

### In this issue:

#### GEEKY GANJA GARDENING

Growing marijuana is part art, and part science. In some ways, gardeners are very artistic; like a conductor in front of an orchestra they guide their plants from the start to harvest, listening for off notes signaling something isn't right. On the more scientific side, there ways to take the right sorts of notes to show how productive a garden, and a couple of pretty simple math bits than can be helpful. **>> 18**



#### How to Feminize Cannabis >> 25



#### Strain Report: AutoMazar >> 46

# Ingredient found in cannabis to be tested in fight against advanced cancers



The early stage trial will investigate the potential of dexamabinol for treating a range of solid tumours.

A similar Phase I study looking at brain cancer is already under way in the US. Results from both are expected next year.

Dexamabinol is from a family of compounds called cannabinoids and related to the active chemicals in cannabis.

However, it is made in the laboratory and causes none of the psychological effects associated with the drug.

Lead researcher Professor Ruth Plummer, from the University of Newcastle, said: 'The starting point for this trial was to map networks of proteins that appear to have a role in cancer, identify points at which these networks could be disrupted, and then see if there were existing drugs to target these points.'

'It was this novel approach - known as network pharmacology - that first highlighted the potential cancer-fighting properties of dexamabinol, which was originally developed to treat patients with severe head injuries. While this certainly illustrates that there may be compounds with real therapeutic potential related to those found in cannabis, it also points to the importance of applying rigorous scientific methods when selecting molecules that might have potential as cancer treatments.'

'This is a Phase I trial, so the main aim will be to establish what dose is safe and assess any side effects. But we'll also be looking out to see what effect, if any, the drug has on the patient's cancer.'

Around 45 patients are being recruited to take part in the trial. All will have

advanced solid tumours that cannot be helped by further existing treatment.

The study is being funded by the drug's manufacturer, UK-based e-Therapeutics.

It will be based at the Cancer Research UK and National Institute for Health Research (NIHR) Experimental Cancer Medicine Centre in Newcastle.

Dr Joanna Reynolds, Cancer Research UK's director of centres, said: 'The potential anticancer properties of chemicals found in cannabis were first touched on by scientists in the 1970s.'

'But it's only now that we have robust laboratory evidence in place, alongside reliable techniques for manufacturing safe and practical drugs related to these chemicals, that we're at the crucial stage of being able to embark on trials in cancer patients.'

'It's the job of the Experimental Cancer Medicine Network to help speed up the journey of new drugs from the bench to the bedside and we're delighted to be supporting some of the first steps towards hopefully turning this painstaking research into new treatments that could benefit patients.'

Source: [www.cannabis.info](http://www.cannabis.info)

**8 BALL HYDROPONICS LTD**  
Unit 20, Long Lane Trading Estate, Halesowen, West Midlands, B62 9LD

- House & Garden
- Plant Magic
- Canna
- Vitalkin
- FHD Ton a bud
- Ghetto - Juice - Exclusive to 8 Ball
- Advanced Nutrients
- GHE
- Ionic
- B'CuZZ
- Atami
- Hesi
- Dutch Master
- Plant Life Products

**'EVERYTHING FOR THE GROWER'**

For all Hydroponic Equipment, Extractor fans, Grow trays, Pots, Lights, All feeds, and Nutrients

**FREE DISCRETE CAR PARK AT REAR**  
**0773 525 2447**

GENERAL HYDROPONICS | IWS | Plagron

**STANFORD HYDROPONICS**  
16 London Road, Stanford-Le-Hope, SS17 0LD  
01375-678977  
info@stanfordhydro.co.uk

MAXIGROW LTD | R.O.X. SINKING | ATAMI | BIOBIZZ | CANNIK

**Dr Blooms** Hydroponics

Unit 30  
Raynham Road Ind Estate  
Bishops Cleeve, CM23 5PE

Tel: 01279 501857  
Mob: 07593 752235

[www.doctorblooms.co.uk](http://www.doctorblooms.co.uk)  
info@doctorblooms.co.uk

**clevergreen**  
hydroponics hypermarket

30 Kettleby Business Park  
Telford  
TF1 5JD

**08000 217 999**

sales@CleverGreen.co.uk  
[www.CleverGreen.co.uk](http://www.CleverGreen.co.uk)  
**Drive-In Superstore**

**HESI**

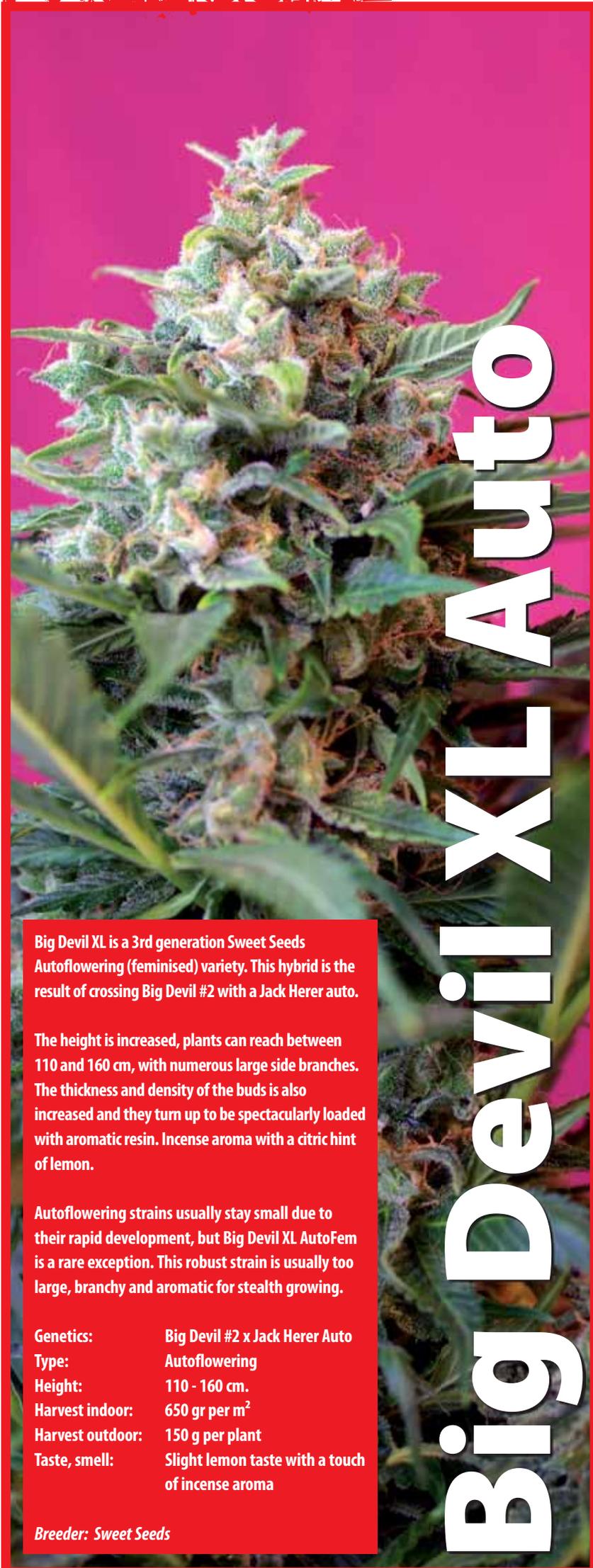


# Lifestyle for the plants



HESI Plantenvoeding • [www.hesi.nl](http://www.hesi.nl)

PAGE GIRL



Big Devil XL Auto

Big Devil XL is a 3rd generation Sweet Seeds Autoflowering (feminised) variety. This hybrid is the result of crossing Big Devil #2 with a Jack Herer auto.

The height is increased, plants can reach between 110 and 160 cm, with numerous large side branches. The thickness and density of the buds is also increased and they turn up to be spectacularly loaded with aromatic resin. Incense aroma with a citric hint of lemon.

Autoflowering strains usually stay small due to their rapid development, but Big Devil XL AutoFem is a rare exception. This robust strain is usually too large, branchy and aromatic for stealth growing.

- Genetics: Big Devil #2 x Jack Herer Auto
- Type: Autoflowering
- Height: 110 - 160 cm.
- Harvest indoor: 650 gr per m<sup>2</sup>
- Harvest outdoor: 150 g per plant
- Taste, smell: Slight lemon taste with a touch of incense aroma

Breeder: Sweet Seeds

# £4.3m cannabis haul discovered at Heathrow Airport



It's the biggest haul of the drug to be seized at the airport in more than three years.

The cannabis was discovered in three separate air freight containers, containing fresh fruit and vegetables, which had arrived on a flight from Accra in Ghana. It will now be incinerated.

The drugs were in separate tape-wrapped compressed packages within boxes.

There were so many packages Border Force officers filled seven commercial-sized wheelie bins with the drugs.

After being seized the cannabis was taken under armed escort to a secure location where it will now be stored until it is incinerated.

Investigations are ongoing to establish the eventual destination for the drugs.

Marc Owen, Heathrow Director for Border Force, said:

"This was smuggling on an industrial scale. It is a significant quantity of cannabis, our biggest seizure of this kind in several years at Heathrow.



"The fact we have stopped it reaching the streets of the UK will make a substantial dent in the profits of the criminals responsible.

"The international drug trade is a vile business that Border Force officers play a key part in disrupting."

Recent arrests at Heathrow for drug possession:

Connie Poku, 42, from Burnham was picked up with six kilogrammes of cocaine with a street value of £830,000. She was jailed for 45 months.

An Ethiopian woman who tried to smuggle three suitcases containing 56 kilogrammes of cannabis into the UK, with a street value of £160,000, has been jailed for two years and nine months.

Amelework Wondemagegne, 36, originally from Wonji, Ethiopia, but now living near Washington DC in the United States, was arrested by Border Force officers at Heathrow Airport's Terminal 3 on the morning of 7 April 2012. She had arrived on a flight from Addis Ababa.



Home Office's most recent figures on drug seizures in the London region for the financial year April 2010-March 2011:

At 30 per cent, the largest proportion of drug seizures took place in London, the most heavily populated region in England and Wales.

Number of seizures by police force or authority: 658 seizures City of London; 62,714 seizures Met and 63,372 seizures London region

Drug seizures per million population by police force area: 57,282 City of London; 8,100 Met and 8,173 London region

Number of seizures of controlled drugs by seizing authority: 658 City of London; 62,714 Met; London region 63,372

Quantities of cocaine seized in kilos by seizing authority - 0.3 City of London, 585.7 Met and London region 688

Quantities of herbal cannabis seized in kilos by seizing authority - 2.4 City of London, 2,240.3 Met and London region 2,242.8

<http://www.itv.com> 27/09/2012

higher yields  
are possible.

pass it on!



Check our brand new website  
[www.plagron.com](http://www.plagron.com) for tips&tricks

**PLAGRON.**

*glorious green*

# Dear Soft Secrets



## Attention Readers!

Fancy a FREE packet of FEMINISED seeds from ROYAL QUEEN SEEDS? Then send us a picture of your grow room or best cannabis plant, including a visible copy of Soft Secrets, and we'll send you 3 seeds. Should your photo happen to feature your beautiful wife or girlfriend wearing a sexy microbikini or super hot lingerie, you will receive 6 seeds. Photo of the Month will even receive 9 prime quality feminised seeds. With compliments of Soft Secrets and Royal Queen Seeds!

E-mail your entries to [SSUK@softsecrets.nl](mailto:SSUK@softsecrets.nl).  
NOTE: All entries are handled with the utmost discretion. We don't publish out of focus pics, and we don't like photos of plants in veg stage. It's fat buds & sweet babes we want to see!

**E-mail:**  
**[SSUK@softsecrets.nl](mailto:SSUK@softsecrets.nl)**



These are my Power Plant buds. 4 weeks veg and 8 weeks flowering. Hope you like it. Not easy to grow. You have to get it right to have a good yield. Love your magazine!!! Keep up the good work.

**IRELAND**

*Ghetto style! Good growing Ireland. Powerplant can be a tricky strain, but it looks like you treated these girls just right.*



My plants are about 2-3 weeks into the 12/12 budding cycle, fed on bat guano .

*Looking good mate. We like to see growers following an organic grow schedule, bat guano is a great organic additive for the flowering stage. For those of you that haven't tried it, think of it as an organic bloom stimulator that you mix into your soil.*



Here are a couple of pics from my last grow. They are Critical + in week 8 of flowering and nearly ready for the chop! They were grown in 6.5 litre pots using rockwool cutilene as the media and fed with House & Garden nutrients + Bud XL. They were grown under a single 600w Adjust-a-wing reflector and diamond reflective sheeting was used on the walls. Plants covered in resin, great smoke. Thanks to all at SS for a great read!

**REGGIE TIPPS**

*We can spot a connoisseur grower when we hear from one! That's some mighty fine equipment you've used there Reggie and you've got some mighty fine buds to show for it! Keep it up mate.*





Hey fellow smokers,

These girls are "The Ultimate" from Dutch Passion. Grown under a 600watt hps lamp. They definately lived up to their description of being "a recession busting strain of epic proportions". Very happy chappy! Also, enjoy my fine girlfriend.

**ONE LOVE FROM THE UK**

*Ultimate by name, Ultimate by nature! When we fall asleep, this is what we dream of! That is one fine woman and just look at the size of those buds, she looks like she's tempted to spank herself with them. Kinky! That's some new dream material, sorted!*



# ENJOY OUR 2 NEW STRAINS

# ADVANCED SEEDS

FEMINIZED & AUTOFLOWERING SEEDS

## HEAVY BUD

1 SEED: 7,00 € · 3 SEEDS: 20,00 € · 10 SEEDS: 65,00 €

Indoor: 70 - 100 cm.

Flowering: 55 - 60 Days.

Yield: 400 - 550 gr/m<sup>2</sup>.

Outdoor: 200 - 250 cm.

Harvest: Early September.

Indica strain. We crossed a selection of varieties chosen because of their versatility and adaptation capability to any type of cultivation system, resistance to pests and strong structure. Sweet and delicate fruity aroma, citric flavours with a hint of mint. Smooth when smoked, ideal for persons who do not mix marijuana snuff.



NEW



## KALI 47

1 SEED: 8,00 € · 3 SEEDS: 22,50 € · 10 SEEDS: 75,00 €

Indoor: 70 - 90 cm.

Flowering: 55 - 60 Days.

Yield: 450 gr/m<sup>2</sup>.

Outdoor: 200 - 300 cm.

Harvest: Mid October.

Vigorous Sativa hybrid, with exquisite aroma and strong and lasting effects. Crossing of a selected Kali Mist x AK - 47, the result is a mostly Sativa strain with a short flowering cycle and a satisfactory performance. Its flavour is very sweet with reminiscent of caramel and fruits. It's easy to grow, ideal for beginners.

...discover more about Heavy Bud and Kali 47,  
our delicious Autoflowering strains  
and our Feminized seeds on...

[WWW.ADVANCEDSEEDS.COM](http://WWW.ADVANCEDSEEDS.COM)



...AND REMEMBER  
YOU CAN SAVE WITH  
OUR ONE SEED  
FORMAT, PURCHASE  
JUST THE SEEDS  
YOU NEED.

IMAGE: HEAVY BUD





Hi Soft Secrets,  
Loving the rag the only paper worth buying and its free! Here are some pictures of my Liberty Haze from Barneys Farm. To scrog or not to scrog? My first attempt at a scrog was fairly successful as you can see in some of the photos. If left to her own devices she grows one huge main cola. Grown under 600w HPS using Humboldt organic nutrients. She smells of limes and smokes a little similar to lemon haze. These pics are at 10 weeks after a few days flushing, they could have maybe gone longer, but I gave them an extra week on the recommendation, but couldnt wait to sample the produce any longer. Peace!

**LADY L**

*Lovely Lady L! We heard good things come from Humboldt and there are lots of good things going on in these pictures! Scrogging – screen of green - is a great way to encourage your plants to develop multiple bud sites and achieve bigger yields, this is a pretty good effort and you've a got a nice, even canopy. We're particularly impressed with the scrog supports that you've drilled into your pots. Can't wait for your next grow and more photos of your fine self.*



Hey, been meaning to do this for years, but never got round to it . These are some unknown cuttings I got off a friend, think it's meant to be critical mass, but you never know. Always get a poor yield off cuttings. Thanks

**MR GRAY**

*Well Mr Gray, it looks like you got a pretty decent yield off these cuttings! We recommend you play luck dip with cuttings from your friend more often! Keep those photos coming in mate.*



Hello and congratulations for your newspaper which is interesting and fun. I'm sending you a picture of a small autoflower plant I got in final stage of flowering here in Portugal. I've had far better crops in the past, but at the time I didnt know soft secrets, so I didnt take a picture with the newspaper lol But I promise next time I'll send a better picture, maybe with my girlfriend in it.

*Small... but perfectly formed! Auto's are ideal for outdoor grows, either on a balcony, a rooftop or even a guerilla grow on some public land. They usually stay small in size and are easy to conceal. We look forward to some more pictures with your girlfriend next time.*

[www.moneytreehydro.co.uk](http://www.moneytreehydro.co.uk)

Unit 6, Furzehill Farm, Sheepwash Lane, Waterlooville, Hampshire PO7 6TU



**Our Products:**

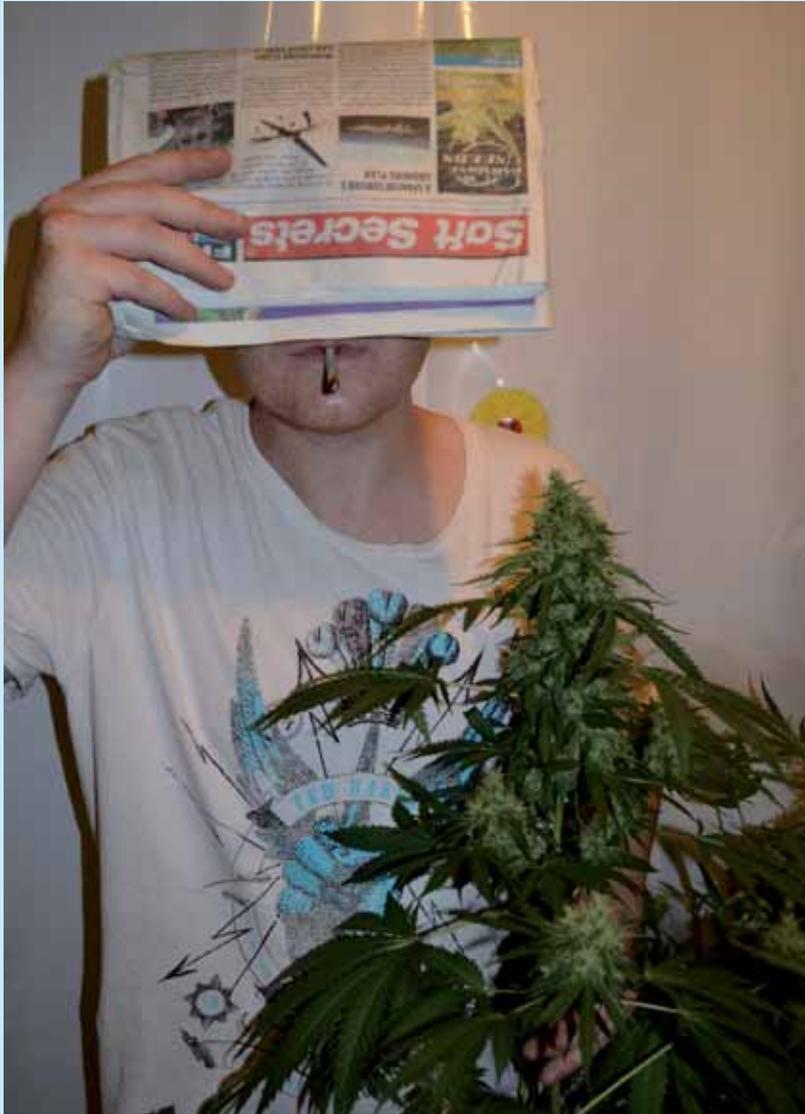
Grow Tents / Nutrients and Additives / Nutrient Control Systems / Grow Room Control Systems  
Grow Systems / Growing Media / Propagation  
Climate Control Systems & Much More



07973 480 933 / 023 9225 0966

Hope these make the grade, love the publication. I read it cover to cover more than once every time and tell everyone I know about it. Top job, keep it up

Excellent close up picture Mr Anonymous! Thanks for spreading the good word about our fine publication, but remember, keep that grow under wraps. You know what they say... loose lips, sink ships!



Here is my lovely girlfriend posing with some Exo Cheese, 7 weeks into flower fed on Canna Terra with Canna additives, under 400w HPS. Thanks for the great paper **ZIGGY**

Once we stopped looking at your lovely girlfriend and her leopard print curtains, we noticed your lovely cheese. Frosting up nicely. We guess from your letter that they are still in flower and recommend that you go easy on pruning back the foliage until they are actually close to harvest, your plants do need some leaf matter to continue to photosynthesize!



Hello Soft Secrets,  
It's been 4 years since I last grew and sent you guys pictures. I was getting bored with the weed that was on offer, so I decided to do another run. I'm sending you pictures of 'MISSING' from Eva seeds, she grew to approx 5ft tall under 250w HPS and yielded a respectable 42 grams when she was ready to smoke. Took 9 and 1/2 weeks to flower, but was worth it. Really sugary covered dense buds (and leaves). The buds are heavy and dense with a real 'spicy flavour' (that you get with good black hash), combined with a 'deep sweetness', great high.

**LEETGANJAMAN**

Welcome back LeetGanjaMan! Once you catch the growing the bug, you never look back. Especially when you harvest some bud porn like that. Nice, dense sugary nuggets!

**COMING SOON**

# MAGNUM



**THE MOST POWERFUL AND  
PRODUCTIVE AUTO  
THAT HAS EVER EXISTED**

[www.buddhaseedbank.com](http://www.buddhaseedbank.com)



**Buddha**  
s e e d s

# Airpots – Something New for Soil Growers

Over the last few years many home-growers have tried growing in one of the various hydro techniques as a way of boosting plant size, growth rate and yields. Hydro systems in general offer rapid growth rates. The root system in hydro can develop quickly, and a good

way of simplifying matters. For many coco is simpler than hydro, yet faster than soil.

Yet soil remains perhaps the simplest way of growing. Soil growers will often say it produces the sweetest tasting canna-

airpot allows oxygen into the root system. The roots develop evenly and quickly.

This encourages a healthier root system. Airpots allow the roots of the plant to spread evenly throughout the soil/perlite mix instead of bunching and circling around the bottom of the plant pot. With normal plant pots growers may see roots clinging to the sides and bottom, but airpots discourage this with the dimpled edge to the pot which direct roots back into the centre. It's a clever and simple adaptation to the time honoured plant pot design, and it has got a lot of soil growers giving them a try. And a lot of users are highly satisfied with the airpots. The root systems look great, the soil is used more efficiently and airpot growers say their plants get more nutrition from the same volume of soil. This allows them to grow bigger plants with better blooms. The fact that so many airpot users switch permanently to them is always a sign that the technology is a good one, and not a transitory fashion.

It's a simple principle and a surprise that it hasn't been tried before, air is allowed to permeate the soil and create a health-

ier root zone. However roots can escape through the holes in the sides of the airpots, and if they do they are simply trimmed with scissors or 'air pruned'. This encourages further root branching within the airpot.

The only problem with airpots is the tendency for water to escape out of the

By Tony, Dutch Passion



root system is the basis for a healthy plant. Techniques such as deep water culture ('DWC') are currently regarded as perhaps the fastest way to grow large plants and some of the best AutoFem growers have used this to tremendous advantage. Given the short 70-day lifespan of AutoFem's those that can engineer small advantages at the start of the plant growth cycle can often reap very generous rewards at harvest time.

Hydro may be fast but it isn't the simplest, it comes with its own complexities which put a lot of people off hydro. A good hydro grower checks his pH and electrical conductivity (ec) of the feed solution on a daily basis. Everything must be checked and instruments calibrated on a regular basis. For some growers the demands of growing in hydroponic systems are a bit too much and detracts from the pleasure of growing. Growing in coco fibre has often been seen as a

bis and claim it is the most natural and organic way to grow mans favourite herb. In its simplest form, soil growing needs little attention from the grower apart from some extra nutrition during bloom perhaps. In large enough buckets the plant will need little supplemental feeding, and will survive with simple occasional watering until later in the grow.

So it is especially pleasing to see soil growers presented with new methods that can boost performance and reassure them that soil remains a first-class method in which to grow their stash. In recent months Dutch Passion have seen a number of growers report great results with the new airpot containers which are becoming widely available. Airpots are an adaptation of the basic plant pot design which has changed very little in centuries. The basic principle of an airpot is to allow better aeration within the soil. The numerous holes around the sides of the



Dutch Passion's AutoBlueberry in an airpot



An airpot root-ball

side holes if it is poured too quickly. But apart from that we hear few complaints about them. Many soil growers say they are worth the little bit of extra hassle and wouldn't switch back to normal plant pots after using them.

It's nice to see the soil growers get their share of new ideas for a change. May there be many more.

## VITA START AND VITA RACE FROM PLAGRON

Vitamin sprays for healthy and strong plants



A strong and healthy plant that delivers a great yield: isn't that what we all want? Plagron offers two innovative vitamin sprays that guarantee an excellent cultivation: Vita Start and Vita Race.

Vita Start, formerly 'Cropspray', is a liquid growth stimulator for seedlings, cuttings and mother plants. Vita Start has a broad range of effects. It contains a clever combination of organic enzymes, trace elements and growth stimulators. These protect the plant against external negative effects and ensures greater yield. Vita Start allows the plant to absorb the available nutrients more effectively and more extensively and excludes the risk of over-fertilisation and under-nourishment. Spray Vita Start onto the plant leaves. The product is very concentrated so you only need 1 ml per litre of water. Vita Start is available in 100 ml, 250 ml, 500 ml and 1 litre.

### Vita Race

Vita Race, formerly 'Phyt-Amin', is an organic leaf fertiliser and growth stimulator for the growth phase and the first three weeks of the flowering phase. It provides the plant with the necessary amino acids, trace elements, natural minerals and essential natural hormones, which accelerates the growth and prepares the plant for flowering. Add a maximum of 5 ml of Vita Race per 1 litre of water (1:200). For optimal results apply enough to make sure the liquid is dripping from the leaves. Vita Race is available in 100 ml, 250 ml, 500 ml en 1 litre.

### Pass it on!

More information can be found on Plagron's new website, [www.plagron.com](http://www.plagron.com). Here you will find loads of information on Plagron products and growing in general. The info on Plagron products will be easy to find on this site, giving you useful tips, showing you our related products and FAQ's for each product. This is an interactive website, where one grower gets to meet the other and can share his/her experience or opinion on Plagron products with other growers. Exactly how the slogan 'pass it on' is meant to be. Keep a close eye on the website for the latest news and developments of their products and for growing in general. Don't forget to check out the Facebook page for extra tips and tricks ([facebook.com/plagron](https://facebook.com/plagron)). Of course you can also contact the service desk via [servicedesk@plagron.com](mailto: servicedesk@plagron.com).

## SPRAYMIX

Care product

Spraymix is a pure biological and non-toxic care product and consists of a special combination of sea-algae and organic extracts.

This product consists of auxine, sea-algae, chelated calcium, vitamins, amino acids, 80 trace elements, natural fatty-acids and a great number of natural growing and flowering hormones.

The special combination of these components makes for a better metabolism, a better budding of eyes and shoots and a higher chlorophyll production, (this is of great importance for cultivating with artificial lightning).

This is especially an important product for mother plants and cuttings. In case of mother plants, Spraymix makes for more shoots and consequently more cuttings. In case of cuttings, spraying with this product makes for vitality and long-lasting green cuttings.

### DOSAGE:

Mother plants: spray once a week with a solution of 15 ml. per litre.

Cuttings: after the first root has grown through the starting plug, spray once with a solution of 10 ml. per litre.

In both cases you should especially spray on the lower leaf surface because there is the majority of the stomata, through which leaves are able to absorb liquids.

[www.bionova.nl](http://www.bionova.nl)



You decide  
which way to grow!



BASIC

DEDICATED

PROFESSIONAL

From just plain simple to highly sophisticated, all Bio Nova ways are incredibly effective.

Would you like to grow things, but lack a green thumb? No problem! Use **The Basic Way** and be overwhelmed by the success of your effortless input!

Are you a passionate grower who wants high quality? Use **The Dedicated Way** of growing, it will blow your mind!

Or are you that perfectionist, who knows exactly what he is doing and why? **The Professional Way** will be your path to ultimate satisfaction!

