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Spannabis: A Cause for



A mega-mall for stoners of all trades. Spannabis 2009 was a big hit.

Early each year, growers, smokers and enthusiasts alike find an organized chaos known as Spannabis in Barcelona, Spain. This year marked the sixth anniversary of the cannabis exposition, one of the largest events of its kind.

This "exposition" is just that: an expo, or trade show, that draws the cannabis industry's elite from around the world.

Gathering in Spain under the auspices of leaner laws, loosened restrictions on free trade and, of course, a brighter sun, we share and celebrate an inevitable turning point. The merits of the sacred herb are being realized and legitimized around the globe.

This annual convention boasts huge indoor fairgrounds equipped with booths galore, vendors of every kind, guest lecturers and lots of primo smoke. Oh, and there's even a trophy or two to be had in the end. Here's a little bit of the scene at the 2009 show:



Some exhibits, like these grow tents, were the booths!

Cannabis

Story & photos by Nico Escondido



Grow Gear & Nutes

Obviously, you can't have a huge marijuana expo without the grow guys. These are the folks with the answers to your every question: What's the best nutrient supplement to pack on weight? What's the best bulb to use during flowering? How can I keep my grow-room temperatures low? Which medium is best for my hydroponic system? Which hydro system should I choose? And the list goes on.

Luckily for expo goers, you can find pretty much any answer and any item among the many booths dedicated to cultivation. Lighting systems—especially anything having to do with the new LED craze—always attract a lot of attention, and nutrients are also a very big draw. In fact, this year's largest expo booth was done up by Canna, the powerhouse nutrient company with a large European presence. Its "booth" encompassed an enormous swath of real estate in the middle of the convention center and included displays, laboratory-style testing equipment, barrels of nutes and ... oh yeah, lots of pretty models and free beer.

Grow tents, flood tables, aeroponic systems and vertical grow units dotted the landscape as well. Loads of people passed through the gates to gaze upon the future of growing. Local stores set up shop and brought in expert growers to demonstrate their gear and talk with both novice and advanced cultivators. The flow of information was nonstop, and the attendees gobbled it up—all while smoking huge spliffs and packing their bags with free giveaways.



Tracy from Arista explains her company's Coliseum and Cage grow systems.



Table systems were a big attraction as usual.

Seeds, Seeds & More Seeds

When it comes to cannabis genetics, the frenzy in Spain is over seeds. Unlike their counterparts in Holland, the rest of Europe and, of course, North America, the Spanish prefer seeds over clones. One likely reason for this is simply that the possession of cannabis seeds in Spain is legal.

The result is a large showing of seed vendors at Spannabis, with the number growing every year. Seed companies from all over Europe—local Spanish companies as well as the major players from Amsterdam—join breeders from North America to flood the Spanish market with tons of variety.

Elite Seeds and Sweet Seeds, both Spanish seed companies from the Valencia area, are most notable on the local scene. Canadian companies such as Green Life Seeds and Treating Yourself Seeds were also present, as was Next Generation Seeds, which has slowly shifted its base of operations from British Columbia to Spain.

Big names like Sensi Seeds, Green House, Soma Seeds, DNA Genetics, Delta-9 Labs and Paradise Seeds were on hand representing the Dutch scene. All these guys came ready to roll, with large exhibits and samples of bud and hash on hand for tasting. Seeds are sold in packs of varying sizes, and large wholesale deals are often struck between local seed banks and companies from around the globe.



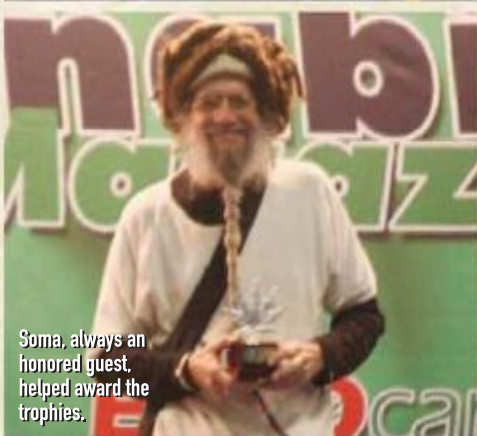
The Delta-9 crew sold a lot of seeds... and smoked a lot of weed.



Canna's massive cantina-style booth had pot toys galore.



Green Life Seeds represented Canadian genetics well.



Soma, always an honored guest, helped award the trophies.



Luc, of Paradise Seeds, is amped to take second place in the Indoor Bio category.



Elite Seeds, a popular Spanish seed company, was a crowd favorite.



DNA Genetics—perennial award winners, taking TWO Spannabis awards home.

The Winners' Circle

On the third and final day of the expo, everyone gathered at the back of the venue, where a stage had been set up for guest speakers during the weekend. The stage was now transformed into an awards center, with a table of five-leafed Spannabis trophies awaiting the winners.

The awards were given out first for Best Booth, Best Grow Product, Best Seeds and Best Paraphernalia Product. This year's winners were as follows:

- Best Booth:** Canna (Nutrients)
- Best Grow Product:** Canna (Nutrients/Medium)
- Best Seeds:** Pyramid Seeds (Spain)
- Best Paraphernalia Product:** The Dragon Vape (by Ortue)

Then came the big boys. These awards, known as the Cannabis Champions Cup, were given for fully matured and cured buds. There were four categories—Indoor Bio (Organic), Indoor Hydro, Outdoor, and Resins (Hash and Oils)—with first-, second- and third-place winners in each. This year's winners were as follows:

Indoor Bio

- 1) Sad, Sweet Seeds (Spain)
- 2) Ice Cream, Paradise Seeds (Holland)
- 3) Red Head, Test I Llabor (Spain)

Indoor Hydro

- 1) Critical Mass, THC Skunk Seeds (Spain)
- 2) Shark's Breath, DNA Genetics (Holland)
- 3) King Kush, Green House Seeds (Holland)

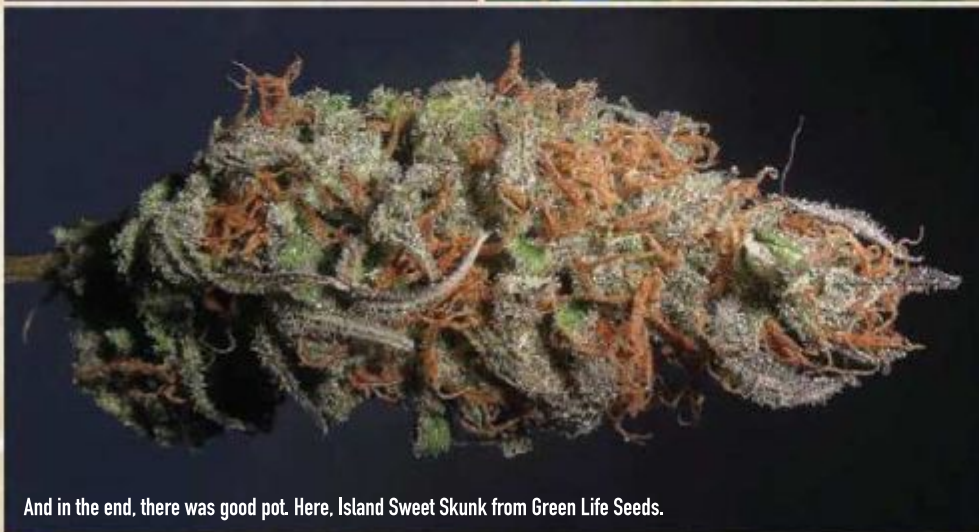
Outdoor

- 1) Cream Caramel, Sweet Seeds (Spain)
- 2) Critical 47, Positronics (Holland)
- 3) Sleestak, DNA Genetics (Holland)

Resins

- 1) Ice Monster, La Huerta de Juan Valdes (Spain)
- 2) Papa's Candy, Eva Seeds (Spain)
- 3) Nepal Royale, Green House (Holland)

Overall, it was a great weekend for the cannabis industry and a memorable event for bud growers and aficionados throughout Europe. Stay tuned next month for more on the Spanish grow scene, as well as some interesting views on the Southern European market for feminized and auto-flowering seeds. 🌿



And in the end, there was good pot. Here, Island Sweet Skunk from Green Life Seeds.

