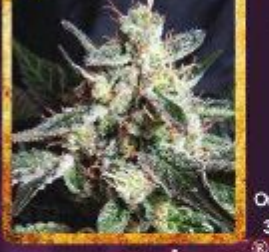
Self-pollination of one of our strongest and most aromatic mothers. Afghan genetic, with a strong sweet aroma.



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

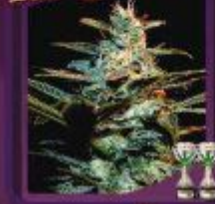


Hybrid between the two most powerful varieties of all time, Jack Herer x AK 47. Very high production with a very intense effect. Excellent force, the plant produces big buds full of resins. Sweet and incensed aroma.

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

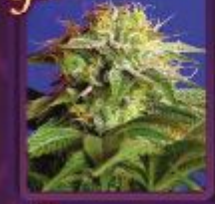


Developed starting from a NYC Diesel line, powerful with high production with a particular and strong blue cypress tone and exotic smell. Indica's plant structure with a strong euphoric effect that shows the presence of sativa in its genetic heritage.

Indica/Sativa: 40%-60%.  
Indoor Blooming: 9 weeks.  
Outdoor Harvest: End of September.

3s. \$47,33 / 5s. \$68,84 / 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.A 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: 9 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.  
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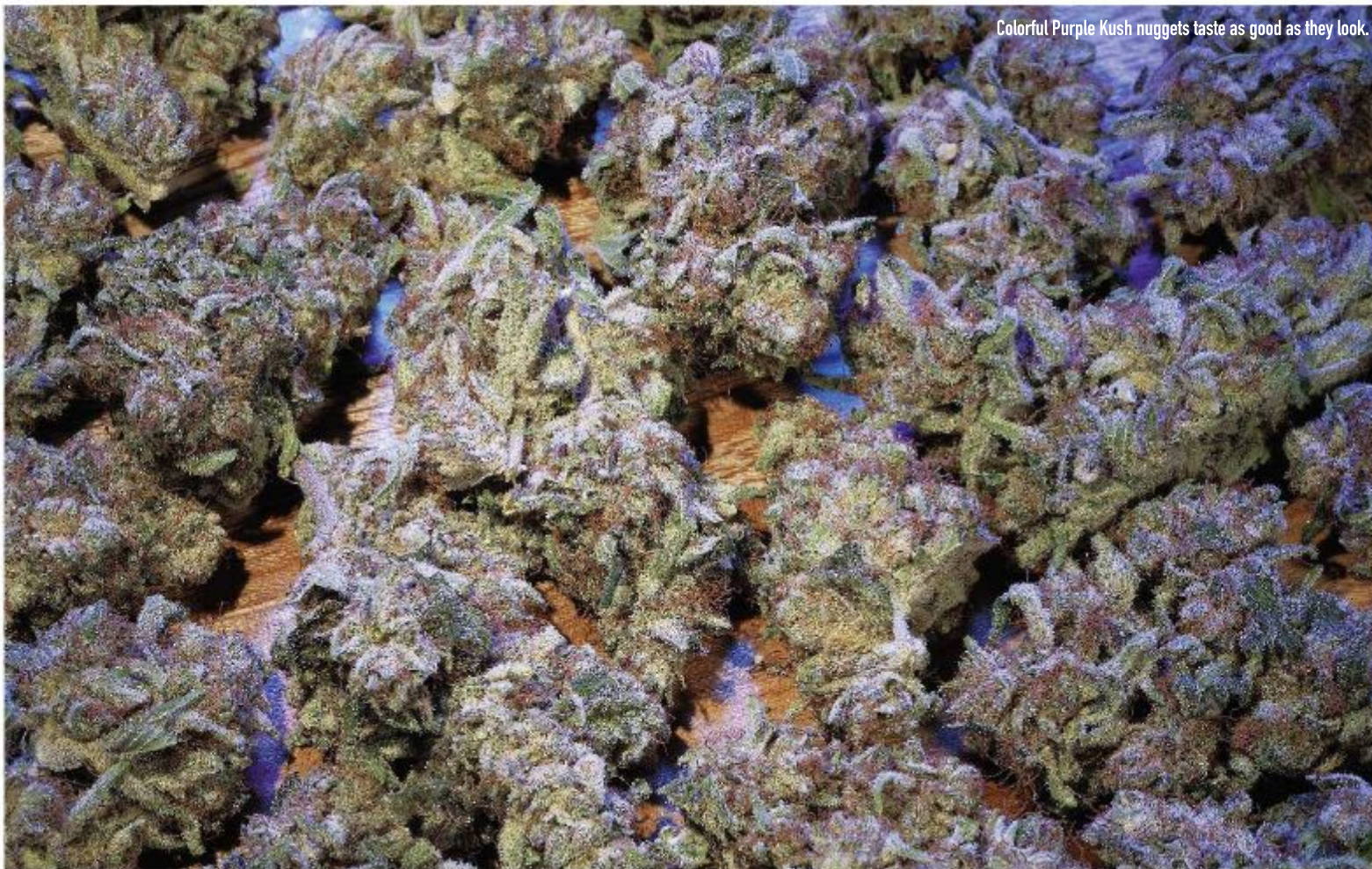
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Danny Danko travels in search of the mysterious truth behind the murky history of the legendary cannabis variety known as the Kush.

Colorful Purple Kush nuggets taste as good as they look.



# The Story of KUSH



## ORIGINS OF THE KUSH

The disputed region known as the Hindu Kush shares its boundaries with Pakistan and Afghanistan just north of Indian-controlled Jammu and Kash-

mir. The area has long been known for its ongoing conflicts as well as its history of cannabis and hashish production. Part of the legendary Himalayas mountain range, the fertile valleys and hillsides of the Hindu Kush have, for centuries, produced the world's finest hash. Years of natural and human selection for the most resinous, *indica*-dominant plants have resulted in short, stocky bushes covered with huge, shiny trichomes.

In the 1960s and early '70s, intrepid travelers on the "Hippie Trail" (including members of the Brotherhood of Eternal Love) returned to the US, Canada and Europe with primo seeds and began growing Afghani, Skunk and Kush strains in earnest. Sadly, in 1973, bowing to pressure from the United States, the newly self-appointed president of Afghanistan, who took power in a bloodless coup against the long-serving and hashish-friendly Afghan king, declared the production and sale of hashish illegal. He was overthrown by Afghan Communists in 1978, and the country was invaded by the Soviets in 1979, sparking another 30 years of warfare and bloodshed that continue to this day.

The Afghani hashish of the pre-war era remains legendary among older heads, and the strains that it spawned changed the cannabis growing scene completely. The *indica*-dominant genetics shortened typical flowering times, allowing plants to be grown all the way up to Alaska. In the process, the concept of "homegrown" changed from a term of derision to a point of pride.

## KUSH AND THE HIGH TIMES CANNABIS CUP

Many Kush varieties have won prizes for their breeders at our annual pot-tasting festival in Amsterdam each November. From the original Skunks of the 1980s to the Kushage, Vanilla and Kaia Kush of the current era, the strain's potency and flavor are undeniable. While Haze varieties dominate the *sativa* category in the seed-bank contest, Kushes traditionally prevail among the *indicas*. Kush strains have also provided the genetic basis for many perennial winners that don't have the word "Kush" in their names, such as White Widow, Sensi Star and AK-47.

Breeders know that one of the best ways to wow discerning judges is to use genetics laden with Afghani heritage. Long prized for its medicinal properties, this is the bud known for its "couchlock"—a perfect strain for an evening nightcap, but also one capable of changing all your plans when puffed at midday. The intense citrus flavor, skunky odor and extremely long-lasting stone aren't soon forgotten.

The Kush and the HIGH TIMES Cannabis Cup have a long and storied history—one that's guaranteed to continue for many years to come. Future Cups are sure to be won by plants bearing these illustrious genetics, and much of the best hashish in Holland continues to be made from these strains as well. Plus the centuries-long Afghan tradition of separating the trichomes from Kush plants to press into bricks of tasty hash has persisted into the 21st century worldwide.

## THE CURRENT STATE OF KUSH

Nowhere are Kush strains more prevalent than in Southern California. Many medical-marijuana dispensaries specialize in carrying as many varieties of Kush as they can get their hands on, and there are literally hundreds to choose from (OG, Larry, Tahoe, Russian Master and Lemon come to mind). These days, there are also *sativa*-dominant Kushes, Purple Kushes and “pretender” Kush strains with the name, but not the flavor or power of the true OG.

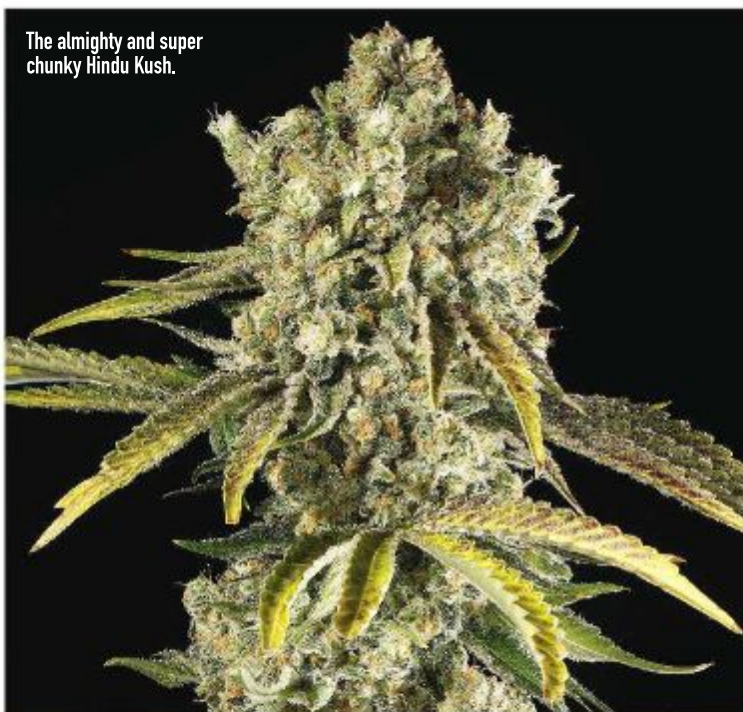
True Kush strains have also spread far and wide throughout Northern California and beyond. The OG is actually rumored to have come to Cali through the Lake Tahoe area from a Chemdog clone from the East Coast. True or not, the legends surrounding this famed variety continue to circulate, and the mysteries won't all be solved anytime soon.

