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or 076 176-7392

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**Circulation**

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Smallholding settlements of

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**FRONT COVER**

Seed swapping ... see inside

**COMMENT, by Pete Bower**



**Our water crisis**

Unless a miracle occurs in the next few short weeks, and the heavens open above the mountains surrounding the Cape Peninsula, Cape Town will become the first world city in modern history to run out of water.

For the city fathers now predict that day to happen in mid-April. From that day, taps in most of the city's residential areas will run dry and the city's nearly four million residents will be required to queue at 200 designated collection points where tankers will dispense a few litres at a time.

Of course this won't be anything new to residents of many of the city's poor areas, as it wouldn't to residents of many townships throughout South Africa, where dry taps are a part of modern life, but for the blue rinse brigade of Bishopscourt and Sea Point this will bring a whole new set of challenges. How, for example, is a retired old biddy living out her twilight years in a flat in a Sea Point high-rise, expected to wrestle a 25 litre container of water upstairs?

The notion that a world-class city and major tourist destination could run out of water is unbelievable. Yet it starkly demonstrates the incompetence of our government. For the provision of water to inhabitants is one of the most basic functions of any government or civil administration and in our law is a responsibility of national, not provincial, government. But it is one that requires careful planning, and on-going attention to maintenance and support. Water infrastructure doesn't happen overnight. Dams take decades to build, pipelines must be dug, purification plants built and pumping stations maintained. In all these areas, the cadre-deployments who have replaced much of South Africa's civil administration over the past 25 years have been shown up as woefully ~ even criminally ~ negligent.

In fact, very little has been done by national government to expand the water reticulation of the city of Cape Town, despite the fact that the population of the city has doubled in the past two decades. Thus, it is small wonder that the dams that were built to supply a metropolitan area of two million residents would run dry when expected to supply four, especially when faced with a couple of years of dry weather. So one should be wary of blaming the current crisis on a few years of drought. All the current dry years have done is highlight, firstly, the fact that predictions up to two decades ago of a drier western half of southern Africa as a result of climate change have proved spot-on, and, secondly, the fact that a lack of development of additional water infrastructure to cope with the growing population was, at some stage, bound to become a crisis.

But Cape Town has been getting the lion's share of the publicity, probably because of its iconic tourism status. Up the East Coast things are just as bad, if not worse.

Small towns around Port Elizabeth, for example, already have the tanker-delivery story well entrenched, and PE itself will soon run out.

Further inland, things are no better. In Beaufort West, for example, charitable aid organisation Gift of the Givers has just sunk a borehole for the town, though why a charity organisation should provide a borehole for public use when that should be a function of national government is a question which needs asking.

And, of course, town dams throughout the Little and Great Karoo have been dry for years.

And it's not only people who are suffering. Western Cape agriculture has cut its water consumption drastically, which has affected the grape and deciduous fruit industries, so one can expect a smaller wine vintage and fewer fruit exports ~ and higher prices in the supermarkets.

Likewise, citrus is falling off the trees in the Gamtoos Valley because of a lack of water, so one can expect a smaller Eastern Cape citrus crop, and thus higher prices there, too.

But why should this concern us, smallholders in Gauteng? Because the provision of adequate, clean water should be a national concern. We are not immune to the effects of drought, as the state of the Vaal Dam in the winter of 2016, showed. And that water which we do have we are wasting woefully. The Vaal River as it passes Parys is now no more than an open drain, its turgid brown waters emitting the unmistakable pong of raw sewage, and its surface covered in a light coating of detergent bubbles, all the result of the breakdown of treatment plants up river, and the lack of enforcement of municipal and national water regulations ~ in itself another example of the incompetence of the ANC government over the past 24 years.