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BY DANNY DANKO



CLEAN PIPES

Most bongs have those hard-to-reach places that make them difficult to clean using just a solution. But **4:15 Mr. Waters Pipe Cleaner** provides an innovative and chemical-free way to get the whole apparatus spotless and ready for fresh hits. Just add the specially designed stainless-steel abrasion balls with some water and gently swirl away any built-up tars and resins. Then you simply strain them through the strainer bag (included), rinse and dry, and they're ready to be reused as many times as necessary to give your pipes a thorough cleaning. Works on glass, plastic, ceramic, metal and acrylic.

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Contact: Mr. Waters 4:15, 949-462-4420, mrwaters415.com



BUD BLAST

The Australian secret to bigger buds is out! The new liquid flowering supplement **Size Matters** provides just the right mix of nutrients for those vital middle weeks of the flowering stage, increasing yields by up to 30%. Fulvic acid, in combination with silica, potash and other additives, strengthens plant cells at the most crucial time, building branches that can pack on flowers and handle the weight of enormous colas. So if size matters to you, try **Size Matters**—Australia's answer to huge harvests.

Price: \$80 plus shipping/handling

Contact: Hydro Needs, 011 61 403-850-586 (Australia), hydroneeds.com.au



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Seashells have made wonderful pipes for generations of beach dwellers.

Now **Smoke Shells** from Glassgripper bring the ocean's bounty to smokers everywhere, regardless of their proximity to the shore. The pipes are 100% natural and handpicked in Siesta Key, FL. Each one is not only beautiful but unique, and comes with a built-in replaceable screen. **Smoke Shells** make terrific gifts, and they can hide in plain sight as a decorative paperweight (just flip it over when not in use).

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Contact: Solorzano's Smoke Shop, 941-349-0879, glassgripper.net



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Price: still being determined at press time

Contact: Bonkey, proudly made in the USA, thebonkey.com



Med Pot Warning: What Are You Really Smoking?

By Alex Allan Anderson

Are you aware of what you're really smoking? Can you recall a time when you took a hit of what you thought was going to be some great smoke only to find yourself choking and gagging? Even worse it was hard to keep lit, tasted terrible, irritated your throat and lungs and produced a heavy black ash.

Licensed medical cannabis patient and grower Gino Yordanov offers you an insider's look at the direct causes of poor-quality medicine. That's because Yordanov is co-founder of Advanced Nutrients, the only hydroponics company that's logged nearly a decade of cannabis growing research into plant quality, yields and potency.

"I always wondered what caused that stinging harshness in my throat when I medicated myself with buds I purchased," Yordanov recalls. "So I had my team of scientists find out the causes. And here's what they discovered..."

You're Smoking Too Much Phosphorus

One of the main causes of all that hacking and coughing is plants are grown with too much phosphorus. Another critical finding that made a significant difference was the particular forms of phosphorus and nutrient ratio's used to grow with.

Even more troubling, what are the rest of the fertilizer's essential ingredients "cut" with? Take calcium nitrate for instance it's made up of 15.5% nitrogen and 11% calcium, so what's the other 73.5% made out of?

Well, as it turns out, actually it matters a lot, especially the composition and purity level of that "cut."

"When calcium nitrate is not analyzed or sourced incorrectly, the remaining percentage of filler material slows crop growth and adds harshness to your buds. And calcium nitrate is just one example – what about all the other ingredients in a nutrient? Obviously it all matters.

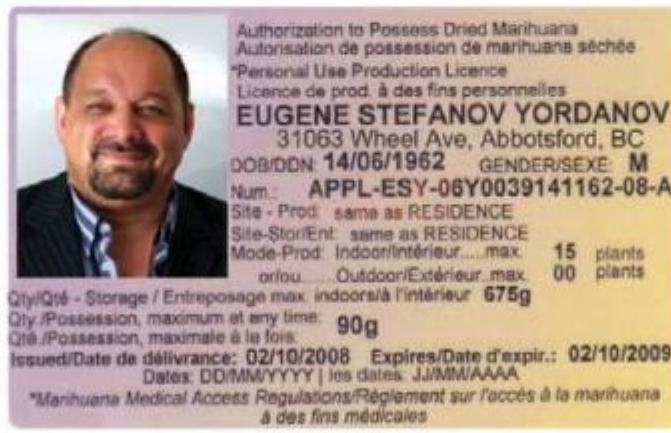
But here's the most important part... the correct ratios of a cannabis fertilizer's macro and micro nutrients make a huge difference in your medicine's smoothness. Plus it's a known fact that the further you move away from feeding cannabis plants their ideal nutrient ratios, potency and yield rapidly deteriorate.

You see, cannabis uses a small amount of phosphorus during flowering, what it really loves to use is nitrogen and potassium. We discovered this because our scientists have taken thousands of weekly tissue samples from buds, stems, leaves and roots of many varieties using gas chromatography analysis throughout all phases of cannabis growth.

Nutrient Companies Are Harming You

And to make matters worse, nutrient companies are over-

providing phosphorus in hydroponic bloom fertilizers. And to compound problems, they use high levels of ingredients like mono ammonium phosphate (MAP) or diammonium phosphate (DAP). These harshness culprits will make you cough a lung out. Really, it's that bad. Hey, I realize this may sound a bit self serving but obviously I care about what patients and I are smoking and of course the facts are the facts."



Licensed Medical Cannabis Grower and Patient Gino Yordnaov gives you an insider's look on how you'll absolutely ensure you're getting safer, smoother and more potent medicine.

The good news is Yordanov's researchers found combinations of specialized nutrients, plant and mineral extracts, root enhancers, vitamins, inoculants, growth and bloom co-factors that consistently produce bigger yields, higher amounts of THC, sweeter smelling aromatic compounds and tastier smoother smoking buds.

In fact, when Advanced Nutrients formulas were tested by Dr. Mahmoud A. ElSohly, (Director of the US government's marijuana research farm at the University of Mississippi), ElSohly discovered that Advanced Nutrients increased THC percentages by 40% while

increasing plant and bud biomass by 21% compared to the formulations he was using. *In the interest of full disclosure, Dr ElSohly is now an Advanced Nutrients customer.*

And Yordanov requires his company's scientists and quality control technicians to continually upgrade formulations to produce the absolute maximum bud weight and quality.

Your Only Clean Safe Source For Pure Grown Medicine

As the only hydroponics nutrients company founder who is also an officially-government licensed medical cannabis patient and grower, Yordanov pledges it's his solemn duty to guarantee Advanced Nutrients produces clean, convenient, yield-boosting formulas that ensure patients' health and safety.

"I want the finest medicine for myself and all patients. Whether you purchase from a medical cannabis dispensary or grow your own, clearly this is so important to your health that you should insist your buds were grown with hydroponics nutrients designed and tested specifically for medical cannabis."

Ask If Your Dispensary Medicine Was Grown With Advanced Nutrients...

- Because you want your buds to taste great, and you want your buds grown with fertilizers that contain superior sources of phosphorus and contain top quality, analyzed ingredients that don't contain any poor quality filler.
- Because you want your buds to have the highest potency genetically possible and grown with the correct fertilizer ratios of macro and micronutrients.
- Because you want the safest, smoothest smoke and the quality of your health demands it.

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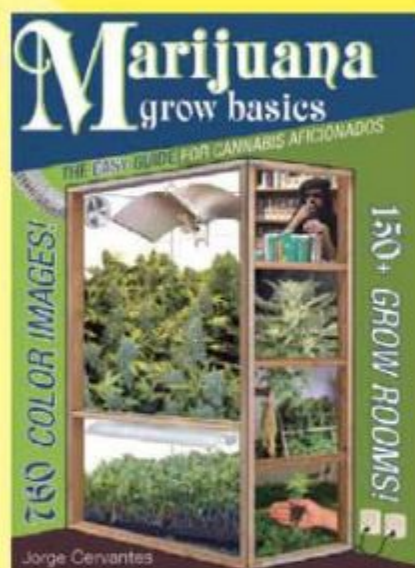
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Marijuana Grow Basics The EASY Guide for Cannabis Aficionados by Jorge Cervantes

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NEW

Jorge's simple easy guide shows American, Canadian and European techniques to grow the maximum yield of the most potent cannabis possible—including week-by-week photo-based instructions to grow a 12-week crop from seed and a 10-week crop of clones. Even first timers are guaranteed a heavy harvest!