Thanks to these many changes, however, the word “Kush” seems to have lost some of its meaning—but those who know can immediately discern that particular lemon-fuel odor and telltale tiny nuggets as the real deal. Strains with “Kush” in their name boast such a reputation for potency that, just last year, Republican Congressman Mark Kirk of Illinois introduced a bill to increase penalties for the distribution of “Kush.”

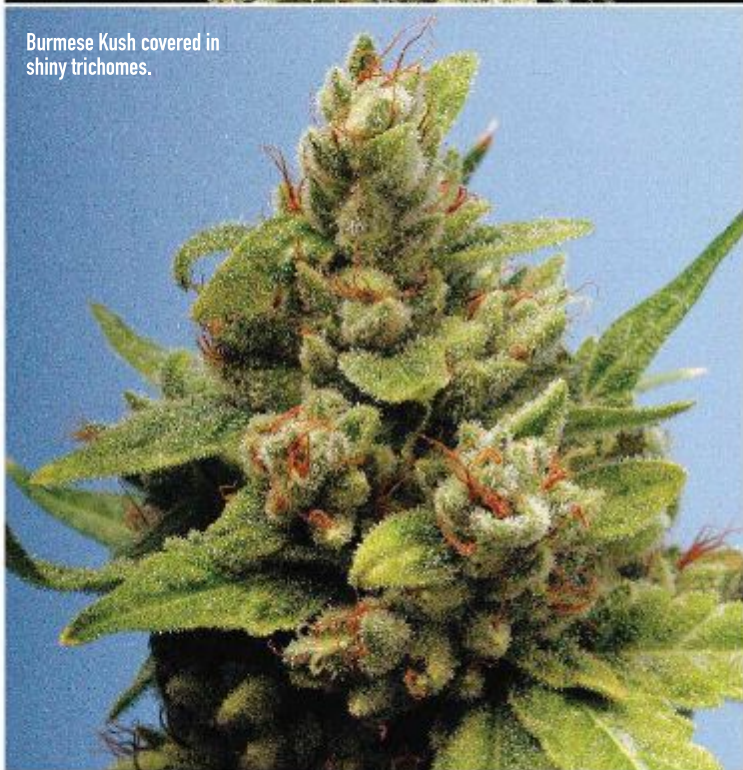
OG Kush grows tight, dense and frosty.



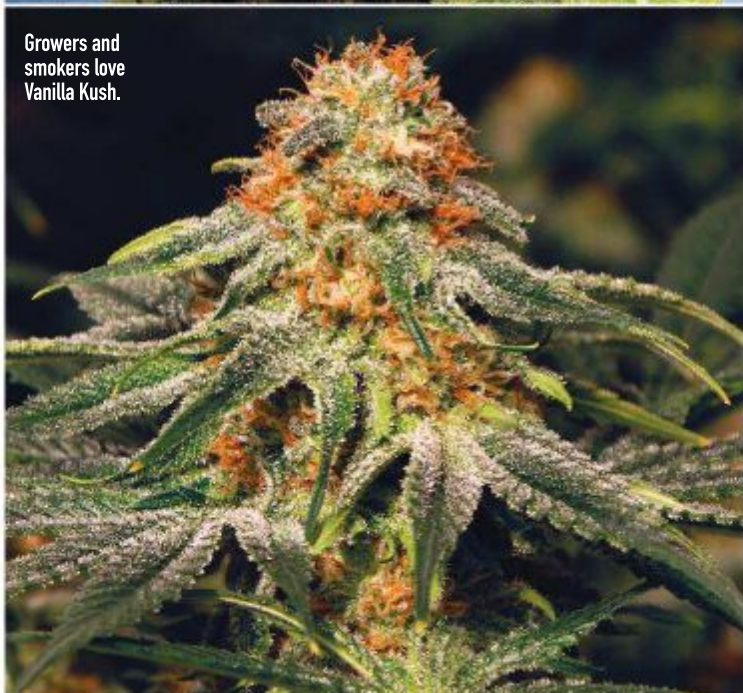
The almighty and super chunky Hindu Kush.



Burmese Kush covered in shiny trichomes.



Growers and smokers love Vanilla Kush.



# DANNY DANKO'S TOP 10 KUSH STRAINS

(Excerpted from the forthcoming book, *The Official HIGH TIMES Field Guide to Marijuana Strains*.)

## HINDU KUSH

**SENSI SEED BANK**

Pure *indicas* tend to knock people out, but Sensi's famous Hindu Kush has a more desirable zesty quality to it, as well as a rich, hashy smoke that tickles the nose and enlightens the senses. This odiferous strain has a super-short flowering time, coupled with the ability to start filling out right away for big, fast yields. Great for beginners and experts alike, Hindu Kush is known for its pungent notes of sweetness followed by hints of sandalwood, which distinguish it from the Kush we know and love in the USA.

Ken from Sensi Seeds calls their Hindu Kush "a classic, definitive *indica* sometimes referred to as 'Afghanica,' with the characteristic wide, dark green leaves and strong branching that make it an excellent building block for serious and hobbyist breeders." Indeed, cannabis botanists worldwide use a Sensi Seeds Hindu Kush male in their programs for stability. It also makes terrific hash with an old-school scent and flavor.

*Lineage: Indian landrace from the Hindu Kush mountains*

*Flowering time: 6 to 7 weeks*

*Contact: Sensi Seed Bank, sensiseeds.com*

## BURMESE KUSH

**T.H. SEEDS**

**HIGH TIMES Top 10 Strain, 2007**

T.H. Seeds have earned a stellar reputation for bringing the best of California's genetics to Amsterdam and beyond. This proud tradition continues with their latest offering, the Burmese Kush (lovingly referred to as "Buku"). One of the most resinous strains available at coffeeshops in Holland, Buku is the result of crossing an authentic Burmese Kush with the clone-only OG Kush so well known in the Los Angeles area. As one might expect, the results are super "kushy," with the telltale dark green leaves and unique piney flavor inherent in the Kush family of strains.

Anyone who smokes the real-deal Kush in Cali knows its tart diesel flavor and incredibly euphoric high. Combine those with a short flowering time and easy-to-trim profile, and you'll understand why we're cuckoo for Buku. Adam from T.H. Seeds suggests savoring the instantaneous effects of this strain in a nice clean bong filled with ice-cold water.

*Lineage: Burmese Kush x OG Kush*

*Flowering time: 7 to 8 weeks*

*Contact: T.H. Seeds, thseeds.com*

## VANILLA KUSH

**BARNEY'S FARM**

**2nd place HIGH TIMES Cannabis Cup 2009**

Vanilla Kush proves the adage that not all *indica*-dominant strains are created equal. It's hard to nail down the intoxicating scent these buds exhibit upon grinding, which is both complex and varied: Vanilla and sandalwood compete with citrus and lavender as they dance upon the palate. The smoke is full-bodied and sensuous, with the strong medicinal properties associated with heavy-duty Kushes. The higher-than-usual CBD content will especially soothe certain symptoms, such as severe headaches or muscle spasms.

When cultivated, Vanilla Kush boasts dark red hairs surrounding tight, frosty clusters. Even the fan leaves are crystal-coated almost out to the tips, and the buds fill out quite nicely. It's a strain that's also available these days in feminized form. Medicinal patients report immediate relief from smoking or vaporizing the Vanilla Kush—another sure-fire prizewinner from Barney's Farm.

*Lineage: unknown*

*Flowering time: 9 weeks*

*Contact: Barney's Farm, barneysfarm.com*

FREEBIE. COURTESY OF T.H. SEEDS. COURTESY OF BARNEY'S FARM

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BC Heli Bush \$60  
Lowryder #2 \$60

##### INDOOR / OUTDOOR

Sweet Island Skunk \$60  
Purple Buddha \$60  
BC Kush \$60

##### Purple Afghani \$60

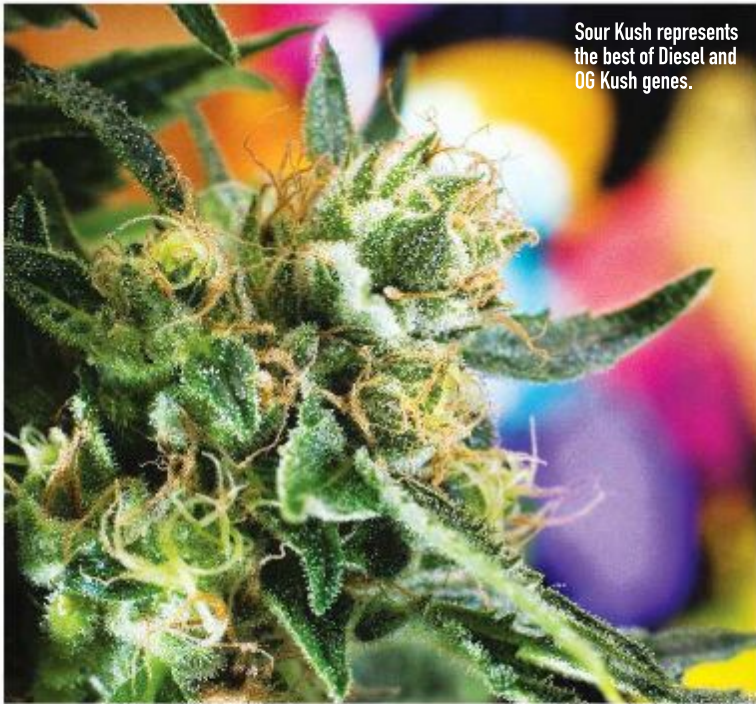
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Outdoor Mix \$50  
Indoor / Outdoor Mix \$50

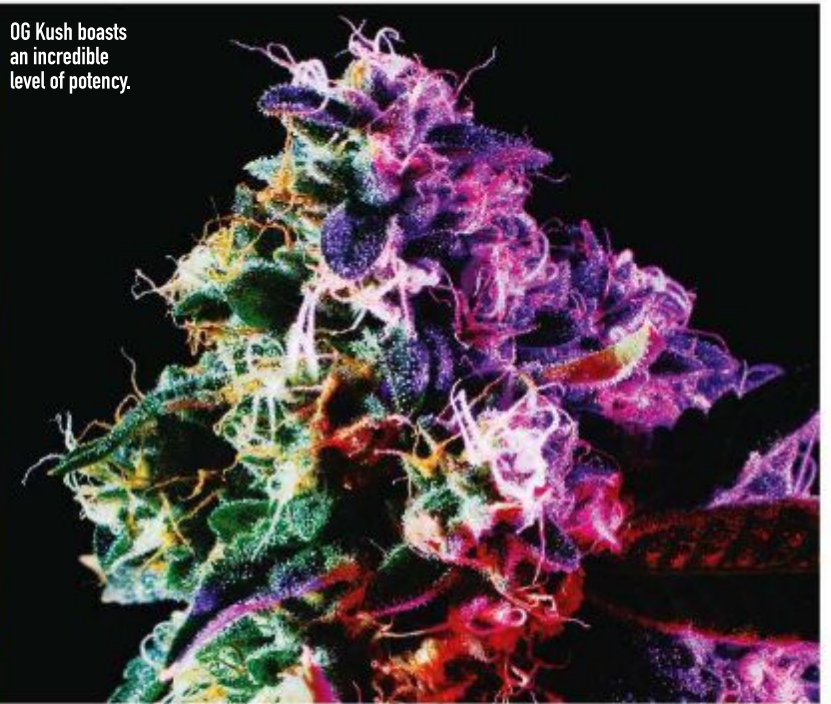
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Sour Kush represents the best of Diesel and OG Kush genes.