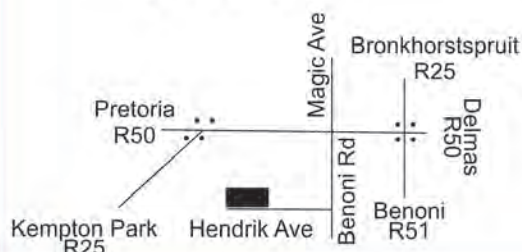
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# Alien parakeet is wrongly named

**S**ir ~ Regarding the letter from Fred of Nietgedacht (*Smallholder* Dec/Jan) nowhere in my parrot/parakeet books could I find a reference to a rosy cheeked parakeet, and Dr Google also does not know about these birds either. It is either a rose-ringed parakeet (Indian ringneck) or a rosy-faced parakeet, a very much smaller edition and an inhabitant of Namibia. Both the Indian ringneck and the rosy-faced parakeet are

bred in large numbers by birdkeepers in South Africa  
**Joop**  
*By email*

You are quite correct. Fred named the bird incorrectly. He was referring to the rose-ringed parakeet. While it may, indeed, be bred by keepers in South Africa, it is a declared alien invader species.

~ Editor

Right: Rose-RINGED parakeet, not rosy-CHEEKED parakeet, aka Indian Ringneck. Alien invader species



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# Beware this mole snake lookalike

While the snakebite season is now in full swing, a number of serious snakebites have already occurred in Gauteng, says the African Snakebite Institute. Many bites from deadly snakes are difficult to prevent as people accidentally stand

on snakes, especially at night. But the snake that has been biting lots of people recently is the poorly-known Stiletto snake, also known as the Side-stabbing snake. It is a small nondescript snake growing to 30 ~ 40 cm in length, dark brown to blackish in colour and spending most

of its life underground. It usually emerges in the early evening, especially after summer rains, and often ends up in swimming pools. For some reason people mistake Stiletto snakes for Mole snakes, even though they are far too thin to look like one. The big danger is their fangs

and potent cytotoxic venom. If grabbed behind the neck the snake will twist its head sideways with one fang protruding and will stab it into a thumb or finger. Otherwise, if caught at midbody, the snake will thrash around with its fangs sticking out and the

Continued on page 8



Bibron's Stiletto Snake (*Atractaspis bibroni*), sometimes mistaken for a mole snake. Picture copyright Johan Marais

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## NEWS

# Average rainfall in Gauteng

Perhaps because last summer was exceptionally wet in Gauteng this season, to mid-January anyway, seems exceptionally dry. In reality, however, it is distinctly average. As measured in Bredell on the East Rand, by mid-January 2017 Gauteng had received 675mm of rainfall from the start of the rainy season in 2016. That was far and away the most received over the same period in the past six years. Over the same period to mid-January this year the rainfall was measured as 459mm. In reality this is the fourth highest

figure for the past six years, 2013 and 2014 having also been wetter at 529mm and 500mm respectively. One of the factors which may lead one to believe the season is dry is the frequency with which we experience wet weather, for the rain events have been few and far between, but quite heavy when they come. This is a definite change to the pattern in Gauteng a few decades ago, when rainfall seemed to fall more frequently, but in less volume per event.

## SNAKE



Close-up showing the large lateral fang of the Stiletto Snake. Picture copyright Johan Marais From page 7

person catching it will get bitten once or twice. Stiletto venom is potentially cytotoxic, causing immediate pain, swelling, blistering and in many cases severe tissue damage that may result in a digit or two being amputated. It is an extremely painful and destructive bite but is not considered potentially lethal. There is no antivenom for this snake's venom and doctors can only treat for pain and wait a few

days to see how extensive the tissue damage is. The Stiletto snake is absent from the Western Cape, most of the Eastern Cape and most of Namaqualand but common in KwaZulu Natal, Gauteng, Mpumalanga and Limpopo as well as much of Northwest, entering Zimbabwe, Botswana and northern Namibia. For more information: African Snakebite Institute, tel 073 186 9176



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# Pompom biocontrol thrips catches on