Become an expert on grow room and internet security, feminized seeds, seedlings, cloning, mother plants, spotting male and female plants early, peak "sinsemilla" harvest, and manicuring, drying and curing your crop for highest potency.

Buy only the grow gear you need—hydroponics and soil, CFL, HID & LED lights, CO₂, meters, fans and filters—to maximize your harvest. Design and set up your grow room with supplies from your local hardware store and garden center. Plus troubleshoot problems and control common pests and diseases!

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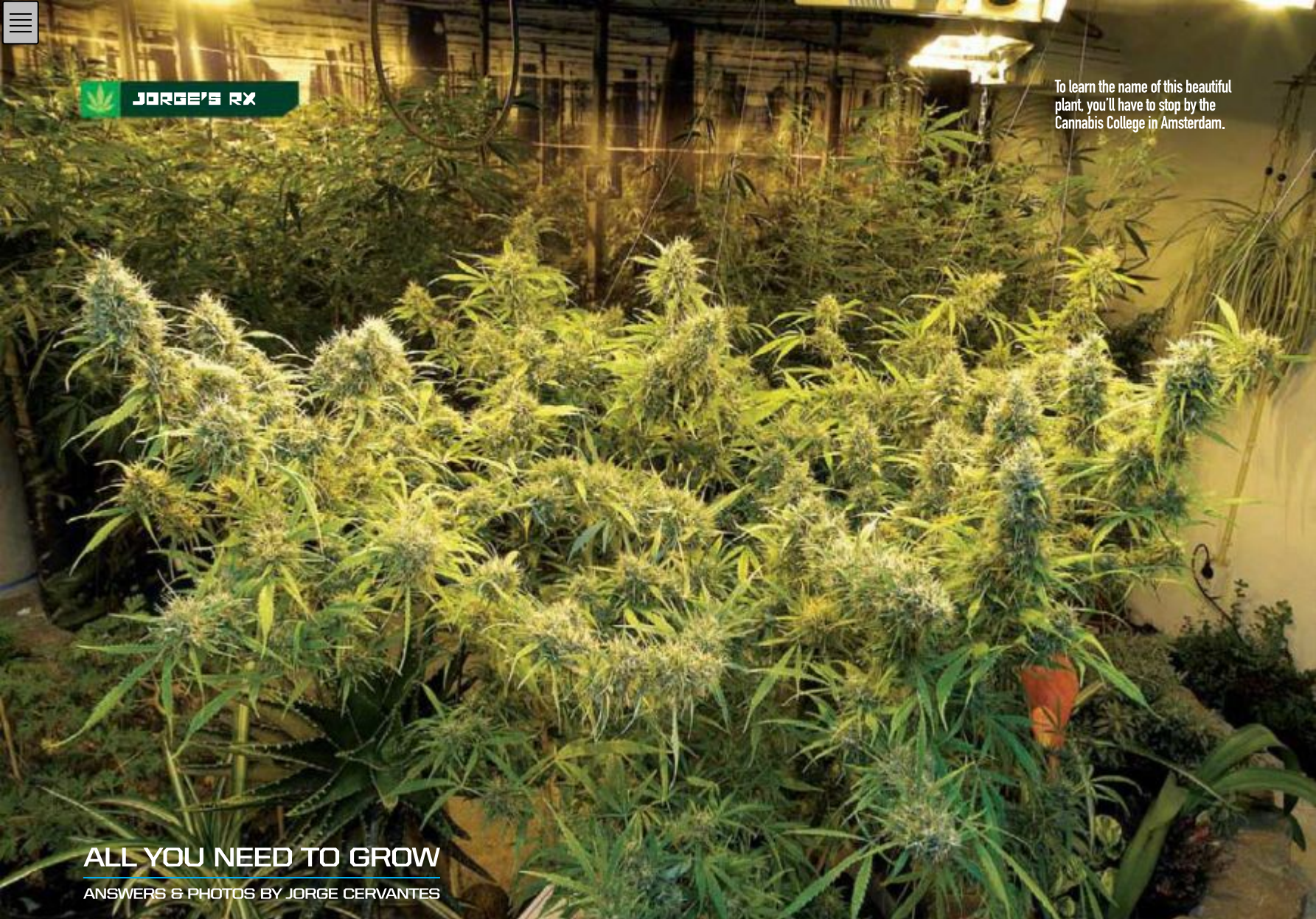
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ANSWERS & PHOTOS BY JORGE CERVANTES

LIVING IN A GREENHOUSE

Will living in a marijuana greenhouse hurt a man's health over time? I wonder if breathing the plants' waste would somehow damage a person, but don't humans get along with their excess and stuff?

*Mr. M.B.
Via Internet*

Dear Mr. M.B.,
Marijuana and humans have been living together for a long time now—in fact, plants and animals count on one another to survive. Our whole little world or ecosystem is comprised of plants and animals: Marijuana is a plant, and we humans are animals. In simple terms, plants use our waste—in this case, atmospheric waste in the form of carbon dioxide (CO₂). Plants take in CO₂ and use it to grow. Then they release oxygen back into the atmosphere as waste. Humans breathe in oxygen and use it to live.

If the climate is kept from 60°F to 80°F and the humidity is around 50%, then living in a greenhouse full of marijuana should be no problem. Actually, it would give you a good sense of what the plants have to endure: Too often, greenhouses are not ventilated or heated properly and so tend to heat up too quickly during the day and cool down too much at night. Living through a few of those cycles is unpleasant and provokes sickness both in plants and animals.

Also, keep in mind that if you're prone to fungal diseases and there's an excessive amount of

mold or fungus in the air or on surfaces, your health could be adversely affected.

Most likely, however, it's your own "waste" that will create problems for the cannabis plants. People tend to brush up against plants; this allows pests and diseases to catch a ride on their clothes, shoes, hair, hands, etc., into the greenhouse. A pile of dirty clothes, a little food garbage, etc., attracts pests and diseases that will attack your plants. So give your cannabis a break and sleep outside.

TIPS DOWN

Do you still stand by your advice to plant root-tip down? I've read of "root-tip up": the theory that making the plant bend to push through the soil results in a faster pop-up.

*Phil
Via Internet*

Dear Phil,
Yes, I certainly do recommend planting a germinated seed with the root tip pointing downward. After all, the tip of the root *grows* downward, and the seedling emerges quickest when following Mother Nature's scenario. Look at your seedlings as they emerge: They all show a "gooseneck." One end of the gooseneck is the rootlet, and the other end contains the new cotyledon leaves and upward-growing shoot. If you plant the root tip pointing up, it will have to turn around and grow downward first. This takes longer. Of course, there's a compromise that works quite well: Plant

the germinated seed on its side with the root tip in a horizontal position.