OG Kush boasts an incredible level of potency.

## **SOUR KUSH** (a.k.a. Headband)

**DNA GENETICS**

**3rd Place HIGH TIMES Cannabis Cup 2009**

East Coast residents familiar with the strain known as “Headband” will be quite excited to know that the “breeding bros” of DNA Genetics have released a superb version of this famous Diesel and Kush cross. Their Headband won third place at the 2009 HIGH TIMES Cannabis Cup for the Green Place Coffeeshop under the name “Headband Kush,” earning it the first of what will undoubtedly be many more awards.

Don tells me that they reversed the OG Kush to pollinate the Sour Diesel, and he assures growers that they’ll find a great mother plant out of a pack of 10 beans. Luckily, cloning this strain is easy too, with roots popping out within eight to 10 days of cutting. Headband possesses the familiar diesel-fuel smell and sour lemon taste and starts producing resin glands early and often, exemplifying the best qualities of its elite parentage.

*Lineage: Sour Diesel x OG Kush*

*Flowering time: 9 weeks*

*Contact: DNA Genetics, dnagenetics.com*

*When S.A.G.E. meets OG Kush, flavor and power ensue.*

## **KUSHAGE**

**T.H.SEEDS**

**3rd Place HIGH TIMES Cannabis Cup *Sativa*, 2005**

Another sinsemilla stalwart from the T.H.Seeds collection, the Kushage has an epic high—one that hits almost instantly and has both staying power and that familiar Kush headiness. Even beginners will find her easy to grow and work with, resisting many of the common pests and pitfalls that plague first-time farmers. Kushage plants will stretch a bit but fill out nicely, with spicy, piney branches topped with lime-green colas surrounded by dark, waxy leaves.

Adam of T.H.Seeds describes his Kushage for me thusly: “The sandalwood flavor of our S.A.G.E. and the crystal-clear high add an extra boost to the almost addictive buzz of the OG Kush, making this a great plant for the Kush-crazy West Coast of the USA and the Haze lovers of Holland ... truly the best of both worlds!” And he’s made it available in feminized form for the first time as well.

*Lineage: S.A.G.E. x OG Kush*

*Flowering time: 9 to 10 weeks*

*Contact: T.H.Seeds, thseeds.com*



## **OG KUSH**

**RESERVA PRIVADA**

**HIGH TIMES Top 10 Strain, 2005**

This strain has gained an almost mythical status as the foundation of West Coast genetics. Hippie folklore marks the arrival of superior Afghan seeds from the Hindu Kush region into the hands of California’s growers as the beginning of a marked transformation in the quality of homegrown marijuana. This sea change in domestic cannabis cultivation reveals itself even today in the predominance of Kush traits found among many of the world’s most popular pot varieties. Kush offspring include a number of HIGH TIMES Cannabis Cup winners and HT Strains of the Year, including the MK-Ultra and Sour Diesel. Plus, OG Kush offshoots such as the Bubba Kush and Purple Kush show wonderful promise as future prizewinners.

The DNA Genetics boys started Reserva Privada as a seed bank for some of their favorite strains being bred out by their buddies in Cali, and they now have feminized OG Kush seeds available for growers. The yields aren’t huge, but these dense little nuggets pack a legendary punch.

*Lineage: OG Kush clone*

*Indoor flowering time: 8 to 9 weeks*

*Contact: Reserva Privada, dnagenetics.com*

## **Kaia KUSH**

**APOTHECARY GENETICS**

**1st Place HIGH TIMES Cannabis Cup *Sativa*, 2007**

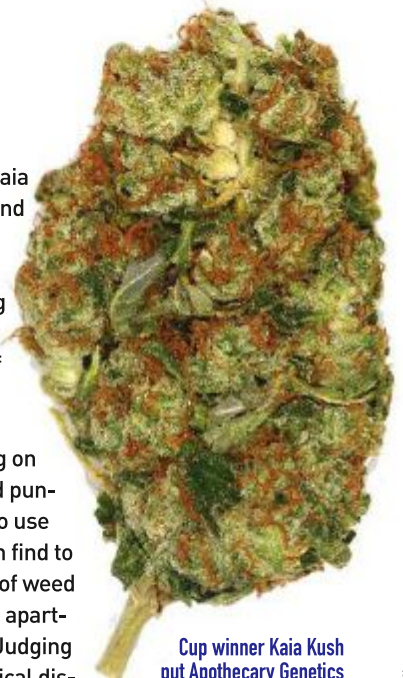
Apothecary breeder Bret, who created the Kaia Kush, named this strain after his daughter and promptly snagged an elusive HIGH TIMES Cannabis Cup with it in 2007. Earthy and spicy—and very reminiscent of the Chemdog line of genes—this *sativa*-dominant hybrid has all the lemony-fuel taste and tartness of its predecessors, but with a relatively short flowering time for a strain of such note.

The Kaia Kush is a heavy yielder, packing on weight late into flowering. The abundant and pungent odor can be overpowering, so be sure to use charcoal filtration and whatever else you can find to control the rampant smells. This is the type of weed that can narc you out if you’re not careful, so apartment growers especially should take heed. Judging from the reception for this one at many medical dispensaries in California, I’m expecting big things from Apothecary in the future.

*Lineage: OG Kush x Super Silver Haze*

*Flowering time: 9 to 10 weeks*

*Contact: Apothecary Genetics, apothecarygenetics.com*



Cup winner Kaia Kush put Apothecary Genetics on the map.



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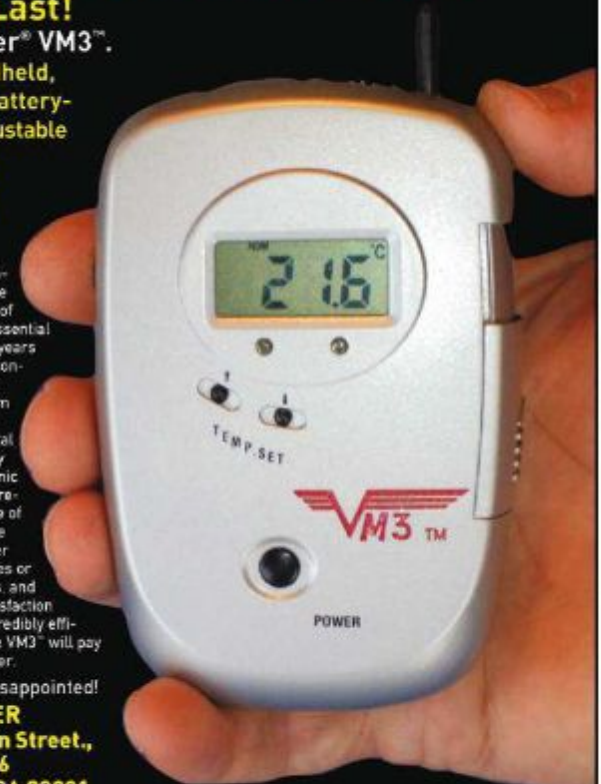
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Purple Kush transforms into awesome colors as it matures.

## PURPLE KUSH

**CLONE ONLY**

**HIGH TIMES Top 10 Strain, 2006**

California has gone “purple crazy,” with hundreds of different varieties available in various shades from violet to deep blue. Combining the sweet flavor of the Purps with the lemony power of OG Kush, Purple Kush is a strain that exemplifies the best of both worlds. Strong bag appeal plus increased potency make the PK a perfect hybrid for growers interested in a product that sells itself.

Its short, squat stature and heavy harvests don't hurt either. This clone-only, almost pure *indica* strain has its origins in the Pacific Northwest, but has become increasingly popular and available elsewhere as the rest of the country (and the world) quickly catches up to the aesthetically and spiritually pleasing qualities of these grape-flavored, violet-colored nuggets. Medical patients in particular will appreciate the Purple Kush's deep body stone, which is helpful in treating chronic pain and depression.

*Lineage: Hindu Kush x Purple Afghani*

*Flowering Time: 8 to 9 weeks*

*Contact: Clone only*

## TAHOE OG KUSH

**THE CALI CONNECTION**

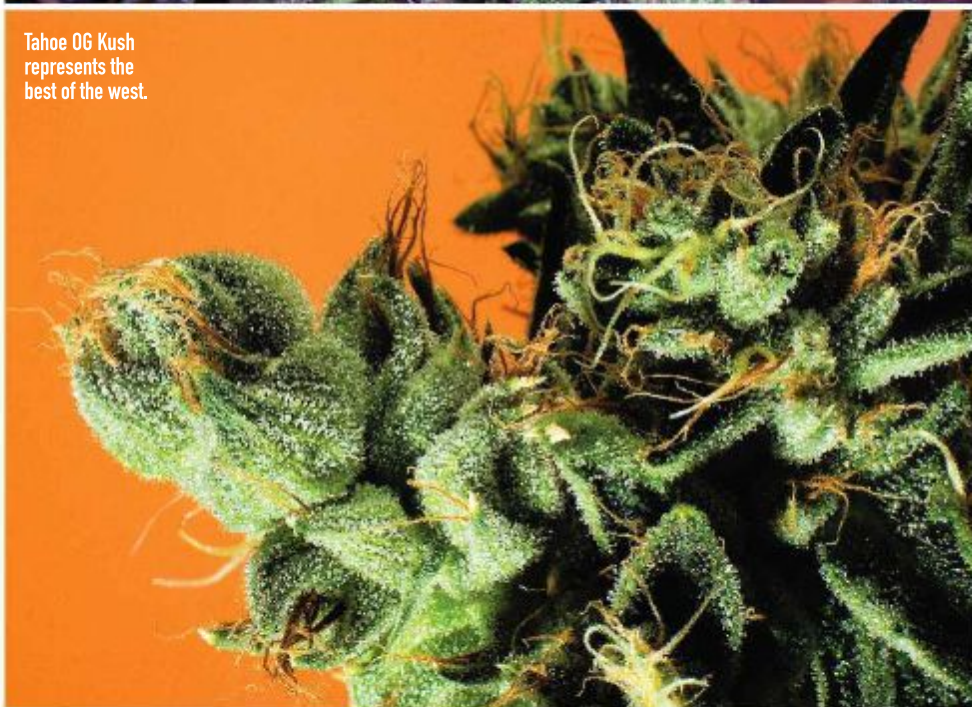
From eastern Cali comes one of the strongest cannabis varieties of all time, the Tahoe OG Kush—often imitated but never perfected as it has been by breeder Swerve from the Cali Connection, a breeding outfit that has earned much respect for its Kush-heavy stable of strains in seed form. Swerve pollinated the original and legendary Tahoe clone with his San Fernando Valley OG F3 male, and the result adds fuel to the fire for sure.