**H**ow bad is the pompom weed (*Campuloclinium macrocephalum*) infestation where you are this year? For the past few years the use of a biocontrol agent against the plant has been applied in Gauteng and it is instructive to gauge its efficacy and

success. The biocontrol agent in question is the South American thrips *Liothrips tractabilis* which lives on and attacks only pompom weed. The ARC Plant Protection Research Institute's Liamé van der Westhuizen reports that "where the insects have been

established over two to three seasons, we have recorded a reduction in height as well as in the number of buds per inflorescence." This is good because a reduction in height is a sign that the plant is under stress and the reduction in the number of buds will over time

also impact on the seedbank. She goes on to say, "*Liothrips* is in some instances also preventing plants from flowering altogether. The insects are however slow dispersers and the population needs to build up over a number of seasons before

Continued on page 13



A sea of pompom weed in the Rietvlei Nature Reserve

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## BIOCONTROL

From page 11

infected material can be cut, and redistributed."

Those of us who observe how the weed has spread throughout Gauteng probably view this progress and impact as being rather slow, when we just want the plants to die and disappear altogether.

Therefore it is important to understand what biological control is and that very few of the agents released on invasive plants ever eradicate the host plant. At best they will reduce the weed to acceptable levels.

The thrips are distributed to all interested parties without cost, however the insects need to be collected from the ARC Roodeplaat PHP office.

A database is kept with contact details of people wanting to release thrips and the ARC-PPRI supply insects accordingly, when available. Landowners can e-mail Ms v d Westhuizen on [vdwesthuizenl@arc.agric.za](mailto:vdwesthuizenl@arc.agric.za) if they want their names to be added to the list.

Researchers have found that thrips establishment is also linked to the time of release and therefore landowners should familiarise themselves with the characteristics of pompom re-growth early in the season. Adult thrips prefer

young, soft plant material. Late releases on mature, flowering plants are seldom successful.

"We try to extend the window period for release of the thrips during the flowering period by requesting landowners to cut pompom back to allow for re-growth before making a release. Early season (Sept-Nov) releases are therefore ideal."

It is also hoped that the leaf rust, *Puccinia eupatorii*, which was discovered in 2006 on field populations of pompom in Pretoria will also help to diminish the weed. Since then, pompom rust has spread through wind dispersal to most areas invaded by the weed.

In November 2013, an augmentative release strategy for pompom rust was implemented at field sites in Gauteng and has caused some dieback throughout the growing season, resulting in less rootstock growth and seed production.

Pompom weed threatens grasslands, open savanna and wetlands by decreasing the carrying capacity of the land. The plant is unpalatable to wildlife and agricultural livestock and causes skin irritations to animals.

## Classified site grows like Topsy

With the number of visitors to our new Small Farmers Online Exchange classified advertising website fast approaching 20 000 per month, in turn generating more than half a million page hits monthly, [www.sasfox.co.za](http://www.sasfox.co.za) is becoming the website of choice for smallholders and small farmers to buy and sell their produce and equipment. Among the facilities we introduced on the site is a set of pages designed to allow

small producers to sell or swap their produce, or their kitchen production. Thus if you grow your own vegetables, or if you are an artisanal cheesemaker, for example, there are pages on which you can advertise your produce. How you choose to part with your stuff is also up to you: you can sell it, or you can swap it with other small producers for items or produce that you desire but don't produce yourself.

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## INVASIVE PLANTS

# Gauteng's worst

The SA Nursery Association (Sana) has declared the following plants to be the worst invasive plants in South Africa: Pompom weed, Water hyacinth, Famine weed, *Lantana camara* and Bugweed.

Sadly, Gauteng plays host to

all of them except Famine weed, which is mostly a problem in Kwa Zulu Natal. However, closer to home, the association lists the following as the worst invaders in Gauteng itself. They are all Category 1b invader plants.

### ☐ Chandelier-plant

(*Bryophyllum delagoense*),

also known as Mother-of-Millions. An erect, hairless succulent perennial growing 1,2m high with grey-green, mottled leaves often having darker green to reddish spots. Flowers are pale orange to deep magenta appearing from June to July on the end of an erect stalk. Why it is a problem for smallholders is that it is very poisonous to humans and animals, according to Invasive Species South Africa.