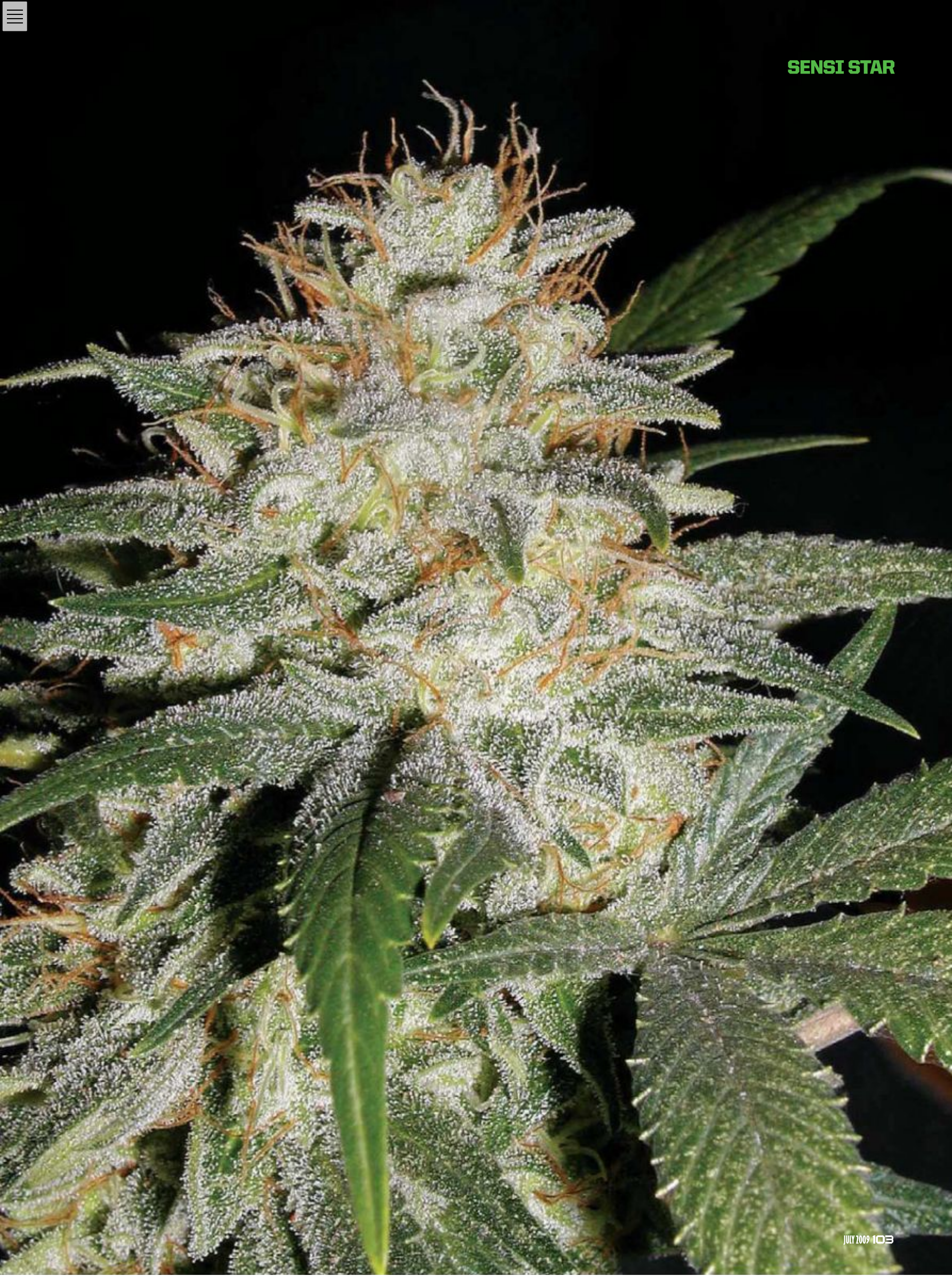
Note: There's a lot of incorrect information out there from so-called "experts" who don't know their facts. Before you believe anything you read, check it a couple of times against known and trusted sources before subjecting your plants to bad growing practices.

SICK BABY

Hey, man—my baby (a.k.a. "plant") is sick, and I don't know what to do. The leaves are starting to turn yellow and brown and fold in on themselves. I'm using moisture-control potting soil. Please give me some advice!

*Purplejuicegrower
Via Internet*

Dear Purplejuicegrower,
Sounds like your baby has an overdose of fertilizer salts. The plant is probably two to three months old. By this point, the fertilizer has had time to build up in the soil. Once it builds up, some of the elements in the soil block other elements or nutrients from being taken in by the plant. Yellowing and brown leaves that "cup" in on themselves are telltale symptoms of this. Miracle-Gro Moisture-Control Potting Soil contains fertilizer. If this is what you're using and you've been adding the fertilizer regularly, your plant is probably over-fertilized and there's been a build-up in the soil. Assuming it's not too late, flush the container with three gallons of water for every



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A lack of heat and ventilation created the worst problems in this damp, cool growroom.

gallon of soil. Let the water drain freely. Your baby should slowly show signs of perking up and, within a month or so, be strong and healthy again.

STALE AIR

What's up, Jorge? I'm a big fan of your work and am waiting on your new book! But I have a question for you: What's a muffle box? I saw an article about a grower using one by his window, which I was reading because I can't find a way to exhaust my air. I'm stuck—any suggestions?

Madmax
Via Internet

Dear Madmax,
A "muffle box" is an enclosure that muffles the sound of the air/fan/ducting in a growroom. Air is exhausted into the box and then outdoors. The box is often covered with sound-shunting insulation.

Directing old, stale air out of your growroom is essential. If you have a window or any kind of a duct nearby, you can use it to direct the air outside or away from the grow area. By building a muffle box in front of a window, you can safely exhaust the used air from the growroom out through that window. This is usually the easiest way. You can also cut a hole in the ceiling and send the used air up into the attic and then expel it with another fan.

You can find my new book, *Marijuana Grow Basics: The Easy Guide for Cannabis Aficionados*, in bookstores and at www.fsbookco.com, a HIGH TIMES advertiser. In Chapter 10, "Grow Cabinets, Closets, and Rooms," there are three pages illustrated with eight detailed images that show you exactly how to expel used growroom air.

FINDING A MEDICAL GROWER

I just got my prescription for med-pot this month. I lost my medical insurance and had side effects from all the pills I was taking. I don't have a green thumb and wouldn't like to grow marijuana, but it seems impossible to find a grower who could do it for me. They say you have the right to possess medical marijuana, but they don't give you any help finding growers. I need to find a grower who can supply me with pot that is reliable and consistent. Can you help? Thanks.

Laurie
Oregon

Dear Laurie,
When you're suffering and in pain and living in a small town, finding a grower is difficult. But finding a grower in Oregon when you know where to look is easy. Any medical-marijuana club where you can buy your medicine should be able to help you find a grower. I would start there. The next place to look is the Hemp and Cannabis Foundation (THCF); you can call them toll-free at 1-800-723-0188. You can also stop in at their Oregon Clinic, which is located at 105 SE 18th Avenue, Portland, OR 97214; call them at 1-503-281-5100, or fax them at 1-503-235-0120. THCF's Oregon Clinic is directed by an old friend, Paul Stanford. You can see an interview with Paul at the saalem-news.com site. The exact link is saalem-news.com/articles/february182009/mj_paul_the_2-18-09.php.

POLISH BIBLE

Jorge, does your "Bible" come in Polish?

Coleman
Poland

Dear Coleman,

Currently, *Marijuana Horticulture: The Indoor/Outdoor Medical Grower's Bible* is published in English, Italian and Spanish. Later this year, it will also be available in Dutch and Russian. My new book, *Marijuana Grow Basics: The Easy Guide for Cannabis Aficionados*, is available in English and German in a few months. We plan to publish it in Czech, Hungarian and Polish in 2010.

TOP HARVEST

This is my first grow, and I have a copy of your *Ultimate Grow Guide DVD*. It's great! I'm into my eighth week of flowering (all females, lucky me). They're doing great, but the buds toward the top of my plants are starting to turn amber in color, even though the buds below them are still developing. Is it okay to cut the top area of the plant once it reaches its peak to allow the lower buds to mature, or should I just leave them alone? And how long does the entire flowering phase last? Any help you can give me would be greatly appreciated.

Mindmixx
Via Internet

Dear Mindmixx,

Lucky you! Flowering in most strains lasts from eight to 12 weeks. *Indica*-dominant strains flower sooner than *sativa*-dominant ones. Your plants will tell you all you need to know in this case. Get yourself a 30x handheld microscope or a 10x loupe. (I prefer the 30x scope.) Take a close look at the buds with your new instrument. You will see several types of clear to amber-colored resin glands. Look for ones with the little post and ball on top. This is where the bulk of the mind-mixing THC is concentrated. Examine them closely. You will see that some of the glands are fully developed, with round heads; others have misshapen heads; and others have the head missing. Depending on the strain, they may also be turning milky white to amber. All of these signs—misshapen or missing balls and a deepening of color—are indications of senescence, or preparation for the end of the life cycle. In general, the most energetic high from your harvest is obtained when the fewest heads have degraded.

The uppermost buds on mostly *sativa*-dominant strains often tend to mature before the lower buds. Also, lower buds often receive less intense light and therefore mature more slowly than the buds that receive brighter light. You can harvest those upper buds that appear ripe and have received the most light. Continue to monitor the lower buds with your magnifier and harvest them as they become ripe. Also, move the grow light lower to ensure that these buds receive more intense light after you've harvested the upper buds.

CO₂ AND VENTING

If I introduce CO₂ to my grow closet, which is 2.5 by 4 by 8 feet, do I still have to get fresh air in there? The whole point of getting fresh air into the room is for the CO₂, isn't it? If I give my plants extra CO₂, do I still need to have an intake vent? Couldn't I just have a fan circulating the air in the room with the CO₂? I already have a small humidifier that cools the room, so pretty much everything is good.