The Tahoe OG grown from Swerve's seeds produces thick nuggets completely covered in glistening, glandular trichomes, but without the typical hermaphroditic tendencies of many closet-breeding pollen-chuckers' watered-down versions. Medical patients will appreciate the calming properties of the Tahoe OG Kush, which relieves insomnia as well as bodily pains and stress.

*Lineage: San Fernando Valley OG Kush F3 x Tahoe Kush clone*

*Flowering time: 9 to 10 weeks*

*Contact: The Cali Connection, thecaliconnection.com*



Tahoe OG Kush represents the best of the west.

## LARRY OG KUSH

**THE CALI CONNECTION**

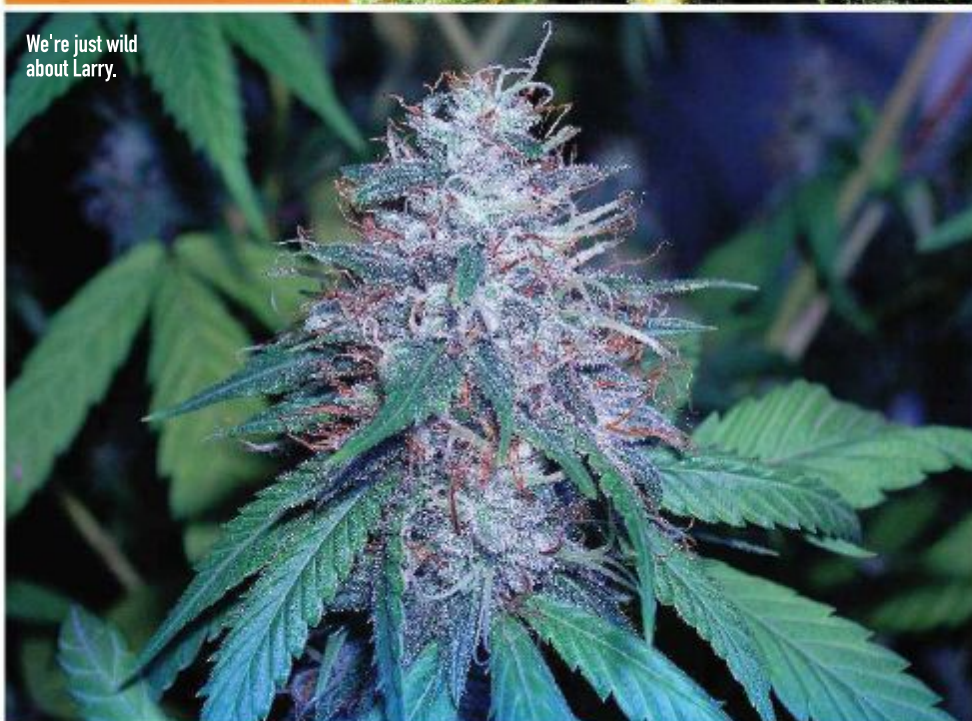
The famed Larry OG cut made the rounds in Southern Cali for years and is an all-time favorite of Kush lovers everywhere. The archetypal “lemon-fuel/Pine-Sol funk” (as breeder Swerve perfectly describes it) is the tip-off that you're dealing with a real-deal OG cross.

Grown from seed, Larry does some pretty serious stretching after flowering is induced, but makes up for it with good yields of super-potent and odiferous pot. Typically producing almond- or teardrop-shaped calyxes with bright orange hairs, this strain grows super-frosty, with crystals out to the ends of the fan leaves (which turn dark purple as the plants near maturity). The thin, stretched-out branches may need to be staked for support, and mites love the Larry OG Kush as well—so stay vigilant and keep checking the undersides of leaves for damage to catch them early if they happen to attack.

*Lineage: San Fernando Valley OG Kush (F3) x Larry Kush clone*

*Flowering time: 9 to 10 weeks*

*Contact: The Cali Connection, thecaliconnection.com* ✨



We're just wild about Larry.

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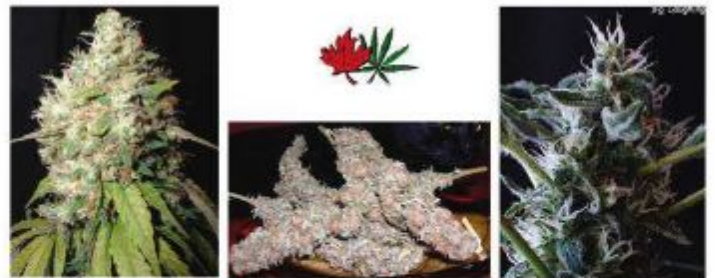
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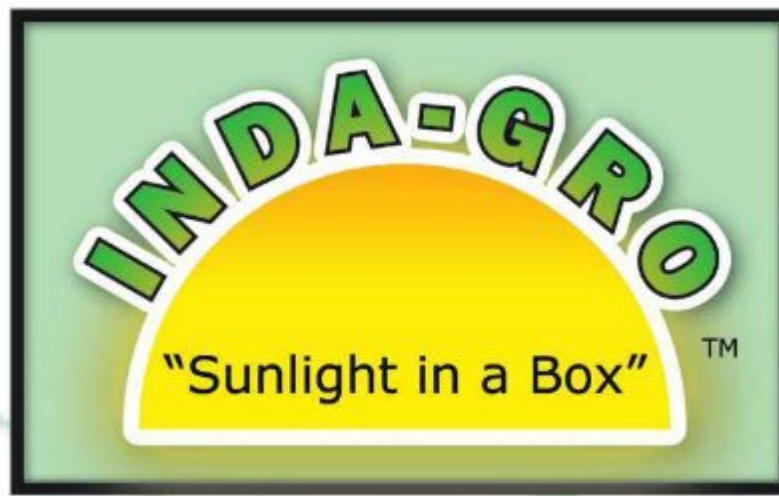
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# THE ART OF ROCK

BY BOBBY BLACK

Few things in life are as enriching to the human spirit as the exhilaration of experiencing live music, and there's no better way to advertise and commemorate an awesome tour or gig than with a limited-edition, signed-and-numbered concert poster. Utilizing a variety of techniques (sketch, paint, airbrush, clip art, photographs) and the inexpensive printing method known as silkscreen, this classic underground-art phenomenon combines form, flair and function to not only give you the 411 on an event, but make it look so killer that you can't wait to get your ticket.

The rock poster was born alongside rock 'n' roll itself, amidst the countercultural revolution of Haight-Ashbury in the mid- to late '60s. Artists like Victor Moscoso, Stanley Mouse, Wes Wilson and Alton Kelley began creating mind-blowing promotional posters for the emerging explosion of political and psychedelic bands performing at new hippie clubs like San Francisco's famous Fillmore Auditorium. Hence, that golden age of poster art is widely known as the "Fillmore Era."

Around the same time down in Austin, TX, comic artists like Gilbert Shelton, Kerry Awn and Jim Franklin were doing similarly impressive work for clubs like the Armadillo World Headquarters (which actually took its name from Franklin's art). Later, during the mid-1980s, Austin became the epicenter of a poster-art renaissance when a new generation of artists redefined the genre and ushered in a silver age. Taking their cues from punk rather than hippie culture, guys like Nels "Jagmo" Jacobson and Frank Kozik (see page 34) replaced the psychedelic sensibility of the past with a grittier, edgier graphic style more in tune with the angst of the times.

In the '90s, prominent poster artists and enthusiasts around the globe began coming together as never before, developing a devoted community of websites and organizations. The Rock Poster Society is one such organization; founded in 1998, TRPS (affectionately known as "Trips") is an Oakland-based, nonprofit volunteer group of collectors, artists and dealers devoted to the preservation and celebration of the art. Then there's Gig-Posters.com—the world's largest online concert poster archive, where artists and visitors alike can browse, buy and comment on the artwork. It was in a forum on this site in 2002 that Kozik first posted his idea of putting together a convention where the world's top artists could meet, mingle and sell their wares to each other and their fans. That September, the first-ever Flatstock expo was held at Cellspace in San Francisco. It featured about 40 artists, and was so successful that Kozik decided to create a new nonprofit organization to back it up. Two months later, he and Jacobson founded the American Poster Institute.

"Frank asked me to be VP," says API vice-president Geoff Peveto, "and shortly after that, I approached SXSW to do the second Flatstock there." That was in March 2003, and it's been a staple attraction at the music festival ever since. "Now we have close to 400 members, and we host four Flatstocks and other, smaller events throughout the year ... everything from gallery shows to university exhibits to Bonnaroo." Of the four Flatstock festivals held each year—in Austin at SXSW (March), Chicago (July), Seattle (Labor Day weekend) and Hamburg, Germany (September)—Austin's is the largest, featuring anywhere from 80 to 100 artists.

Today, a new generation of poster artists is carrying the proverbial torch, adding their own techniques and tastes to the tradition. And since marijuana has always been a part of rock mythology, it's only natural that many posters employ weed- and other drug-related imagery. We've handpicked the stoniest art we could find from some of the hottest contemporary artists to showcase here. We hope they spark as many imaginations as they do joints.

To see and learn more, visit [gigposters.com](http://gigposters.com), [americanposterinstitute.com](http://americanposterinstitute.com) and [trps.org](http://trps.org), or check out the documentary film *American Artifact* (2009).