### ☐ Moth catcher (*Araujia*



Moth catcher (*Araujia serifera*)

*serifera*) – A vigorous climber with milky sap growing to 5m or higher. Leaves are dark

Continued on page 17



Chandelier-plant (*Bryophyllum delagoense*)

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# INVASIVE PLANTS

From page 15

green and smooth above and pale green or whitish below with short, dense hairs. White, cream or pale pink flowers appear from November to April. Green, spongy fruits which turn brown and woody and split to release numerous blackish seeds. This too is poisonous, causing skin irritation. You will notice that none of your livestock will go near it.

☐ **Pampas grass** (*Cortaderia*

*selloana*) – Vigorous, tussock grass up to 3,5m in diameter, with flowering stalks up to 4m high. Greyish- or bluish-green leaves with rough margins. Silvery-white to pink or mauve, feathery inflorescences appear from February to April. This grass invades river banks and seasonally wet habitats. It forms large clumps which displace smaller



Pampas grass (*Cortaderia selloana*)

indigenous species.

☐ **Cat's claw creeper**

(*Dolichandra unguis-cati*) –

This is an invasive evergreen

climber, climbing as high as 9m with claw-like tendrils between the bright green oblong to lance-shaped leaves,

which have a terminal, three-part, claw-like tendril.

The bright yellow flowers appear from September to February and are trumpet-shaped, occurring in clusters of two or three, sometimes solitary. Flattened, brown leathery capsules hold the winged, papery seeds. This climber invades forest margins, woodlands, plantations, roadsides and urban

open spaces. It overtops, strangles and smothers indigenous forest and

Continued on page 19



Cat's claw creeper (*Dolichandra unguis-cati*)

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# INVASIVE PLANTS

From page 19

plantation species.

## □ Fountain grass

(*Pennisetum setaceum*) – A sparsely branching, tussock-forming perennial grass with feathery, spike-like inflorescences. The bristles are long and detach with the spikelets. The leaves are up to 40cm long and are not rigid or ending with sharp points. Inflorescence is 10-25cm long and is usually purple or rose-coloured. It forms stands

along road verges and in other disturbed sites with the potential to spread into adjacent natural veld.

Category 1b invaders may not be owned, imported into South Africa, grown, moved, sold, given as a gift or dumped in a waterway. Category 1b species are major invaders that may need government assistance to remove.

Other pesky Category 1b invasives are the Common

privet (*Ligustrum vulgare* Oleaceae) and the Common mulberry (*Morus alba*).

There are also some Category 2 weeds that we should be aware of – these are declared invaders with commercial value: Black wattle, patula pine, sisal, red eye, grey poplar, watercress, Port Jackson willow, guava, cluster pine, honey locust, and the weeping willow (not to be confused with the indigenous willow).



Fountain grass (*Pennisetum setaceum*)

## Online veg planting diary

**D**o you find, when you plant your vegetables, that the affairs of life often catch up with you, as a result of which you forget or neglect to plant successive batches for a continuous harvest?

If this haphazard approach characterises your veg growing activities, the good news is that

there's an on-line planning tool that will help you.

It's to be found at [www.gardenate.com](http://www.gardenate.com), and it comprises an online calendar of vegetables and herbs, helping you to decide what to plant this month, and to plan ahead with what to plant next month.

In addition, a description of

each species is given, including how to plant it, what to expect from it by way of harvest and even what to do with it once picked.