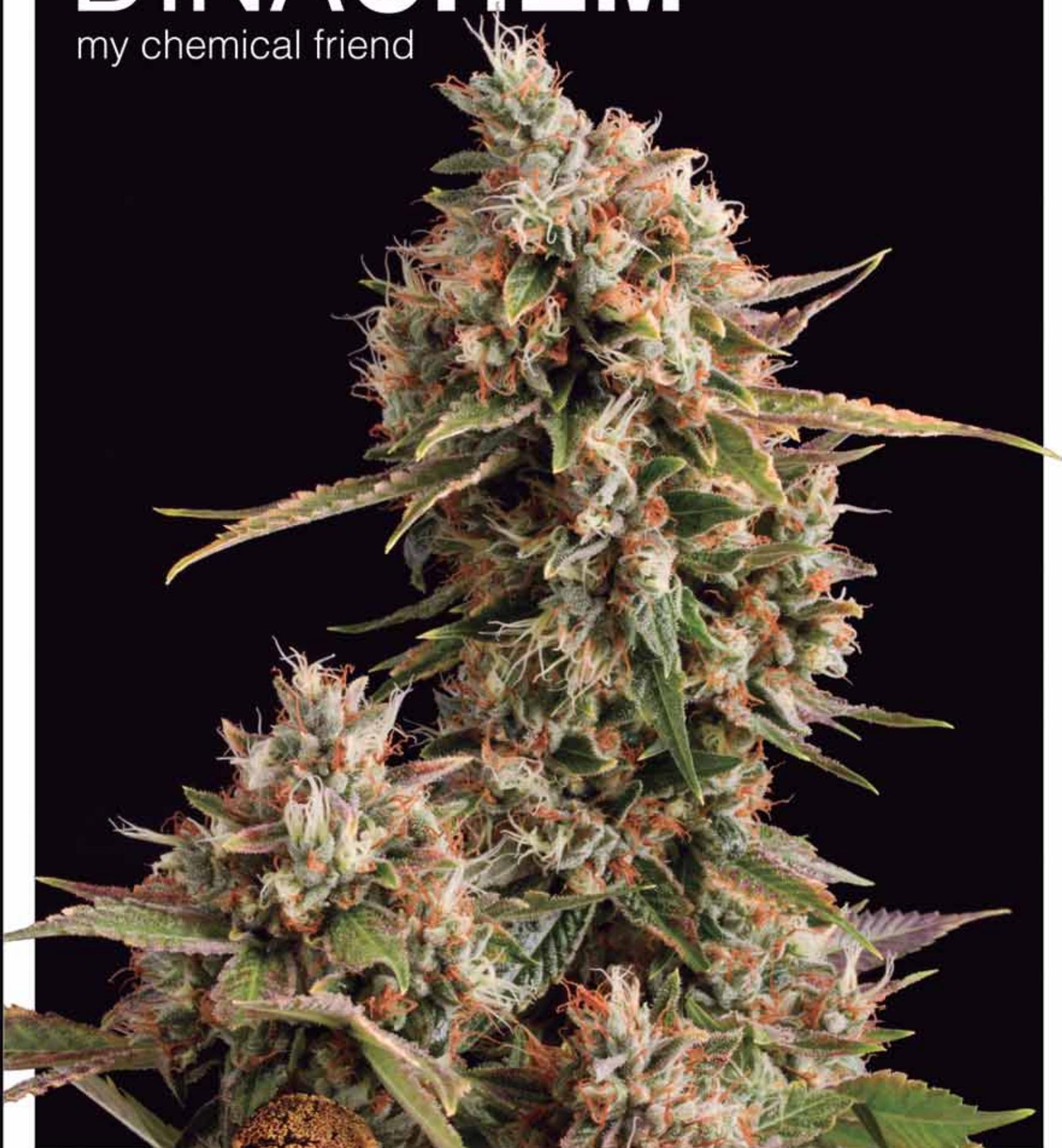


[www.bionova.nl](http://www.bionova.nl) | Distributors United Kingdom:  
Mariner Packaging Company Ltd. - Progrow Scotland

Your green companion in every way!

# DINACHEM

my chemical friend



## DINACHEM

**It is the legendary ChemDog strain, but in feminized seeds.**

Dinachem is the result of the work between Dinafem and ChemDog. The breeder, ChemDog, sent us a batch of GuavaChem seeds, a ChemDog descendant that the breeder backcrossed and stabilized for years. We have crossed these GuavaChem seeds with an original ChemDog clone to create Dinachem.

A plant with an unique flavor. It tastes like lemon with gasoline, it's also very potent, and for a long time it has been among the top 10 bestsellers in the USA.

This is our first collaboration with one of the best American breeders, and we hope you will like Dinachem's unique flavour as much as we do.



[www.dinafem.org](http://www.dinafem.org)

More about the brand new Dinachem at Dinafem website. Pictures, videos and more.

# Going Potty!

Growing with pots and soil is a great introduction to indoor gardening; it's a cheap way to get started, soil is pretty forgiving when it comes to under or overfeeding and there's no need to mess around amending the pH of your feed, as the soil will buffer it for you.

It's pretty straightforward for a new grower to get their head round the watering schedule for their plants, if the pots feel light it's time for a water, if the pots feel heavy, just leave them for a couple of days – it's not rocket

potting up and just plant straight into my final pot? In theory, this is possible, particularly if you only wish to grow small plants or you are growing auto-flowering plants – which will begin flowering after a couple weeks growth.

It's worth mentioning at this stage that you should avoid re-potting plants that are flowering. When a plant is flowering, it should be directing all available energy into producing flowers, not roots or new leaf growth. Its root zone – its foundations – should already be

'Pot bound' refers to when the roots of the plant have filled the pot completely, become incredibly tight and begin to grow into each other. The amount of available oxygen in the root zone will decrease and plant will basically stop growing. A slow-down in growth is one of the first indications that you need to pot up.

The second indication will be yellowing leaves. Most growers understand that yellowing leaves is a signifier of underfeeding and increase the dosage of nutrients when they next water, and in the majority of cases this is correct. However, when your plant is pot-bound there is simply not enough space left in the root zone for new growth and the root system is struggling to sustain the existing growth. This can be rectified by more frequent feeds, but it is easier to just pot up.

- The final pot up; if you're growing bigger plants and want to finish them in a relatively large container, you'll want to do a third pot up and let them fill this final container before switching them to flower.

Remember that to get the most from your pot; you want the roots to fill the pot before you switch the plants to flower. Otherwise, you are just wasting growing media.

How soon you want to flower your plants is a major consideration when deciding on your final pot size and how many times you'll need to pot

## PLANTS ARE PRETTY GOOD AT TELLING US WHEN THEY ARE HUNGRY AND NEED FEEDING

science! Plants are also pretty good at telling us when they are hungry and need feeding or, on the flip side, if we are feeding them too often and killing them with kindness!

established by the time you switch to flowering. The stress of re-potting will also have a detrimental effect on the yield of the plant.

Knowing when and how to re-pot a plant can be confusing, but once you get your head around why you need to do it, then it all starts to make sense.

Potting a small plant into a very large container will slow its growth for two reasons;

1. It will focus its energy into producing roots to fill the available space in the container, rather than focusing it upwards producing leaves and branches, so the plant will spend time growing down instead of up.
2. When you water a large pot with a small plant in it, the media will stay wet for a long time. This is because there are not enough roots in the container to uptake all the water and nutrient. The saturated media will contain less oxygen, which further slows growth.

### Why pot up?

If you are new to growing in soil and pots, you may well be asking yourself, why don't I save myself the effort of

After yellowing leaves, the final – and most obvious – signifier is that leaves will start to die off. If your plants get to this stage there is clearly something wrong and the roots are choking out nutrients.

### When to pot up?

When re-potting a plant, the size of container you choose will be dependent on how many times you want to re-pot throughout the growth cycle, how soon you want to flower your plants and how large you want your plants to grow.

For a regular growth cycle – around 12 weeks – you probably won't want to pot up more than two or three times, that is;

- The first pot up; placing the starter cube into a small 10-15cm pot – some growers even plant seeds directly into these small pots and place a plastic bag over the top to act as a mini propagator.
- The second pot up; once the roots of the young plant has filled the starter pot they can go into the next size up – anything from a 3 litre to 11 litre pot – for many growers, this will be the final pot that they flower the plant in.



Inoculate you media with a mycorrhizal at every stage of potting up

up. Obviously, every grower is aiming for maximum yields, but you need to decide if you want to achieve that yield by growing lots of plants and switching them to flower quickly – which will keep them small – or, if you're aiming for large yields from each individual plant.

If you want to do the latter, then you'll need a longer vegetative period and larger pots. Think of the vegetative period as the time to build the foundations of your grow, because once you switch to 12 hours of light to flower the plants, they will stretch and then you'll want to pretty much stop root and leaf growth and divert all their energy into producing flowers. The size of the flowers that



Inoculate you media with a mycorrhizal at every stage of potting up

# H2G

## HYDRO 2 GROW

HYDROPONICS IN SUTTON  
OPEN 6 DAYS A WEEK 9AM - 5PM

299 GANDER GREEN LANE  
SUTTON, SURREY, SM3 9QE  
UP THE ALLEY NEXT TO  
THE GANDER PUB

020 8644 3780  
SALES@HYDRO2GROW.CO.UK  
WWW.HYDRO2GROW.CO.UK

CANNA - FERRO - DUTCH PRO  
HOUSE & GARDEN - HYDROTOPS (ORIGINAL)  
GAVITA LIGHTING - IWS - RHINO - ACOUSTIC FANS

PLUS EVERYTHING ELSE YOU NEED  
FOR THE PERFECT GARDEN

they produce will be relative to the foundations built during the veg period.

## What to pot up into?

Unlike your local garden centre, your

Whether you go for a square or circular pot is really down to personal preference (and what they have in stock at the time), square pots are more space efficient as they can be placed next to

gress is halted. This causes the root to put out secondary roots, which in turn reach the side of the pot, are air pruned and put out their own secondary roots. So, a larger root mass is created, which

because of the additional exposure to the air. Couple this with the fact that – if the air pruning pot is doing its job – there will be an abundance of roots in the pot (increasing uptake) and you will find yourself watering your plants more often.

**IT'S A GOOD IDEA TO PUT A SMALL LAYER OF CLAY PEBBLES INTO THE BOTTOM OF THE POT BEFORE YOU ADD YOUR SOIL**

local grow shop is unlikely to stock ceramic or metal containers. That is because these containers can leach substances when they become wet and this can upset the balance of nutrients in the growing media, they also tend to have pretty poor drainage – particu-

each other with no wasted space. If you are going for a large container – over 18 litres – then these are usually only available in circular sizes.

One fairly recent addition to the market are air pruning pots. These are

means greater nutrient uptake and faster growth.

Air pruners are available in a few different variations, each with their own pros and cons; the air pots come flat packed and are easy to transport – and conceal

## How to pot up?

The first thing to do when re-potting a plant is to ensure there is adequate drainage in the container. Poor drainage will cause the media to become water-logged (saturated); this reduces the amount of available oxygen in the



Root pruning pots provide a larger root mass than regular pots



A healthy looking rootball, ready for potting up

root zone, which will slow growth. So the water needs an escape. Most pots available from grow shops come with several drainage hole in the bottom.

It's a good idea to put a small layer of clay pebbles into the bottom of the pot before you add your soil. This will provide an extra level of drainage and will prevent the soil at the bottom of the pot from sitting in the runoff after each watering and becoming saturated.

Next, remove the existing pot from the plant by gently sliding it off, taking care not to damage the roots. If you have left the plant in the pot for a little too long or if you are re-potting a mother plant that has been in the pot long-term, you may need to loosen off some of the roots.

If the roots are not freed, they may continue to circle, instead of reaching out to the new soil and will slow down the growth of the plant.

Fresh soil should be placed in the new container on top of the layer of clay pebbles, keep filling and then use your hand or a scoop to make a hole for the plant. If you're using an inoculant in the soil, like mycorrhizal granules, then sprinkle a good layer into the hole before adding the plant.

The plant goes in and soil is added around, until the container is full to the brim. You can then pat the soil down, to secure the plant in place. The top of the media will then be about half an inch lower than the top of the container.

Give the plant a light watering and let her settle into her new home. Re-potting will cause some stress so it's a good idea to give a small dose of stress relief like a vitamin booster or nitrogen booster, applied as a foliar or watered in.

Job done!

larly ceramic containers – and this can leave your plants water-logged and

designed to increase the root mass of the plant, resulting in faster vegetative

- but need to be assembled before you use them. There are air pruning pots

**IF THE ROOTS ARE NOT FREED, THEY MAY CONTINUE TO CIRCLE, INSTEAD OF REACHING OUT TO THE NEW SOIL AND WILL SLOW DOWN THE GROWTH OF THE PLANT**

slow their growth. For the best results, it's safer to stick with plastic containers.

Plastic containers are fairly low cost and come in a variety of different colours – the cheapest usually being black. It can be tempting to head down to your local garden centre and pick up some really cheap terracotta circular pots, these will certainly do the job, but I've always found that they crack easily and can't be used again. Personally, I prefer the more heavy duty black plastic pots that can be used for a good few grows – as long as you can be bothered to clean them! And, as a side note, it's nice to support your local grow shop by getting your pots from them.

growth and, ultimately, larger yielding plants. Air pruning pots have perforated sides which expose the tip of the



Don't let your plants get pot bound!

made out of soft fabric material, which are great because they're easy to conceal in a bag when you're walking out of the shop, but - being practical - they can really only be used once as the roots grow into the material and need to be scraped out once the plant has been harvested.

A good compromise are the root pruners that are shaped like a circular pot with slits cut away in the sides of them. These can be stacked like a regular circular pot and certainly work as well as the other air pruning pots out there. Again, it's all down to personal preference and experimentation.

One thing to bear in mind with all air pruning pots; is that the media in the pot will tend to dry out faster than it would in a regular 'solid sided' pot

When you visit your local grow shop, you'll be faced with a wide range of containers of varying sizes and shapes.

root to the air when it reaches the side of the pot. In a regular pot the root would simply circle round the side of the pot, but in a pruning pot its pro-

# Oaxacan, Angola Red and Red Lebanon

*Kali Mist*



The mountainous, rugged countryside around Oaxaca allows hardy Cannabis plants to thrive where most crops fail (Photo: Arcadio Buenaluna)

In this issue's guide to Endangered Strains we'll take a look at two landrace sativas, the Angola Red and the Oaxacan Highland of Mexico – and for the first time, we'll talk about a renowned type of hashish, the Red Lebanese. All hail from parts of the world thrown into turmoil in recent years by the War on Drugs, with the traditional means of cultivation disrupted and distorted until the original and sought-after varieties have been all but lost.

The Oaxacan Highland pot – often known as Gold despite the beige hue to the buds (and the red calyx tips!) – used to appear fairly regularly in the US market. It was known for its strong, psychedelic high and sharp-sweet taste and smell, as well as its tall, conical growth pattern and tendency to go hermaphrodite. While the pot has all but disappeared here in the domestic market, specimens still grow in Mexico, dotted around the landscape of the hills surrounding Oaxaca City. It usually grows to around twelve feet – quite tall for a highland variety – and its propensity to grow long, strong lower branches gives it its characteristic Christmas tree shape. The leaves are somewhat wider than many other Mexican strains, such as the Guerrero or Michoaca varieties, and the flowers are often densely surrounded by small, resinous leaves. The seeds of these and many other Mexican strains are larger, lighter in color and less mottled than most sativas of the central and south American regions.

Occasionally a few seeds thought to be original Oaxacan Highland sativa make it through, and as a result a handful of hybrid strains have been created and are available currently, such as the Eldorado from the Sativa Seed Bank and Niagara from Dr. Greenthumb. However, the likelihood of new seed stock getting through in future is ever decreasing. The level of drug-related violence in the Oaxaca region is so high that strain-hunting forays are not undertaken too often – to say the least. Added to this, the introduction of new hybrid genetics to the region has led to dilution of the lineage, as with so many other great strains, and pure examples are ever scarcer. The increase in seeds with a greater degree of surface

mottling, perhaps due to introduction of Colombian genetics, is thought to be evidence of this ongoing hybridization.

In Lebanon, much of the nation's hashish production occurs in the Bekaa Valley region, which has long been controlled by cartels operating in open defiance of the law. Cannabis has been cultivated in the valley for centuries if not longer, and production often peaks at times of war and civil unrest – such as the years of civil war between 1975 and 1990, when many poor farmers made fortunes in a few short harvests. In peacetime the police and army routinely join forces, confronting the issue (and sometimes, hostile and well-armed militias) by destroying crops en masse – which is not only damaging to the local economy and the livelihoods of many, but is incredibly destructive to the



A sample of Red Lebanon hash, straight from the Bekaa Valley (Photo: KWT Stoner)

landscape, often left sparse and barren after the raids. One persistent issue is the need to invest heavily in the region's rural development: the initial programs began in the 1990s, with the aid of the United Nations Development Program, and the intent to pour hundreds of millions into replacing the Cannabis plantations with legal cash crops. When the promised funds did not turn up, many ordinary farmers were left with no choice but to attempt to grow more Cannabis.

This has been the pattern for many years – there was again some respite for the farmers in the three years following the 2006 Lebanon-Israel conflict, as authorities dealt with the more pressing matter of the war's aftermath, but in September

2009 the eradication recommenced, and have continued every summer since. Many Lebanese support legalization of the industry, believing that a regulated industry would be safer and economically beneficial; others feel that levels of violence and corruption are so entrenched that a heavy-handed approach is needed to eliminate such problems once and for all. The powerful families and gangs that make up the cartels constitute a powerful political voice in their own right, and many politicians resist implementing too-harsh policies in the fear of losing office, or worse, personal safety.

The hash itself comes in two forms – Yellow, which is from younger plants and has a cerebral effect due to the high THC and low CBN characteristic of harvesting at this stage; and Red, which is from more mature plants, has a higher CBN content, and closely resembles Moroccan hashish (but produces a more 'stone' effect). The plants are usually stretched out to dry in the sun before being shaken over fine mesh to catch the trichomes, and the result-

The gentle slopes of the Bekaa Valley are ideal for growing Cannabis (Photo: jiangkeren)



ing powder is sealed in bags and stored until winter, when pressing will begin. The yellow form is traditionally much rarer than the red; varying qualities of both are produced, with the highest grades being extremely potent.

Since the war with Israel, border controls have been very tight, and much Lebanese hash has been absorbed into the domestic market – albeit with prices suffering due to the surplus. Internationally, it is difficult to source even small quantities of good, fresh Lebanese hashish, although poor imitations abound – often from Turkey, which produces similar hashish from related varieties of Cannabis, but is generally considered to be inferior.

Another country where cultivation of Cannabis has been a means of subsistence for centuries is Angola in south-west Africa. The sativa landraces that grow here are widespread in the central highlands and the north-east of the country and were established prior to the Portuguese occupation, which began in 1575 and officially ended in 1975. Prior to independence (and the subsequent civil war) ships that came to the harbor at Luanda, the nation's capital and an important trading port, could freely buy Cannabis from local traders. It seems that early Portuguese settlers may have assisted its rise to fame by transporting it to the New World; the Angolan slaves uproot-

ed and transported to the plantations in this time may also have taken covert supplies with them. It is highly possible that many of the famous Red strains of central and south America are in fact descended from the Angola Red.

Despite the illegality of Cannabis in Angola, farmers have managed to produce crops quite consistently over the years, although here, as in Lebanon, they face the constant possibility of their crop being discovered and burned by army- and police forces. Balombo district, on the north-eastern coast of Angola, recently saw seizures of 3,500 plants in a small village called Ngolo – a significant blow for a country whose total production is rarely large enough to satisfy anything more than the domestic market. It has been noted that the occurrence of red phenotypes has massively decreased and perhaps ceased entirely, as genetics begin to be introduced from elsewhere to supplement the losses suffered during police actions. Farmers in nearby areas, such as the Huíla province, where traditional knowledge of the properties of Cannabis has been documented among the local tribes, have been able to so far ensure that some cultivation still occurs. However, anecdotes suggest that green phenotypes pervade, and no-one really seems to know if the Red still exists.

Although Angola's small Cannabis industry is largely deemed insignificant by the authorities, the nation's importance as a drop-off point for cocaine has led to a crackdown on the drugs trade in general. Due to the lack of surplus harvest for export, not much Angolan Cannabis gets through to other countries (except occasional small quantities to Namibia), and the original Red is in grave danger of being truly and irreversibly lost – if it isn't already!

The Cannabis trade in southern and central Africa is often violent and steeped in politics. As factions in the nearby countries of the Democratic Republic of Congo and Congo continue to war over control of production, Angolan authorities do not wish to appear lax as they fear the violence will begin to encroach on home ground. Although production of Cannabis is unlikely to cease altogether, the ongoing difficulties experienced by Angolan growers are so great that a historic strain may have become extinct. Without question, if any specimens of this strain are found in the future they must be preserved to ensure the lineage does not die out. Yet again, the international pot community must wait to see whether or not the powers-that-be – in Mexico, Lebanon, Angola and in the world in general – will finally wake up and real-

Ships visiting the harbor at Luanda could freely stock up on Cannabis (Photo: OneVillage Initiative)



ize that the continual interference in these age-old Cannabis industries is pointless and damaging, and ultimately destined to fail.

www.grassomatic.com



# Grass-O-Matic Makes the difference!!!

✓ ORIGINAL

- 1 seed
- 3 seeds
- 5 seeds
- 10 seeds



## auto-AK 100% Autoflowering female ♀

Genetics	AK-47 x Lowryder
Type	100% auto-flowering hybrid
Sex	feminized
Height	50 to 80 cm.
Flowering	automatic from the third week
Harvest	70 days after germination
Yield	40-100 grams per plant
Habitat	Indoor, outdoor, greenhouse

- 1 seed
- 3 seeds
- 5 seeds
- 10 seeds



## MaxiGom 100% Autoflowering female ♀

Genetics	Auto (Critical) MASS x Auto AK
Type	100% auto-flowering hybrid
Sex	feminized
Height	80 to 150 cm.
Flowering	automatic from the fourth week
Harvest	within 75 days of germination
Yield	50-120 grams per plant
Habitat	Indoor, outdoor, greenhouse



- 1 seed
- 3 seeds
- 5 seeds
- 10 seeds



## auto-Mass 100% Autoflowering female ♀

Genetics	Critical Mass x Lowryder
Type	100% auto-flowering hybrid
Sex	feminized
Height	60 to 90 cm.
Flowering	automatic from the third week
Harvest	65 days after germination
Yield	35-70 grams per plant
Habitat	Indoor, outdoor, greenhouse

- 1 seed
- 3 seeds
- 5 seeds
- 10 seeds



## SugarGom 100% Autoflowering female ♀

Genetics	Brazilian Sativa x Auto AK
Type	100% auto-flowering hybrid
Sex	feminized
Height	50-120 cm.
Flowering	automatic on the fourth week
Harvest	within 75 days from germination
Yield	40-100 gr. per plant
Habitat	Indoor, outdoor, greenhouse

NEW!

Growryder  
DISTRIBUCIONES

Valencia, Spain / Tel. 96 351 38 51 / info@growryder.com  
Worldwide exclusive distributor

# Geeky Ganja Gardening

**Growing marijuana is part art, and part science. In some ways, gardeners are very artistic; like a conductor in front of an orchestra they guide their plants from the start to harvest, listening for off notes signaling something isn't right. On the more scientific side, there ways to take the right sorts of notes to show how productive a garden, and a couple of pretty simple math bits than can be helpful.**

*Grubbycup*

The simplest form of record keeping, is simply what varieties were grown. Which strains have you tried, and which are your favorites. When sitting down and making a wish list for the season, it's helpful to know which varieties you've



tried. For instance I've had good luck in the past with Blue Widow, which is a White Widow and Blueberry cross, so I know when I'm looking around, to at least take a look at those crosses, even if they are named something else like Berry White, or Blueberry Widow. When looking for new varieties to try, you can try something similar to a known favorite, or intentionally try something completely different than you have in the past.

A somewhat more labor intensive and scientific bit to record, is how much was harvested. For example, 57 gram (2 ounces) of Purple Lady, or 170 grams (6 ounces) of Super Critical Haze.

Even if individual plants aren't tracked, calculating how much each plant averaged is simple, just divide the amount harvested by the number of plants. If two Super Critical Hazes produced 170 grams, then they averaged 85 grams (3 oz) apiece (170/2 plants).

This information can be used the next planting season when selecting how many seeds to plant. If the goal is to have 8 oz of smoke at harvest, and your garden tends to produce 2-3 oz per plant, then that would be 4 plants taken to harvest.

If using standard seeds, about half will be male so double that number to 8. I recommend planting a couple more as a safety net, as extra plants or harvest tends to be a easier problem to solve than not having enough.

Speaking of standard seeds, to figure out how many standard seeds you need to plant to get at least one female can be important when ordering from seed banks, it is all probability:

A single seed has two possibilities, either to be male of female. An approximate 50-50 chance of being female (the odds are actually better than that, but to keep it simple).

Two seeds have four combinations: MM,MF,FM, FF. Since 3 out of 4 of those combinations have a female plant in them, and 3 divided by 4 is .75, there is a 75% chance of one of them being female.

Three seeds have eight combinations: MMM, MMF, MFM, MFF, FMM, FMF, FFM,

Four seeds have 16 combinations, 15 of which include a female for 93.7%, Five seeds 31/32 for 96.8%, Six is 63/64 for 98.4%, Seven is 127/128 for 99.2%. Eight is 255/256 for 99.6%. Nine is 99.8%. Finally ten seeds will result in at least one female 1,023 times out of 1,024 for 99.9%. This is one reason why a standard breeder pack has at least ten seeds.

For expert level Gentle Readers, here is a tip: Gender and Mendelian genetic traits occur as one of two states, which make them very well suited for binary mathematics.

In a nutshell, about half the plants will be female, so sprout at least twice as many. To hedge against bad luck, plant a few more. To hedge against really bad luck, plant 4 times as many. If the universe hates you, plant ten times as many.

Outdoor gardens can compare growing season to growing season easily. Harvests can be compared year to year. Even climates which allow for a spring and fall harvest can be noted as simply as Spring 2012 and Fall 2012 with variety names and harvest quantities.

Indoors, seasons are a bit more arbitrary. Summer and Fall are set with lighting timers and other environmental controls. Short dark periods (six hours or less is common) mimic the long days of summer, and long dark periods (usually



eral months depending on how long the plants are kept in growth, and how long the variety requires to flower.

To account for these differences, a time factor can be included into the calculations. Grams per day (GPD) allows for plants of different growing periods to be compared. Take the planting date and subtract the harvest date to find the number of days between. If plants were started 5-23-2012, and harvested 9-29-2012 the season would be 130 days (9 days left in May, 30 days in June, 31 in July, 31 in August, and 29 days into September).

If the Purple Lady example were used, then it's average weight of 57 grams per plant could be divided by the 130 days it took to grow them, to show a GPD of .438 (57 grams/ 130 days = .438 grams per day).

In the Super Critical Haze example, if it instead didn't ripen until sixteen days later on October 5th. Then the 85 grams would have taken 146 days. That would give a GPD of .582 (85 grams/ 146 days = .582 grams per day).

A common practice in indoor gardening is to introduce plants into the flower room at the rate of few per week or two, so that the harvest is spread out over a longer period of time. This is especially common in personal grows, where it can produce small amounts for consumption every couple of weeks. By tracking individual plants, they can be compared against an overall average and in that way performance can be tracked quantitatively.

In an outdoor garden, day efficiency concerns have more to do with working around the seasons. Having plants with enough growth before flowering starts, getting a short enough flowering strain to harvest before the weather turns foul, etc. Indoors however, lighting generally causes a higher operating expense, and each day of electricity is a cost. Indoors, GPD is a valuable tool in comparing the efficiency of the grow (although art is still required to judge the quality of the flavor and effects). Production isn't the only factor to consider, preference and quality should also be taken in to account. If the flavor of a poor producer is preferred, then more plants may be needed to meet harvest goals.



FFF. Since 7 out of the 8 combinations result in a female plant, and 7/8 is .875, or 87.5%.

twelve hours or so) reproduce fall lighting. Indoor growing seasons may be as short as a 9 weeks, or or extended to sev-

Although the finer points of rating a plant are largely artistic and subjective, responses don't have to be. To set up a simple double blind test, first take opaque identical containers for each variety to be tested. Write the name of the variety on a piece of paper, and seal in an unmarked envelope. Put the sealed envelope into the container, with the matching cleaned weed. Either mix up the containers until you know longer know which is which, or have a friend do it for you. Mark each container with an arbitrary number or a letter. While smoking from each, keep track of reactions from the weed from each container. Questions should include "Which do you like the best: A, B, or Can't Tell?" and "Describe the flavor of each". Record and tally the results from each participating tester. Since the envelopes contain the real identity of each container, after the tests have been completed, the envelopes can be opened in turn, and associated with their letter.