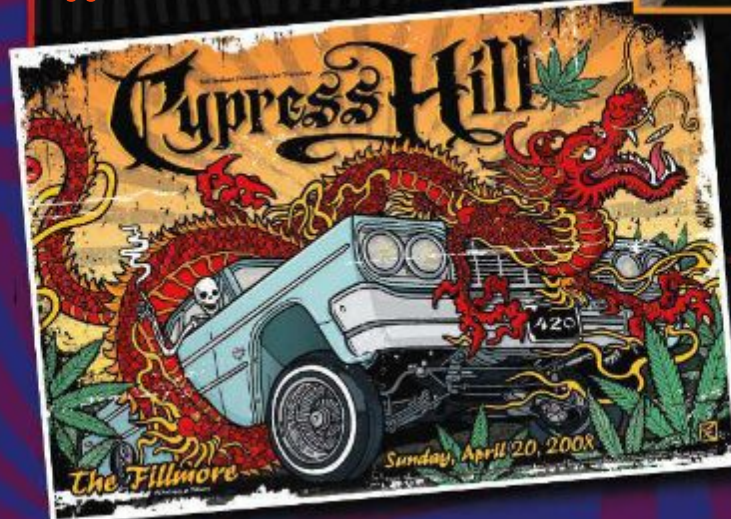


## JARED CONNOR

**LOCATION:** Austin, TX  
**INSPIRATION:** The Gulf War, last calls, paying his dues in the live-music clubs of Austin  
**CLIENTS:** Cheech & Chong, High On Fire, Honky, The Mars Volta, Turbonegro, Warner Brothers, Universal, Roadrunner Records, Teepee Records  
[mexicanchocolatedesign.com](http://mexicanchocolatedesign.com)

## GREGG GORDON

**LOCATION:** San Francisco, CA  
**INSPIRATION:** For Cypress Hill's 420 show, I wanted a skeleton cruising, smoking a joint with a 420 license plate. I got the dragon idea from B-Real's tattoo.  
**CLIENTS:** Alice in Chains, Hank III, The Mars Volta, Queens of the Stone Age, Sony Signatures  
[gigart.com](http://gigart.com)





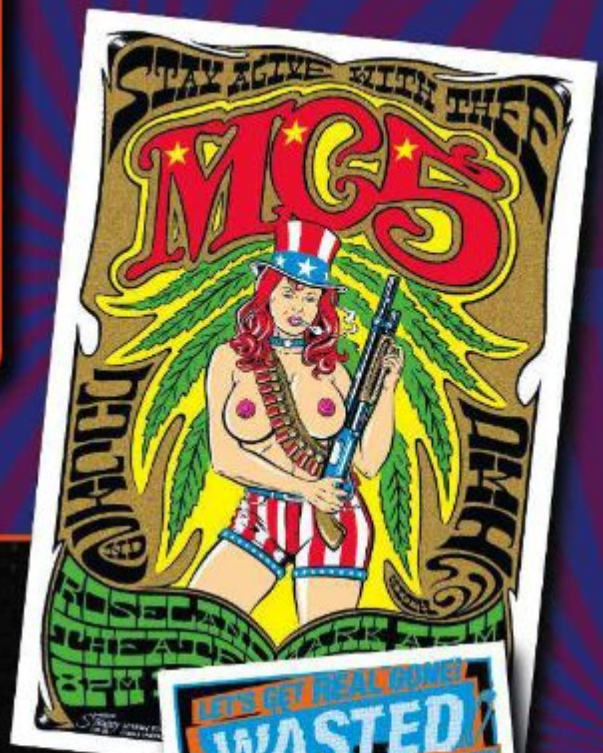
**MIKE MARTIN**

**LOCATION:** Columbus, OH  
**INSPIRATION:** Pop culture, low-brow art, hotrod & custom car culture  
**CLIENTS:** Snoop Dogg, Cypress Hill, Kottonmouth Kings, Slightly Stoopid, Red Hot Chili Peppers, 311, Reebok, Hot Topic, Timberland, Coors Brewing  
[enginehouse13.com](http://enginehouse13.com)



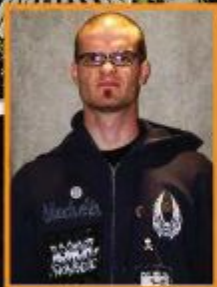
**JOSH BERNSTEIN**

**LOCATION:** New York, NY  
**INSPIRATION:** MAD magazine, pro wrestling, B movies, heavy metal, weed, scotch on the rocks  
**CLIENTS:** Revolver Magazine, Royal Flush Magazine, Guitar World, Maxim, Blender, VH1, Warner Bros., MTV2, Marvel Comics  
[joshbernstein.carbonmade.com](http://joshbernstein.carbonmade.com)



**STAINBOY REINEL**

**LOCATION:** Orlando, FL  
**INSPIRATION:** Pop culture trash, busty femme fatales, muscle cars and classic cinema exploitation  
**CLIENTS:** House of Blues, Live Nation, Fuse TV, Club International magazine, Signatures Network  
[stainboyreinel.com](http://stainboyreinel.com)



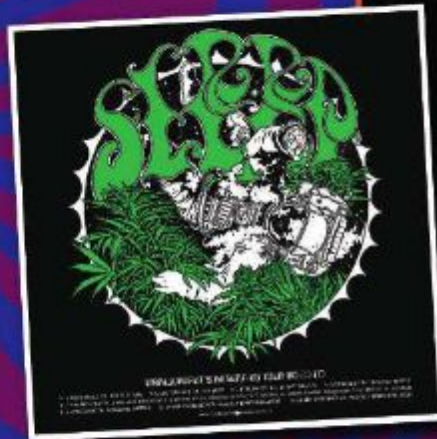
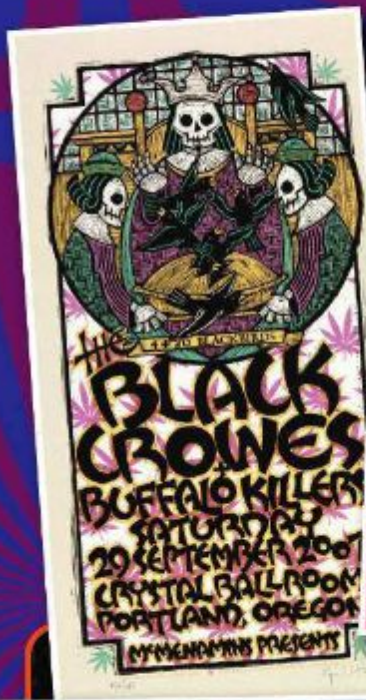
**MARK MCCORMICK**

**LOCATION:** Brooklyn, NY  
**INSPIRATION:** Frank Frazetta, Pushead, Alphonse Mucha, Jim Phillips, Rick Griffin  
**CLIENTS:** Suicidal Tendencies, Yob, Mastodon, Slayer, Black Elk  
[markmccormickart.com](http://markmccormickart.com)

# THE ART OF POSTERS

## DAVID D'ANDREA

**LOCATION:** Portland, OR  
**INSPIRATION:** Victor Moscoso, Roger Dean, Stanley Mouse, cryptozoology, natural psychedelics, the mysteries of mind, space, and time  
**CLIENTS:** Roadburn Festival 2011, Sleep, Om, Pentagram, Wino, Witchcraft, The Jesus Lizard  
[dvdandrea.com](http://dvdandrea.com)



## GARY HOUSTON

**LOCATION:** Portland, OR  
**INSPIRATION:** Scratch board illustrations, ink, hand-cut films  
**CLIENTS:** The Black Crowes, Gov't Mule, Shooter Jennings, Lee Scratch Perry, Bad Brains, George Clinton, BB King, Motorhead, Willie Nelson  
[voodoocatbox.com](http://voodoocatbox.com)



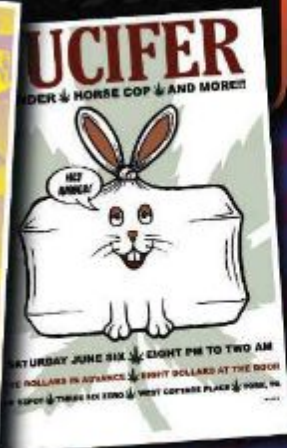
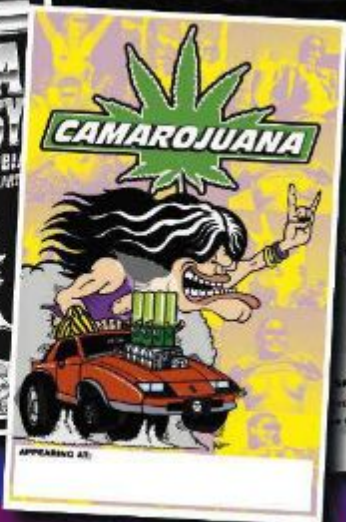
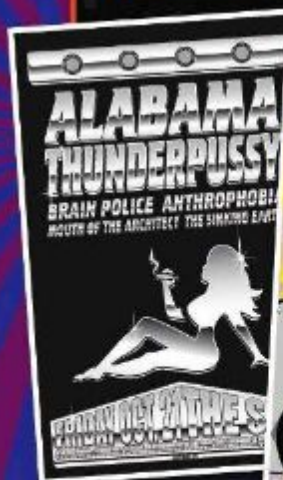
## TEDDY PANCAKE

**LOCATION:** San Diego, CA  
**INSPIRATION:** The San Francisco poster greats of the '60s like Rick Griffin and Lee Conklin, David Singer, Rob Jones, Alan Forbes, Arik Roper and David D'Andrea  
**CLIENTS:** Earthless, Mooney Suzuki, Acid Mothers Guru  
[teddypancake.com](http://teddypancake.com)



## JIM ALTIERI

**LOCATION:** Reading, PA  
**INSPIRATION:** Pop culture, news, trying to make people laugh, Mad magazine, Raymond Pettibon, Frank Kozik  
**CLIENTS:** Jello Biafra, DRP Records, Electric Factory concerts, The Trocadero, Frank Phobia productions  
[gigposters.com/designer/537\\_Jim\\_Altieri](http://gigposters.com/designer/537_Jim_Altieri)



## BRIAN MERCER

**LOCATION:** Philadelphia, PA  
**INSPIRATION:** Drugs, booze, stoners, strippers, skateboarding, gangsters, metalheads, punks  
**CLIENTS:** Witch, Clutch, Superjoint Ritual, Down, High On Fire, Weedeater, Pentagram, Lamb of God, Small Stone Records, Eyehategod  
[mercerrock.com](http://mercerrock.com)