Manuel
California

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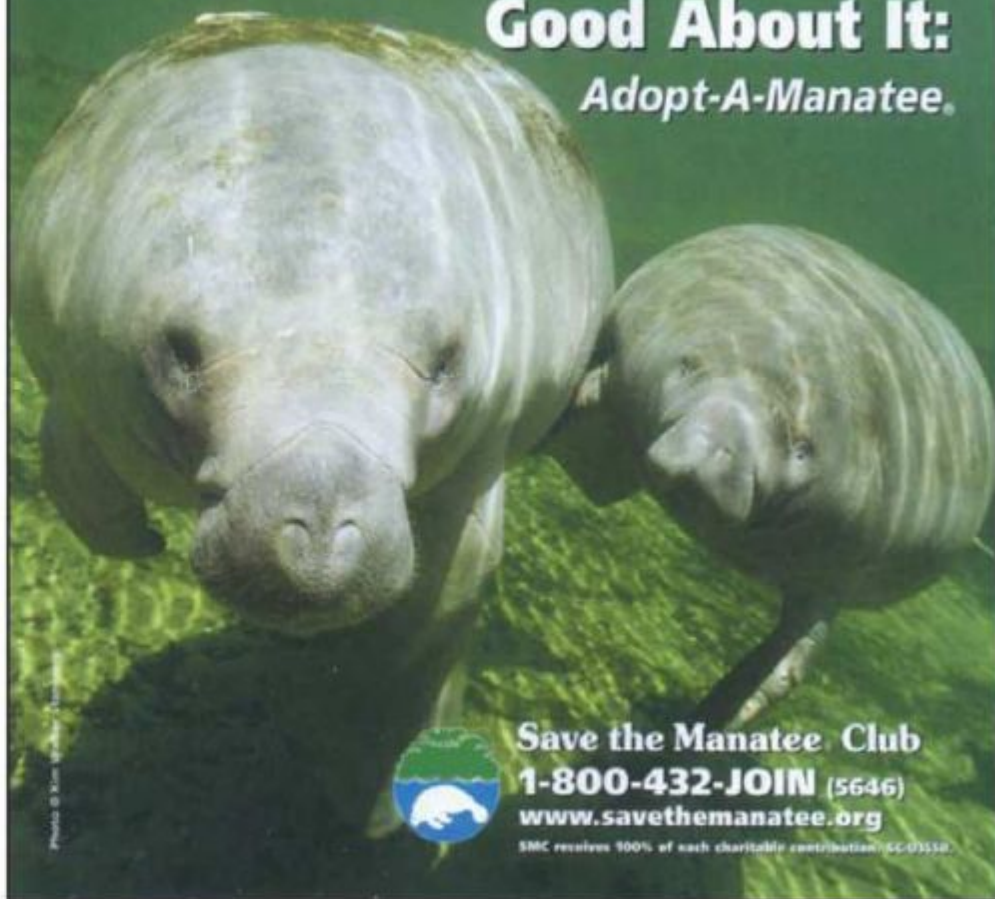
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Hola, Manuel,
Cannabis can use four to five times more carbon dioxide (CO₂) than naturally occurs in the air, so giving your plants more CO₂ means they'll grow faster and bigger.

Increasing the humidity in your small grow-room is an easy and safe way to cool the atmosphere when the plants are in the vegetative-growth stage, because they can grow well with up to 70% relative humidity. However, once you induce flowering with the 12/12-hour day/night light schedule, your plants will require lower humidity (50%). If the humidity level is much beyond 50%, you've opened the door to many problems. The easiest and most cost-effective way to keep the humidity at 50% is to expel this stale air with a vent fan and introduce new, fresh air via an intake vent. You can also set up an air conditioner or dehumidifier in the room, but both are expensive and can take a bit of fiddling to adjust to the proper settings.

Any setbacks in plant growth caused by high humidity will not become apparent, either in the form of discolored or misshapen leaves and stems or noticeably slower growth, for two to three weeks after the problem occurs. In the end, however, such problems will slow the plants' growth and retard and diminish your harvest. The best thing to do is to head off problems before they occur by installing an exhaust fan

and an intake vent. You can set the vent fan on a timer or thermostat so that the CO₂ in the room has a chance to accumulate.

BEST LIGHT

I built a 4-by-5-foot flowering room in my garage and want to know what would be the best light to use for six plants?

*Orlando
Via Internet*

Dear Orlando,
AgroSun lamps (hydrofarm.com) and SolarMax and SunMaster lamps (sunlightsupply.com) are very popular. I like 400- and 600-watt lamps because they are very efficient, generate less heat and can be placed closer to plants. Remember that light diminishes to the square of the distance—in other words, it fades very quickly. The closer a lamp is placed to your plants, the more intense is the light they receive. Consider using a 400-watt lamp and adding another one as your plants grow bigger. If you want big plants, bend and trellis them so that the maximum amount of foliage is exposed to bright light. Remember, upper leaves block the light to lower ones. This setup will keep the heat to a minimum and illuminate your plants fully. These simple, basic principles require a little thought, planning and time to implement, but the payoff is a heavier harvest.

CANNABIS UNIVERSITY

Hey, man, I want to go to the best grow school there is. Where is it at? Please tell me—I will pay any price and travel anywhere in the world!

Zodiac
Via Internet

Dear Zodiac,

You can check out the Cannabis College, Oudezjds Achterburgwal, 1012 Amsterdam, Amsterdam, the Netherlands (tel: +31 20 4234420 or cannabiscollege.com). But they don't offer a course on cultivation. You can also check out Oaksterdam University at oaksterdamuniversity.com. But you should keep in mind that cultivating cannabis is illegal just about everywhere in the world. Therefore, it is virtually impossible to find a public institution that offers cannabis cultivation in its curriculum. My advice is to take horticultural classes at your local college. Take all the classes you can on growing vegetables and flowers in a greenhouse. You should also sign up for master-gardener classes at your local County Extension Service. Read as many books on cannabis as you can get your hands on—and, if possible, move to California and offer your services to the best medical grower you can find. Finally: Eat, sleep and dream growing!

CLONE DOME

I'm setting up a humidity dome for my seedlings after germination and would like to know what the proper small growing light would be—meaning wattage, light type and anything else you may be able to recommend. Thanks!

Shoe
Via Internet

Dear Shoe,

If you're growing with a single humidity dome, it won't need much light. There are a lot of fancy and expensive lights out there, but you can easily make do with a couple of 18-inch fluorescent lamps from your local hardware or building-supply store. Look for lamps with a "daylight" spectrum. Two 18-inch, 20-watt lamps should grow a great crop of clones. If the top of the dome is relatively shallow (say 4 to 6 inches), you can place the fluorescent fixture closer if necessary. Also, don't forget to allow adequate ventilation inside the dome. Remove the dome several times a day or prop it up so that fresh air is allowed in. Stop using the dome when your clones have overcome transplant shock and become rooted. You might also want to try an automatic clone machine, which are available at many hydroponic stores. ✻

Jorge Cervantes is the author of Marijuana Grow Basics: The Easy Guide for Cannabis Aficionados (July 2009), Marijuana Horticulture: The Indoor/Outdoor Medical Grower's Bible (January 2006), Jorge Cervantes' Ultimate Grow DVD (shot in BC) and Jorge Cervantes' Ultimate Grow DVD II (shot in Spain), Indoor Marijuana Horticulture: The Indoor Bible, Marijuana Indoors: Five Easy Gardens, Marijuana Outdoors: Guerrilla Growing and Jorge's Rx. He writes for 20 magazines in seven languages. Jorge's books are published in Dutch, English, French, German, Italian, Russian and Spanish. Hit marijuanagrowing.com for more information.