Individual plants with high production rates are often particularly good candidates for breeding. Although production should not be the only factor in selecting

for sure, test a few plants using each nutrient. Record the nutrient expenses used to grow both sets, and calculate the GDPs at harvest. Not only should

techniques is shown to improve then consider keeping the change. If it doesn't, consider discarding it and returning to previous methods. Improvements to the garden should result in documentable improvements in production or quality to be cost effective.



Media choices can be another concern, single use media is good for hygiene, but it is a larger recurring expense than reusing media. To find out how much, take the total expense for the garden during the grow, divide by the number of days in the grow, and compare to the GDP. Obviously the expense rate should be less than the value of the harvest, or serious changes are in order.

Why go to the trouble of a blind (or in this case double blind) test? Because humans



parent plants, as long as there is not a reduction in quality, quantity is often considered a desirable trait.

the more expensive nutrient produce more, but enough more to cover the additional expense in order to be worthwhile.

While only the most avid of gardening geeks may calculate every plant in the garden, this type of information can be valuable when comparing successes, and determining the value of a change in the garden. By comparing production rates before and after a change, improvement can be compared to cost, and future plans fine tuned accordingly. The benefits of home grown vegetables include peace of mind, and knowledge of the conditions that the food was grown under, but that doesn't mean that they can't be grown with a nod to efficiency and expense concerns as well.

Once the base rate of production is calculated, it can be used in conjunction with other pieces of data for a variety of useful purposes: nutrients, growing medias, and other expenses can be taken into account.

The same can be calculated for electricity and lighting costs. An examination of your electric bill should tell you at what rate you are charged for electricity, and that can be used to calculate how much your cost is per day to run the lights. Each additional 1000 watt light adds 1 kilowatt hour in electrical expense, not to mention the cost of the equipment and bulb replacements. If a change in gardening

Peace, love and puka shells,  
Grubbycup

A little math comes in handy when making nutrient selections as well. The NPK listing on nutrients indicate the percentage by weight of Nitrogen (N), Phosphorous (P) and Potassium (K) (to be picky, the P actually indicates how much equivalent phosphorous pentoxide, and the K how much equivalent potassium oxide, but most of the time that makes little to no difference).

are very suggestible, and some variety names sound better than others. Weed labeled "top shelf" tends to influence the reactions of the people that smoke it. Relabeling the smoke into something boring helps minimize the influence. If possible, the person handing out the weed shouldn't know either, as their behavior can have an influence as well, which is why the envelopes and identical containers are important.

What this means, is that a nutrient solution made with a fertilizer with a value of 5-0-0 that is applied at 15 ml a liter should have the same nitrogen content as one with a value of 15-0-0 applied at 5 ml per liter. It is the final amount of nitrogen in the nutrient solution that counts, not how concentrated the original nutrient was.



The GDP for the whole garden or each individual plant can be calculated and compared

When deciding which to use in the future, it will come down to whether nutrient B is worth an additional twenty cents per treated liter. To find out

**For everything but the ladies....**

*The No.1 Hydroponics Store*

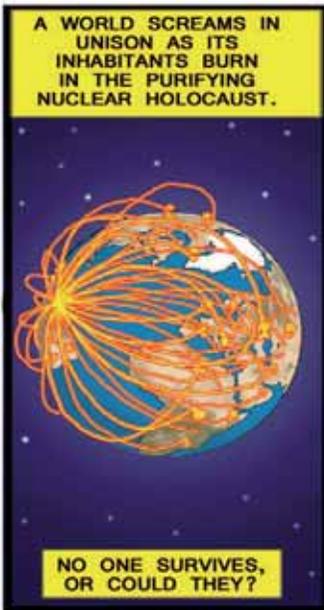
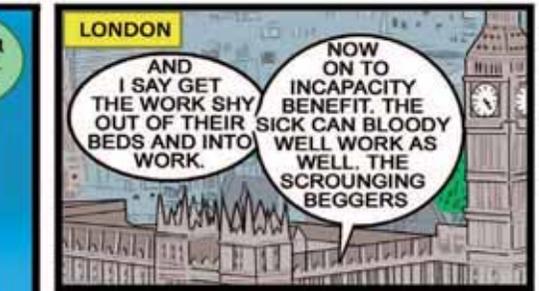
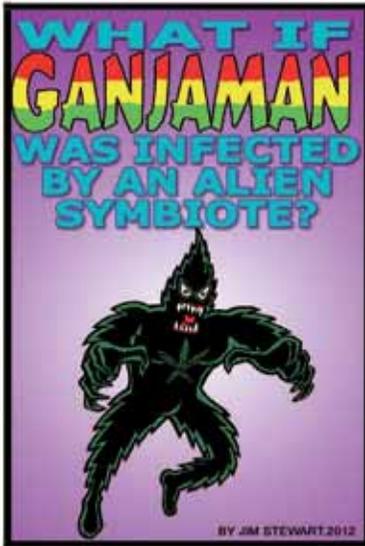
**BRIT CROPS Hydroponics**

[www.britcropshydroponics.co.uk](http://www.britcropshydroponics.co.uk)

**Unit9 Oj's Industrial Park  
Claybank Road  
Portsmouth  
Hants, PO3 5SX  
02392 669111**

**Use Discount Code SSAA  
For 5% Off Your Next Order**

IN A WAR AGAINST THE KILLER WEED, HEADS MUST ROLL.



\*\*\* AMSTERDAM \*\*\*

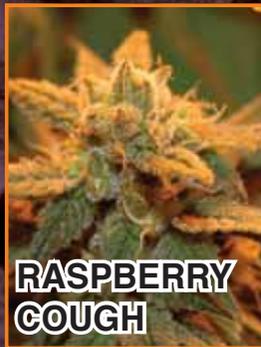
# NIRVANA

\*\*\* Guaranteed Quality \*\*\*

## Nirvana Sativa Seeds

Blackberry  
BlackJack  
Eldorado  
Full Moon  
Hawaii Maui Wau  
Haze #13  
Jock Horror **AUTO**  
FLOWERING  
N.Y.P.D. *New York Power Diesel*  
Raspberry Cough  
Royal Flush  
Sterling Haze  
Urban Poison

  
**100%**  
FEMALE SEEDS



**ALL STRAINS IN NATURALLY OCCURRING  
AND 100% FEMINISED SEEDS!!**

[www.nirvana.nl](http://www.nirvana.nl)



# Cannabis Contradictions

by Lazytrain

There are many contradictions in the Cannabis World. There are Coffeshops that do not sell coffee. There is jelly-hash which looks nothing like jelly (Americans again). There are Afghan-Skunks called "Cheese" and there are Cheese-clones that have never seen the bright-side of Luton.



In Europe, there are Activists advocating "legalisation" over "decriminalization" while my fellow cannabis suppliers sit in jail (?) There are big seed breeders doing very little these days, and small home breeders cultivating major crops. Then there is lots of money, the people-hours, litres of fuel, and plastic packaging used to transport cannabis/hemp seed all over the globe - when similar seeds could be as easily cultivated for free at home. There are even some horti-canna companies that no longer wish to be "associated with cannabis" (!)

Indeed the Cannabis World holds many contradictions. Every so often, it is worth experiencing "a moment of clarity" just to take stock of what is really happening out there. This report will look at the reason(s) why (or why not) people cultivate cannabis today and why people will not be allowed to grow certain varieties of Cannabis in future.

## Why aren't some people allowed to grow certain plants?

When posed with such a simple question, it seems silly (and disrespectful) to suggest that any plant would be restricted or forbidden from growth. The bureaucratic term for such action would be 'withdrawn from availability', while the legislative term would be 'available under licence'. Either way such plant-species have been 'banned' from the gardens of landowners and the general public.

When Richard Mabey, one of the UK's most famous Herbalists (author of 'Food For Free') applied to the British Home Office for a licence to grow a patch of (low THC) Cannabis, on the land it had occupied two centuries earlier, for historical purposes. It was made clear that: "Home-growing was precisely what leg-

islation was meant to prevent." Mabey concludes in his book entitled 'Weeds' that; 'an ancient fear forbidding plants which could contaminate the soul, as well as the earth, is present in reinforcing the idea that plants (like Cannabis) should be kept well away from humans.'

The hypocrisy in allowing only select Farmers and Smallholders which carry full Government approval to cultivate Cannabis sativa extends way beyond the limitations of the genus Cannabis itself. If we were to view Cannabis as an example, of how other plants might be withdrawn from human intervention (and consumption) in future, then we might wake up one day to find illegality in cultivating tomatoes or potatoes

**“THE REAL CONTRADICTION IN ALL THIS, IS THAT SO CALLED 'HIPPIES' HAVE NOW SOLD THEIR SOULS TO THE ACCOUNTANTS.”**

at home (?) In fact any plant that the Government deems "harmful to health" could be withdrawn from sale.

## Natural Balance

The often unholy matrimony that exists between humans and plants cannot exist if either become absent from the equation. Just as unbalance can only exist when one side (human or plant) becomes overloaded (too competitive). Natural Balance can then only exist when both

sides are stable or working in coexistence with each other. This is what Botanists and Biologists call "symbiosis". The harmony that exists between Gardeners and Plants (and Fungi) is the result of a symbiotic relationship. A relationship that is instilled into the mindset of any agrarian culture, such as our own. Often as a birthright.

To prevent or even go-against our natural impulse towards farming, contradicts the very nature of our existence as humans. The evolutionary transition from Hunter-Gatherer to Agriculture is still happening within our own ecology and society as human beings. Naturally, we should want to get closer to plants; especially when those plants are intended for feeding or medicating ourselves.

In the most part the role of agriculture has now been entrusted to Farmers, who extensively cultivate food crops and animals on our behalf. Although the majority of people today live in urban environments, many still retain the luxury of a garden. Those areas that do not fall to concrete, usually hold a grass lawn (one

tivity of its crop. However there is often a deeper relationship that exists between both the Gardener and the Plant(s). Much of which is related to routine. Even in the cases where a water boy/girl simply manages the irrigation of a few plants, a relationship will slowly develop, influenced by routine. This is because as a weed-species Cannabis has long since learnt how to manipulate human beings into doing exactly what it wants.

Conversely, the domestication of cannabis has made several cannabis varieties weaker in 'wild-genetics', being less tolerant to outdoor cultivation, pests and diseases. Newer, quicker, auto-flowering varieties also struggle to produce feral off-spring or wild progeny. Meaning most recreational cannabis seeds must be stored (by people), sown (by people), and even bred (by people) to produce viable results in the garden. In fact many cultivated varieties now require total human intervention in order to succeed. Thus contradicting the fact that Cannabis is a 'weed' species at all.

However let us not be tricked into think-

big plant) and/or a flower bed (a selection of plants). Likewise in dwellings that do not have a garden area (apartments and flats) there is often a balcony or window box area specifically designed for plants. In-part, the connection with our agricultural past perhaps explains people's fascination with growing Cannabis plants.

## Manipulation

It could be assumed that Cannabis is grown by people purely for the produc-

ing that seeds planted without instant results will not germinate in future. Seed dormancy is, as yet, an unknown science by both Cannabis Breeders and Botanists. A seed might lay silent for weeks, months, even hundreds of years. Just waiting until climatic conditions, soil depth and orientation favour a plant's individual requirements. The truth is no-one really knows how long seed dormancy in Pansy might last for, let alone Cannabis.

For example, one test with a single Field Poppy (*Papaver rhoeas*) producing 20,000 seeds was abandoned after just three years. Revealing a germination rate of 85% or 17,000 seed in the first year, with the other 15% or 3,000 seed 'bidding time' or laying dormant until germination. The project was abandoned simply because after the second season it was impossible to count the number of seed produced from the surviving off-spring, let alone calculate the number of seed laying dormant in the soil. [see Mabey R. 2010: 'Weeds', Profile Books, London].

It could be the case that the latest and most expensive seed packet that did not germinate properly, the ones that were thrown away with the rubbish or recycled with the garden-waste, are now growing happily beside a compost heap somewhere else. Otherwise the seeds might just be sleeping, waiting until they get moved to a more suitable location. For this reason it is always worth placing the compost from otherwise in-germinated seed trays into a separate plant pot or even outdoor onto a flower



bed. Some varieties actually prefer outdoor germination; especially land-race varieties and land-race hybrids.

plants leaning towards Cannabis indica/sativa 'Skunk' genetics in lineage will produce fewer larger seeds overall. The seeds

call them that to begin with) are already genetically manipulating plant material with the express intention of patenting

On the flip-side, such methods of control, will only encourage Underground

**AS SHORT-SIGHTED AS THE MONEY-MEN (AND WOMEN) MAY BE, THE REALITY IS THAT CANNABIS CULTURE CANNOT BE CONTROLLED OR MANIPULATED IN THE SAME WAY AS THE MAINSTREAM HORTICULTURAL INDUSTRY.**

**Survival in Numbers**

As a rule, plants with fewer flowers produce fewer (larger) seeds, while plants with lots of flowers produce lots of (smaller) seeds. As a result a greater number of smaller seeds will germinate than a lower number of larger seeds in the garden.

Even in domesticated populations of Cannabis this phenomena of "survival in numbers" is evident. For example Cannabis indica varieties which produce seeds in fewer numbers are often more difficult to cultivate. Whereas Cannabis sativa varieties, which by Nature produce a greater number of seeds per plant, are often easier to cultivate, en-mass.

In hybridization, for example when Cannabis sativa 'Haze' crosses genetics with Cannabis indica/sativa 'Skunk' (a classic cross) the resulting off-spring or progeny will produce a variety of results in the garden. Those plants favouring Cannabis sativa 'Haze' genetics in lineage will produce lots of smaller seeds. Whereas those

of which will grow to display not only the characteristics of their parent plants (Haze and Skunk), but also a percentage of the genetics of their grandparents (Colombian, Thai, Mexican, Afghan).

**Plant Patents**

In this way parent plants invest both dominant and recessive genetics into future seed lots. In turn this has allowed Plant Scientists to isolate and manipulate certain characteristic traits using several 'unnatural' horticultural methods. Feminized seeds with colloidal silver is one example. Advancements in tissue-culture (see Dutch Passion) suspended in prill form is another. Although many of these techniques are still some way off in practise, the reality of genetic patenting over Cannabis genetics (seed and clone) is slowly rearing its ugly head over the Cannabis Market.

In Europe, there is little growing doubt, that established "Breeders" (if we can even

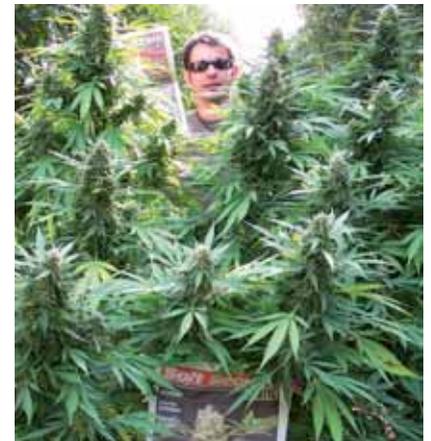
(owning) the same genetics in future. With the use of genetic splicing, prills, and "termination genes" such dreams are rapidly becoming a reality. In future this means that Home-Growers will 'rent' genetics from a breeder; under contractual conditions similar to other avenues within the horticultural industry. At which point Cannabis Culture will become another homogeneous entity, controlled by global corporations and those "breeders" with the finances to employ Lawyers to back them in court.

**The future**

The worm-cast will really hit the fan the day that Sam the Skunkman patents Cannabis sativa/indica 'Skunk #1, for example. At which point any "Breeder" with Skunk #1 genetics in their line (like our buddy Big Buddha), will be liable to pay royalties, or compensation to Sam the Skunkman for the privilege of using his genetics. Since he could simply DNA test any suspect seed genetics, just before following it up with legislation and a court-case. At which point perhaps 80% of the Seed Companies in Europe with genetics based around Skunk #1 will be dissolved or shut down completely by Sam the Skunkman and his lawyers (or the people that he sells the patent no. to). Not forgetting that Sam the Skunkman already works for GW Pharmaceutical in the UK and is already the joint patent-holder (owner) over the mickey-mouse spray Sativex!

The real contradiction in all this, is that so called 'Hippies' (at least that's how they have presented the image of themselves online in the past) have now sold their souls to the Accountants. Simply for a lasting buck on plant genetics. Genetics which, regardless of all the myths, tall stories, and bullshit generated by such people to begin with, were not even owned or procreated by the same "breeders" originally! Contradiction indeed.

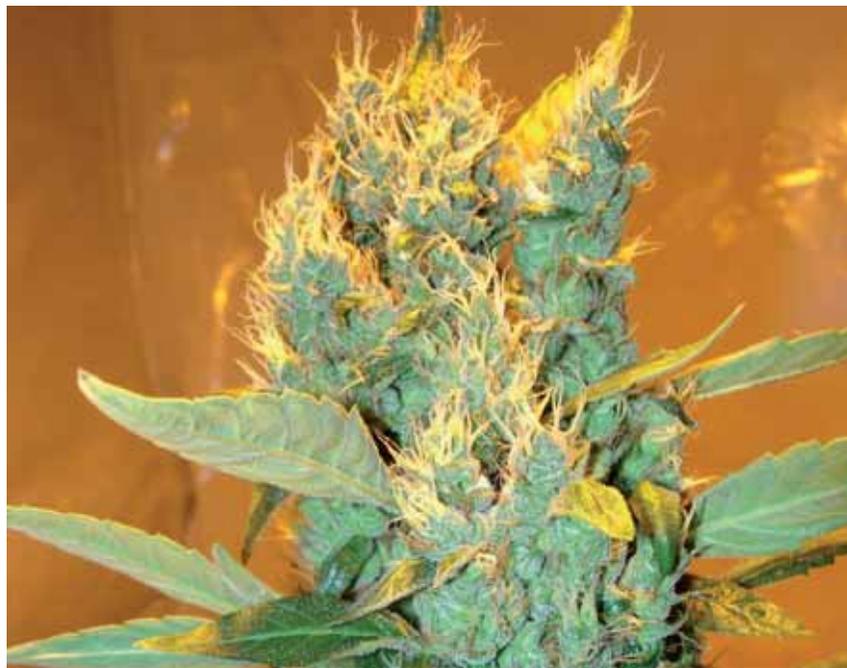
Breeders to produce more and more regular (male and female) seed stocks to compensate for any wrongdoing by their so called contemporaries. As short-sighted as the money-men (and women) may



be, the reality is that Cannabis Culture cannot be controlled or manipulated in the same way as the mainstream horticultural industry. Often because many of us work within both spheres of the complex, have seen the pit-falls, and already hold the genetics, knowledge, and traditional breeding techniques to have already taken sensible steps to counter-act the greed that overshadows Cannabis Culture (in Europe) today.

Why patented genetics may not be sold 'off-licence' in future; for fear of reprisal from some jumped up monkey in Holland (no offence to the monkeys out there), the same seed and clone genetics will no-doubt always remain to be shared for FREE by members of the wider Cannabis Community. Mainly because the majority of "commercial cannabis breeders" out there today are not producing anything new in the way of genetics anyway. To this end, at least a slim glimmer of hope remains...

Keep Medicating!





# Royal Queen Seeds

ALL OUR SEEDS ARE FEMINIZED



**Royal Dwarf**

3 seeds € 15,-  
5 seeds € 25,-



**Easy Bud**

3 seeds € 17,50  
5 seeds € 27,-



**Royal Bluematic**

3 seeds € 23,-  
5 seeds € 35,-



**Autoflowering Outdoor Mix**

3 seeds € 21,50  
5 seeds € 32,50



**Quick One**

3 seeds € 15,-  
5 seeds € 25,-



**Royal Automatic**

3 seeds € 21,50  
5 seeds € 32,50



**Royal Queen Seeds**

**AUTOFLOWERING**

PREMIUM FEMINIZED SEEDS



**Royal Critical Automatic**

3 seeds € 21,50  
5 seeds € 32,50



**Royal Haze Automatic**

3 seeds € 21,50  
5 seeds € 32,50



**Northern Light Automatic**

3 seeds € 23,-  
5 seeds € 35,-



**Royal AK Automatic**

3 seeds € 21,50  
5 seeds € 32,50



**Royal Creamatic**

3 seeds € 20,-  
5 seeds € 30,-

Distributors

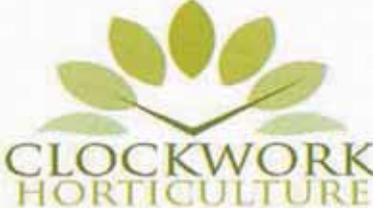


+44-(0)20-85660376   +44-(0)23-92932383   +44-(0)1179-444195

Follow us on Facebook & Twitter and win some **FREE** seeds!

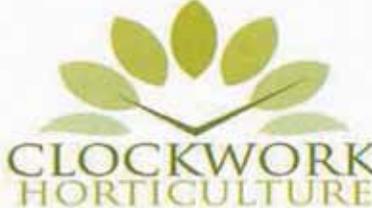
facebook.com/RQSeeds  
twitter.com/royalqueenseeds

WWW.ROYALQUEENSEEDS.COM  
TEL: +31 (0)73 54 79 916  
ORDER@ROYALQUEENSEEDS.COM



Yorksires Premier Grow Shop  
Est 2000

Fully stocked retail premises



*For hydroponics and grow lights we will beat any genuine like for like quote*

We are the UK's number 1 wholesaler for





- .Kills spider mite, larvae and eggs on contact
- .Acts in seconds
- .Zero tolerance build up
- .Indoor and outdoor use
- .Allows plants to flourish after stressful period
- .Saves farmers and their crops

18 spring close street Leeds LS9 8RT  
TEL: FAX 0113 212 7875 - mob 07775 964423  
www.clockworkhorticulture.com

\* PV+ Trade Enquires Only \*

# How to Feminize Cannabis

Sativa Divat

## Make Her an Honest Woman

The Devil's Harvest Seed Company, relatively new faces on the Amsterdam seed scene, were generous enough to share their company secrets and explain how they got started. In this issue of SSUK, the DHSC explain how they utilize the STS method (Silver Thiosulfate) to produce feminized Cannabis genetics, why they do it and how their genetics are received around the world.



The plants are triggered into flower and sprayed several times. After a few weeks, the flowers/hermies begin to show, seen here in the Strawberry Sour Diesel.

### WHY FEMINIZED?

Feminized strains are a hot topic of debate in the Cannabis industry. Some argue that they're the best thing to happen to both small growers and those with huge plots of land to cover; others fear that they may be creating 'zombie weed' due to their unnatural origin. So what makes a seed company decide to take the leap into the feminized realm? For the DHSC, it was the seemingly overnight demand for and rampant popularity of these 'all-female' seeds. That, however, was not the only reason. One half of the company explains:

"I started with feminized in my early days of growing, so I know why people who

"through trial and error, the STS method seems to be the most successful one in the industry, and from talking to many people who make feminized seeds, it appears to be the favorite. It seems to be the most reliable; it works, simple as that." STS is a compound often found in photography labs, the silver in which 'locks out' the copper in plants. Because copper is a required micronutrient, inhibiting it causes 'ethylene signaling', which will repress certain traits, such as gender expression.

### THE PROCESS

"We select between four and six plants, and we take them from a vegetative state into the flowering cycle. When we trigger them under 12 hours of light, we

**OUTDOOR GROWERS GET THE BENEFIT OF MAXIMIZED SPACE; FOR INDOOR GROWERS, THE BENEFIT IS NOT HAVING TO KEEP A COLLECTION OF MOTHERS AND CLONES – AND CONSTANT STORAGE.**

are just starting need feminized seeds: lack of space; new flavors every few months, rather than the same, boring flavor for the next 12 months. Outdoor growers get the benefit of maximized space; for indoor growers, the benefit is not having to keep a collection of mothers and clones – and constant storage. Also, they don't have to maintain a library, which is fucking hard.

"The third reason: just because it was a new thing that everyone thought would solve all their problems. But you realize when growing with feminized that they don't help you to develop your skills; it just allows you to grow something once, and to recreate something new every three months."

While checking out a variety of feminization techniques, the DHSC found that,

spray them while they're in their dark period with a heavy dose of STS formula. Basically, five milliliters to every one liter of distilled water. When they're sprayed, we give them a 15-minute break period, then we spray them again – typically over six plants, we'll use about four liters of distilled water (with STS formula mixed in). It's kept refrigerated.

"Then, once we spray, we allow the hormones to trigger, and the onset of flowering will begin. Five to six days afterward (depending on the strain and the quickness of flower) we spray it again with about three-and-a-half to four liters of distilled water mixed with STS formula. Fifteen minute break, and then we spray them again with the same dosage. Then, seven days from that point, we spray them a third time with a very heavy dosage, and we'll use up to six



## GROW LEDS



High performances, friendly price!

## HPS-MH

## CFL

90.000 LUMENS AT A VERY AFFORDABLE PRICE  
ASK X QUOTATION [info@phytolite.com](mailto:info@phytolite.com) | Resellers Wanted

[www.phytolite.com](http://www.phytolite.com)

liters of a mixed STS formula. On that three-week period, the plants have fully-induced into flower, and then we begin to see the onset of hermaphrodites starting to occur.

“From that point we take female clones that have already been pre-vegged,

best nutrients we can, the best medium. We don’t do it for flavor, but we provide it with some guanos and some of these basic, organic composts to allow it to naturally grow, to give you a harder, solid shell on your seed. It’s about giving you really good seeds that will last long-term in storage.

## HERMAPHRODITES

Mixed-gender plants can ruin entire grow rooms. So how do the DHSC combat hermaphroditism? “By selection of good clones that originally have been around here so long – long before feminized seeds – and they were grown from original genetics, so we know 100% that

We hope that the hermaphrodites are a very minimal problem.”

## HEALTH CONCERNS

Hermaphrodites are one issue, potentially causing the loss of the rent payment for months to come, as well as potentially contaminating your growing/flowering space. However, the health concerns associated with the production of feminized seeds should be more worrying. A question that frequently arises when debating the matter is whether people or the plants themselves are harmed as a result. The DHSC warns: “It’s definitely dangerous to your own health, because that stuff, it’s the same as in rocket launchers, and when you breathe it in.... The silver that’s exposed, when the troops inhale it, they were coming up with all these sicknesses, so the Army have records of people breathing this stuff in (the silver thiosulfate). This is the guys standing next to the rocket launchers all day, who ended up with Veteran’s Disease.

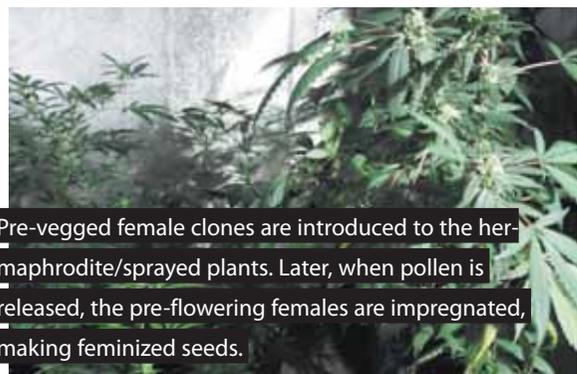
“It is definitely not good for our health, so we wear breathing masks and rubber gloves, and goggles, plus a full coverall suit. It’s all about safety. If the spray gets on your hands, it leaves rusty-colored spots on your skin that can stay there for a couple of days; or, it can bleach your skin. You have to remember that these are serious chemicals – you must be a licensed company to buy these chemicals. You have to know what you’re doing. It’s not for amateurs and it’s definitely not to be left around for kids to play with.”

That’s probably sound advice regarding much of the things one would find in a grow room. However, the exposure doesn’t end there. What happens to the sprayed buds? Don’t many people secretly sell them off or smoke them anyway, despite knowing it’s a contaminated product? Not the DHSC: “I don’t use that stuff afterward. I think it’s too dangerous to give to people because we have sprayed it with silver. The ingestion of silver through smoking, I don’t think it’s good for anyone.”

After two- to four weeks of drying, the seeds should be safe, as the two remind us. “It won’t, however be in the seeds any more, once they’ve dried out. You’re at no risk at this stage. But it’s the production process that’s a dangerous step – there are dangers that just aren’t good for your health. So, we do take precautions against things like that, but that doesn’t mean that everyone in the industry is being so careful. We’re trying to do this as correctly and safely as possible; but other people are doing it just to make money and just spraying every plant; they’re using those seeds to sell and telling you that they’re feminized. They are really good looking-seeds, but they’re not feminized.”