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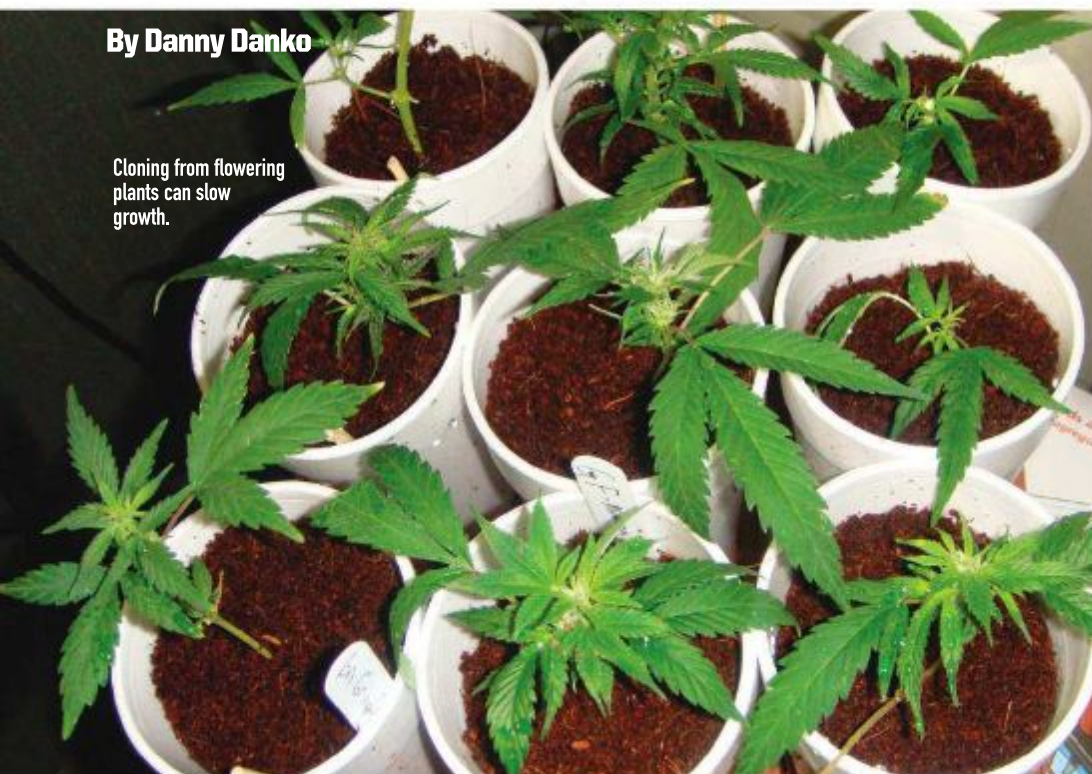
Cut clones with a clean and sharp razor for continued success with rooting.

Many growers remain mystified by cloning and find it difficult to master the art of propagating many plants from one mother. Danny Danko explains the key factors that allow any marijuana farmer to root cuttings over and over with ease.

## CLONING MADE EASY

By Danny Danko

Cloning from flowering plants can slow growth.



### What Is Cloning, and Why Should I Bother?

Taking clones—the process of cutting off a growing branch from a mother plant and forcing roots to grow from the cut end, thereby multiplying one into many—isn't a technique invented by pot farmers. Since the beginning of agriculture, people have looked for alternate ways to propagate plants without using seeds. Every florist, farm-stand proprietor and garden-store owner knows the "secret" and profits mightily from the public's general lack of understanding of what's actually quite a simple process.

Replicating many copies of one plant provides real benefits over growing a garden from seeds. Because most seedlings will vary in size and growth rates, with different phenotypes behaving in various ways, seed gardens tend to be uneven, with light levels optimum for some plants but less so for others. Rooted clones, on the other hand, provide a level canopy, with every plant performing alike and benefiting from all the available light. Also, growing from seeds wastes valuable germination time, resulting in fewer total harvests per year.

From a quality-control perspective, a great mother plant can be the gift that keeps on giving. Known females with guaranteed elite genetics continue producing clone after clone of strong and tasty plants for many years. The only drawback to cloning is that all of the cuttings will share the same susceptibilities to fungus or disease, so always remain vigilant and start new moms if you have any problems. Purchasing rooted clones from a dispensary can sometimes cause more problems than it solves, so make sure the clones are pest- and fungus-free if you decide to go that route.

MOSCA, HT ARCHIVE (2), ANDRE GROSSMANN, ERIC SCHONER

Cloning units use a fine mist of mild nutrient solution to induce roots from the cut ends of clones.

like this.

### On Mother Plants

In order to benefit from the cloning process, you first must have access to a mother plant. The best way to get one is to grow her yourself, and the key is to never actually flower her out. For this, you need to germinate your pedigree seeds and grow them a few weeks in the vegetative stage, giving them at least 18 hours of light per day. Once they've produced several leaves and nodes, you take clones of the tops, root them, and flower them out with 12 hours of light per day to determine the sex and strength of the corresponding plant left behind in the vegging stage. Keep the strongest female or females in their vegetative stage and take all your subsequent clones from them. Now you have a mother plant.

Keeping the mother plant alive for multiple cloning sessions requires a bit of planning. Larger containers are necessary for the root systems. Also, mother plants shouldn't enter the flowering stage until they've given you all the cuttings you require. Keep mother plants under 18 to 20 hours of light at all times in order to prevent them from flowering (and having to revert them back to the vegetative stage once they do). Feedings should be mild and appropriate for vegging plants, meaning high nitrogen (N) levels with less phosphorous (P) and potassium (K). Diluted formulations of liquid seaweed, liquid fish and seabird guano are wonderful organic nutrients for mother plants.



This mother plant can provide up to 20 cuttings.

Never crowd cuttings together as they will need plenty of space to grow.

## How to Clone

Choosing a medium to root your cuttings is the first step. Many different products exist, from rockwool to peat pellets to coco coir (see sidebar below). Hydroponic growers sometimes make their clones in thin air, using a mist to induce rooting at the cut end hanging down into a reservoir. As long as the medium stays moist, warm and airy, pretty much any one will do.

Because cannabis cuttings root best in warm conditions with high hu-

midity, the cheap trays with clear plastic domes work remarkably well. In cool conditions, a heat mat should be placed underneath the trays to maintain optimum temperature and humidity (75°F and 80% relative humidity is about right). No matter where and in what medium you plan to root your clones, keep warmth and high humidity on your priority list: Clones allowed to get cold or dry will perish quite quickly. But too much humidity can also cause mold and rot, so cut a hole or two in your clear

plastic dome to allow some air movement and circulation.

Choose a growing shoot with at least three sets of leaves and make the cut just below a node (the place where the leaves meet the stem). Make the cut with a sharp, non-serrated blade, and do so at about a 45° angle to ensure plenty of rooting area. Trim off the closest set of leaves to your cut so that you can get the stem into your medium.

Immediately immerse the cut end in a rooting hormone and then firmly (but gently) push the cut end into your pre-moistened rooting medium. Some people like to rough up the bottom inch or so of the stem (but gently) with the knife to create more roots, but it's not absolutely necessary. Within eight to 14 days, you should see white roots poking out of the bottom of your chosen medium. You are now ready to transplant the rooted clones into bigger containers for their vegetative stage of growth. Congrats! ✨



Once cuttings have rooted they are transplanted and begin their vegetative stage.

## CLONING IN COCO

by Mosca



Prepare your tools before you begin.

**Hola and bienvenido** to Mosca Seeds' Fly Cloning 101! You've taken the first step to simplify your life with an easy process of cloning your favorite plants using coco for the grow medium. I will begin by saying this method is like many others that use a substrate, but in our case we're using Super Growing Coco Pellets. These are approximately 1 inch round and have special absorbing crystals for water retention. The rooting tray, a self-watering system with a capillary mat, is a standard 10" x 20" nursery tray and can hold



Coco pellets will expand greatly once soaked.

approximately 1 gallon of water—which should be sufficient moisture for your clones for two to four days, depending on your heat settings. I've found that a small fan, a heat mat with a control unit, and a fluorescent light are all that is needed to get cloning.

Generally, it takes 10 to 14 days to see roots pop through the bottom. Your rooting solution can be powder, liquid, gel, etc.—it doesn't really matter. I have used many different formulas over the years, and they all work



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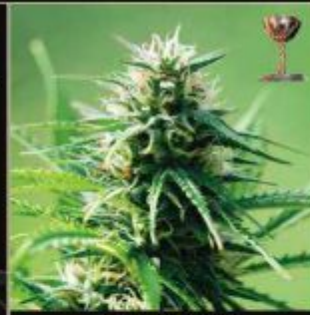
**Amnesia Lemon**