The program covers most of the English-speaking world, and is focused on the requirements in individual regions. Thus, when you log on you

Continued on page 21

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# IN THE GARDEN

## Save, and swap, your own seed

There's no doubt that heirloom vegetables often have a better flavour and texture than shop-bought modern hybrids. However, because they are still a relative novelty, obtaining a regular supply of seeds for your favourite heirlooms from season to season can be a challenge. The good news, however, is that, because they are open pollinated, the seeds of heirloom vegetables can be saved at home, ensuring you will always have a supply on hand to keep your kitchen stocked. Seed saving is widely practiced in many parts of the world and it is easy to do. Some species, such as tomatoes, peppers and the squashes, contain their seeds

in their fruit. To save the seed allow a good shaped fruit to ripen fully on the plant. Cut it open and scrape the seeds into a flat container.

Separate the seed from any pith, fibre or flesh and set the seed aside in a cool spot to dry fully for a few days. You can speed up the process by drying the seed in a biltong maker or food dryer. Don't dry it in the sun.

Store the seed in an envelope or bank bag, making sure to label it fully.

For species that release their seed from their flowers, such as onions and carrots you will have to allow at least one plant to live an entire life cycle. Perhaps set aside a few plants at the end of the bed for this purpose as you will

Continued on page 22



Seed swapping is a big phenomenon overseas. This event took place in Brighton, UK, last year

## WEBSITE

From page 19

will choose the section for South Africa – Summer Rainfall.

One drawback is that the vegetables are commonly given their American names, although to be fair to the site, common alternative names are given as well.

The site also includes a comment and queries form where you can ask questions relating to the different species and have them answered by experienced growers in your region. This is an open forum so there is much advice to be found in others' responses.

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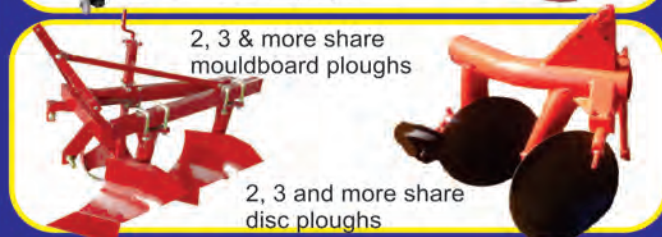
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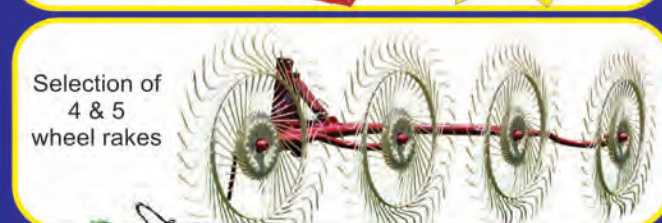
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# ON THE FARM

## New buzzword for farming: CSA

No till. Organic farming. Permaculture - there is a confusing number of different styles and philosophies of agriculture and the *Gauteng Smallholder* has described and explained many of them. A term that frequently recurs nowadays though, and one which is used by government officials quite freely, is Climate Smart Agriculture.

Climate Smart Agriculture (CSA) focuses on three aspects of agriculture:

- ☐ Sustainably increasing food security by increasing

agricultural productivity and incomes;

- ☐ Building resilience and adapting to climate change;
- ☐ Developing opportunities for reducing greenhouse gas emissions compared to expected trends.

CSA is not a new production system. It is a means of identifying which production systems and enabling institutions are best suited to respond to the challenges of climate change for specific locations, to maintain and enhance the capacity of agriculture to support food security in a sustainable way.

According to the Food & Agriculture Organisation (FAO) of the United Nations, the world's population will increase by one-third by 2050. It is estimated that that agricultural production will have to increase by 60% by 2050 to satisfy the expected demands for food and feed. Climate change is already

impacting agriculture through changes in temperatures and rainfall patterns (witness the current mess in the Western and Eastern Cape). We are also experiencing more extreme climatic events such as prolonged droughts, extreme heat and flooding. Research is being undertaken

Continued on page 23

## SEEDS

From page 21

have harvested the rest of the crop long before the designated seed-bearing plants are ready and will thus have wanted to reuse the bed for another planting.

Allow the plants to flower, and allow the flower to mature and dry out completely before cutting it off.