## ON BEING A DUTCH SEED CO.

“The DHSC is going fully-feminized this year, so we’re trying to bring every available clone that is popular in Amsterdam, and release it with the feminized label.”



Pre-vegged female clones are introduced to the hermaphrodite/sprayed plants. Later, when pollen is released, the pre-flowering females are impregnated, making feminized seeds.



Hermies are removed to allow the females space to finish flowering.



Healthy, well-grown plants will produce strong, viable seeds.



Careful selection of truly female clones will help to guarantee success in the seed-making process.

and we take them into the room and introduce them to the hermaphrodite/sprayed plants. When the release of pollen occurs, in another two weeks – so that would be five weeks of the hermaphrodite plants flowering – they release pollen, and the new female plants that have just started their pre-flower accept that pollen and, thus, make feminized seeds.

“We remove the STS-sprayed plants after seven weeks of flowering, and we allow the female plants to finish their flowering period with plenty of breathing room, too. So, that’s how we do it. It’s complicated, but it works; and it’s all about timing.”

Genetics are not the only concern: the quality of a person’s grow room helps to insure either success or failure, depending on the efforts of the grower. This will also affect the quality of seeds. In computer terms: garbage in; garbage

“One 600w HPS is used over each meter, and we grow typically between 12 and 20 plants in six- to eleven liter pots, depending on what we’re doing and how big the plants are. We don’t use RO water because we don’t stay in these places too long; we don’t want to have leaks and we don’t trust taps and stoppers and all that. It just isn’t 100% safe for us; it’s more about safety than anything. The water in Amsterdam is really good anyway – I think if you look up tap waters around the world, Amsterdam is known for having a really good source of tap water.

“Our seeds are stored at room temperature for preservation; we believe that if you want to store your seeds in the refrigerator for long-term, that’s your choice as a customer. For us, as seed producers, we keep them at room temperature and when you get them it’s up

they aren’t selected clones from a feminized plant (these are real mother plants with no [hermaphrodite] traits existent in them already). So we hope from that, with our feminized technique, that we won’t cause hermaphrodites.

“We’re not saying it’s 100% until we test. And even when we do test we still don’t know, out of all the thousands of seeds, if any one of them will produce a hermaphrodite. So we’re trying to provide the market with what the demand is.” The testing process is mandatory for any seed producer wishing to survive in this industry.

“As soon as we make seeds, we dry them out and we grow them in the pre-flower. We provide them to certain growers to test, and they test them for us straight away; they grow them out and each grower will give us feedback. And on

that, we stress them (in one room, as a basic grow setup) with light leaks, with spraying them and leaving them out exposed to 24 hours of light while they should be in flower; we give them all the stresses to cause an onset of hermaphroditism, to see if any will turn. If any do, then they’ve got traits in there that we don’t like to find.

“Some of the genetics that we have aren’t suited to be feminized because they don’t have hermaphrodite traits, but it’s because of the popularity of the strain; it’s the only way we can bring it to seed.

## “BECAUSE COPPER IS A REQUIRED MICRONUTRIENT, INHIBITING IT CAUSES ‘ETHYLENE SIGNALING’, WHICH WILL REPRESS CERTAIN TRAITS, SUCH AS GENDER EXPRESSION.”

out. For this reason the DHSC attempts to produce their seeds carefully and in good conditions.

“We’re using an organic mix, a soil and worm casting mix with good nutrients, because we want to provide good seeds. We use grow tents. We use 600w HPS lights; we use what works. Until they come up with a new invention we won’t use anything else. LEDs just don’t work: this is seed production. We treat it as though we were flowering the weed. Giving it everything we can, providing everything that’s good for it: all of the

to you to wake up the seeds. When you put them in storage for long periods you can put them in the fridge, but we don’t do that because if we refrigerate them and there’s a power outage, we lose our entire batch of seeds.

“We also know from experience that it’s better to store them at room temperature in a cool, dry, dark place, for three to five years if in an air-tight container. Basically, if you want to do refrigerated storage that’s your decision; but it isn’t recommended for us to do it because of the large volume we have.”

# RED EYE



# AMAZON

your pleasure is our business

SEEDS - ROLLING PAPERS - BLUNTS - ONA - GRINDERS - BONGS - FLAGS  
**DUE TO PUBLIC DEMAND WE'VE HAD TO EXPAND!**

15 MORE SEED BANKS ADDED TO OUR OWN CATALOGUE  
45 DIFFERENT TYPES OF PAPERS - SMELLY PROOF BAGS - 12 DIFFERENT SIZES OF BAGGIES



Seeds



Rolling Papers



EDIT contact lenses



Bandanas

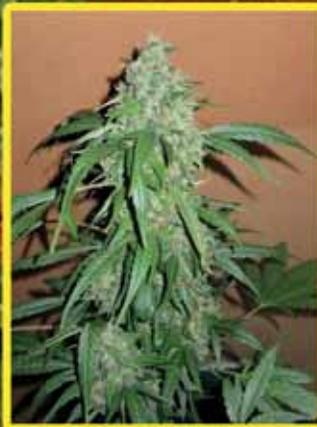


[www.redeyeamazon.com](http://www.redeyeamazon.com) | [redyeamazon@gmail.com](mailto:redyeamazon@gmail.com) | Tel: 07976 247 920

Red Eye Amazon - 4 Taunton Road - (Off Ladypool Road) - Birmingham - B12 8BT

# Flower Power Seeds.nl

Autoflower



Brutus

Sativa



Sweet Sonja

Indica



Extase



Play the Game

When choosing strains for feminization, the DHSC have one simple criterion: they select what they like to smoke. "When we find something that is 'our' flavor – and our flavor is our flavor; it doesn't mean it's everyone's flavor – we go with it. That's what gets our interest going, is something with a really good flavor. It doesn't really matter to us about the yield or how it's grown; number one is the flavor. After that we get to know the strains and how difficult they can be."

The company's tendency to produce heavy-hitting, interesting varieties in regular- and feminized versions is no

"At the moment, the major difference between some American growers and us in Europe is that they're doing it legally

and we're doing it illegally. It's not legal for us to do it here; it's very difficult for us to resource everything. Even though you may think it's legal in the Netherlands, it's not and it's in fact frowned upon – very hard for us to do. But we love doing what we do and that's why we keep doing it. If we had a legal way of doing it, we'd be

legal in Canada than they are in the US. They can do things there that we can't over here, but I think it all comes back to

no parentage left for it to breed any more, so we have to make S1s to keep the original genetic alive, but we're also

**“ON THAT THREE-WEEK PERIOD, THE PLANTS HAVE FULLY-INDUCED INTO FLOWER, AND THEN WE BEGIN TO SEE THE ONSET OF HERMAPHRODITES STARTING TO OCCUR.”**



"We provide [our seeds] to certain growers to test, and they test them for us straight away; they grow them out and each grower will give us feedback."



Usually, males and hermies are plants that one would avoid having in one's grow room.



A 'pregnant' female flower



The DHSC are feminizing all of their favorite clones from the smoke industry in Amsterdam, such as this Super Silver Haze.

accident. Part of the key to their success is keeping an eye on the international market and understanding the differing needs of growers around the world. The two explain that "the American market is still open to regular [non-feminized] seeds, more so than the European market. That's a really good thing. The North Americans are still into the old way of doing it, and they're keeping the genetics alive much more than we are over here. They do more groundwork.

able to do it even better. So, even though we're restricted with our resources here in Amsterdam, we still provide as well as we possibly can. That defines us: we're restricted in such a way that some of America has more freedom than we do right now. But that can change very fast.

"Canadians kind of learned their old school growing from the Dutch. Typically, the Canadian growing style is very similar to ours over here. And again, they're more

from over there and bring them to people over here. The demand goes both ways."

### CLOSING>>

Although they're a relatively new company, but the DHSC varieties are definitely recognizable around town. The lads suggest keeping an eye out for their Shoreline. "We're crossing it with everything we have right now. But we're also working on making S1 seeds with it, 'cause it's an original genetic. There's

going to make crosses of it to preserve the genetic."

Currently, the DHSC enjoys a primarily European customer-base. However, they hope to change this soon. "We're aiming towards America and Canada, but due to legal reasons we cannot directly sell there at present. In the future we aim to make [our seeds] available to North Americans as much as they're making their strains available to us." It's this kind of open market that will help to ensure that certain, beloved strains don't become extinct, especially with all the genetic experimentation going on these days. The DHSC have proven that they can adapt to the ever-changing demands of the Cannabis industry. A willingness to pursue new customers in new regions also helps to keep growers interested.

"At the moment, we're so new that we haven't even found the region that is most popular for outdoor growing with our seeds. It's mainly based for indoor growing; we haven't tested them in outdoor regions enough to know the results of where they are best suited."

So, what does the future hold for DHSC? "A million dollars [big stoner laugh; he tells me to just print '\$\$\$\$\$\$\$\$'] Retirement! To keep developing and looking for new strains and to outsource strains in different countries.

"We need to go backwards to go forwards. We're currently researching into old-school genetics and old strains, rather than going for the hype of the new ones that are available now. We are looking into older generations. The older, the better. The more of a challenge it becomes, the more fun it is, and the more interesting it can be. Otherwise, it would only end for us. We need to keep it going."

Photos by DHSC

## HYGROW HYDROPONICS

www.hygrow.co.uk hygrowhydroponics@yahoo.co.uk

**HYGROW SHOPS STOCK**

- CANNA
- ADVANCED NUTRIENTS
- VITALINK
- METROP
- HESI
- GROWTH TECHNOLOGY
- BIO-BIZ
- GROW TENTS
- FANS
- FILTERS

**HYGROW HEAD SHOP**

- SOUVENIR SEEDS
- BONGS
- LEGAL HIGHS
- TOBACCO
- VAPORIZERS
- SMOKING ACCESSORIES
- AND MUCH MORE...

**HYGROW HYDROPONICS**

UNIT C  
55 SUNNINGDALE RD.  
SOUTHPARK IND EST  
SCUNTHORPE  
DN17 2TW  
TEL: 01724 842 212

**HYGROW II**

UNIT 3  
30 OSLO RD.  
SUTTONFIELDS IND EST  
HULL  
HU7 0YN  
TEL: 01482 833 455

**THE HEAD SHOP!**

UNIT 4  
30 OSLO ROAD,  
SUTTONFIELDS IND EST  
HULL  
HU7 0YN  
TEL: 01482 833 643

HULL & SCUNTHORPE OPEN 7 DAYS A WEEK

• TENTS • LIGHTING • GROWING MEDIA • AND MUCH MORE

## Your one stop hydroponics shop!

We offer a wide range of services including, indoor vehicle loading bay, customer discounts, free local delivery and indoor showroom to name a few...

wellingborough  
HYDROPONICS

FOR ALL YOUR GROWING NEEDS

11 Bently Court, Finedon Road Ind Est, Wellingborough, Northants, NN8 4BQ  
Email: wellingboroughhydroponics@yahoo.co.uk

tel: 01933 274000 Open: Mon-Fri 10-6pm Sat: 11-5pm

# Cannabis and Intelligence



At the end of August a number of rather alarming looking reports began to appear in the media regarding the effect smoking cannabis can have on the human brain. Specifically, the effect that smoking cannabis during adolescence can have on the intelligence in later years. Is there cause for concern here or is this just another case of media driven reefer madness? Does dope really make you a dope? Let's consider the story.

Dr John Dee

We've heard it before: cannabis turns users into criminals; cannabis leads to the use of "harder" drugs; cannabis causes promiscuity; cannabis causes chromosome and genetic damage; cannabis causes "amotivational

syndrome"; and, of course, cannabis adversely affects the intelligence.

"Cannabis users 'fall behind' in terms of IQ, says study" BBC News online, 28/8/12

Smoking cannabis when a teen makes you a dope! The Sun, 28/8/12

### What on earth is going on here?

The dangers of smoking cannabis, and the potential health benefits, have been a source of contention now for decades. Compared to alcohol and tobacco, say one side, cannabis is pretty benign. Not so, say the other side; it's implicated in a number of mental illnesses, a range of different cancers, chromosome damage and now there's evidence linking it to the stunting of the intelligence (not at all like alcohol then? But I digress).

For what it's worth, my own view on the above is that both cannabis and alcohol have a certain appeal and both have benefits attached to their use, but the adage "moderation in all things" should be observed, particularly when the "things" are psychoactive substances. It's nigh impossible to make any sort of positive case for tobacco, however. Tobacco smoke and (pure, unadulterated) cannabis smoke are two quite different things. And there's evidence to indicate that smoking cigarettes has a detrimental effect on the intelligence.

The whole argument of the effect of cannabis on the adolescent brain is



nothing particularly new. In short, smoking dope when one is under seventeen or eighteen is not a good idea. The same applies to drinking alcohol: also not particularly recommended, for reasons I'll come to presently. A lot of teenagers have the idea that this is a predominantly morally driven argument with little or no scientific validity; in that, they're quite wrong.

First, here's some very basic scientific stuff.

In most people, from birth to around the late teens, the brain is developing at a considerable rate. All those folds and lobe parts of the brain are growing, developing and maturing throughout this period. If you're interested, the tops of the folds are called Gyrus (singular) or Gyri (plural); the "valleys" or the bits at the bottom of the folds are called Sulcus (singular) or Sulci (plural). All of these are going to serve a purpose of some sort at some point and should ideally be left to develop without having to deal with a flood of psychoactive substances (THC, alcohol, whatever).

Here's the thing; up to the late teenage years, all of the neural connections in the brain (this is commonly known as the "grey matter") are still growing, following specific development pathways and making connections. To use the brain as computer and circuit board analogy, the wiring is still very much a work in progress. It's a delicate time for the brain and, as mentioned, it really needs to be allowed to get on with it without interference. There are obvious things that can aid and accelerate the process – a good diet, lots of sleep, for example – and there are things that really should be avoided, such as tobacco, junk food, alcohol and other psychoactives (stimulants really aren't a good idea as they interfere with sleep patterns). It's really quite obvious and straightforward. By the age of 18 or 19 the development of the brain has peaked and begins to slow down. If one really *must* use intoxicants, it's from around this age that they should start (keeping in mind the "moderation in all things" coda as far as possible, but obviously there are times in one's life where excess will be the name of the game).

As I say, none of this is particularly new and, in my view, not allowing one's kids to use drugs at a young age is a matter of pure common sense. So what is it about this latest study that has caused such a media frenzy? Well, if I may be so bold, *nothing* other than being another story to spin out of all shape and proportion in order to scare parents and shift a few more units. I fear that, once again, the media appear to be the principal drivers in this. To an extent, researchers are happy to go along with this as more inches of news generates public interest (and concern, outrage, etc) and this in turn can lead to further funding. So there is an agenda at play here. Throw the interests of those who control the media together with the fact that a number of the research team

are American or based in America into this mix and one gets a slightly clearer idea of what the agenda might be.

For sure, there's a story here, but it's not really big news; or indeed, news. In fact, one might argue that there are more pressing concerns associated with adolescent or early onset cannabis use. Consider the following, as an example:

"New research from the Royal College of Surgeons in Ireland (RCSI) published in Nature's Neuropsychopharmacology has shown physical changes to exist in specific brain areas implicated in schizophrenia following the use of cannabis during adolescence. The research has shown how cannabis use during adolescence can interact with a gene, called the COMT gene, to cause physical changes in the brain." (ScienceDaily online May 8, 2012)

But to return to the study in question, here is a quote from the BBC News website:

"Using cannabis as a teenager can cause a permanent and irreversible drop in IQ, according to a study of 1,000 people in the New Zealand town of Dunedin.

Prof Terrie Moffitt told the Today programme that people using cannabis fall "about 20% behind in the population on where they would have been based on their native intelligence that they had in primary school".

So far, so good; the study comes from something called The Dunedin Multidisciplinary Health and Development Study, and this basically follows the development of 1037 babies born in Dunedin, New Zealand between 1 April 1972 and 31 March 1973. It's all very good scientific practice, but as ever, the results should be treated with caution.

What the actual publication says is this: "Impairment was concentrated among adolescent-onset cannabis users, with more persistent use associated with greater decline. Further, cessation of cannabis use did not fully restore neuropsychological functioning among adolescent-onset cannabis users. Findings are suggestive of a neurotoxic effect of cannabis on the adolescent brain and highlight the importance of prevention and policy efforts targeting adolescents."

So, if the user starts early – prior to the age of 18 – then the damage done to the brain did not repair or correct itself even if the user quit completely, and therefore any damage done is *liable to be permanent*.

Professor Moffitt explained that the findings were based on "heavy use at a young age" meaning "people aged under 18 using cannabis on at least four days a week". This is misleading. Using cannabis on four days a week could mean one joint a day or 20. And how much cannabis was being used per joint would need to be considered.

As would the *type* of cannabis, its THC content and so on.

But there's some good news in here as well for those who manage to resist the lure of the weed and put off first use until they're in their twenties. In essence, impairment to the intelligence seems to also occur within this group, but it appears that if one quits, then within a year of stopping one's intelligence "recovers". This of course suggests that the fully developed or mature brain demonstrates a certain level of hardiness and is able to effectively repair itself; adolescent brains cannot do this.

I mentioned above that a number of the research team are either American or based in America. This could be significant in terms of the angle the spin on the story takes. The American elites are staunch proponents of "The War on Drugs" and many of them – their personal habits and tastes notwithstanding – take the view that total abstinence is "the true way". Cannabis is still regarded by many in America as the root of all evil; the beginning of the stepping stone process leading to heroin, crack, and methamphetamine. And if one accepts this logic, then one can see why cannabis would be held up as the "assassin of youth" over say, a poor public education system dying on its feet.

As an aside, in one interview given by Professor Moffitt, she mentioned that there was some concern in the America that cannabis was increasingly being seen as "a safe alternative to tobacco". This strikes me as a very peculiar statement to make. Arguably cannabis smoke is *safer* than tobacco smoke or

at least *less harmful* but really, can the two substances be compared? They're completely different in their effects (stoned from a cigarette?), and only someone with a poor I.Q. would consider one an alternative or replacement for the other. I am mystified by this.

## Conclusion

There are so many other factors to be considered in all of this: as noted above, poor diet is a biggie, as lack of fresh fruit and vegetables is known to have a highly detrimental effect on physical and mental health. Then one must consider factors such as environmental toxins, the effects of parental alcohol and tobacco use, parental and peer influence and so forth. And, dare I say, one must also consider the potency of the actual cannabis being consumed, as it is known that THC levels have been creeping up for a number of years at the expense of "protective compounds" within the plant such as CBD (see my column in the last issue of Soft Secrets for more about this)

None of this is any sort of attempt to dismiss the findings of the research. Clearly, using cannabis or any other intoxicant at too young an age is detrimental in terms of physical, mental and emotional development. A lower I.Q. can lead to one's choices and opportunities later in life being quite acutely curtailed and this in turn can lead to a whole range of other health and social problems.

However, as ever, one must approach results with some caution and consider if cannabis is the only reason for the drop in I.Q. or whether it is once again being used as a convenient political scapegoat diverting attention from wider ills and issues?



## Resources

Dee, J (2012) High CBD content weed: the way forward for medical users? Soft Secrets 4, page 56.

Meier MH, Caspi A, Ambler A, Harrington H, Houts R, Keefe RS, McDonald K, Ward A, Poulton R & Moffitt TE (2012) Persistent cannabis users show neuropsychological decline from childhood to midlife. Proceedings of the National Academy of Sciences USA abstract available at: <http://www.ncbi.nlm.nih.gov/pubmed/22927402?dopt=Abstract>

Starr JM, Deary, IJ, Fox, HC and Whalley LJ (2007) Smoking and cognitive change from age 11 to 66 years: A confirmatory investigation. Addictive Behaviours.



MORE THAN 30 CUPS

Delahaze®

- Winner Cannabis Cup Canada 2011  
- Treating Yourself Medicinal Cannabis Plant of the year 2011

MANY GROWERS & SMOKERS, HAVE RATED DELAHAZE TO THEIR TOP 3

HAZE LIST



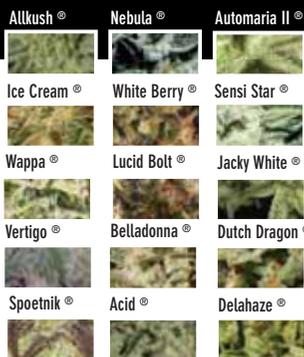
Pandora®

Delahaze is a superb variety. It is extremely potent, giving high yields and finishes early in approximately 9 weeks. To appreciate her fully let her flower one week extra which results in fine citrus/haze flowers filling up your grow-room with a beautiful aroma containing hints of citrus & mango. Still the typical haze scent remains dominant.

AUTOFLOWERING PLANT

WITH LARGE AND COMPACT BUDS

Pandora is our novelty in automatic blooming varieties. The automatic genes are preserved but other than that she is a real Indica variety along the lines of Afghani, Spoetnik and Sensi Star. The plants are compact and so are the aromatic buds.



WWW.PARADISE-SEEDS.COM

FINEST SEED COLLECTION

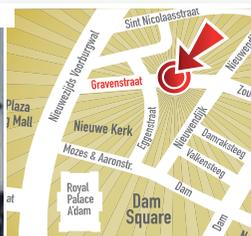


OPEN EVERY DAY 10.00 AM - 8.00 PM



PARADISE SEEDS FLAGSHIP STORE  
GRAVENSTRAAT 12 IN AMSTERDAM,  
JUST BEHIND DAM SQUARE.

Paradise Seeds Shop: 020 7371599 Paradise Seeds Office: 020 6795422  
Fax: +31 342461027 info@paradise-seeds.com www.paradise-seeds.com  
Postbus 377 - 1000 AJ Amsterdam- Holland



PARADISE SEEDS VARIETIES ARE QUALIFIED FOR MEDICINAL USE.



DISTRIBUTED BY DOWN TO EARTH KENT LTD Tel: 01233 610021

Minimax 150™

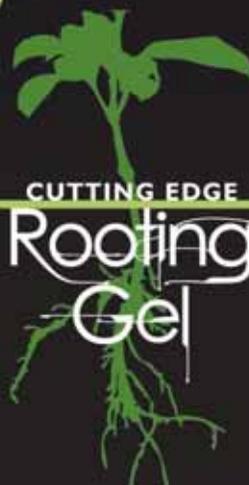
- Low bulb temperature, reducing need for large cooling fans
- Runs with HPS bulbs: Wide Spectrum, far red and blue 'agro'
- Environmentally friendly, runs at 0.63amp!



THREE YEAR GUARANTEE!



100% ORGANIC PRODUCTS



CUTTING EDGE  
Rooting Gel

The next generation of advanced growing nutrients

pH Down  
Organic  
Acid Buffer

Go Green

VISIT OUR WEBSITE FOR A FULL LIST OF STOCKISTS

www.downtoearthkentltd.org.uk

# Over The Pond

**There's no doubt that in most aspects of everyday life, whether we like it or not, people in the UK are influenced by our cousins from across the pond. The US has stamped itself throughout our culture from the music and films we consume, to the fashion we dress in, to the way that we eat. We are surrounded by references from over the Atlantic.**

Over the past decade, we at Soft Secrets started to notice the US and Canadian influence in some of the grow shops in the UK; bigger air-cooled lights, interesting plant additives from companies like Advanced Nutrients and even changes in the way UK growers cultivate their plants. Having visited the states a good few times, we started to realise just how the US compares with good ol' Blighty when it comes to growing.

The first difference and maybe one of the most obvious – and significant – is

conditions in 17 states and legal to grow medical marijuana in 14 of these states.

Of course, the law – being the law – is too complex to explain in this short article, and it also varies from state to state, but have a little search online and you'll be amazed at how progressive some of the thinking is in the US.

One of the most progressive states is California where medical marijuana was legalised in 1996 – the first state in the US to do so. This trail blazing mentality has led the way for marijuana in terms of

purchase and consume their medicine without fear of prosecution. Imagine that in the UK?

Much of the medicinal weed comes from large outdoor grows across California and Oregon. A quick search on, fellow Soft Secrets writer, Jorge Cervantes' YouTube channel will uncover some mind-blowing videos of US outdoor monster grows.

The openness of marijuana usage has led to a boom in the US indoor gardening / hydroponics industry and there are 1000's of hydro retail outlets over there. From experience, the retailers themselves aren't too dissimilar to the retailers in the UK; generally, they are smart business people, with a passion for growing and are very helpful. It is the difference in scale that is really amazing. Walk into a hydro retailer in the UK and there will usually be a good selection of

grow. There is a huge choice of air cooled reflectors available to growers and it isn't uncommon for grow rooms to run multiple lines of air-cooled units in series, with the heat extracted via massive 12 or 14 inch ducting!



When you're running 1000 watts, air cooled reflectors make real sense

Growers producing medical marijuana are limited to the number of plants they can legally grow, they can become a 'care giver' and grow on behalf of other medical users, but they still have to stay within guidelines regarding plant numbers. So, it makes sense to grow them BIG! This way the grower can stay within the legal limitations, but still pull huge yields. It's common to see one plant per light and sometimes more than one light per plant! The indoor growers over there cultivate some serious trees!

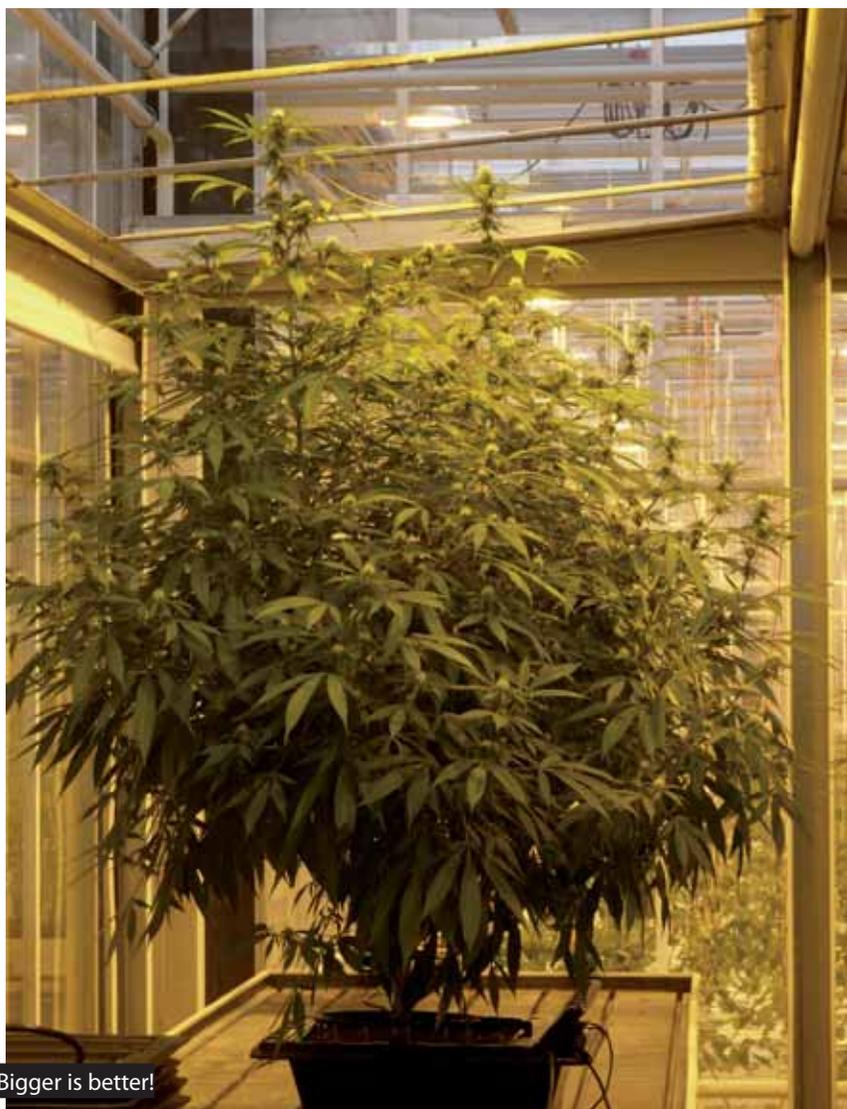
products. In the US there is a ridiculous amount of choice, with rows and rows of different products all jostling for your attention and hard earned cash. Shelves upon shelves of nutrient, additives, bulbs, filters, more than you could ever need. This is probably more a cultural thing than anything else, walk into any retail situation in the US for the first time and you'll be shocked at the amount of

This style of growing requires longer veg times and big containers, this is a trend that has made its way over to the UK; where more and more growers are reducing the number of plants that they cultivate and pull more yield from fewer plants. Although, it's fair to say that there has always been a decent mix of growing techniques in

**SOME OF THE STORES IN CALIFORNIA SAID THAT THE MAJORITY OF THEIR CUSTOMERS HAD 50-100 LIGHT SET UPS!**

the difference in law. Although marijuana remains illegal under US federal

the grow industry and also the medical industry; visit pretty much any town or



Bigger is better!