♀ 5 €37 10 €66



**G13 Haze**

♀ 10 €57 | ♀ 5 €49 10 €88



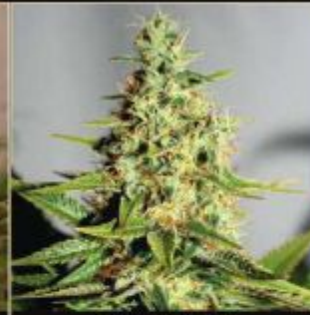
**Sweet Tooth**

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**Red Cherry Berry**

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**Acapulco Gold**

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**Red Diesel**

♀ 5 €39 10 €70



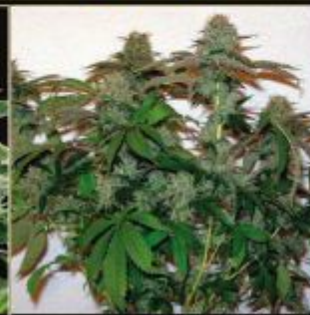
**Honey B**

♀ 10 €46 | ♀ 5 €29 10 €52



**Phatt Fruity**

♀ 5 €27 10 €48



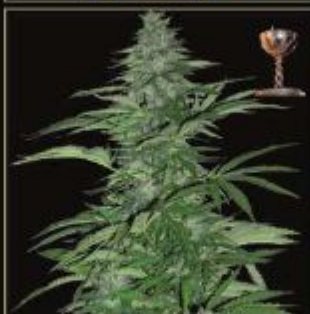
**8 Ball Kush**

♀ 5 €27 10 €49



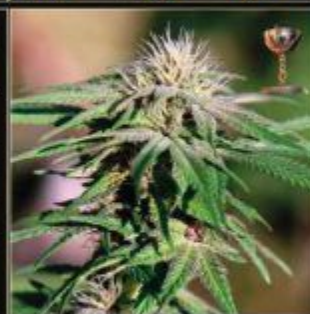
**Red Dragon**

♀ 5 €42 10 €75



**Morning Glory**

♀ 10 €41 | ♀ 5 €38 10 €68



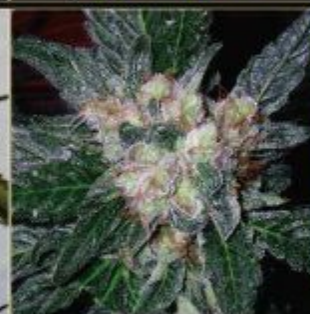
**Night Shade**

♀ 5 €37 10 €66



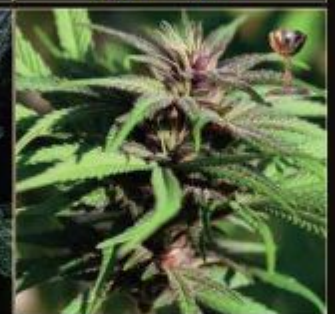
**Top Dawg**

♀ 5 €24 10 €43



**Violator Kush**

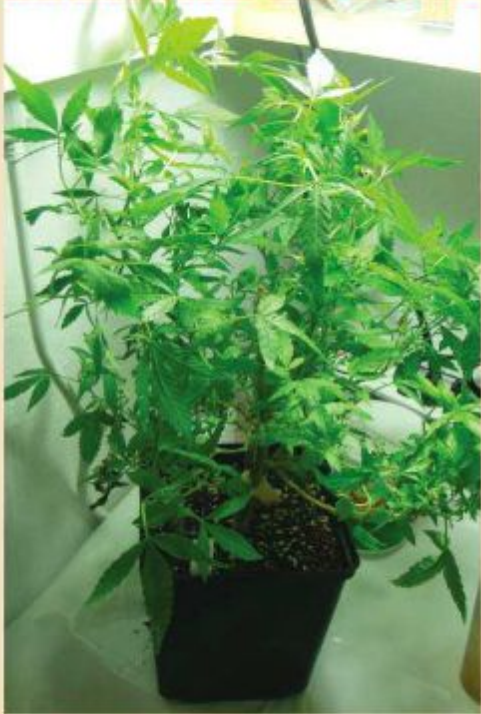
♀ 10 €52 | ♀ 5 €45 10 €81



**Crimea Blue**

♀ 5 €25 10 €45

# CLONING IN COCO



Make sure your mother plant has enough growth for the amount of cuttings you need.



Cut below the node and trim off the lowest shoots at the stem.



Dip the cut end in a rooting gel or powder.



Gently but firmly stick the cut end into your moistened coco mix.



Within 10 days or so, you should see roots protruding from the bottom.



This clone is ready to transplant into a larger container.

The only rooting additive we add to the water is House & Garden Roots Excelurator. Pre-mix the water solution with 5 milliliters of Roots Excelurator per gallon of H<sub>2</sub>O. This is slightly more than recommended by the manufacturer, but it works superbly for us.

We don't use a humidity dome and generally don't spray the clones with anything—don't need to; the coco and reservoir system provide all the moisture the clones need. Temps in the cloning room are about 70°F to 74°F (or 21°C to 23°C). The heat mat is kept at 82°F (or 27.8°C). This creates a warm-water solution that aids in speeding up the rooting process.

We take standard nine-cell seedling trays and cut out a circle or square to help with moisture absorption for the coco medium. You can extend the life of your growing system for many rooting sessions by being sure to rinse off your capillary mat after every use.

You can expect to refill the water reservoir every two to four days—and sometimes more when the clones are sucking up moisture to fuel their growth. Of course, this will depend on the number of clones you've taken and put on each self-watering grow system. We don't recommend soaking the coco pellets in nutrient solution—the cuttings don't need it! With the thousands of cuttings we've taken on the Fly Ranch over the years, all of the cuttings have done fine without any nutrients. We do, however, recommend using the House & Garden Roots Excelurator in your water solution as a pre-soak—and that's it. Don't introduce nutrients (half-strength) until the clones are transplanted and have the necessary root system strong enough to absorb them properly.

Aren't you psyched about Fly Cloning now? It's as easy as 1-2-3. ✨



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# INDOOR VEGANIC

**Our longtime cultivation reporter extraordinaire returns from NorCal with a growing method that goes far beyond organics for the best-tasting and cleanest-burning cannabis possible.**

**By Kyle Kushman & Penned by Ava Rize  
Photos by Freebie**



Fresh branches of veganic buds hang drying for days prior to their final trim.

## WHAT IS 'VEGANICS'?

Veganics represents the newest, most important method for indoor horticulturists to master, enabling growers to produce greener, healthier plants and potentially leading to bigger harvests. Healthier plants produce more flavor and potency while also shortening growing cycles. It really simplifies the amount of ingredients you use and the amount of metering you do. It's a living system, relying on a living root-soil food web.


We're going beyond organic medicinal marijuana here. Surpassing organic certifications, there are additional strict qualifications for Veganics. There's no set of government regulations, rules or laws: It simply uses no animal products. There are no mineral salts or left-over residues from the organics. Not only is it cleaner and safer, it's actually easier than organic farming. On top of that, there's nothing that can hurt humans or animals. Veganics is 100% nontoxic!

## GETTING STARTED

For all indoor container farming, it's important that everything you put in gets used, without residues and buildup. Plant-based nutrients are the only sure way to accomplish this. I've always used plant extracts such as seaweed, but now I'm using plant extracts to derive *all* plant nutrition. Some of these extracts, like Canna's ultra-expensive Bio-Boost, don't have nutritive value; instead, they affect the plant's metabolism on a cellular level. By feeding veganic nutrients, you're supercharging the plant to grow extraordinarily similarly to nature's intentions.

When growing indoors using Veganics, leaves stay green all the way to the end because the soil is pure and clean. After the plant metabolizes veganic plant-based nutrition, the only residuals in the soil are complex carbohydrates. By providing complex carbs to the plant, you're allowing the plant to skip over that step in the line of production and concentrate on other processes, such as manufacturing plant cells and structure. Additionally, these carbohydrates feed beneficial bacteria and fungi.

Large, healthy colonies of beneficial bacteria and fungi are essential to Veganics and to the living root-soil food web. We add them in solid, granular and brewed form to fortify and immunize the growing medium and plants. The colonies take unusable, locked out or locked up components and substantially improve bioavailability, leaving you with a pest-free, toxin-free and contaminant-free media. Constantly reintroducing beneficial microbes gives plants unsurpassed pathogen suppression.



Trichomes coat every surface of this Cherry Lopez flower cluster seen up close.

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## BIO-FILM

In addition to treating soil with beneficial microbes, a bio-film is essential, since it becomes the plant's second immune system. Applying a bio-film is simple: just spray a brewed microbe tea and coat the plant's entire surface. You've created a bio-film shield of beneficial microbes on the exterior of the plant, thus producing a pathogen-suppression system above the soil. It doesn't work well with insects such as spider mites; microbes aren't fierce enough to attack a pest, but they will recognize other threats, such as a mold spore. Before the spore can mutate and grow, the microbes on the plant's exterior will kill it. The mold never gets the chance to multiply and compete with the plant for space to grow.

Enzymes work much like microbes, except they're not alive. Microbial activity is long lasting, whereas enzymatic activity is short-lived. For this reason, I suggest using two products to supercharge enzymatic action. With enzymes, only so many species can co-exist in a bottle, so two products provide a wider array of enzymes. They all perform similar functions, but have different specialties. I suggest Hygrozyme for its extremely long shelf life; the second should be one of the darker formulations like Cannazyme, Prozyme or Sensizyme.

Apply enzymes at every watering throughout the entire life cycle of the plant. Plan to apply the highest enzymatic levels to match peak nutrient usage. Adding enzymes all the way to the end will make sure that everything is available for use by the plant. When you discontinue feeding and initiate flushing, enzymes make sure residual molecules of food get into the plants. Also, enzymes make sure roots stay fresh and clean so the plant can continue to respire without necrosis, even though it's nearing the end of its life cycle. After harvest, you'll still have healthy white roots rather than brown mush at the bottom of your container. Continually adding soluble and granular beneficial microbes and fungi to the soil, along with a bio-film to the exposed plant, creates a high-volume living colony with a supercharged immune system.

## NUTRIENT AVAILABILITY

How available are the nutrients in your soil? Veganics blows away every other cultivation practice when we look at how conducive the soil is to microbial and fungal growth. The proper term for nutrient availability is *bioavailability* in both organics and Veganics. On a molecular level, bioavailability refers to the extent that chemicals within the nutrients are available to plants.

When growing with veganic nutrients in a veganic-based soil, large colonies of beneficial microbes ensure that every centimeter of root is in contact with the living root-soil food web. This stimulates root hairs, which become laterals (roots), creating a prolific root system. Nutrients are never locked up, locked out or unavailable; every molecule is utilized and metabolized by the plant. Consumers have been led to believe that chemicals are dependable and work better, but that's a false sales premise. The closer you can get to nature, the closer you get to optimal conditions and the best product possible.

CHERRY LOPEZ









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Kyle Kushman harvests a whole plant that demonstrates strong branching achieved by supercropping.



## GUANO-NO?

Once you introduce animal products to a closed system, you're inevitably going to have problems when decomposition leads to residue and possibly harmful microbes in your rhizosphere (root zone). Veganics uses only plant-based nutrients that leave no residue behind, unlike guano.

Outdoors, where plant roots aren't constrained by the walls of a bucket, organics can be used without residue accumulation. When growing indoors, however, you don't want manures or guanos where people or pets can track harmful organisms and bacteria around the rest of the house. There are many concerns, salmonella and E. coli being the two most dangerous possibilities. Pesticide residues left over from what animals are fed, other residuals, heavy metals and numerous contaminants are other traditional concerns for organic indoor cannabis cultivators.

## PROPER PLANT PRODUCTS

I spend time scouring the market for worthwhile new products. There is no actual "Veganics" certification, but I'm primarily using products that advertise they're veganic. I currently supplement with about 2% animal-derived phosphorous, but it's been highly refined to the point of being clear and odorless; all of the animal contaminants have had the microbial life removed, and it's extremely clean.

Using veganic products keeps the rhizosphere sweet and free of anything the plants don't need. Adding anything else will have a negative effect on the rate of photosynthesis, and plant metabolism will be slowed. Guanos are not fully decomposed, so they're not 100% bioavailable to the plants, which lowers growth and production-efficiency rates.