Over a container such as an ice cream tub pull the flower to pieces allowing the seed to fall out into the tub. Remove any remaining flower parts, bag the seed and label. If the flower is at the right stage when you process it the seed should already be mature and dry.

You will be amazed at how much seed comes from one fruit or flower ~ certainly more than you as a home gardener will need.

In this case, why not consider swapping your excess seed for other desirable varieties through a seed swapping meeting, or via a seed swapping site on the internet? Seed swapping is an established gardener's pastime overseas and it is becoming more popular locally. At least three websites cater for the needs of seed swappers, including the SA Seed Exchange, Seed Swap SA and our own [www.sasfox.co.za](http://www.sasfox.co.za) which has a page dedicated to the needs of swappers.

To swap seeds you will probably need more than one fruit or flower's worth. The seed should be carefully labelled, including as many varietal names as you can find. And a picture of the plant and its fruit will be helpful.

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From page 22

in order to help commercial farmers and smallholders to be ready to adapt and change.

Agriculture itself is also part of the problem in terms of emissions of greenhouse gases and other impacts on biodiversity and the environment, so a change in approach is necessary for mitigation.

In principle, CSA uses techniques which try to increase agricultural productivity in ways that are environmentally and socially sustainable. These methods include combining traditional and scientific knowledge. The techniques include mulching, intercropping with drought and flood-tolerant crops, conservation agriculture, integrated crop-livestock management, improved grazing, improved water management, crop rotation and changing planting schedules, as well as using enhanced weather forecasting and early warning systems. The FAO, at whose conference the concept of CSA was launched in 2010, has deemed this method of agriculture to be particularly suited to smallholders in developing nations. However, recent studies have shown that, although there are some success stories in Africa, including in South Africa, generally the concept has not been embraced on our continent.

Many small farmers and smallholders will find adoption of this agricultural approach challenging due to limited access to appropriate

**'One of the greatest problems is lack of access to appropriate information or inability to fully utilise existing information. What information there is does not use accessible language either.'**

farm equipment and tools, inadequate farm inputs and materials such as seeds, inorganic fertilizers, pesticides and herbicides, inadequate finance, limited physical infrastructure, unfavourable

land tenure systems and gender inequalities. Perhaps one of the greatest problems is lack of access to appropriate information or inability to fully utilise existing information. What informa-

tion there is does not use accessible language either. As with agriculture in general, CSA is a knowledge-intensive process that requires substantial planning, intuition and a willingness to experiment and learn. However, the knowledge base for CSA is substantially different from that for conventional agriculture. So if the government wants CSA adopted, it needs to give small farmers more training and support.

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## The components of a beehive

Worldwide, there are any number of designs and shapes of hives that beekeepers use to house their swarms. Some are based on designs that have been developed over millennia. Others take into account the availability of local material in their construction and yet others are designed with specific local climatic considerations in mind. In South Africa, the most commonly used hive design is the Langstroth, a flexible

multi-chamber design that allows the beekeeper to adjust the size of the hive according to the strength of the swarm.

The Langstroth is based on two sizes of chamber. At the

bottom, and fitting onto a solid base, is the larger of the two, the brood chamber, which with the base incorporates a small aperture at the base to allow for the entrance and exit of the bees.

Above the brood chamber is a shallower chamber commonly called the "super", which can be fitted in multiples to accommodate larger swarms. It is not uncommon to have a large swarm accommodated in a set-up of three or four supers. Atop the top super is an inner lid which seals and insulates the hive and, to protect the hive from the elements, a larger outer lid is fitted, which

Continued on page 28



Basic components of a Langstroth hive showing a brood chamber. One frame is removed to show the wax foundation sheet. Behind it is the inner lid and to the left the outer lid covered with an aluminium alloy plate.

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## ALIEN SPECIES —

From page 25

slides down over the top super to secure it and add a further seal.

The outer lid itself is covered with a thin metal plate, commonly a used aluminium-alloy printing plate, which protects it from the elements.