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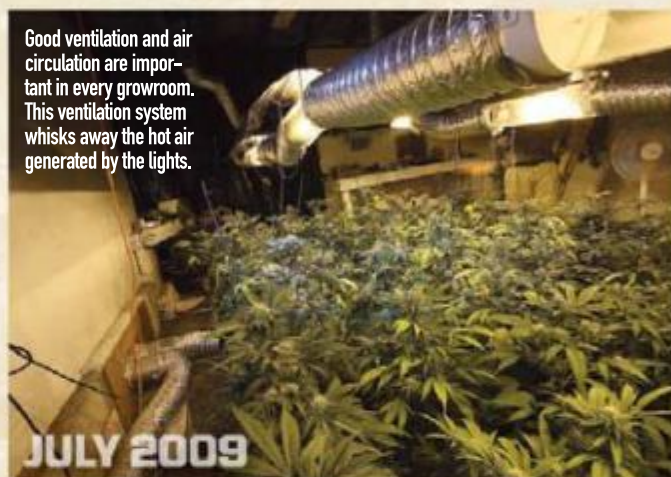
Move clones and seedlings outdoors. If you plant the first of the month, you can harvest a crop a few months later. Plant AK-47 x Lowryder #2 seeds and harvest the buds in 70 to 75 days outdoors; find the seeds by typing "AK-47 x Lowryder #2" into the Google search engine.

Transplants will need more water and care now because the weather is warm. Always harden off tender indoor clones and seedlings before moving them to the harsher outdoor environment. Put the little females in a cool part of the garden that is protected from the hot midday sun; shade them with a screen or shade cloth. The canopy will make a natural breezeway below and keep them cooler. Ideally, plants should stay under 85°F to grow well.

Hot, dry wind desiccates plants quickly. A wind block works wonders to protect plants and decrease their water needs. Provide midday shade for large plants. Temperatures that climb above 85°F will choke their growth and increase water consumption with no benefits. Use wild plants around the patch for shade and also to camouflage the garden. Bend tree branches and bushes to form a natural covering over the planting area to diminish the midday sun. This natural green "smokescreen" makes plants harder to find for cops and robbers, too.

Apply a heavy layer of mulch around the plants. Native foliage should be placed on top of the mulch as camouflage. Mulch can be anything from rocks, paper and plastic to my own personal favorite, grass clippings. Dry clippings are light and easy to compact and carry. Mulch retains water and lowers water consumption; it also buffers the soil from extreme conditions, reduces plant maintenance and decreases the incidence of problems.

Yank male plants as soon as they're discovered. Any non-feminized seedling should be checked regularly for male flowers. Look for male pre-flowers when the plant is about two months old. To spot pre-flowers, look at approximately the fourth set of branch nodes from the top of the plant. Male flowers start out as a green nub that soon grows into male pollen sacs; they look like miniature balls on the end of a short, thin stalk. Cull out male plants as



soon as their sex can be distinguished. Female pre-flowers appear in the same place as males, but show two whitish hairs or pistils that grow from a small sheath.

INDOORS

Hit hightimes.com/grow and check out the grow articles on the HIGH TIMES website. There's a lot of information to be found there!

The long weekend—Fourth of July in the US and Canada Day up north—is traditionally the first vacation of summer. Indoor growers with a day job have been bound to their house so long that they can't wait to get out of town. That's a great idea—as long as your growroom is prepared to handle a three- to five-day period with no personal care.

Set up a vacation schedule for your growroom so that you and your plants can breathe easy while you're on vacation. Top off your reservoir to the rim and install another one if the reservoir you have won't last for three to five days. (A small reservoir can lose up to 30% of its volume daily!) Set trays under potted plants and fill pots and saucers with water/nutrient solution before leaving. Be sure to double-check each and every plant in your garden for health and water needs.

Vent your growroom and run circulation fans 24/7 if necessary. The extra cooling also lowers humidity, which is usually a good thing in summer. If possible, cool the intake air before moving it into the growroom. Close house windows and pull down shades during the heat of the day, and open up the house in the evening, after the sun has gone down and the outside air has cooled. A little daily maintenance will help keep your plants cooler.

Increase watering and reduce fer-

tilizer dosage as the weather warms up. Your plants will use more water and less fertilizer on hot days, so it's easy to over-fertilize now. Check the EC (ppm) every day. Top off the nutrient-solution tank as soon as the EC climbs too high for the fertilizer and growth stage. Check the pH of the solution often and keep it adjusted.

Treat mites and other pest infestations as soon as you find them. Spot-spray small populations individually, especially on leaf undersides where they live and cause damage. Pests can multiply much faster under the perfect conditions that hot weather provides. Now is the time to stay vigilant and act decisively in order to keep your garden bug-free.

The potent fragrance of cannabis is more pronounced during hot weather, both day and night. Test odor-control devices to make sure they're working to capacity. Replace carbon in filters if necessary. Keep the humidity at 50% in the flowering room. Carbon filters will stop working when the humidity climbs beyond 80%—there's so much moisture in the air that the filtering is blocked.

Leach containers and hydroponic systems with a mild nutrient solution every month to avoid nutrient and cultural problems.

Take clones for your next crop. Grow clones for two to three weeks, or at least until they have a strong, healthy root system.

Harvest ripe, resin-dripping buds and prepare for the next crop!

Harden off clones, seedlings and old mother plants to move outdoors.

Clean up your growroom and keep it clean. Clean rooms cause fewer problems. 🌿

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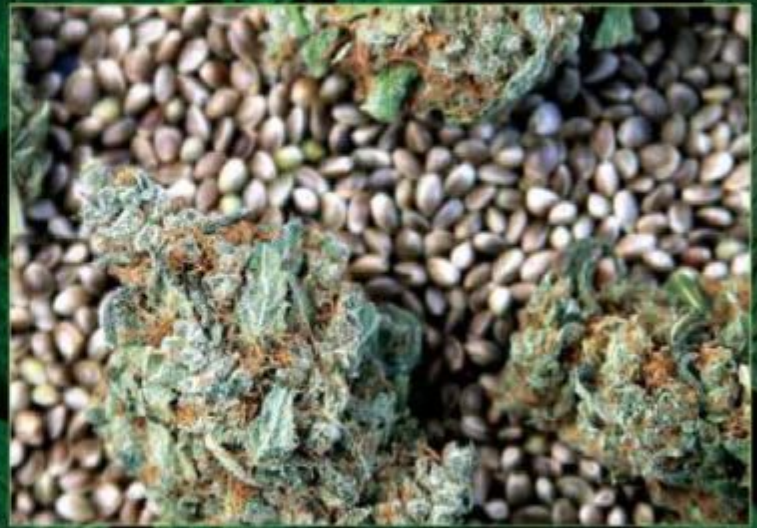
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EURO GROW

It's *GSI: Grow Scene Investigation*, as Cultivation Editor Nico Escondido inspects the European cannabis scene. What are the latest techniques being deployed overseas? What strains are gaining popularity? Nico measures just how far apart (if at all) Europe's bud breeders are from their North American counterparts.

BEAT THE HEAT!

High summertime temperatures can stop an entire ganja garden dead in its tracks without the proper attention and equipment. We reveal secret and not-so-secret techniques to weather the warmest months and still enjoy a heavy yield of dense, thick nuggets.

TOASTED IN TEXAS

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THE BIG BHANG

For centuries, the plant's complex role in the early days of Hinduism, Taoism, Zoroastrianism, Judaism, Christianity and Islam has been shrouded in mystery. But thanks to new research by Chris Bennett, it now appears likely that cannabis had a powerful impact on their formation.

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For over half a century, guitarist Johnny Winter has entertained audiences with soulful, lightning-fast blues and searing guitar music. He's survived addiction, injury and hardship, and now, at the tender age of 65, he's once again playing to packed houses. Johnny talks with HIGH TIMES about his life and music.