**ONE OF THE MOST PROGRESSIVE STATES IS CALIFORNIA WHERE MEDICAL MARIJUANA WAS LEGALISED IN 1996**

consumer choice. I remember visiting a pharmacy on my first visit, trying to find something to treat a hangover, and being confronted by two full aisles of different painkillers. Baffling!

As far as growing is concerned, bigger is better. In the UK, the largest bottle of nutrient you can buy is around 20 litres; in the US they sell 208 litre drums! It is quite breath taking watching customers roll a drum of nutrient out of a store and into their pick-up truck and it gives a good indication of the size of the grows that go on over there. Some of the stores I visited recently in California said that the majority of their customers had 50-100 light set ups!

The lower cost of electricity coupled with the US mentality of bigger is better, means that 1000 watt lighting set ups are the norm over there. As you can imagine, multiple banks of these lamps will kick out plenty of heat, so extracting that heat is top priority for a success

the UK, many growers favoured the Dutch technique of multiple plants, very short veg times and a quick turnaround of harvests.

Now, more shops are reporting sales of large volume growing containers and – around the Midlands area, in particular – rapid sales of deep water culture buckets. Yes, the longer veg time means it takes longer to grow the plants, but UK law – like the medical legislation in the US - focuses on number of plants cultivated, so the fewer the plants, the lower the risk.

Get inspired, check out some of these US websites and try a grow US style!  
[www.sunlightsupply.com](http://www.sunlightsupply.com)  
[www.wegrowstore.com](http://www.wegrowstore.com)

Also, don't forget to search youtube for 'jorge cervantes' and check out some of the monster U.S. outdoor grows.

Happy growing!

law, at the time of writing, it is legal to use marijuana as treatment for medical

city in California and you'll find a marijuana dispensary, where patients can

## A LOOK AT THREE GARDENS OVER TIME 23 JULY FIELD REPORT

# How does your garden grow - Parte 1

I have been tracking three marijuana grows this year for SOFT SECRETS. We are half way through the season here. The light deprivation plants have been harvested or will be harvested shortly. The first garden is a personal garden and the other two are commercial ventures sponsored by a medical dispensary.

### THE HOME GARDEN

In northern California's inner cities, land is valuable and all available spaces are used, even if they are imperfect. The greenhouse we are watching was constructed in a space between two buildings and is 4m long x 3.5m wide. The roof slants down slightly from 3m. The roof and one wall are open to light. This side faces is covered with clear corrugated plastic.

A walkway in the middle divides the garden area. Only one section is used for cannabis. The other side holds a table of orchids in containers.

The cannabis garden receives only four or five hours of direct sunlight each day. This is supplemented with two Inda-Gro induction fluorescents, each of which uses 420 watts, and a Bad Boy 4 tube T-5 fluorescent fixture. The two lamps were initially hung above the plants, but the fixtures were blocking sunlight. One lamp was secured against the back wall at a 45 degree angle. The other was installed at the corner of the wall and the roof, under wood framing that was already blocking light. Almost all the light generated is falling on the plants.

The T-5 fluorescents had been on a recycling lighting regimen of 90 seconds on every 4 hours. This brief period of light broke up the dark period, and kept the plants in full vegetative under natural light and abbreviated period of bright sunlight. When the cycle was changed to flowering, the T-5 duty was switched to supplementing light with the two induction fluorescents. The three fixtures provide light from 9:00 AM to noon, and again from 4:00 through 8:00 PM—periods when the plants receive only indirect light.

Today, July 23, dawn and dusk were 05:36 and 20:55, a total of 15 hours,

19 minutes. However, with light deprivation the plants have been receiving less than 12 hours of light daily since July 1. The darkening technique is simple but effective.

Two opaque shade cloths are drawn over the top of the roof each evening and then rolled back up later in the day. The shade cloths presented two problems at the beginning. First they weren't wide enough for complete coverage, and left a light opening. Taping a strip of white/black opaque polyethylene plastic over the uncovered plastic solved this. The second problem with the shades is that they are about 60cm shorter than the length of the greenhouse, leaving a large light gap. This was solved by making two frames using 1cm pvc pipe. Each is 2m wide and 65cm long. One frame is covered in w/b polyethylene and the other with black woven shade cloth. The white/black film is lighter weight and generally easier to place and construct than the shade cloth. Both are placed over the roof from the front, after the shade has been rolled out. Together they are wider than the roof, so one frame sits gently on the other.

The south-facing front is blacked out using black-out curtains, commonly available at hydro shops. They hang from curtain rods at either side of the door. The glass greenhouse door's window has its own roller curtain.

Where the garden is situated in the San Francisco Bay Area, the temperature stays fairly cool, usually under 26 degrees C. Heat is currently controlled using an exhaust fan set at 23 degrees C and a 16" oscillating fan. A portable heat exchange air conditioner is installed but hasn't been turned on because the CO<sub>2</sub> tank system has not yet been installed. This will happen later this week.



5/10 The four seedlings are planted into General Hydro's Mega Farms.



5/10 Close-up of the transplanted clone.



5/30 The four plants have been growing 20 days. Two small plants have been added to the garden they are growing in planting mix. Lights have been installed. In the back you can see the T-5 fluorescent fixture which is lit 90 seconds every 4 hours throughout the day. This prevents premature flowering.



5/30 This plant has tripled in size

# 34 *Soft Secrets*



5/30 The stems of the plants were bent to promote more branching and to keep the height low.



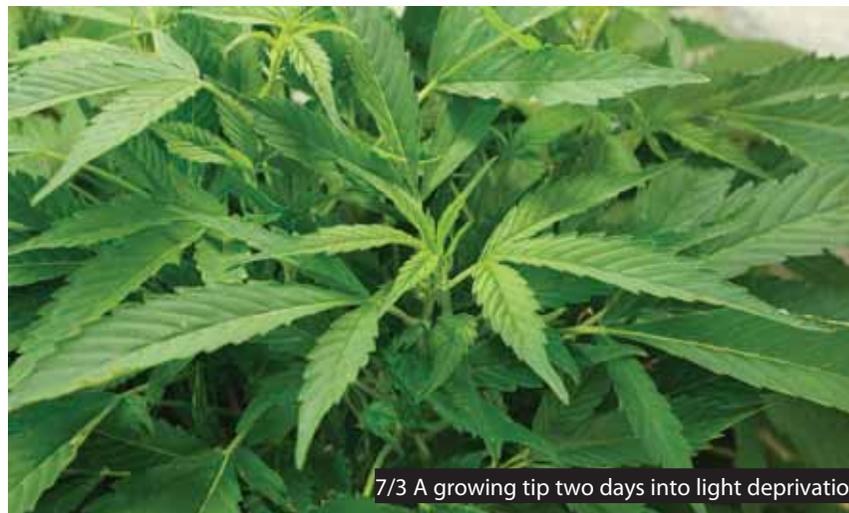
6/13 Two weeks later the plants have filled out. The new plants have been transferred into large containers with planting medium.



6/25 All six plants have grown into vigorous bushes.



6/25 The first sign of problems. Powdery mildew has appeared on the plants. They were sprayed with a mixture of Ed Rosenthal's Zero Tolerance™ and Serenade™, which was made by adding ERZT to ready-to-use Serenade. One thorough spray was enough to eliminate the problem.



7/3 A growing tip two days into light deprivation.



7/3 The plants have almost filled the space and will fill out more as they flower. The lights are on 8 hours a day, in the morning and towards evening. The T-5 (on the left) duty has changed from regulating flowering to supplemental lighting.



7/10 The plants growth pattern has changed and the plants are starting to produce flowers.



7/10 A young bud.



7/10 The bushy plants are creating lots of buds.



7/17 Individual buds are beginning to fill out.



7/17 The shape of the plants are changing from the new growth.



7/17 Twisted leaves and edges turned up indicate over-fertilization. The solution: drain some of the nutrient solution and then dilute the remainder with pH'd water.



7/17 The greenhouse under wraps.

**MENDOCINO GARDENS**

I have been visiting a number of gardens in the hills of Mendocino, one of the counties that make up the famed "Emerald Triangle," known for its connoisseur grade bud. One of them is an outdoor garden; the other is a light deprivation greenhouse.

The outdoor garden was on a high plain between higher hills in the distance. A small backhoe had been drawn to service several years earlier. The native soil was dug out in a wide swath about 1m wide and 1m deep, and replaced with a special landscape mix sold by the local garden center

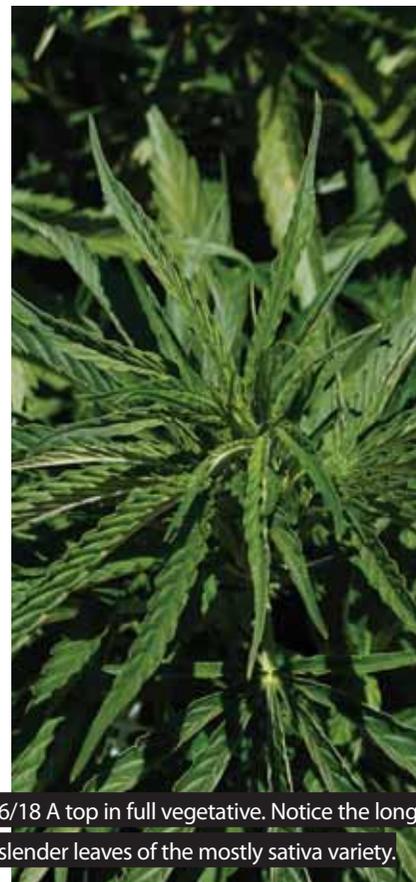
which also stocks a surprisingly large selection of fertilizers and budding supplements.

The soil is supplemented annually with nutrients, and mycorrhizae. Bamboo poles tied together hold the netting in place. The branches grow

through it and are supported in part by the string, so they are less likely to break or suffer damage from the wind. It also keeps them from leaning over into their neighbor's space. These are all Blue Dream, which don't grow much taller than 1.5m. They will ripen in early October.



6/18 The plants were placed about eight feet apart in rows that are widely spaced.



6/18 A top in full vegetative. Notice the long slender leaves of the mostly sativa variety.



6/18 One plant had a lesion on its stem. Reason unknown.



7/18 The plants, though spaced widely apart are almost touching.



7/18 A month later, in mid July the plants are already in the first stage of flowering. The branches that will soon be holding big bud are already poking through the plant's bush symmetry.

**FREE** Arranged local delivery

**GALLOWS CORNER**

**growing underground**

A wide range of high quality growing accessories at low prices. Whatever you require, a grow tent, reflective sheeting or scissors, we have it here to make your growing simpler. ...Visit us soon!

'for all your hydroponic needs'

Open 7 Days a week!

**Call: 01708 377 600**

Unit 1A, Ashton Gate, Gallows Corner Harold Hill, Romford, Essex RM3 8UF

• Secure Covered Parking • Private Loading Bay •

www.growing-underground.co.uk | info@growing-underground.co.uk

VITALINK Systemair GANNA CLONEX SUPERthrive BIOBIZZ Plagron

**SOUTHERN HYDRO CENTRE**

The South's Largest Hydroponic Superstore

**Everything under one roof**

Seeds, lights and a whole lot more

Southern Hydro Centre 9 Malmesbury Road, Shirley, Southampton SO15 5FT

Tel: 023 8070 4080

E-mail: sales@southernhydrocentre.co.uk

Web Site: www.southernhydrocentre.co.uk

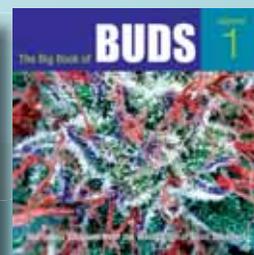
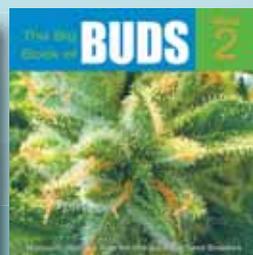
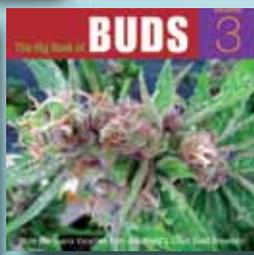
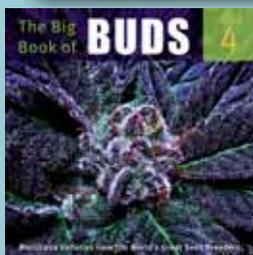


# BIG BUDS AT YOUR FINGERTIPS!

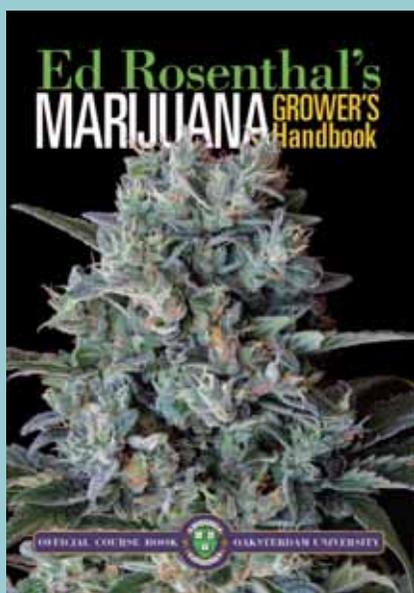
**ED ROSENTHAL'S BIG BUDS APP IS HERE!**

THE MOBILE VERSION OF THE BIG BOOK OF BUDS AVAILABLE NOW FOR IPHONE, IPOD TOUCH AND IPAD.

- Instant access to variety information—updated weekly.
- Sort by breeder and view high quality photos.
- Rate and track favorites.



**GET IT NOW!**



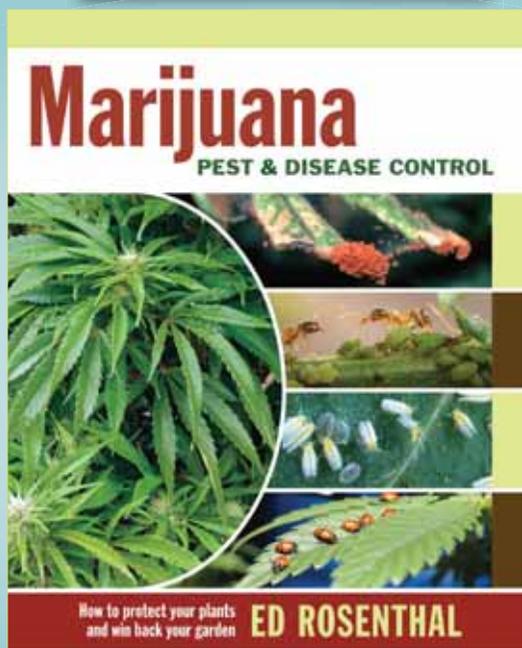
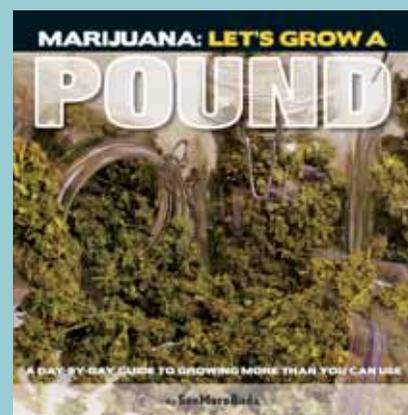
## GROW WITH THE BEST

### MARIJUANA GROWER'S HANDBOOK

Increase quality and learn the newest equipment and cultivation techniques. GUARANTEED TO CHANGE THE WAY YOU GROW FOREVER.

### MARIJUANA: LET'S GROW A POUND

EASY INDOOR GARDENING  
Grow .5 Kilo using a 1000-watt HPS light



## PROTECT YOUR PLANTS

NEW FROM ED ROSENTHAL!

### MARIJUANA PEST & DISEASE CONTROL

Save your garden from pests and diseases with solutions that are safe for you and the environment. Full color, over 100 photos.

### MARIJUANA GARDEN SAVER

Troubleshoot problems quickly



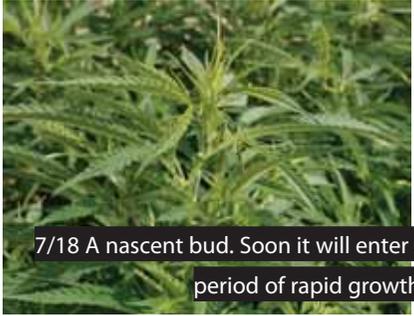
**visit Ed online—[www.edrosenthal.com](http://www.edrosenthal.com)**

**FREEDOM BOOKS., [freedombooks.co.uk](http://freedombooks.co.uk), Call: 02392 780 600**

Avalon Wholesale Ltd., (wholesale) [avalonwholesale.co.uk](http://avalonwholesale.co.uk), Call: 02392 832 383

Turnaround (wholesale), [turnaround-uk.com](http://turnaround-uk.com), Call: 020 8829 3002





7/18 A nascent bud. Soon it will enter a period of rapid growth.



7/18 The lesion area is colonized by a fungus that has grown a white, cottony layer. It is being treated with Ed Rosenthal's Zero Tolerance™.



7/18 It's a jungle of buds inside the garden. The buds are about two weeks from harvest.

I was in a greenhouse that was built inexpensively from metal framing covered with clear polyethylene. A white/black polyethylene curtain was laboriously placed over the top of the 5m arch greenhouse in early June. The plants are expected to be harvested the first week in August.

the trough garden above. During the vegetative stage they were fed an inexpensive commercial fertilizer, Grow-More 15-16-17, which is formulated for soilless mixes so it has extra micro-nutrients. The irrigation water was enriched to about 300 ppm using a Dramm injector. About two weeks after they started flowering the fertilizer was switched to a 5-25-25 formula, also at 300 PPM.

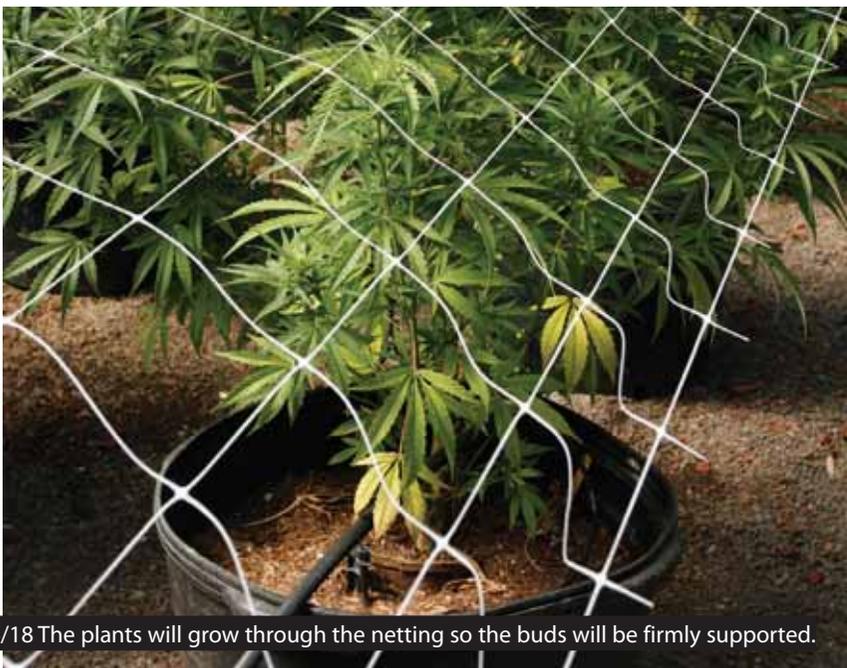
The plants are in 75-L containers in a planting mix similar to the one in



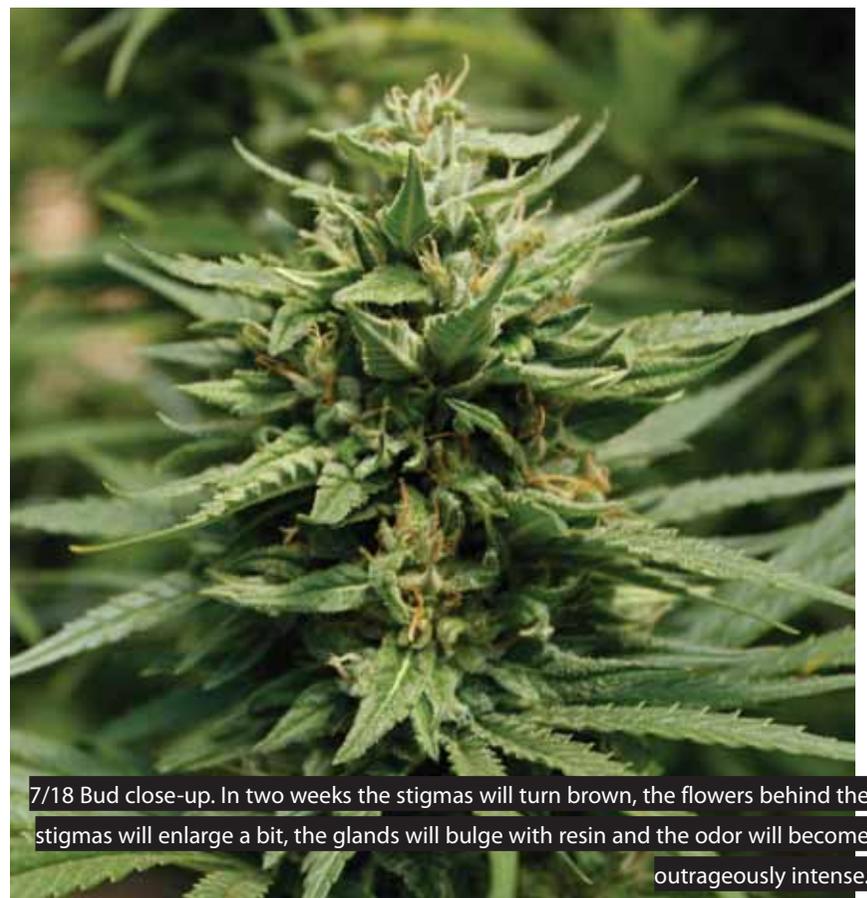
6/18 Plants in the Greenhouse about 10 days after light deprivation was started. The entire garden was planted with Blue Dream.



7/18 Two buds poke above the canopy to get more light.



6/18 The plants will grow through the netting so the buds will be firmly supported.



7/18 Bud close-up. In two weeks the stigmas will turn brown, the flowers behind the stigmas will enlarge a bit, the glands will bulge with resin and the odor will become outrageously intense.



7/18 At the entrance. The greenhouse is 45m long, so the rows stretch way back.

**THIS IS THE SECOND PART OF A TWO PART ARTICLE ABOUT LED LAMPS. THE FIRST ARTICLE RAN IN THE LAST ISSUE OF SOFT SECRETS.**

# LED BULBS AND TUBES

Phosphor-coated LEDs produce more of a blue spectrum and peak at about 465 nm.

There is a vast array of LED retrofit bulbs packed into a larger bulb that fits in household incandescent screw fittings. These bulbs cost from \$15-30 and are generally not bright enough to grow plants well. They are rated in replacement terms for an incandescent bulb. For example, a 15.5-watt LED replaces a 75-watt incandescent.

LED tubes are shaped like regular T12, T8 and T5 fluorescent bulbs but the tubes are filled with LED light bulbs. More than 200 LEDs will fit in a 4-foot (122 cm) T12 tube. But not all LEDs are created equally. LED tubes that are filled with little lamps with at least one watt each, are necessary to provide enough light for plant growth.

An energy efficient 22 watt 4-foot T8 LED lamp produces 1,248 lumens. They do not fit in existing T8 fluorescent fixtures. The flicker-free tubes have a lifetime of more than 50,000 hours.

T8 Red tubes are 660nm and contain 288 LED bulbs. Spectrums can also be split into blue and white with a 50/50 split between lamps of 420nm /5500k and contain 144 red and 144 white LEDs. Some fixtures allow LED tubes to be mixed with T8 fluorescent tubes to improve spectrum.

The most practical fixtures allow individual clusters of LEDs packed in a bulb to be easily replaced. Such fixtures also make upgrading LED bulbs inexpensive.



The fixtures above these plants consist of groups of LED bulbs grouped together within a fixture. There are several different spectrums of bulbs contained in each fixture.



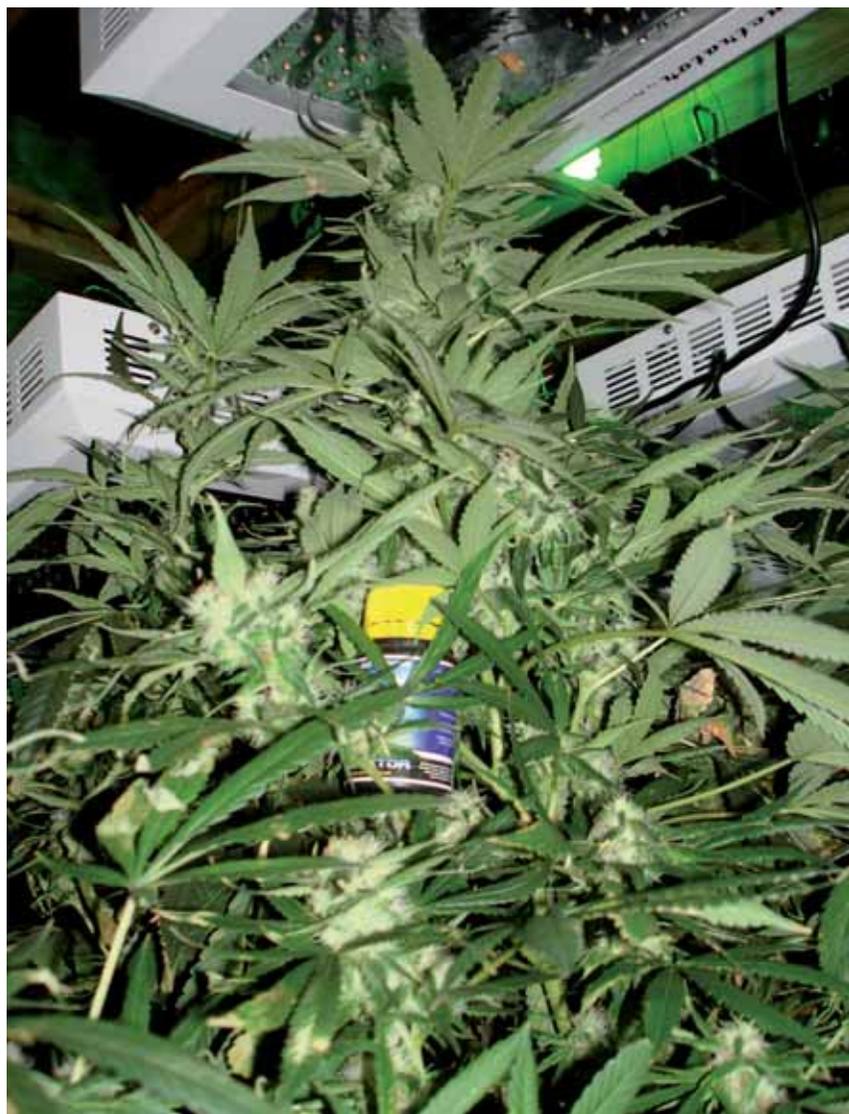
Here is the same scene from above with the lights turned out. I love seeing my favorite plant's true colors!

Can be put much closer to plants which increases intense light plants receive. The tubes run cool and can be placed within inches of plants.

## LED vs HID Lamps

Comparing LED and HID lights directly to HID lamps is easy. Simply compare watts, lumens, lm/W, Kelvin Temperature,  $\mu\text{mol/s}$ , PAR and PPF. Once all figures are listed on a chart, the wattage of small 1, 2 and 3-watt LEDs can be grouped together to equal the wattage of a HID. For example, a 1000-watt HPS can be compared to 1000, 1-watt LEDs or 334, 3-watt LEDs.

Or the comparison could be more easily done by dividing a 1000-watt lamp into single watts. For example a 1000-watt HPS that produces 140,000 lumens yields 140 lm/W.



The small container appears to be "swallowed" by the giant bud!

Most often different LED bulbs are combined in a fixture to achieve a specific light spectrum.