Additionally, Veganics isn't dependent on what animals might have eaten. When nutrition is derived from plants, the plants have been growing in a similar manner for millennia and have evolved to use the least amount of energy needed to maximize metabolic rates and photosynthesis.

## A NEW WAY TO GROW

Veganics solves the problem of the residues left behind by the use of mineral-salt-derived nutrients, guanos and manure. Until now, there have been only two ways to feed your plants: chemically or organically. Chemically means you're using mined mineral salts to get potassium and phosphorus—and, generally, nitrogen in the form of urea. In container farming, where the roots are limited, there are several detriments to using both mineral salts and guanos.

For one thing, chemical fertilizers have harmful contaminants and leave residues. After mineral salts provide their nutrients, there's salt left behind. High sodium content can literally stop growth, but before that, it slows growth down. Salt is not a nutrient to plants—it's a leftover after the nutrients have been metabolized. Salt is poison to any plant at elevated levels, especially when it's limited to a container. The plant still might live and grow, but it's not going to be functioning as well. That's why you hear a lot about flushing. Veganic nutrition, on the other hand, is residue-free and uses enzymes to convert dead roots into useful nutrients instead of leaving them to rot in the bucket.

## WHY VEGANIC?

Sometimes, chemicals do make it easier to ensure crop consistency—and, I'll admit, you don't have to pay attention to your crop as much. But you are what you eat, and you are what you smoke. If the cells of the plant have been constructed with chemical fertilizers, then that's what you're smoking—chemicals. I've used a lot of chemical fertilizers in the past, trying every new product as it came out on the market. The reason people buy them is because they work really well. However, my experience has taught me that plant growth can easily be stifled, muted or made impure with chemicals.

Chemical fertilizers are already refined and available to your plants. That's why they're so quickly assimilated: You put them in and—*boom!*—there they are. But the plants are ingesting contaminants in the fertilizers and then have to compete with fertilizer residues left behind in the soil. Chemical fertilizers, no matter how well they're manufactured, will have fillers and harmful residues that leave residuals even after flushing!

Microbes and compost will eventually break chemicals down to their core elements so they can become nutrients. But in a closed indoor system, there's no time for the chemicals to break down within the plant's life cycle. It creates a buildup that really can't be flushed out. Growth is stifled and the rate of photosynthesis slows. This makes chemically fertilizing your crop a really poor way to grow medicine.



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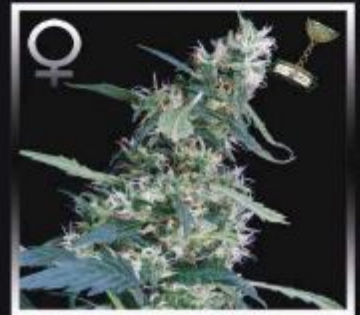
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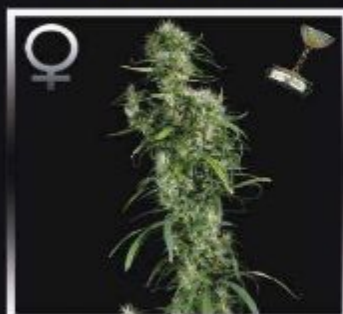
ARJAN'S HAZE #3



ARJAN'S ULTRA HAZE #1



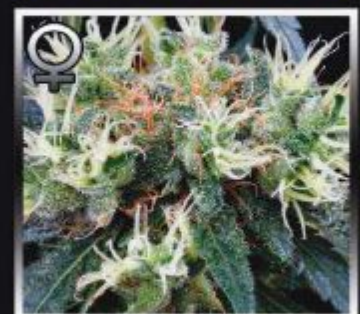
HAWAIIAN SNOW



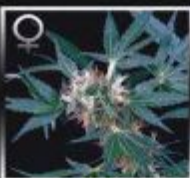
NEVILLE'S HAZE



GREENHOUSE THAI



NL5 HAZE MIST



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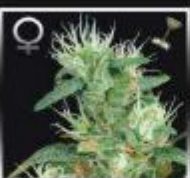
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## WIDE pH RANGE

It takes a lot of mental energy, monitoring and adjustments to perfect pH levels, which have always been a major part of horticulture. You know if your pH levels are perfect, you can get the most out of your plants and the nutrients you put in your soil. Veganic nutrients, because they are very complicated chains of molecules, are widely available over a large pH range, making adjustment of the pH unnecessary.

Optimal pH is where plant metabolism can be brought up to as high a rate as possible. In the absence of mineral-salt-derived nutrients, pH levels are less likely to fluctuate. Cannabis cultivation in soil or soilless mediums requires pH levels to be kept between 6.0 and 6.5 for optimal conditions, although acceptable pH levels range from 5.5 to 7.0. Veganics turns your acceptable pH range into your optimal pH range, broadening the range by 150%. It's the bioavailability over the entire acceptable pH range (5.5 to 7.0) that keeps all the nutrients available to plants.

Natural, plant-derived nutrition is 100% bioavailable over the entire acceptable pH range. There's no buildup, and you don't have to add more nutrients to the soil than you need. Everything you add gets metabolized by the plant, virtually eliminating the need to adjust pH levels in order to achieve optimal growth.

## LIVING WATER

My indoor methods also include supercharging water. Water has a life force—it can be dead or alive. Dead water is still useful to plants, but not optimally. Here are several ways to supercharge your water.

Drawing your water well ahead of time allows the temperature to come closer to an ambient range. This allows plants to maintain optimal photosynthesis rates after watering without shock. Municipal water also contains chlorine, a bactericide—it will impact *all* bacterial life, so it makes no distinction between good and bad. Drawing water a minimum of 24 to 48 hours before use allows time to eliminate the chlorine.

While allowing the water to come to room temp, you should also aerate the reservoir with a basic fish-tank air pump and aeration stone. Aerating agitates the water, helping chlorine to fully dissipate. In addition, the only time you supply major amounts of oxygen to the roots is when watering. As water penetrates the medium, it creates suction. This draws oxygen down into the root zone in a process called percolation. Aerating the water can't be stressed enough—it's a huge step and shouldn't be undervalued.

Filters are also an essential step in water preparation. There's no need for reverse osmosis; a simple two-stage water filter will do. We don't want to use reverse osmosis in soil or soilless mixes because it removes all mineral content in the water. Reverse osmosis is better suited to hydroponic applications. Unless you have super-hard water, it's actually beneficial to leave the low, naturally occurring mineral content in the tap water.



Plants fed naturally show vigorous healthy growth.

## PLANT VIGOR

Ultimate plant vigor is displayed by bright colors and fleshy green stems and stalks, rather than purpling or striations of any kind. The plants strive to be green from top to bottom. Leaves raised high to the sky are signs of plants being happy, healthy and strong. Veganic gardens routinely have leaves raised 70 degrees or more. Also, the actual size of the leaves, stems and branches is larger. By increasing the metabolic rate of plants, the rate of photosynthesis increases in timely correlation. With increased photosynthesis, cells are dividing more rapidly.

The plants transition through every stage of growth faster and easier due to fewer impurities being added throughout the life cycle. There are early, middle and late phases in each part of the growth cycle, during which the plant is trying to ramp up (or tamp down) certain hormones. These hormones tell the plant whether it's going to grow leaves or branches, or if it's about to grow flowers. Later on, these hormones will also tell the plant that it's time to make cannabinoids and produce psychoactive compounds.

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Cannabis colas fed with specially brewed compost tea swell under strong indoor lighting.

## BREW TEA!

Another crucial aspect of Veganics is building a supercharged root-soil food web. Feeding the root-soil food web is an intensive agricultural practice and requires constant attention. To supercharge the web, you have to keep up with adding microbes to the soil and making teas. Brewed teas need to be used within a two- to three-day window; otherwise, they should be discarded.

Plants grow more root structure in the vegetative stage than in the flowering stage, so you really have to start using compost tea early on to take full advantage of the plant's natural potential. In addition to encouraging plants with brewed teas and microbes, you also have to go from complete wet to dry cycles. You want to saturate the medium until you get a little runoff and then not water again until the plant is virtually about to wilt (and feeling lightweight when you pick it up). This forces the plants to search out the remaining water while laying down a more prolific root structure. This greatly augments the plant's ability to utilize energy, helping to create a supercharged root-soil food web. This web produces plants that naturally grow with a higher rate of photosynthesis and a quicker metabolism.

With organics, you can buy raw materials and turn them into teas and liquid nutrients. Veganics requires large volumes of plant matter to be extracted, carefully fermented and concentrated to gain nutritive value in sufficient quantities. Because of this, Veganics doesn't afford the opportunity to make your own nutrients. Right now, there are only a few completely plant-based products on the market. Some veganically labeled products use an array of chemicals, which can be OMRI-listed.



Sticky pest traps reveal signs of insects before a full infestation.

## CANNA BUSS

The basis of indoor veganic nutrition was solidified by the release of the Canna company's BioCanna line of nutrients and soil. It's organic, veganic and minimally processed, and it's the mainstay of Kushman's Indoor Veganics. Still, BioCanna is only one aspect of this system.

Vital to augmenting high-yield situations is the Nature's Nectar product line. Veganic nitrogen is hydrolyzed plant protein, but the phosphorus is derived from bat guano. Though we've talked about the dangers of guano, this product is ultra-refined and pure. It's not your average guano microbe tea; it's a dead liquid that's clear and odorless and has been refined to the point where no bacteria can survive.

Technaflora Plant Products makes two amazing products I've used for 15 years. Thrive Alive is a liquid fortified with B vitamins. Soluble Seaweed is a versatile powder with the highest level of freely available potassium you can purchase. Harvested in British Columbia's pristine, super-cold waters, it's loaded with tons of trace elements and natural auxins and cytokinins. Both are derived from *ascophyllum nodosum*. Together with Nature's Nectar Phosphorous, they'll give you a bountiful bloom boost for mid-flowering.

A micronutrient supplement is also important. Mineral Matrix is one that I really like. It's a veganic, OMRI-listed concoction of all the micro and trace elements you need: sulfur, iron, manganese, molybdenum, zinc, etc. An alternative is Earth Crew's Micro-Boost. General Organics makes a veganic cal-mag supplement, essential in sterilized or pasteurized soils.

A root tonic is also advisable and should be given with every watering from first planting until you stop feeding. These tonics help your roots' ability to continue expanding. They usually come in a silver-bullet-type package because they're very active. (In other words, they'll explode plastic containers.) They're usually also *ascophyllum-nodosum*-based. That's because of the high levels of auxins and cytokinins, which are growth hormones.