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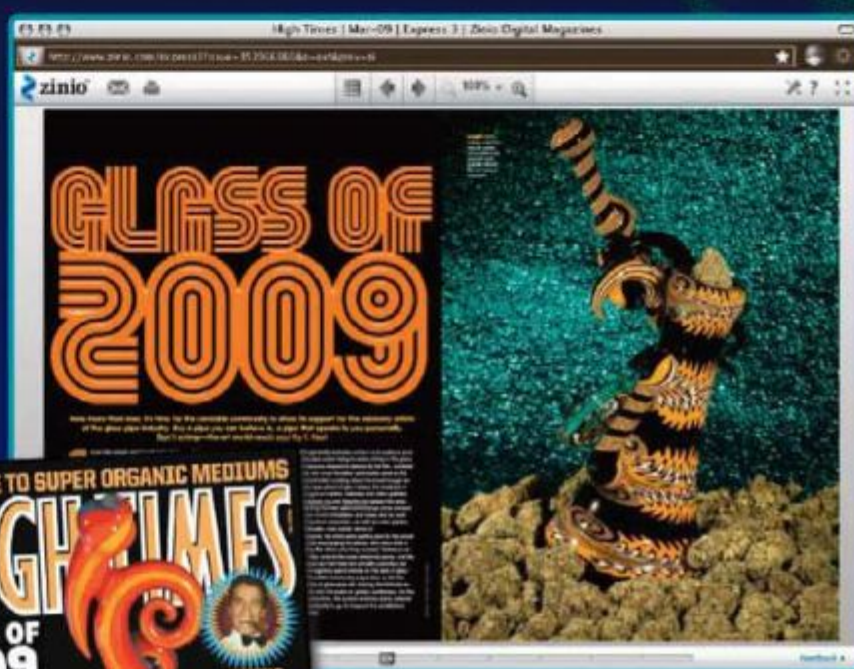
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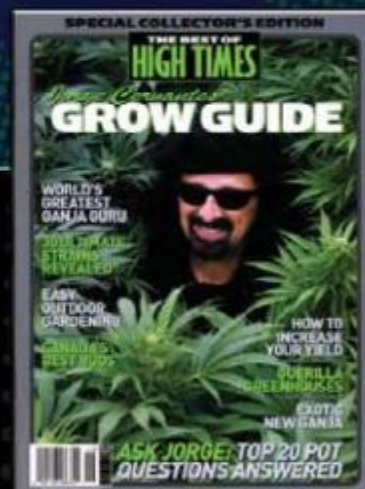
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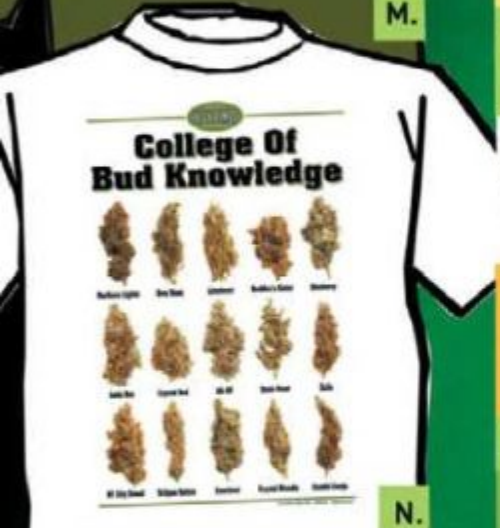
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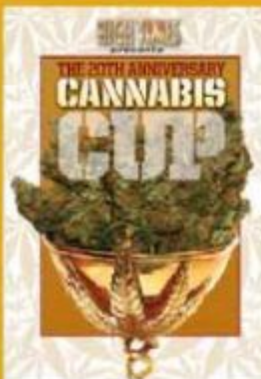
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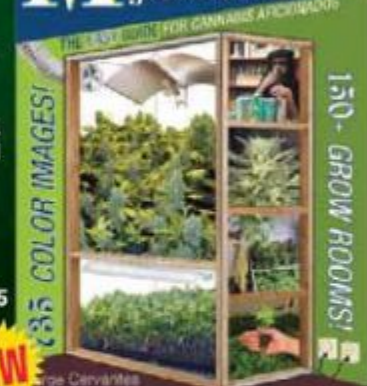


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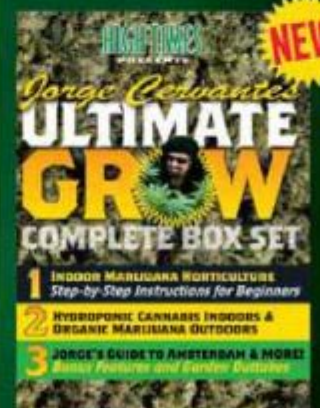
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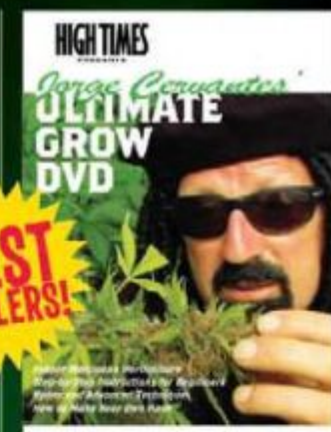
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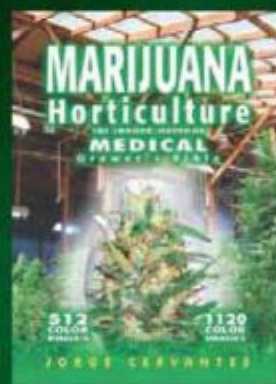
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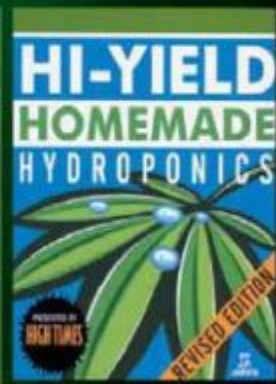
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9 **4:20**

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13 **Mike Cann.net** MUSIC AND NEWS CANNABIS CULTURE IN BOSTON

14 **IN & OUT DOOR DOOR**

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16 **BUBBLE BAR**

17 **BLAZE IT! ORGANIC**

18 **CHRONIC**

19 **SHEERA**

20 **PROCRASTINATE NOW**

21 **I ♥ PLANKTON**

22 **GET HIGH**

23 **HAM and EGGS:** A DAYS WORK FOR A CHICKEN, A LIFETIME COMMITMENT FOR A PIG!

24 **SCRATCH AND SNIFF**

25 **ChicoWings mang.**

26 **HAZE**

27 **DRINK DON'T DRIVE**

28 **WY QULL,** the stuffy, sneezy, why the hell is the room spinning medicine...

29 **BART MARLEY**

30 **Stupidity** is not a handicap park elsewhere!

31 **A HANGOVER IS THE WRATH OF GRAPES**

32 **SMOKE POT - NOT ROCKS!**

33 **SAVE GAS - FART IN A JAR!**

34 **SAVE THE Planet!** - IT'S THE ONLY ONE WITH BEER!

35 **SAVE THE Planet!**

36 **THERE ARE ABOUT 400,000 ANNUAL ALCOHOL-RELATED TRAFFIC FATALITIES!! MIND IF I CRASH ON YOUR COUCH FOR A COUPLE OF HOURS?**

37 **I DIVORCED** OVER RELIGIOUS DIFFERENCES... HE THOUGHT HE WAS GOD AND I DIDN'T!!

38 **PUFF PUFF PASS!** - IT'S NOT A MICE!

39 **Puff Puff PASS!** THE BILL! LET'S LEGALIZE MARIJUANA ONCE AND FOR ALL!!!!

40 **"There is no way to peace; peace is the way."** - A.J. Muste

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Tired of pH Pens and Complicated Feed Charts? Amazing Breakthrough Uses New pH and PPM Technologies So You Can Throw A

Have you had enough of all those mind numbing complicated feed charts, schedules, pH-PPM pens, meters, different feed rates and all kinds of other hard to figure out gadgets? It's messy. It's time-consuming. It's virtually impossible to figure out, let alone get it right. Plus, all those bottles of calibration solutions, pH-up, pH-down chemicals and the tiny holes they burn into your shirts and pants.

You've been frustrated asking: "Hey, will somebody just give me a fast, easy and simple to use bigger yield getting nutrient flowering system?"

Advanced Nutrients listened to you. The answer is yes. You'll find out how in just a minute.

But first a little about the charts, schedules and programs. Heck we invented the things to begin with, and since then all the other nutrient companies have got in line and followed like a shadow with their own feed charts and take on things. This whole nutrient thing has gotten out of hand, and a whole lot more complicated. We never intended for it to get this way. We had created an industry wide monster and had to make things right... because there had to be an easier way.

Now You Have the Nutrient Flowering System You Asked For

When we decided to create the world's easiest to use and most powerful flowering system, it was important that we get it right. So we interviewed hundreds of growers worldwide, just like you, to find out exactly what you wanted from your hydroponics nutrients.