A series of individual bulbs can be mounted and hard wired into a single fixture that is square, rectangular or circular. Or the fixture can contain long T12 and T8 glass tubes packed with LEDs.



Comparing HIDs and LED light output is easiest to do with side by side tests and see just how well the plants grow. The plants above were grown under an HID.



I love this foto of a huge clump of purple buds grown under LED light.



This group of plants was grown under LED light and appears about the same as the ones grown under and HID.

There are also a few spectrum details that must be addressed. LED fixtures can contain from a few to hundreds of bulbs. The bulbs can be of many different spectrums. Fixtures are manufactured to include bulbs of different spectrums to provide the highest ratings for plant growth. However, I have had a difficult time finding accurate brilliance tests for LED lamps.

We can compare their wattage, lumen output, and lm/W output easily. But comparing mW/M2 and PAR watts are the true measure of the light plants need for photosynthesis. Comparing PAR watts is the best comparison. However, LEDs have several qualities that HIDs don't. LEDs produce very little heat and can be placed closer to the canopy of the garden, which inherently provides plants\* with more bright light. LED light is also able to be focused and directed through a lens, which intensifies the light. This factor can be compared when we look at overall fixture brilliance only. \*See the "Inverse Square Law" earlier in this chapter.



**CHECK OUT**

# www.jorgecervantes.tv

**WATCH VIDEOS ON...**

### How-to Tutorials

Cultivation techniques, organic growing, pest control, outdoor security, strains, cloning and more.

### Grow Reports

### Shows and Events

### Interviews

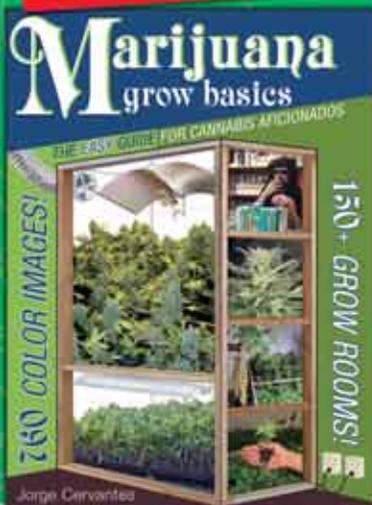
**PLUS...**  
Articles,  
photos, shop,  
members' club  
and gallery.



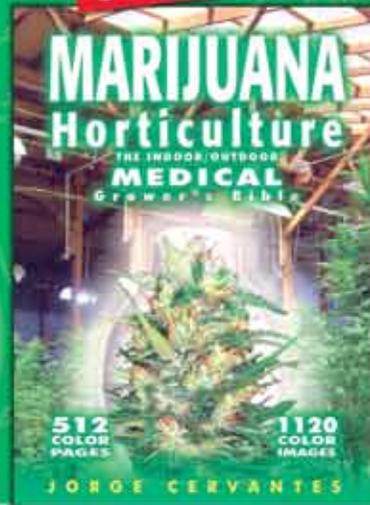
**Start from scratch -  
become an expert!**

**The number 1  
grower's bible**

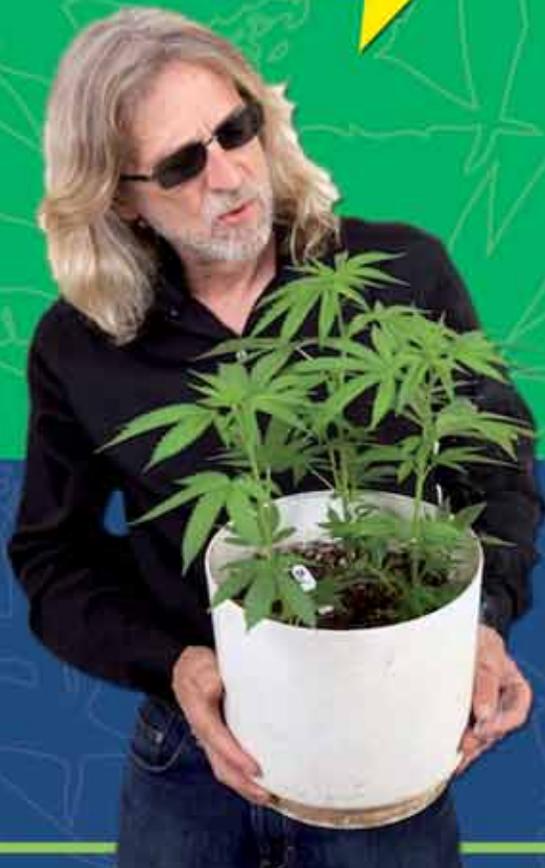
“ Ask for my books at your local book, hydro or headshop!  
Download **FREE** pages at:  
[www.marijuanagrowing.com](http://www.marijuanagrowing.com) ”



A practical and informative guide to the basics of growing great marijuana!



The #1 indoor/outdoor grow bible for novices and experienced growers alike.



## **FREEDOM BOOKS**

**ORDER BY PHONE**

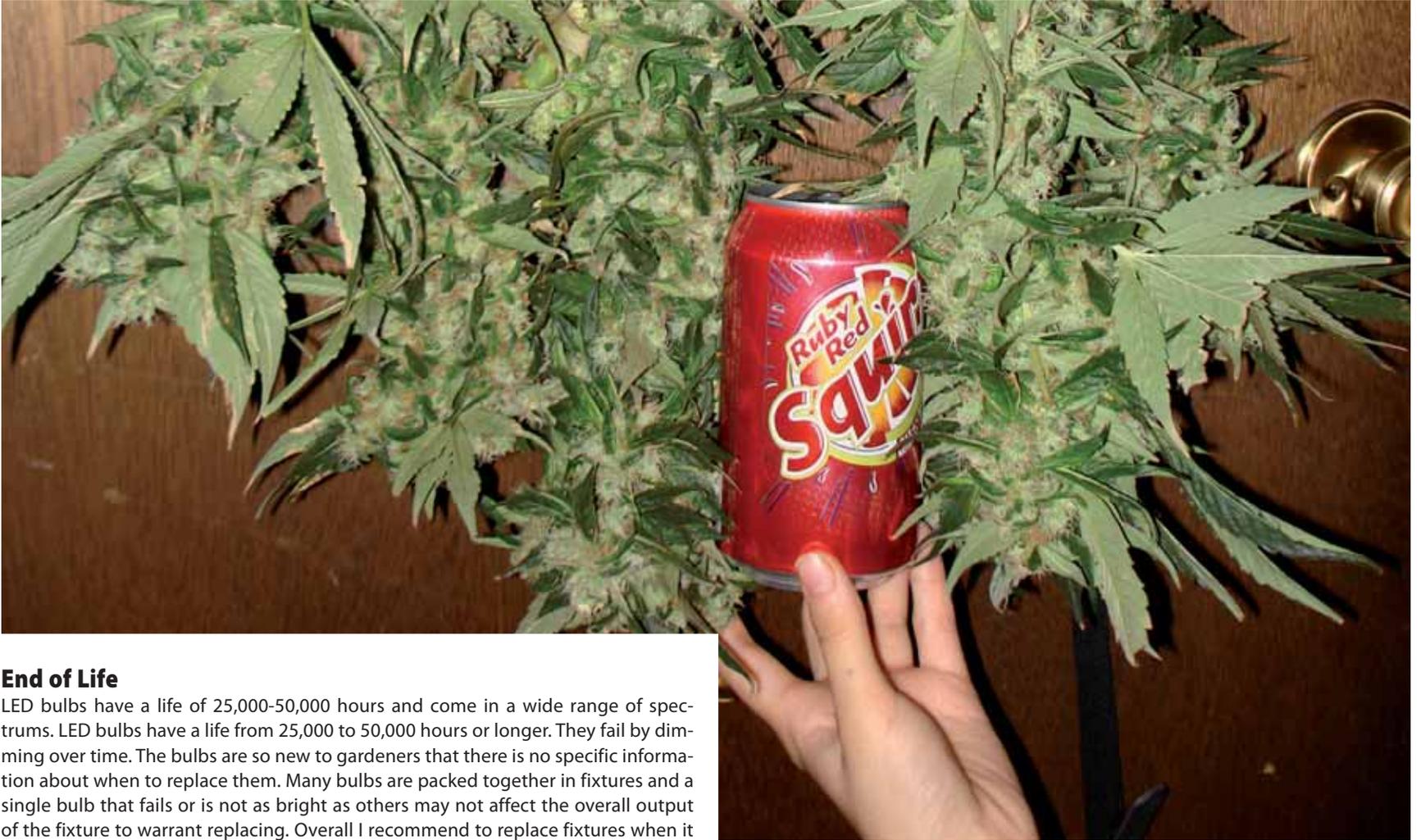
Freedom Books: 023 9278 0600

**ORDER ONLINE**

[www.freedombooks.co.uk](http://www.freedombooks.co.uk)

**WHOLESALE ORDERS ONLY**

Avalon Wholesale Ltd: 02392 832 383 or [info@avalonwholesale.co.uk](mailto:info@avalonwholesale.co.uk)



### End of Life

LED bulbs have a life of 25,000-50,000 hours and come in a wide range of spectrums. LED bulbs have a life from 25,000 to 50,000 hours or longer. They fail by dimming over time. The bulbs are so new to gardeners that there is no specific information about when to replace them. Many bulbs are packed together in fixtures and a single bulb that fails or is not as bright as others may not affect the overall output of the fixture to warrant replacing. Overall I recommend to replace fixtures when it yields 85-95 percent light output.

the branches from several buds were grouped together to make this impressive harvest shot. This is an impressive harvest!

Do not worry about tossing out hazardous substances when disposing of LEDs. They contain no mercury to pollute the environment. Bulbs and fixtures can be recycled.

Check out an interesting video on Youtube,  
<http://www.youtube.com/watch?v=OCXhj0iP0Mc>  
 Marijuana Grow Yields 383.6 Grams from a 345W LED Grow Light  
 consuming 290W of power.

## Does Cannabis cause (selective) amnesia?

Dr John Dee

Recently I came up against a rather odd phenomenon. First, a bit of background: I'd been involved with a research project a number of years ago where more than 600 long term cannabis users were interviewed about their relationship with the herb, highs and lows, and with some considerable emphasis on mental and physical health.

Now at this point I should probably mention that how the health aspects of the project were investigated were both pretty basic and straightforward, which is to say we just asked each of the participants how they felt their mental and physical health was. This meant that the data were completely subjective, even though a number of accepted "standardised measures" (health questionnaires) were used.

Most (not all) of the participants felt that their cannabis had either a neutral or slightly positive effect on their mental health, and a slightly to moderately detrimental effect on their physical health (most of these centred on the fact that they almost all mixed their cannabis with tobacco).

Everyone interviewed was happy to do so in spite of the fact that a number of quite sensitive subjects

were covered (their involvement in crime and practicing safe sex, as two examples of this). Most were so happy that they gave permission to maintain contact should the possibility of a follow-up study occur.

Jump forward 12 or so years to the present day and the possibility has indeed occurred. There are a number of things that can be done now that couldn't be done at the time of the original project. Data matching and tracking, for example.

The idea is developed thus: as many of the original 600+ group as possible should be recontacted and asked if they want to participate in a follow up. But here's the thing; when we carried out the original study, we didn't take any identifiers other than gender and age. For this new study, the medical boys involved want people to give up their real names (!) and their date of birth (!! in order to allow matching and tracking of their health records via NHS databases.

The rationale for this was that while the health data collected at the time of the original study was fine for back in the day, because they were self reported and subjective the medics in 2012 have therefore deemed that using the same method again is unreliable. What

was being proposed this time round meant that the medical history of each participant could be accessed and tracked over the past 10 to 15 years. This means that rather than the older method (Q: "how do you feel?", A: "fine"), the new one would be more objective, tracking visits to GP's, hospital data, prescribed medicines etc; the whole kit and caboodle. However, without the consent of the participants, along with their name and date of birth, the whole thing was going to be a non-starter.

Discreet messages were posted on social networking sites and a number of equally discreet telephone calls made. We knew that asking people to give up personal data of the sort required to be a tough sell, and expected blank refusal on the grounds of self-incrimination or something like that. What we hadn't expected was the number of outright denials of having taken part in the original study and - more bizarrely - denial of having ever used cannabis at all.

Younger dope smokers are always keen to talk about their use, particularly how much they smoke and how stoned they get. It's seen as a sort of badge of honour among their peers. Jump forward ten or fifteen years and try to get the same people to talk about their use of weed and it's a whole different story; one apparently of shame, guilt and embarrassment.

Or perhaps smoking dope for years really does affect the memory in a "no recollection of ever having used it" sort of way.

# In Search Of The Truth

By Little Lebowski



Elizabeth and Ian Wallace

As friends of the herb, and readers of this fine publication, there's something I hope we can all agree on; when it comes to policing Cannabis cultivation and possession in the UK, the law is an ass. Getting busted and having your life turned upside down for growing a plant provided by nature, seems dumb at the best of times. When you're growing to alleviate pain or symptoms of an illness, it seems downright crazy.

The UK is a great place to live and is filled with a diverse population, forward thinking and open to new ideas. But, when it comes to drug laws, hysteria rules and our government would rather listen to the Daily Mail than to factual evidence provided by qualified medical professionals.

Here at Soft Secrets, we often receive letters from Cannabis consumers and growers who have found themselves on

the wrong side of the law, frequently to their detriment. Often the most successful (and recommended) course of action is to contact an organisation, like Release, and get the details of a local legal professional who fully understands the UK drug laws and your human rights.

Sometimes we hear from people who prefer to take things into their own hands, decide to challenge the law and

put their heart and soul into researching their defence... searching for the truth. One letter in particular caught our attention and prompted some further investigation;

## The Letter

Hello, my name is Elizabeth and my husband is Ian.

On July 2nd 2012 we were visited by the police. It was a forced entry through our front room window even though the front door was open and Ian was talking to an officer there.

Ian has been registered disabled since 1985 due to an accident. I have suffered back pain from my teenage years and my body cannot tolerate painkillers or anti-inflammatory drugs.

We were bailed from Taunton police station, went home and I was straight on the internet to find mitigation, as obviously you do not type in the word Cannabis when you are growing pot. What I found amazed me, as even though we knew that Cannabis was a help to us up until that moment, I still half believed in the stories that we have been fed by the government and the media.

I came across; *The Report. Cannabis: The Facts, Human Rights and the Law*. ISBN 9781902848204. It is in-depth and explains its usefulness to the World and that no genuine evidence exists to support prohibition. At the end of: *The Report. Cannabis: The Facts, Human Rights and the Law* was a page labelled *Amicus Curiae* where the writers stated that any defendant anywhere who believe the contents of *The Report* comprise documentary evidence relevant to his or her case, may present *The Report* to the court to authorise counsel to proceed as *amicus curiae* in presenting the information.

I read through most of the books from the bibliography, sent our friend Paul a copy and before we knew it, we had a website up and running [www.Cannabis-truth.yolasite.com](http://www.Cannabis-truth.yolasite.com). I then wrote to all the MP's to inform them of this unjust law and received about 10 replies, half of which stated that it was out of their constituency so they could not look at it.

We then received the Home Office Report; *Cannabis: Classification and Public Health* from Jeremy Browne MP via Earl Howe from the Department of Health, which clarifies the Governments position regarding Cannabis. Unfortunately this report seems to be lacking in substance, mainly THC studies (not Cannabis) and favouring Cannabis's contribution to the prevalence of Schizophrenia and Other Psychoses, which brought me to; *The Department of Health's Systematic Review of the*

*Incidence and Prevalence of Schizophrenia and Other Psychoses in England, February 2011. The findings of which found no evidence to suggest rates of the prevalence of Schizophrenia and Other Psychoses had changed over time.*

*Well, from then on we knew that we guilty of no wrong doing, we believed in The Report especially after checking it out thoroughly along with the other two reports*

**“OUR GOVERNMENT WOULD RATHER LISTEN TO THE DAILY MAIL THAN TO FACTUAL EVIDENCE”**

*above and many others. Every single time it came back to the fact that The Report. Cannabis: The Facts, Human Rights and the Law is sound and totally factual, unlike many others.*

*Laws are made to protect. We rely on people in authority, with supposed knowledge, to guide us and tell us the truth. In this case they have not told us the truth. The prohibition of Cannabis is an unjust law. State funded empirical studies have proved time and again that Cannabis is harmless and has many medical attributes without causing dependence or mental illness.*

*In August our vehicle insurance was up for renewal and they asked on the phone if there were any convictions. Ian said we were waiting to be charged for the production of Cannabis and he was informed that when our insurance ran out on 10th August 2011 then they would insure us no longer. Ian has been with this company for many years, had 9 years no claims and was dumped because production of Cannabis was classed as drunk driving. We had no insurance; no insurance company would touch us until we had been charged. So we put the car in storage, as the estate we live on has no private parking, and we sat and waited to be charged.*

*I was working up until this point but as it was in the middle of nowhere, I subsequently lost my job through lack of transport. I wrote to the ombudsman who could not help us. Three months later we were charged and found reasonable insurance but only after being quoted £5300 third party and many other ridiculous quotes.*

*We have been to Magistrates Court twice and went to the plea and case management hearing at Crown Court in March 2012. The judge threatened us with 6 years. We had to defend ourselves because the judiciary are bound within their contract and cannot help fight an unjust law and we sought a common law trial by jury.*

*Judge Jones asked for all the evidence to be sent to him as well as to the Crown Prosecution Service (CPS). We received a skeleton argument from them basically saying that we were guilty and the evidence we wanted to use is inadmissible. We replied with the defence skeleton argument stating that under Magna Carta, if a law is said to be unjust, then a jury of our peers can judge on the justice of the law, in addition to the facts and on the admissibility of evidence. After three months, we had not heard back*

*from the CPS, so we wrote to them on 16th July 2012 to ask what is currently happening with our case and we are still waiting for a reply.*

*The Report. Cannabis: The Facts, Human Rights and the Law. ISBN 9781902848204 can be purchased from lulu.com.*

*Thank you for taking the time to read this, the website will be a help to a lot of people*

*if only we could get the word out there. We have tried to get them delivered via the local newspapers but they refused as they are locked into the states media. We are surprised as there is only valuable information on the site. We would be most grateful for any help with getting this information out. We are happy to talk to anyone if further information is needed as we have plenty.*

*Yours Truly  
Elizabeth and Ian Wallace*

**The Interview**

After reading the letter, we thought it was right to get in touch with Elizabeth and Ian, find out a little more about their circumstances, the arrest and where you can find extra information on The Report.

**SSUK: Elizabeth and Ian, thanks for bringing this matter to our readers attention, tell us a little about your background and what Cannabis means to you.**

**Ian:** I had an accident back in 1985 when I worked for the electricity board. The

local council changed the windows in the street and left them haphazardly lying about. I fell into them and had to have micro surgery to my wrist on my right hand leaving me limited use of right hand. I have to use my left hand for most tasks; this compounded my back pain, sciatica and arthritis. I was dismissed on the grounds of ill health. I went to a tribunal and was signed off indefinitely and have not been able to work since.

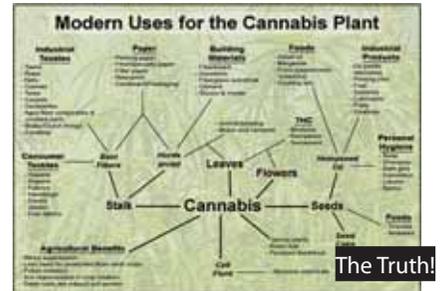
Cannabis means a reasonable state of mind and pain relief to me. It stops me from beating myself up that I am unable to do anything.

**Elizabeth:** I first came across Cannabis when I was 24. To be honest, I came across it recreationally and was impressed that it also helped with coping with a bad back. I was told that I had degenerative bone disease when I was in my early twenties, but as the pain did not spread from that area I eventually had an MRI scan which showed a hernia and two degenerated discs. I had non-invasive surgery and this did not work, I am not willing to have any more surgery as I have read about the side effects and I know people who have had the surgery and all of them have regretted it. I cannot take painkillers or anti-inflammatory meds as they do not agree with me. Cannabis does not necessarily get rid of pain, but it definitely makes it not so much of a problem and easier to deal with.

**SS: So, after the initial arrest, what was your first course of action?**

This was not our first offence and even though we were only growing it for our-

selves we realised that every time we got busted, the penalty would be worse for us. This was a justified feeling when later in Crown Court for the Plea and case management hearing; the judge threatened us with 6 years. Ian said to the police in his statement that he did not understand the charges. He stated that when prominent professors tell us that Cannabis is less harmful than what is sold at the supermarket, then someone is taking the mickey. The reason he said this was that months earlier we had watched Professor Nutt, formerly of the Advisory



Council for Drug Awareness, telling us on TV why he had been sacked by the Government. As you can imagine at the time we did not check up on it on the computer, as we were growing Cannabis and wanted to stay under the radar. After the arrest, this no longer applied and I trawled through the internet for mitigation for our case. At the time we did not realise that Cannabis is a benign herb and has never caused anyone any harm, because media and government hype and propaganda told us differently. We rely on people in authority and with supposed knowledge to guide us and tell us the truth and up until then we had never thought of questioning this said authority and like most of us accepted what was told to us.

**SS: How did you come across The Report?**

We came across The Report. Cannabis: The Facts, Human Rights and the Law, ISBN: 9781902848204 about a week after our arrest, someone had put the 1998 version on the internet. We bought a copy from lulu.com and we were amazed that we have been misinformed in such an underhanded way since the early 1920's. The Report includes a comprehensive collation of the official Findings of Fact and Conclusions of the medico scientific clinical empirical studies conducted by world-respected U.S. academic and research institutions into the smoking of Cannabis (marijuana). The Report is an authoritative insight into the real, but concealed, illegal reason behind Prohibition: ulterior money-motive. The Report quotes legal grounds (national and international) which demonstrate numerous infractions of laws by the prohibition legislation, and which show all acts of its enforcement to be crime per se. No genuine evidence exists to support prohibition. The Report reveals that the disinformation results from a massive but concealed motive. Obviously, we double checked what The Report had to say and we either bought or found online many of the books from the bibliography and read them. Everything in The Report

**CANNABIS AWARE**

Fed up paying high prices for fuel?

Feel unwell from all those prescription meds?

Worried about global warming?

**Well Worry No More - Just Act!**

Cannabis can help solve it all.

Don't believe what 'THEY' tell you - Believe the facts.

Do you know the prohibition of cannabis is illegal on numerous grounds?

**NO? Well it is the TRUTH!**

You would know the truth too if you visited the following website.

<http://cannabis-truth.yolasite.com>

On the website is a Report supported by judges (U.S. & U.K.), Doctors and Academics, summarising exonerative FACTS on cannabis, sourced from official empirical clinical studies into its use, as well as unprecedented work, such as Cannabis as Preventative Measure and Preventive Medicine, the Cannabis Bio-Mass Energy Equation and exposition on Motive.

Spend only 20 minutes reading and you will know what needs to be done.

Don't delay, visit today and tomorrow we can make a difference on our planet.

The Campaign Flyer

**WHITE DRAGON**

**VENENO**

**BEST SEED BANK**

*Spanabis 2012*

**WWW.EVASEEDS.COM**

**DEEP IMPACT PLANT CARE™**  
"From Root To Fruit™"

All needs covered  
From **roots** to **fruits**

In over **160** retail stores  
Visit our website to find a  
store in your area

**We have 8 FANTASTIC products**

<p><b>DEEP CLEAN</b></p> <p>Cleans and revives plants for healthy growth</p>	<p><b>KEEP CLEAN</b></p> <p>Virtually eliminates insecticide use</p>	<p><b>FRUIT BOOST</b></p> <p>Fruit Boost Boost stimulator</p>	<p><b>BUD VESSEL</b></p> <p>Produce bigger, juicier fruits</p>
<p><b>JUMP START</b></p> <p>A soft plant food specifically designed for cuttings and seedlings</p>	<p><b>ROOT BOOST</b></p> <p>A unique stimulator for root growth</p>	<p><b>PROFESSIONAL GROW</b></p> <p>Concentrated nutrients designed to provide primary nutrition in all flowering plants through the growing stage</p>	<p><b>PROFESSIONAL FLOWER</b></p> <p>Concentrated nutrients designed to provide primary nutrition in all flowering plants through the flowering stage</p>

**Master Grower**

**Best New Product**

**Recession busting prices - Proven results!**

Sales Line: 0845 208 0229  
Email: [sales@deepimpactplantcare.co.uk](mailto:sales@deepimpactplantcare.co.uk)  
[www.deepimpactplantcare.co.uk](http://www.deepimpactplantcare.co.uk)

Find us on **Facebook**

Follow Us On **twitter**

was true. Not only that but after seeing for ourselves the way in which studies are conducted and reported on, we then went on to check every article we could find on the internet that was detrimental to Cannabis and applied the same reasoning as The Report.

I wrote to 648 MP's informing them of this crime and urged them to educate themselves by reading The Report and only received about 10 replies most of them stating that as it was not in their constituency. One reply was from Jeremy Browne MP, Taunton. Enclosed was the Home Office Report; Cannabis: Classification and Public Health. This came via Earl Howe from the Department of Health, which clarifies the Government's position regarding Cannabis. Unfortunately this report seems to be lacking in substance, mainly THC studies (not Cannabis) and favouring Cannabis's contribution to the prevalence of Schizophrenia and Other Psychoses, which brought me to; The Department of Health's Systematic Review of the Incidence and Prevalence of Schizophrenia and Other Psychoses in England, February 2011. The findings of which found no evidence to suggest rates of the prevalence of Schizophrenia and Other Psychoses had changed over time (if you read a copy, check pages 70 onwards). The Report was right yet again, the Home Office had misinterpreted the studies from their own report, as can be seen when you read the studies from the bibliography Cannabis. Classification and Public Health. Much of this can be

**SS: Did you speak to Release about using The Report as mitigation?**

We got in touch with Release, who put us on to some Human Rights Lawyers in London and they directed us to a human rights lawyer in Bridgwater. He was only interested in us going guilty and using mitigation with our defence. The Report did tell us this would be the case but we thought we would try, as the thought of defending our-



selves was a bit daunting. On page 233 of The Report it states: Any defendant anywhere who believes the contents of The Report comprises documentary defence evidence relevant to his or her

curiae in presenting the information collated by The Report.

As it happens, as time has gone on, over 14 months now, it does not seem daunting anymore because we have done our homework and kept going over and over The Report. Cannabis: The Facts, Human Rights and the Law, when it sinks in, it is not really that complicated. Under Magna Carta, if a law is said to be unjust,

everything to him and he agreed with us that it was outside of his remit and he could not question the law, he can only work within the law. Shall I say it? Once again The Report had already told us this.

**SS: There is no doubt that some of our readers are in the same situation as you, where can they look to find more information on The Report?**

It is one thing reading The Report on the screen, but there is nothing like having a hard copy in your hands, people will need at least 4 copies if they believe in it and want to use it in court. Alternatively much of what we have told you is on the website, all of The Reports and many articles from their bibliographies. [www.Cannabis-truth.yolasite.com](http://www.Cannabis-truth.yolasite.com).

**SS: What can our readers do to promote the cause?**

What we would really like people to do to promote the cause is to educate themselves, do not believe what we have just told you without checking and confirming it for yourselves, Cannabis is a benign herb. Get on the internet and stop reading state media headlines, find out what all the studies really say, not just the summing up by the ones who do not want change.

Under common law there has to be a victim to be a crime. A crime under common law has to cause harm or loss. If there is no harm or loss and no victim, there is no crime. My husband is 60 years old and I am 45 and we do not need to be told off for something that we were doing that was causing no harm to others. We have no axe to grind we are just passing on the facts. We are doing this because we believe in The Report; we feel we have no other options available to us.

**SS: Thanks so much for speaking with us guys. We wish you all the best with your case.**

**“WE RELY ON PEOPLE IN AUTHORITY, WITH SUPPOSED KNOWLEDGE, TO GUIDE US AND TELL US THE TRUTH. IN THIS CASE THEY HAVE NOT TOLD US THE TRUTH.”**

read on the website our friend Paul, who is a MS sufferer, set up for us after we passed the information on to him. [www.Cannabis-truth.yolasite.com](http://www.Cannabis-truth.yolasite.com). I'd like to say, thank you to Paul.

case may present (i.e. send or hand in) The Report to the court, together with a formal letter of application to the trial judge applying to the court (the judge) to authorise counsel to proceed as ami-

**reaction to The Report?**

When we first appeared in Magistrates Court the CPS sent the duty solicitor to us, to find out why we did not have someone to defend us. We explained

# Brit Crops, Portsmouth

Brit Crops has been established for only a couple of years and in that time the business has gone from strength to strength. The showroom has now been increased to bring even more great products to the South Coast of the UK.

Brit Crops sets itself aside from other businesses in the area as they seem to be the most proactive with regards to advertising themselves and making sure 'growers' from all over the UK are able to access their knowledge and great deals.

[www.britcropshydroponics.co.uk](http://www.britcropshydroponics.co.uk) is fast becoming a well established online shop where you can buy all your hydroponics equipment safely and discreetly. Having such a well established online presence has only added to the success and exposure of Brit Crops and their retail outlet. As business has increased the owner is amongst one of the most active indi-

viduals I've met to date who always strives to get the best price he can so he can pass this onto his customers.

The shop is well stocked with all the leading brands as well as some you may not have seen before. Be sure to drop in or visit the website for a great deal!

**Brit Crops Hydroponics**  
Unit 9 OJ's Industrial Park  
Claybank Road  
Portsmouth  
Hampshire  
PO3 5SX

(t) 02392 669111



# My Bizarre Mazar Bazaar

By Packed Nicely

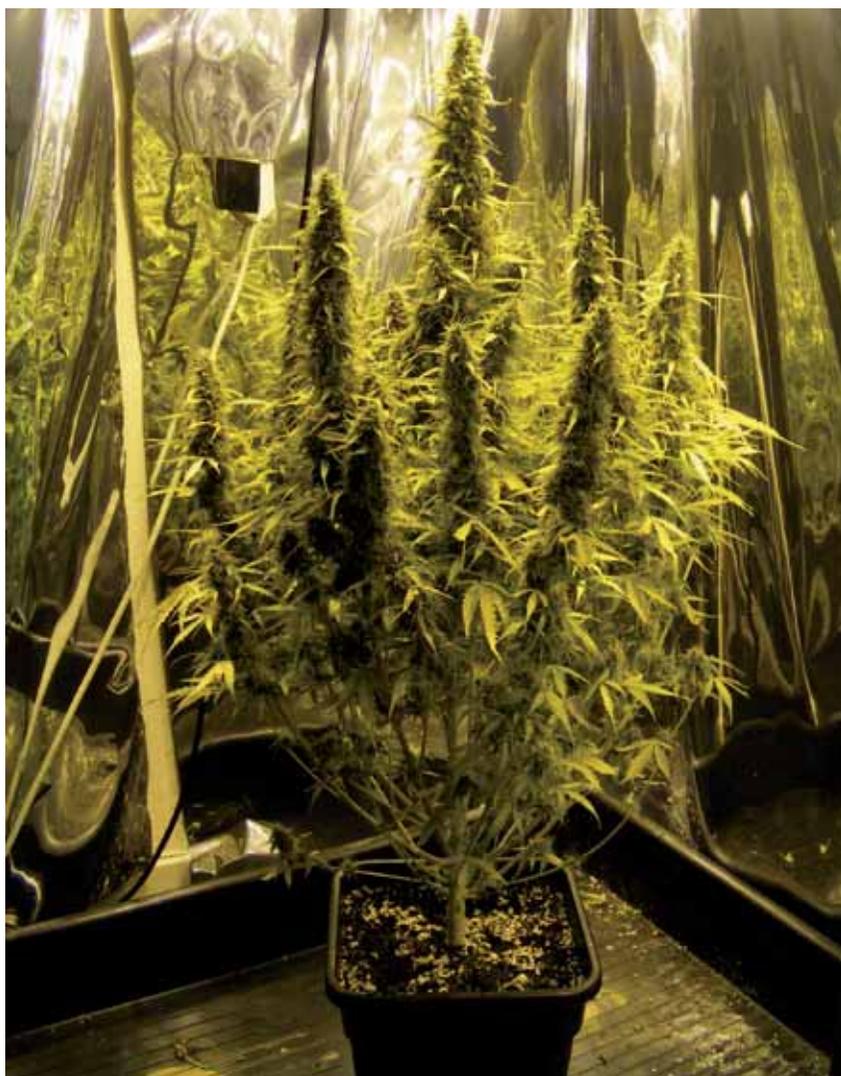
With the recent buzz about Dutch Passion's Auto Mazar, I thought it might be apt to try them out. It is, as the name suggests an auto-flowering plant with the very best of the original Mazar genetics. Once germinated, the seeds were placed in Root Riot cubes in a propagator beneath a 250W Blue spectrum CFL which was hung inside a Secret Jardin DRS120 tent.

Unfortunate circumstances made it necessary to take the tent down and move the seedlings from their original intended home in the tent to a makeshift place in a walk-in cupboard. At this point, I'd like to thank 'Livewire' for providing them a home to grow and bloom in. The plants were transplanted into Plagron Light Mix in small pots and fed with Nitrozyme before transportation to the cupboard which had been lined top to bottom with silver Mylar sheeting. The four best plants were picked, though I might add here that at this point, considering the size of the cupboard, I was conscious that there would come a point where one or two of the plants may have to be removed.

Within a week of their move to the cupboard, the plants were put under a HID, kept at a distance of about 3 foot until the plants were potted up into 11L pots, again with Plagron Light Mix. They were treated with Dutch Pro Take Root and propagation cloches placed on the top of the pots. Throughout the rest of their growth, the plants were fed with the Dutch Pro soil range. I decided I'd adhere to a strictly minimal fuss regime, by simply alternating between feeds and just watering, as and when the plants required. I used the Multi Total soil additive and to add that extra Potassium and Phosphorus for greater potential during flowering I used Dutch Pro's bloom boosting Explode.

The light was lowered as the plants grew and soon the cloches were taken off. There was a small problem with heat in the cupboard so I used CO2 tabs to help provide a ready source that the plants may utilise and turn to their advantage. CO2 enrichment has been shown to promote faster growth, higher yields and stronger, healthier plants. All four plants seemed to flourish, despite their rough start, though there was one that particularly looked less suitable to the situation, being slightly more spindly than the rest, yet of a similar height. Some weeks into the grow there was a mishap with a bottle which fell cutting the branches from the side of one of the plants, but happily the plant continued to thrive. Soon these Auto Mazar's were filling the space available to them in the cupboard and it became patently obvious that if they were to remain there, then a decision would have to be made as to which to keep and which to discard.

Some clouds do have a silver lining though and fortunately 'Livewire' was able to provide a larger space for the plants



and the area was soon prepared to continue with the grow - happily allowing all four plants to be maintained. (pic 1) The lights were kept on a simple regime of 18.5 hours on and 5.5 hours off and flowering signs were soon to be observed. It wasn't long before there were also viable signs of a positive response to the new grow environment, especially by the most spindly of the four plants, in fact it quickly became evident that this plant had the potential to produce just as much bud as the others...if not more.

A 9" air circulating fan and a small clip-on fan provided the air movement and helped distribute the CO2 around the plants and contribute to a robust growth pattern and true to form the plants grew like small Christmas trees, all of a consistent height.

Toward the last week before harvest time, I started to flush the plants with just water to help remove any excess nutrient salts and by this time a number of the leaves were losing their green colour and heading toward yellow. At the tip of some of the leaves there was a reddening as the green chlorophyll colour diminished allowing these colours to show through. The yields of the first two plants to be cropped came in at around 350g wet weight per plant with the damaged plant doing a tad under that at around 290g - still, not bad considering the fact some major branches were damaged, it had really had a bloody good go!

So now then, what were we looking at from the last plant? What would it yield? It had been a source of wonder for the last few weeks. It took just over a week longer than the others and was looking good prior to being harvested, the buds having swelled over the last two weeks. (pic 2) Once it was cut, the bud from this final plant was laid out alongside the leaves and stalks and it was easy to see that there was a good ratio (pic 3) a feature that was observed with all the plants. Some parts of the smaller crystal coated leaves were left on the bud so that they would dry around them to help protect from damage during transportation. From this last plant the yield was an impressive wet weight of 443g (pic 4), giving just under four ounce of dry bud.

So, is there anything else I should mention? Well, a fact that I think should be taken into consideration here is that these plants were all grown beneath a single 400W HID with a GroLux bulb, using a Maxibright compact ballast. The time from germinating the seeds to harvest ranged from ten to eleven weeks, all the seeds germinated and the plants displayed a relatively uniform height. In conclusion it has to be said that with minimal fuss these Auto Mazar's were packed nicely, producing a good yield of good smoke in good time.

# uk skunkworks

licensed head shop | lifestyle accessories

UK'S PREMIER ONE-STOP HEAD SHOP!



## OUR STORES

52 Avenue Road Bexleyheath Kent DA7 4EG 0208 304 0444	79 London Road Brighton East Sussex BN1 4JF 01273 601140	184 Victoria Road Aldershot Hampshire GU11 1JZ 01252 447752
---	--	---

**10%** DISCOUNT WHEN YOU SHOP ONLINE  
PUT IN CODE: **SOFTSKUNK** AT THE CHECKOUT  
offer only applies to our online store

[www.ukskunkworks.co.uk](http://www.ukskunkworks.co.uk)

Pipes | Bongs | Grinders | Skins | Blunts | Shisha | Snuff | Clothing  
Scales | Club & Rave Events | Souvenir Seeds | CD Packs | Books

# greenpark Hydroponics



Now Open

We Won't be Beaten On Price

20% Off  
1st Order

Unit 6  
Station Court  
Whissendine Rd  
Ashwell  
Rutland  
LE15 7SP

Tel: 01572 723485

[www.greenparkhydroponics.co.uk](http://www.greenparkhydroponics.co.uk)



We are Here

Near Oakham

# BIG STONE RIVER INDOOR GARDEN CENTRE

All you will ever need for your hydroponic garden



- All Wilma systems 4/8/10/16/20 pots including NEW MODELS
- All sizes of Grow Tents, NFT Systems
- Canna, Ionic, Bio Bizz, Plagron & Advanced nutrients + many more
- Complete light systems on 600w + Power Pack + euro shade + Sunmaster bulb
- Canna, Bio Bizz, Plant Magic + & Plagron soils
- SPECIAL OFFERS on fan duct & filter kits (ALL sizes in stock)
- Envirolites 125w - 250w and shades.



Ring for prices on any of the above  
Tel: 01472-241114

Unit 1 Eastgate, Grimsby N/E Linc's DN32 9BA

Helping to keep Lincolnshire green

# the growroom hydroponics centre

[www.growroomonline.com](http://www.growroomonline.com)

Tel: 01903 236000 \* 07742 525915

email: [thegrowroom@hotmail.co.uk](mailto:thegrowroom@hotmail.co.uk)

- Nutrients
- Lighting
- Ventilation
- Hydroponic System
- Growing Media
- Grow Tents
- Reflective Sheeting
- Disease and Pest Control
- Propagation Room Design
- And all other accessories

7 Coronation Buildings  
Brougham Road  
Worthing  
West Sussex  
BN11 2NW

## NEW SHOP

33 Freshwater Parade,  
Horsham, West Sussex  
RH12 1QD  
Tel: 01403 230001

Rear access and parking  
at both store locations for  
discreet loading.



# Destroyer of crops & crops of Destroyer

By Packed Nicely

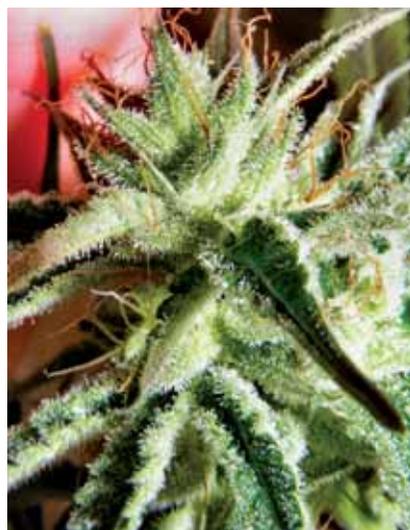
In these tight economic times and continuing in the same vein as my last article in issue #5 2011, this time I chose to try out a 250w HID in a Secret Jardin DR90 tent, again the tent was fitted with a mesh, but the growing substrate was soil. I was interested to see what kind of return one might get with this budget size of light whilst adhering to the grow schedules suggested by the nutrient manufacturers. On this occasion I went for Cannabiogen's Destroyer, a 100% Sativa strain which is a cross of Meao Thai (found in the highlands of Thailand) and an early and stable Mexico / Colombia. It is said to be a state-of-the-art of Sativa and suitable for using SOG & SCROG techniques.

A number of seeds were germinated and upon first signs of the tap root breaking through, they were each placed into a Root Riot cube and placed in a propagator. The seedling demonstrating the greatest signs of vigour; and it was truly an impressive display of vitality was selected and was soon ready to be potted up. It went directly into a square 18L pot with Plagron Light-Mix and was watered in with a solution of Take Root by Dutch Pro to encourage further root development. The plant was fed using the Canna Terra product range, following the schedule suggested by Canna and it was allowed to veg until the mesh was almost full before the light period was changed from 18.5 hours down to 11.5 hours to initiate flowering.

Within the first two weeks of flowering there was some dramatic growth as the plant extended creating room for the buds to grow upon. The predominant physical characteristics of the Thai in this strain became very apparent at this point Pic A. Over time the buds were thickening well...

Then a problem arose...

The difficulty encountered at this late stage of flowering was a problem with the timer. Circumstances had made visiting the plant impossible during the later part of what should have been the penultimate week and all had been looking well up until this time, but when a return visit was made, it was quickly evident that the



dark period had somehow been interrupted as signs of rejuvenation were perceptible upon some of the upper buds. It was soon discovered that there had been some fluctuations in the timer function.

After the timer was replaced, a decision needed to be made as to whether the plant should remain on an 11.5 hour flowering cycle or to take another course of action. (Pic B) I decided that I would crop the plant and switch the new timer to 18.5 hours to continue the rejuvenation for a week and a half. It is well known that the best time to take cuttings is while the plant is still in a vegetative state prior to flowering, but on this occasion there was no option and the cuttings had to be taken from the rejuvenating plant. Eight cuttings were taken in total and each

cutting dipped in Clonex then put in a Root Riot cube before being placed into a propagator under a blue 250W CFL (Pic C)

The clones were monitored and then when sufficient root production was observed, two of the cuttings were used to replace their rejuvenated mother in the tent. Plagron Light Mix was used a second time as the cuttings were potted up into two 18L pots. This time I decided to use GHE three part nutrients, adhering to the suggested feed schedule. As they grew, the plants were again woven through the mesh until it was almost filled, then the lights were switched down to 11.5 hours to commence flowering.

Once again, tall growth was observed in the main stalk and limbs as the plants prepared to accommodate the production of flowers. Things were looking good again, the plants were well into flower, nicely filling the tent and thankfully the timer appeared to be working. Close inspection showed a nice trichome distribution (Pic D.)



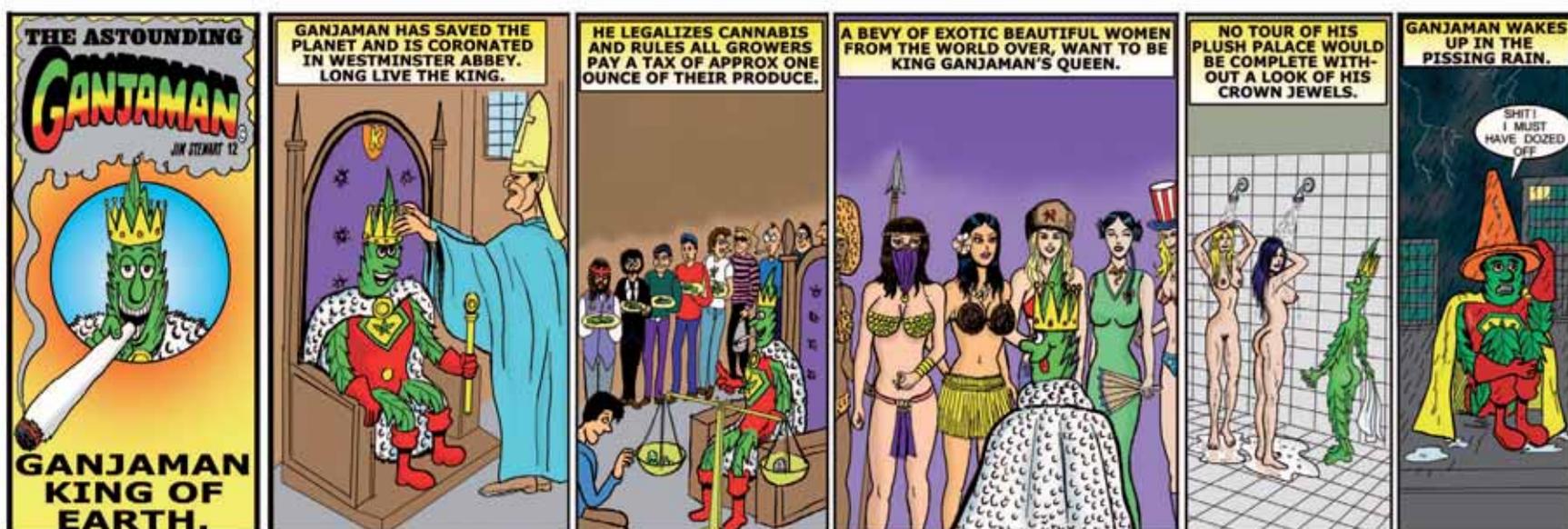
All was going to plan and the final three weeks were fast approaching

Then a problem arose...

There was a severe cold snap in the winter weather and the temperatures plummeted and as if that wasn't enough to contend with, the crisis was further accentuated by a cut in the electricity supply - there was no light or heating for a couple days. The situation was dire. To touch, the actual pots felt cold and unhappily I knew there and then, that yet again I was heading for some kind of diminished yield. One can normally expect a decrease in calyx production when temperatures drop. Columbian strains are known to develop a purple colouration when subjected to low temperature, a result of anthocyanin accumulation and these genetic traits maybe what was observed and can be seen (Pic E.) This is a feature that was not observed in the first plant which did not suffer this kind of temperature fluctuation.

So what were the results? From the first grow with one plant filling the tent alone and after some of the top buds were discarded as a result of rejuvenation, the yield weighed in at five and a half ounce of lovely crystallised bud. The second grow, with two plants filling the tent yielded just slightly less than eight ounce, but here we have to bear in mind the traumatic temperature drop and its adverse effects, as mentioned earlier, calyx production decreases when plants are exposed to lower temperatures and these two plants certainly experienced that!

Upon reflection, we are probably looking at a return of around five to six ounces from the single Destroyer plant under a 250w HID, which all things considered, is not too bad a return for the investment in time and equipment, especially when we take into account the lower use in electricity during these times of recession.



# What Experts Say

Author: Sebastian Daniel

Virtually all studies taken by governments have shown cannabis to be the most benign intoxicant in use today. The clear conclusion is that personal use should not involve criminal sanctions. It is disturbing to think that all these studies have been sponsored by tax-payers' money, yet the governments still choose to ignore them.

1930s propaganda movies like the infamous *Reefer Madness* warned that marijuana leads to acts of shocking violence, incurable insanity, and sexual licentiousness. In the 1970s government experts claimed it contributed to the growth of abnormally large breasts in young men. In the 1980s marijuana was accused of causing homosexuality and AIDS, as well as both increasing and decreasing sexual activity. Books like *Marijuana Alert* were so frightening that many users switched to alcohol, cigarettes, and other addictive and dangerous drugs. The author of the book stated that a man can drink quite heavily for 20 to 30 years without alterations to the brain, but using pot for even a short time will cause brain damage. President Ronald Reagan said in a warning against marijuana use: "I now have absolute proof that smoking even one marijuana cigarette is equal in brain damage to being on Bikini Island during an H-bomb blast."

Sadly, such anti-marijuana misinformation, whether from the 1930s or the 1980s, is still alive, widely distributed in many countries. This propaganda has resulted in decades of fear-mongering from generations of guardians of youth: teachers, police, clergy, parents. People the world over worry that their children

will go insane, participate in sexual orgies, become murderers, heroin addicts, or at the very least criminals. Clearly, the propaganda has had its effects. The American National Academy of Sciences states: "Over the past 40 years, marijuana has been accused of causing an array of anti-social effects: in the 1930s, provoking crime and violence; in the early 1950s, leading to heroin addiction; and in the late 1950s, making people passive, lowering motivation and productivity, and destroying the American work ethic in young people. Although belief in these effects persists among many people, they have not been substantiated by scientific evidence."

Three relevant quotes from vastly different notables apply here. Thomas Jefferson, an archetypal Renaissance man along with being the third US president, noted that an uninformed person is in a better situation than a misinformed one: "He who knows nothing is closer to the truth than he whose mind is filled with falsehoods and errors." Gerald Massey, a more modern poet and Egyptologist wrote: "They must find it difficult...Those who have taken the authority as the truth, rather than the truth as the authority". Joseph Goebbels, Hitler's minister of propaganda, came up with an effective formula for indoc-

“GOVERNMENT EXPERTS CLAIMED THAT MARIJUANA USE CONTRIBUTED TO THE GROWTH OF ABNORMALLY LARGE BREASTS IN YOUNG MEN, CAUSED HOMOSEXUALITY AND AIDS, AS WELL AS BOTH INCREASED AND DECREASED SEXUAL ACTIVITY.”

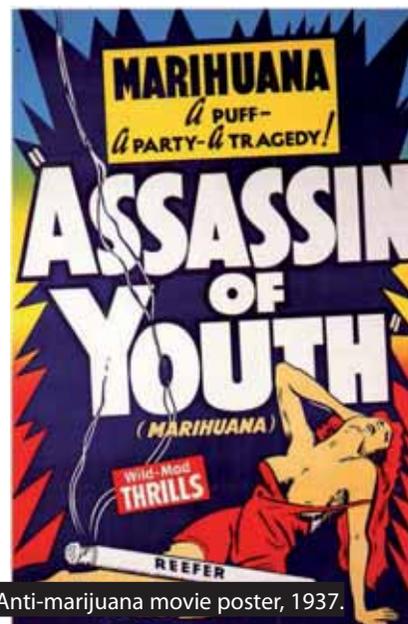
trinating the masses: if you keep on repeating a lie over and over again, it finally becomes a well known truth.

What really are the short and long term effects of using cannabis?

### Reports of Official Commissions

Many government reports, both recent

and older, state that consuming cannabis does not pose a threat, and they exhort a change in the law. In 1998 the prestigious magazine *New*



Anti-marijuana movie poster, 1937.

Scientist wrote that "past commissions and reports tried to clear the clouds of unreason but were universally ignored." Since the 1894 Indian Hemp Drugs Commission report, subsequent committees in many countries have reported that the harmfulness of cannabis has

declared against prohibition and for a policy of harm reduction.

One of the later pioneers of anti-prohibition was New York City Mayor Fiorello LaGuardia, who did not believe the federal government's blaming marijuana for the increased crime rate among juveniles; he said there should be no laws which could not be enforced. LaGuardia formed a team of 31 scientists of various specialties who for 7 years examined the problem from both medical and sociological points of view. In 1943 they refuted most of the propaganda myths, stating that consumption of cannabis did not lead to aggressive or uncontrolled sexual behavior and did not disturb one's personality. This was the first of many official reports to be censored, confiscated, or thrown out by the US government. Decades later, the same would happen with the conclusions of a committee appointed by President Nixon, and more recently a report by the WHO.

Committees were brought into existence in the 1960s and 1970s by governments in the U.S., Canada, Great Britain, Australia, and the Netherlands, all of whom were responding to the growing popularity of cannabis. Each committee reached similar conclusions

been exaggerated, though politicians generally ignore such conclusions.

In the 19th century a British government committee in India stated that it was difficult to separate the medical application of hemp from its recreational use. Experts reminded that hemp had been used from time immemorial and was sanctioned by religion. They

to those of the LaGuardia commission. Such committees usually consisted of experts initially unfavorable to cannabis; they should be praised for their objectivity and ability to verify data. This was the case with the Baroness Wonton Committee in Great Britain. Wonton was a social scientist and Governor of the British Broadcasting Corporation (BBC). The committee consisted of psychia-

**Hollinwood Hydroponics**  
**Manchester's Cheapest Supplier!**  
 Large Amount Of Stock On Site  
 All The Popular Brands!

Plagron ATAMI CANNA Growth Technology  
 Rhino Filter Advanced Nutrients plantboost Technics

[www.hollinwoodhydroponics.co.uk](http://www.hollinwoodhydroponics.co.uk)  
 Bourne St, Oldham, OL9 7LX - 0161 681 5151

**HYDROBLOOMS HYDROPONICS LTD**

- Hydroponic Systems
- Grow Media
- Ventilation
- Filters
- Grow Tents
- Lighting
- Nutrients
- Fans
- Videos & DVDs
- Literature & More

01902 546 042 07576 289 699

[www.hydroblooms.co.uk](http://www.hydroblooms.co.uk)  
 michael@hydroblooms.co.uk

23a Church Lane, Wolverhampton WV2 4BT

trists, a pharmacologist, a sociologist, and an experienced police officer. In 1969 the committee published a report which agreed with the conclusions of

the Indian Hemp Drugs Commission and with New York's Mayoral Committee on Marihuana that long term consumption of cannabis in moderate doses had no harmful effects. The committee warned against strident populism as, once, coffee and tea had also been radically condemned.

**“IF YOU KEEP ON REPEATING A LIE OVER AND OVER AGAIN, IT FINALLY BECOMES A WELL KNOWN TRUTH.”**

President Johnson's 1967 Commission on Law Enforcement and the Administration of Justice stated that marijuana is equated in law with opiate products, but the characteristics of abuse of the two substances have almost nothing in common. Only a small percent of marijuana users graduate to heroin.

In 1972, the National Commission on Marijuana and Drug Abuse appointed by president Nixon advised the US Congress to remove criminal penalties on the possession and nonprofit distribution of marijuana. “Neither the marijuana user nor the drug itself can be said to constitute a danger to public safety,” concluded the commission. Nixon was furious about the report's findings, which could prove to be politically harmful, and decided to ignore it.

Canada's Commission of Inquiry into the Non-Medical Use of Drugs, often referred to as the Le Dain Commission after its chairman Dean Gerald Le Dain, completed its work in 1972. The final report recommended cannabis be removed from the Narcotic Control Act and that the provinces implement controls on possession and cultivation similar to those governing the use of alcohol. The Commission also warned against “the destruction of young lives and a growing disrespect for law”.

In 1998 the world largely ignored the scandalous news that the WHO had



removed an entire chapter from its report on a 15-year examination of the harmfulness of drug addiction. The chapter compared alcohol to nicotine and cannabis. The report stated, among other points, that marijuana, contrary to alcohol, did not negatively influence development of the fetus, and that it did not block the respiratory system or negatively affect the lungs like nicotine. Why was there so little reaction to such

legalization of marijuana. Prof. Mikolaj Kozakiewicz, social scientist and Marshal of the Polish Parliament, commented on the situation by stating that once again science had been sacrificed for political, religious or ideological purposes.



The same year, a committee appointed by the French Minister of Health examined legal and illegal drugs and divided them according to their addictive power and harmfulness to health and society. French experts categorized all drugs into three distinct categories: those that pose the greatest threat to public health, those that pose moderate harm to the public, and those substances that pose little-to-no danger. Alcohol, heroin, and cocaine were placed in the most dangerous category, while investigators determined that cannabis posed the least danger to public health. Marijuana was the only illegal element of the least dangerous group.

### Amnesty Now!

A few commissions went even further. The Senate Special Committee on Illegal Drugs in Canada recommended in 2002 that the government amend Canadian legislation in order to create a criminal exemption scheme that would allow 'for obtaining licenses, as well as for producing and selling can-

nabis'. The report refers to the Biblical references to cannabis and other historical accounts. The Canadian Senate Committee completed an exhaustive review of marijuana and health, concluding: “Scientific evidence overwhelmingly indicates that cannabis is substantially less harmful than alcohol and should be treated not as a criminal issue but as a social and public health issue.” The Committee asked, as a consequence of this legislative modification, for an AMNESTY to be declared for any person convicted of possession of cannabis under current or past legislation.

the business community united behind a call for a shift in global drug policy. The 19-member panel includes former presidents of Mexico, Colombia, Brazil,



Switzerland and Poland, as well as Kofi Annan (former UN Secretary General), George Schultz (former US Secretary of State), Mario Vargas Llosa (Nobel prize laureate), and Richard Branson (businessman), among others.