And guess what? It was back to work we went. We gathered up the team of 12 scientists with their army of research assistants and "worked our butts off" over the next 33 months, reworking everything from the ground up and made it purpose-built to give you a continuously bigger yield producing punch than ever before, streamlining your workload. That's why you'll certainly appreciate the Bigger Yields Flowering System. It takes all the guesswork out of you getting the biggest yields, no matter what level of gardener you are.

Think about it, a Flowering System that will give you...

- Proven Bigger Yields
- Potent, Easy Mix & Use Formulas
- New, Powerful, Flower Fattening Formulas
- Formulas That Work Together for Your Biggest Yields
- A Driving Push that Flowers Your Plants to Their True Genetic Potential
- pH-PPM Perfect - No More Balancing Your pH and PPM Ever Again!



Finally Someone Who Gets It

Never being one to get in over my head, I've always kind of stuck with a base nutrients two-part and a bloom booster. My friend said I'd see bigger harvests using your System. But I was scared it would make more work for me. But when I looked at your System I realized you guys really understand what its all about and have it all figured out. So I got two Bigger Yields Bundles (Hobbyist and Expert) and put them together like the chart says, along with the new Sensi base. Not only was mixing this stuff easier than ever, but I didn't have to pH it and I also found that the plants grew quicker and the bloom time was shorter but a larger harvest. Your system worked better than expected. Much thanks for getting it right.

Mark, from Gainesville, Florida

From Hamburger Millionaires to Bigger-Harvest Hydroponics... How You Can Use the Time-Proven-Power of a "System" and Get Your Bigger Yields Advantage "Right Now"

Look, the system automatically takes care of your entire plant

Ever wondered why so many savvy people spend millions of dollars to buy a McDonald's franchise?

I realize you're probably saying to yourself right now, what the heck does this have to do with me getting bigger yields? Just hang with me for a few moments and I will explain it all.

It's because the McDonald's system is powerful, consistent, simple and so comprehensively effective that owning a McDonald's franchise is literally a license to print your own money.

And that's not all, even first-time business owners make big bucks running the McDonald's system. Because the entire well being of your business has been thought out and everything your business needs is taken care of for you. All you do is follow the system and harvest your big piles of cash.

What does all this have to do with you? The Bigger Yields Flowering System provides a rock solid complete, consistent and comprehensive system that automatically takes care of your entire plant for you at every stage of growth, from its roots to the very top of your flowers and everything in between.

Stop and imagine what it would mean to you to walk into your garden and see the kind of crops you've always known were possible and always dreamed of.

Big fat juicy harvests with towering buds, so sweet and succulent that when other growers see pictures of your crop they say "damn what the heck did you do" and when your friends and customers look at your finished product and take those long intoxicating smells... they'll have that look on their face, which says it all.

New Breakthrough



5 in 1

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Rough "Brain-Dead-Simple" Flowering System Away Your Pens and Meters Forever!

Here's how the Bigger Yields System will continually deliver your dream harvests...

Amped-Up Base Nutrients, Special Supplements and the Simplest Bigger Yields Flowering System Ever Devised!

You told us you wanted to spend even less time and fuss in your garden while getting still bigger harvest rewards. So we developed the System to have a bold and broader range of nutrient availability than you'll ever find with any other company's nutrients.

How did we do it? The Bigger Yields Flowering System nutrients are coated with multiple sources of unique and powerful compounds, causing your Macro and Micro nutrients to become powerful microscopic magnets attracted to your plant's roots.

These coatings give your nutrients tremendous flexibility to work at an extremely wide pH range. Opening up your plants cellular floodgates to rapidly inhale everything you feed them so they steadily make larger and fatter flowers to give you branch-bending-bounties.

Imagine Never Again Having to Check and Adjust pH

Rough Formula



...now contain & combine at a higher
...you even Bigger Yields Guaranteed

Let me be a bit more specific... the Bigger Yields Flowering System has a proprietary technology called pH-PPM Perfect that automatically puts your nutrient solutions pH and PPM into the "sweet spot" for optimum growth and flowering, and it's built into every growing level of the Bigger Yields Flowering System eliminating you having to fool with pesky pH meters and PPM calculations.

Here's how easy it is: if the water you use to mix your nutrients has a pH between 4.5 and 8.5 pH (and that's pretty much everyone's water) then you'll never have to balance your pH or for that matter ever add a single drop of pH up or down to your reservoir.

And how about never again having to remember complicated measuring and application data?

Well, we heard you. All the base nutrients have been standardized at 4 ml per liter, so mixing and use is ridiculously easy.

Now get this, all the supplements have been standardized as well. You only need to mix 2 ml per liter. In fact it's this way for all the supplements used in all four of the growing levels: Hobbyist, Expert, Professional and Grand Master with each level "stacking" on top of each other, then you choose your base nutrients, and away you go, that's how the Bigger Yields Flowering System works. Incredibly simple, isn't it?

Who Advanced Nutrients Is NOT For

Our nutrients are certainly not for everyone...only growers who want to see a difference and take their gardens to the next level, growers who want to really increase the quality of their product and get bigger yields. Advanced Nutrients is not the right fit for those people who...

• **Are Looking for Cheap Nutrients and Could Care less What Goes Into Them** – Advanced Nutrients cost more because you get more: High quality and bigger yields, but in order for us to give you that it cost us a lot of money. We use premium ingredients and run a full blown research staff of 12 PhD's, full tech support and a 100% guarantee on all products.

• **Don't Take Pride in Their Crop** – If they don't care about the quality, appearance or outcome of their harvest. They can look elsewhere. Because everything Advanced Nutrients does is all about our pride in carefully crafting products for growers that do just that: Create off-the-chart quality, pristine appearance and bigger yields.

• **Don't Have Compassion For Their Fellow Man** – If they're not willing to give a helping hand to people who are in need of their assistance or expertise. Then listen up: Advanced Nutrients gives all the time. We've donated hundreds of thousands of dollars in nutrients and equipment over the years. Obviously giving is the right thing to do.

No Dinosaurs Allowed: Unleash Your Plant's True Genetic Potential and Get 9 Products for the Price of 4

It's now really easy for you to realize the fact that your grower friends are stuck in the "old hard way," formulas and charts that, well... qualify as dinosaurs. Not you though because you'll be using new state-of-the-art flowering technologies and five brand new hydroponics industry breakthroughs that like a world class athlete, will push your plants to their true genetic potential.

Even Better, you'll save more money with the new Bigger Yields Flowering System when you buy the all new 5 in 1 Sensi Bloom or Grow-Micro-Bloom base nutrients along with the Hobbyist Bigger Yields Bundle™. Because it's, exactly the same as getting **9 products for the price of 4**, Sensi Bloom or Grow-Micro-Bloom base nutrients now contains and combines at a higher level the award winning products H-2, F-1, Wet Betty and a special blend of Amino Acids when you buy the Hobbyist Bigger Yields Bundle which contains Big Bud, Voodoo Juice, B-52 and Overdrive, you'll also get the **Overdrive for Free**.

Actually we do mean it when we say award winning products and breakthrough technologies. Let me explain, and these are absolute facts, we're not trying to brag or anything like that (well ok...maybe just a little), and because you're probably not aware of these facts, and of course they're important ones when you're buying the Bigger Yields Flowering System.

• **Advanced Nutrients has won every major growing competition in the world, no other nutrient company has even come close to our continuing string of victories.**

• **Advanced Nutrients is the hydroponics industry's "technologies leader" responsible to date for 31 technological breakthroughs and patents that has elevated the science of hydroponics for the entire industry and made your growing easier and more profitable, including the five new pioneering technologies employed now in the Bigger Yields Flowering System.**

Anyway, back to what I was saying, here's the deal. At the Expert Grower Level you get Final Phase for Free. The Professional Grower Level gives you SensiZym for free and at the Grand Master Grower Level you'll receive your Rhino Skin absolutely free.

So go right now and ask the store owner or one of the staff to show you the Bigger Yields Flowering System and remember to ask for your Bigger Yields Bundle. As you have clearly discovered getting bigger yields and bigger savings has never been so easy. Enjoy.

To watch pH-PPM Perfect technology in action go to:
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Canadian owned and operated.

Directions: Take QEW Toronto to Cawthra Rd exit, then south on Cawthra to Lakeshore Blvd. Go east on Lake Shore Blvd for 5 miles. Look out for the neon '420' sign on the south side of the street.