### Hemp Is Here To Stay

The UN Single Convention Treaty on Narcotic Drugs was originally declared in concert with suggestions from a delegation of US “drug warriors” in 1971 – one reason why American-style marijuana prohibition is enforced around the world. Jimmy Carter, former US President and 2002 Nobel Peace Prize winner, has encouraged the American government to support and enact the reforms laid out by the Global Commission on Drug Policy. In 2011, Carter published an article called “Call Off the Global Drug War” in *the New York Times* in which he states: “In a message to Congress in 1977, I said the country should decriminalize the possession of less than an ounce of marijuana, with a full program of treatment for addicts. I also cautioned against filling our prisons with young people who were no threat to society, and summarized by saying: Penalties against possession of a drug should not be more damaging to an individual than the use of the drug itself.”

Richard Davenport-Hines, an award-winning British historian, considers the War on Drugs a technique of informal American cultural colonization. Clearly, the age of colonization is behind us.

A commission led by three former Latin American presidents, all considered political conservatives, called the drug war a failure – even pushing Latin American societies to the breaking point. In 2009, The Latin American Panel in Mexico City recommended that governments consider measures including decriminalizing the use of marijuana.

In 2011, the World Global Commission on Drug Policy called for the legalization

**“COFFEE AND TEA HAD ALSO BEEN RADICALLY CONDEMNED.”**

of cannabis. A high-level international commission declared the global “war on drugs” a failure and urged nations to consider legalizing cannabis and other drugs to undermine organized crime while protecting their citizens' health. Former presidents and prime ministers, influential economists, writers, activists and leading members of

Professor Mitch Earleywine writes in *Understanding Marijuana: a New Look at the Scientific Evidence*: “We are close to a point where people can tolerate those who think differently. Perhaps we can tolerate people who want to use marijuana without doing harm to themselves or others.” Legalization is around the corner.

**NEW SHOP  
NOW OPEN**



• 10% off in store  
on production  
of this advert\*  
\*Conditions apply

# TRIANGLE HYDROPONICS

**Bournemouth's most convenient  
hydroponics and plant lighting retailer**

Unit 6 Central Bournemouth Business Park  
Southcote Road, Bournemouth BH1 3SJ  
Tel no. 01202-556661  
www.trianglehydroponics.co.uk  
admin@trianglehydroponics.co.uk



# Ltt Cannabis Seeds Maasbree

Agri Culture & Horticulture Trading

Groesweg 37  
5993 NN Maasbree  
Netherlands  
Tel. +31 77-477 09 19  
Fax +31 77-354 42 22

www.growshopltt.nl  
info@growshopltt.nl

Open:  
Monday-Friday 10.00-17.00  
Saturday 10.00-15.00

**Only 3 kilometres from Venlo**  
There can be only one the best ...

# BUSHMAN



- THE BEST SEEDS
- JEWELLERY
- INCENSE
- FRAGRANCE OILS
- CARVINGS
- BODYJEWELLERY
- GIFTS
- BOOKS
- FURNITURE
- TRINKET BOXES
- CLOTHING
- CHAKRA SETS
- LIGHTING
- DECORATIVE ITEMS
- DIGEREDOOS
- LEGAL HIGHS
- AND MUCH MORE...

75a STOKES ROAD  
GOSPORT  
PO12 1LS  
TEL : 02392711418

**WWW.BUSHMAN.CO.UK**



# Grow-Green

WE HAVE NOW OPENED ANOTHER NEW HYDROPONIC STORE IN TAMWORTH

**WE WILL BEAT OR PRICE MATCH ANY GENUINE PRICE!**



1. 15-17 Green Lane, Castle Bromwich, Birmingham, B36 0AY Tel: 0121 241 6445
2. Unit 4 Castle Industrial Estate, LA Grange, Tamworth, B79 7XD Tel: 01827 62766

**www.grow-green.co.uk**

- A** Always answering your prayers
- N** Never Judges
- G** Growing in the right direction
- E** Excellent results
- L** Love light & happiness to all
- G** Grow, grow, grow your plants
- R** Ryan & Glen :D
- O** Oh you just found out our customers are getting the best results
- W** We want you to have the best education possible

Formal education  
will make you a living.  
Self education  
will make you  
a fortune.

Respect costs nothing. Education is the most powerful weapon. Keep going and keep growing. Your education is our business. The more education we give the more sales we get.



Telephone: 07858 123 456  
3 Woodlands Farm Rd. Pye Hayes B24 0PJ  
off Eachelhurst Rd. Just up from the Saab Garage

# RED EYE AMAZON

your pleasure is our business



SEEDS - ROLLING PAPERS - BLUNTS - ONA - GRINDERS - BONGS - FLAGS



Seeds



Legal Highs



EDIT contact lenses



Bandanas

www.redeyeamazon.com | redeyeamazon@gmail.com | Tel: 07976 247 920  
Red Eye Amazon - 4 Taunton Road - (Off Ladypool Road) - Birmingham - B12 8BT



# uk growworks

hydroponic & horticultural specialists



## OUR STORES

- |   |  |  |
|---|--|--|
| 94 Upper Wickham Lane<br>Welling<br>Kent<br>DA16 3HQ<br>0208 854 5160 | Unit4 Belltower Ind Est<br>Roedean Road<br>Brighton<br>BN2 5RU<br>01273 624327 | Unit F16 Northfleet<br>Lower Road<br>Gravesend<br>DA11 9SW<br>01322 838131 |
|---|--|--|

**10%**

**DISCOUNT WHEN YOU SHOP ONLINE\***  
PUT IN CODE: **SOFTGROW** AT THE CHECKOUT  
\*offer only applies to our online store

**www.ukgrowworks.co.uk**

Complete Setups | Grow Tents | Hydro Systems | Insect & Disease Control | Lighting  
Nutrients & Additives | Propagation | Ventilation Equipment and Much More!!

**Soft Secrets**

# Jack 47 Auto

# Supply and Demand

**In the most basic social-economic sense, those that own the means of production control Supply. Within market-economies, unless goods are damaged or past their sell-by-date, there is little room for manoeuvre at point of sale. The Seller therefore usually holds the upper hand over the Buyer at market.**

by *Lazystrain*

In the most basic social-economic sense, those that own the means of production control Supply. Within market-economies, unless goods are damaged or past their sell-by-date, there is little room for manoeuvre at point of sale. The Seller therefore usually holds the upper hand over the Buyer at market.

When Demand outstretches supply then the economic value of a product steadily increases. In contrast when supply overwhelms demand the value of a product gradually decreases. Usually one of two methods of supplying products is then employed. Either over-stocking a product and selling it cheaply for a limited period, or limiting the supply of a product and selling it at a high price over a longer period. Much of which depends on the means and cost of production.

The driving-force behind any capitalist-economy is money. Within legal economies most money earned is banked, taxed and then exchanged for commodities and luxury items. In contrast within illegal (black market) economies money earned is spent on commodities and luxury items without the process of banking or taxation.

Within legal economies all avenues of money slowly trickle towards the govern-

ment, global corporations, and wealthy landowners; those that own the means of production. Within illegal (black market) economies the flow of money slowly trickles towards local entrepreneurs, global cartels, and landowners overseas; those that own the means of production to facilitate demand, and then supply it.

## Cannabis Supply and Demand

In the case of cannabis, the process of supply and demand has changed dramatically over the past few decades in Europe. Traditional the demand for cannabis was relatively low. The supply of cannabis imported from Africa, Asia, and Central America often reflected this in amounts. Small quantities of good quality cannabis from Afghanistan, Barbados, Colombia, India, Jamaica, Kenya, Lebanon, Malawi, Mexico, Morocco, Nepal, Pakistan, and other places, were regularly available at reasonable prices. The cannabis-market was then controlled by a small network of friends and associates.

Gradually as demand for cannabis increased the business of supplying cannabis multiplied. Likewise more and more cannabis needed to be cultivated and produced to supply demand. Growers in Holland then applied a combination of Dutch (and Israeli) horti-

cultural methods in conjunction with Mexican marijuana techniques.

Initially this provided local Cannabis Suppliers with a new avenue of production besides importation. With such a close proximity to the Netherlands, this allowed Wholesale Suppliers to start importing cannabis into the UK from Holland, sometimes in vast quantities.

As the methods mastered by Dutch pioneers filtered out, many people throughout Europe wanted to supply their own demand and got involved. This resulted in a sudden uptake in the practise of Home-Growing as well as the number of people growing cannabis Commercially to supply other peoples demand.

## Micky's BlackMarket

Since the most illegal aspect in cultivating cannabis is the law, many people choose to ignore the law completely as far as cannabis cultivation is concerned.

The most illegal aspect in supplying cannabis in the UK, other than breaking the law, would be the aspect of benefiting from a business transaction without submitting invoice details for the purpose of taxation.

Any Wholesale Dried Flower Supplier that has ever had a sub-machine gun stuffed in their face by SO19 Officers, soon discovers that it was actually Her Majesty's Inland Revenue & Customs that first started to investigate their case. The reason being, the Tax Man still wanted his money. Especially if it was gained by illegal earnings!

Traditionally Wholesale Suppliers would open 'fronts' (shops, bars, business) which although running at a loss helped to wash their illegal cash. Today however, regulations following 9/11 often restrict the flow of capital from one place to another without certification of transaction. To elaborate this fact, the 500euro note was recalled by the European Central Bank. They did the maths and worked out the only people that could afford to carry 500euro notes were major drug dealers and arms suppliers.

## Market Forces

Today in 2012, the Cannabis Market is often maintained by outside forces. The hype that surrounds certain cuttings generates its own price in places, while the underground cannabis media also fuels the fire of desire in others. Online-breeders which adopt a demi-god status in order to mentor sales from their Customers. Bag-dealers that aren't even touching the bags of "food" they are selling. In a relatively short period of time, Cannabis has become yet another of life's "non-renewable products".

On the flip-side the wider-bubble that surrounds the cannabis-market today extends well beyond cannabis – especially when its called "Hemp". Hemp is a multi-million dollar industry that legally produces, promotes, and submits taxes over hundreds of thousands of legal products.

Sadly however so long as an uptake in the 'Hemp' industry persists, then the number of conglomerates displaying an interest in the Cannabis Market will also persist. The medicinal spray Sativex is one such example. The use of Hemp fibres in the Lotus 'eco' car is another. Let us not forget that Henry Ford's first motor-car was made out of Hemp, from the door panels down to the carburettor. In fact the whole vehicle ran on hemp seed oil, covered more miles per gallon than gasoline, and was environmentally sound with little fuel emissions.

Ford's Hemp-mobile held so much potential, that the Petroleum giant Du Pont stepped in and bought up his patent. Thus meaning that no-one else could produce a Hemp-Car in future. Perhaps just another example of how Market Forces aim to regulate the supply of cannabis in the modern age.

## The Future

In future the Supply and Demand for Cannabis will remain to be regulated by those market forces which hold the most interest in its cultivation. There will always be those that wish to mislead, mislabel, or misrepresent cannabis, which will restrict its supply and increase demand.

Cannabis "legalisation" in the UK would generate such a demand that without the "decriminalization" required to produce significant quantities of cannabis, supply would simply run dry. At which point Government backed corporations, with vested interests, would step in and control the cannabis whole market, hemp and all.



# STONERR

Now there's a micro-job website where talented stoners and entrepreneurs can offer their expertise to buyers and in exchange be paid exceptionally well for their hard work.

Micro-job websites are becoming an increasingly popular method for freelance sellers and interested buyers to find each other. There are literally thousands of jobs available on these sites. From the practical, like writing, website development, and video-related services, to the sometimes ridiculous, micro-job websites include nearly any service imaginable. Stoners are often excluded because of the highly specialized skills involved. Stonerr.net addresses this void.

We wanted to offer freelance designers a much more lucrative alternative to ordinary micro-job sites. We reward our sellers with a generous commission on every sale rather than be limited by the often very low prices set by other

micro-job site's administrators.

**Sellers Can:**

- Create a New Job for Each Service Offered
- Share Their Jobs Easily On Social Media Sites
- Receive an Amazing Rate of 90 percent on Every Sale
- Withdraw Earnings Easily From PayPal

**Buyers Will:**

- Search through High-Quality Services for a low price
- Pay Quickly, Easily and Safely with PayPal
- Track the Seller's Progress, Update Orders and Transfer Files Quickly
- Request Corrections If Necessary
- Provide Informative Feedback

We are certain that Stonerr.net will become an invaluable resource for both online freelance design providers, as well as for buyers searching for the high quality services they demand.

Index of ads Name	Page
8 Ball Hydroponics	1
Advanced Seeds	7
Amsterdam Seed Center	31
Angel Grow Hydroponics	51
Atami	56
Big Stone River Indoor Garden Centre	47
Bio Nova	12
Brit Crops	19
Buddha Seeds	10
Bushman	51
Clever Green	1
Clockwork Horticulture	24
Deep Impact Plant Care	44
Dinafem Seeds	13
Down to Earth Kent	31
Dr. Blooms Hydroponics	1
Ed Rosenthal	36
Eva Female Seeds	44
Flower Power Seeds	27
Grass-O-Matic	17
Green Park Hydroponics	47
Grow Green II	51
Grow Room the	47
Growing Underground	35
Growryder	17
Hesi	2
Hollinwood Hydroponics	49
Hydro 2 Grow	14
Hydroblooms Hydroponics	49
Hygrow II	28
Jorge Cervantes	40
LTT	51
Money Tree Hydroponics	8
Mycologics	54
Nirvana	21
Paradise Seeds	1
Paradise Seeds	31
Phytolite	25
Plagron	4
Procare	54
Red Eye Amazon	27
Red Eye Amazon	51
Royal Queen Seeds	24
Southern Hydro Centre	35
Stanford Hydroponics	1
Sweet Seeds	55
TNT Air Products	44
Triangle Hydroponics	51
UK GroWorks	51
UK Skunkworks	47
Wellingborough Hydroponics	28

### Colofon

Soft Secrets is published by Discover Publisher BV  
 P.O.Box 362, 5460 AJ, Veghel, Netherlands  
 Telephone: +31-(0)73-5498112  
 Fax: +31-(0)73-5479732  
 E-mail: [uk@softsecrets.nl](mailto:uk@softsecrets.nl)

**Editor:** Cliff Cremer

**Contributors:** Ed Rosenthal, Jorge Cervantes, Lazystrain, Dr. John Dee, Grubbycup, Little Lebowski, the Professor, Kali Mist, Buddy Kush, Sativa Diva and others

**Comics:** Jim Stewart

**Editorial address:**  
 E-mail: [ssuk@softsecrets.nl](mailto:ssuk@softsecrets.nl)

**Advertisements:**  
 E-mail: [james@softsecrets.nl](mailto:james@softsecrets.nl)

**A word from the publisher:**  
 The UK government has embarked on a process of relative liberalisation towards the use of cannabis, and cannabis activists are engaged in broadening this engagement. Several local councils and police chiefs now actively support a Dutch-style coffeeshop system as a way of separating soft and hard drugs, as it has proven to do in Holland. Whether they are finding their way to new coffeeshops or growing for their personal supply, cannabis users are a menace to no one, and are causing no discernable social problem. Some politicians and commentators are calling for the outright legalisation of marihuana. Let's wait and see how the debate develops during a period of relative peace between all sides of the argument. In the meantime, the publisher hopes Soft Secrets will show the public a positive side to the normalisation of cannabis use, and is anxious to offer a forum to both pro- and anti-legalisation advocates. This assumes that the publisher does not necessarily agree with everything that appears in articles and advertisements. The publisher therefore distances himself explicitly from published statements or images that might give the impression that an endorsement is being made for the use or production of cannabis.

Nothing from this publication may be copied or reproduced in any format without prior permission from the publisher and other copyright holders. The publisher is not responsible for the content and/or point of view of advertisements. The editors take no responsibility for unsolicited submissions.

**Next issue out:  
 December 28 2012**



## Growkits and Magic Truffles

NEW FORMULA = MUCH HIGHER YIELD

Ask your local growshop



MagicTruffles.com

# Sweetseeds®



Best Seeds Bank  
Expocannabis 2007

[www.sweetseeds.es](http://www.sweetseeds.es)

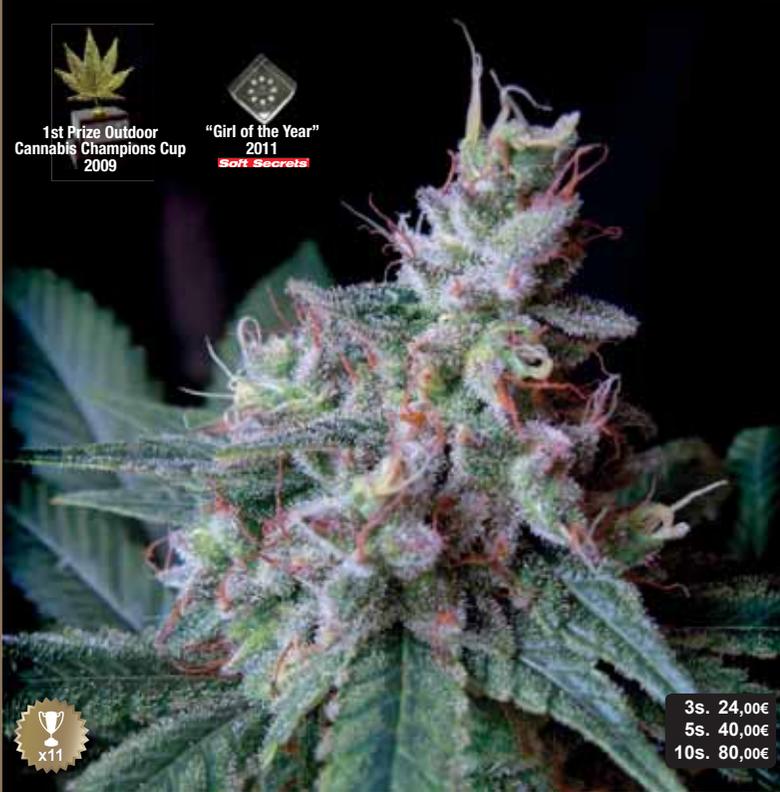


Best Seeds Bank  
Spannabis 2008



## Cream Caramel®

Indica/Sativa: 90%-10% · Blue Black x Maple Leaf Indica x White Rhino



1st Prize Outdoor  
Cannabis Champions Cup  
2009



"Girl of the Year"  
2011  
*Soft Secrets*



3s. 24,00€  
5s. 40,00€  
10s. 80,00€

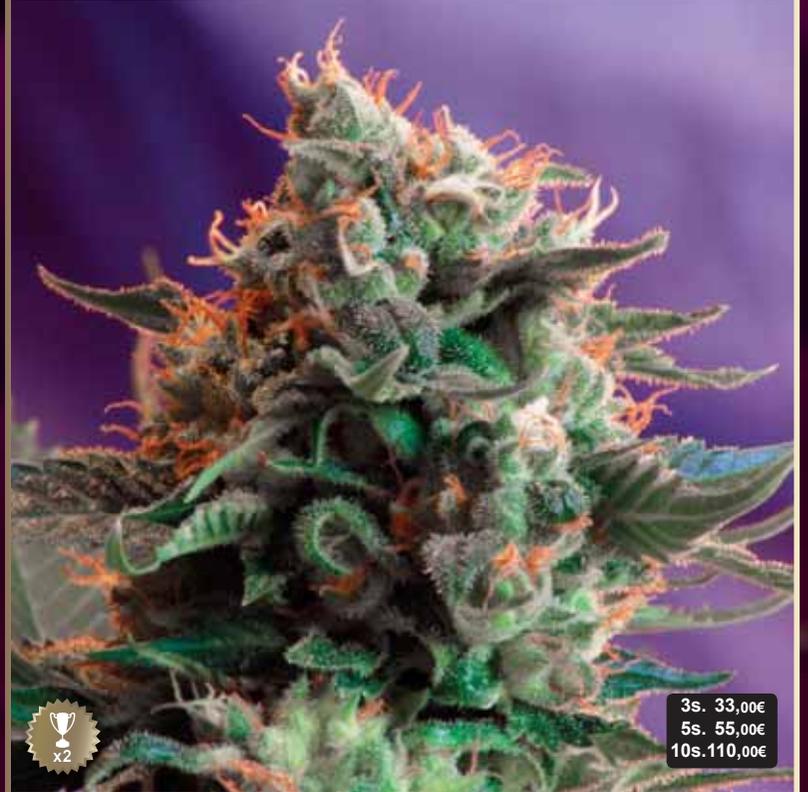
Also available in 2nd GENERATION Autoflowering  
*Cream Caramel Auto*®



3s. 20,00€  
5s. 33,00€  
10s. 66,00€

## Jack 47®

Indica/Sativa: 25%-75% · Jack Herer x AK47



3s. 33,00€  
5s. 55,00€  
10s. 110,00€

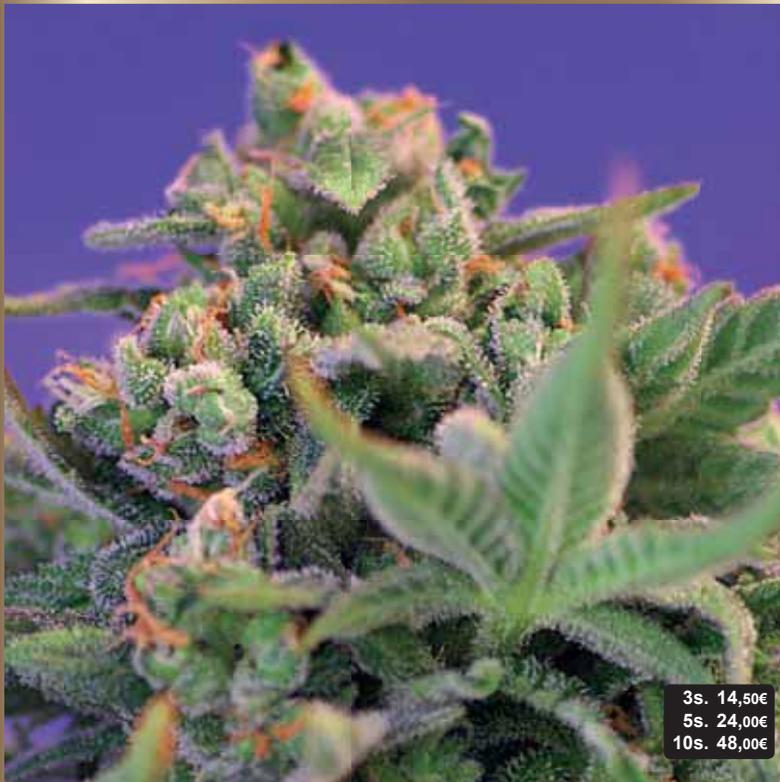
Also available in 3rd GENERATION Autoflowering  
*Jack 47 Auto*®



3s. 29,90€  
5s. 48,90€  
10s. 98,80€

## Sweet Cheese®

Indica/Sativa: 30%-70% · Cheese x Black Jack



3s. 14,50€  
5s. 24,00€  
10s. 48,00€

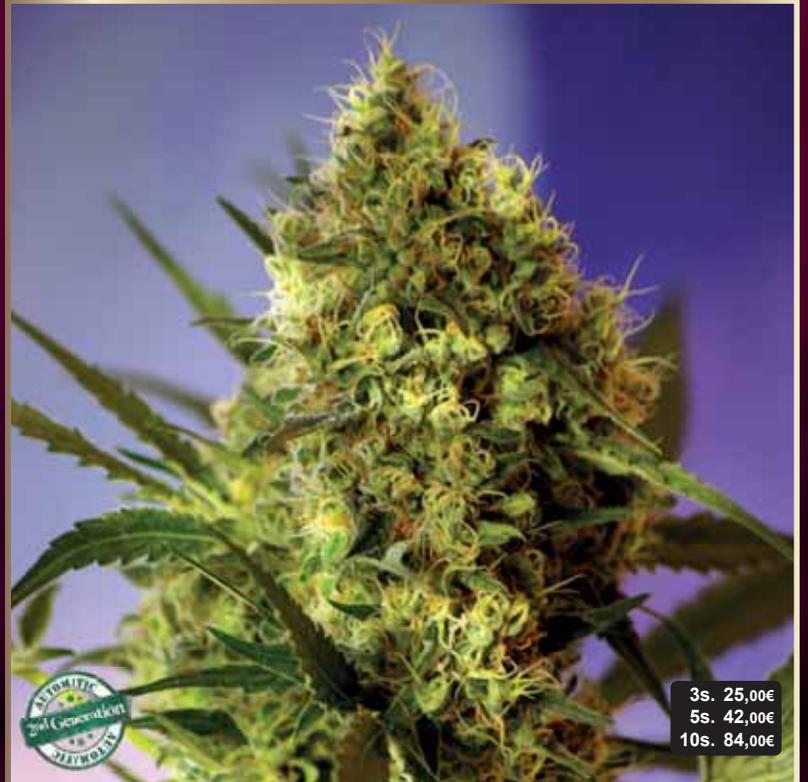
Also available in 3rd GENERATION Autoflowering  
*Sweet Cheese Auto*®



3s. 14,90€  
5s. 24,50€  
10s. 48,70€

## Big Devil #2®

2nd GENERATION AUTOFLOWERING



3s. 25,00€  
5s. 42,00€  
10s. 84,00€

Also available *Big Devil*®

*Big Devil XL*®

3s. 19,90€ | 5s. 33,00€ | 10s. 66,00€

3s. 26,50€ | 5s. 43,90€ | 10s. 87,80€

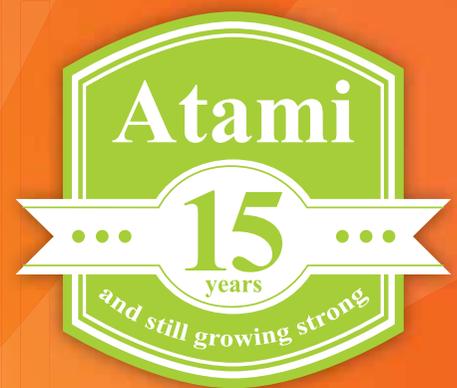
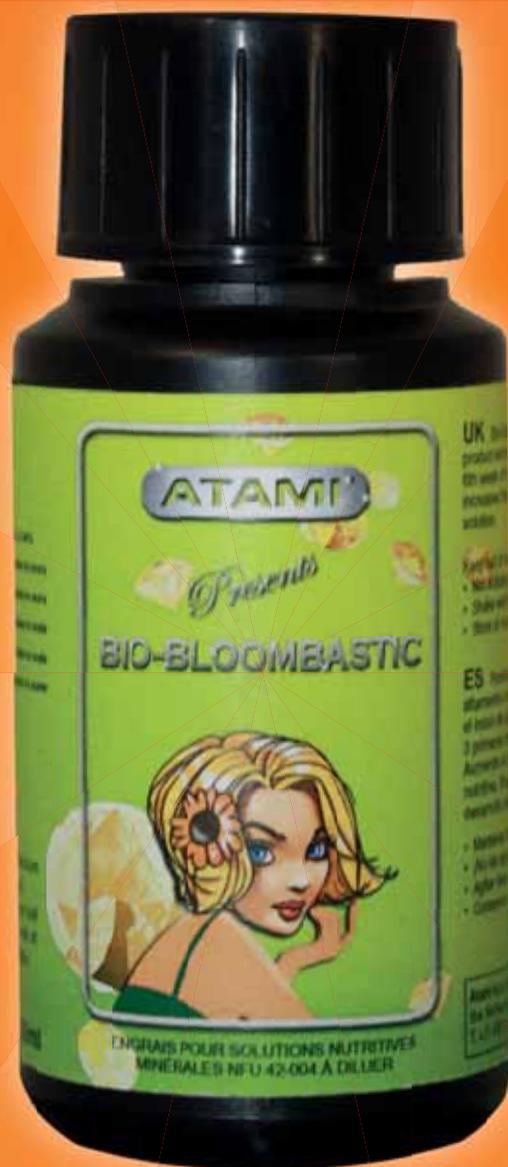
More strains in [www.sweetseeds.es](http://www.sweetseeds.es)

C/Dr. Nicasio Benlloch, 36-38 · 46015 · Valencia · España · +34 963 890 403 · +34 963 473 730 / +34 963 404 289 (Wholesalers) · Fax +34 961 934 843

Sales are prohibited to people under 18 years old. Seeds are exclusively for collectionist use. It is illegal to make them germinate. They are not for agriculture purposes. Consult laws about cannabis applied in your place of residence. Sweet Seeds will not be accountable for illegal use of these seeds by third parties.

**ATAMI**  
NATURALLY INNOVATING

# Coming soon the new **BIO-BLOOMBASTIC**



**ONCE AGAIN THEY HAVE SUCCEEDED!**

Following Bloombastic® en Rootbastic® Atami responded positive to the demand on the market

**Bio-Bloombastic is a fact!**



FOLLOW US ON FACEBOOK

INFO@ATAMI.COM • WWW.ATAMI.COM