Both chambers have no floors or ceilings, which means the worker bees can move freely from the top to bottom of the hive to perform their tasks.

Fitted in each chamber are a set of frames, up to ten per chamber, which hang vertically, equidistant from one another, almost filling the chamber, but allowing a little space at the bottom.

The brood frames are deeper than the super frames.

Each frame has a series of stainless steel high-tensile wires running horizontally across it. To these, and into a groove at the top of the frame, is attached a sheet or strip of beeswax on which the bees build their combs.

The sheets and strips are embossed with a honeycomb pattern which the bees follow as the template when building their combs. Although it is possible to save a bit on beeswax by fitting only a starter strip of wax at the top of the frame and expecting the bees to build up the rest, many beekeepers fit sheets which fill the frame completely, making it easier for the bees to construct their combs so that they can start to store honey quicker.

In the bottom (or brood) chamber resides the queen, whose job it is to lay eggs to secure her succession as leader of the hive. To ensure that she doesn't wander and lay in the supers many beekeepers place a queen excluder between the top of the brood chamber and the bottom super. This is a fine steel mesh plate, the

apertures of which are large enough to allow worker bees to move up into the supers, but small enough to prevent the larger queen from doing so.

Apart from the aluminium roof plate and the queen excluder all the components of a Langstroth hive are made of wood. To prevent rotting, especially given that the interior of the hive can become moist through condensation, the wood is coated in a non-toxic preservative such as Waxol before use.

The outside of the hive is often painted, usually white or a light colour, to aid the bees in their orientation to and from the hive.

☐ If you would like to become a beekeeper, contact the beekeeping association nearest to you for help and advice.

~ Eastern Highveld Beekeepers Association covers the East Rand and Mpumalanga,

~ Southern Beekeeping Association covers greater Johannesburg, the West Rand and the South Rand

~ Northern Beekeeping Association covers Centurion and Pretoria.



Depending on the strength of the swarm, any number of super chambers can be added. This hive contains both size chambers in use as supers.

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# Hybrid or purebred: which is better?

**W**hen deciding to keep chickens one of the first and most important decisions you need to make is which type of bird best suits your needs.

When it comes to breeds of chickens, it is important to consider whether the breed is

used for meat production, egg laying or both purposes. Dual-purpose breeds produce eggs and quite a lot of meat.

However, another method of classification is whether the breed is pure-bred or hybrid. The hybrid chicken is created by crossing two or more different pure breeds and

sometimes crossing further after this.

There are hybrid crosses that produce table birds and hybrid crosses that produce hens for laying.

More recently, breeders have been producing hybrids that have attractive egg colours.

These chicken breeds are developed through careful scientific selection and genetic engineering in order to maximise traits that are desirable for commercial egg production.

In contrast to the diversity of pure breed varieties hybrids

generally have a uniform shape with flat brown, white or black colours predominating.

Hybrids do not breed true. If a male and a female of the same hybrid breed mate, then the chicks do not grow up exactly the same as their parents.

There are a number of benefits of using hybrids instead of pure breeds. Since the blood lines are so different from the parents, the offspring are usually very fit and healthy. When

Continued on page 31



Hyline hybrid ... popular in commercial operations

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From page 29

crossing certain strains of birds, you can get "hybrid vigour" where a chick is better than either of its parents.

Their weight varies ~ layers are usually light, fast maturing with good feed conversion. Table hybrids are heavy, to provide a good carcass in a short time, so are extremely fast to mature.

In South Africa, indigenous chickens, including Potch Koekoeks and Boschvelders, are today usually a mixture of breeds because the birds have bred freely. The indigenous breeds are usually well suited to their areas, but grow slowly and produce fewer eggs than a hybrid bred for egg laying.

Well known hcommercial ybrids in South Africa are the Harco layer, Hyline layer and Ross and Cobb 500 broilers. In today's commercial poultry production, only hybrid



Pure-bred Orpingtons in two colourations

chickens or cross-breeds are usually selected for meat and egg production.

For example, they will lay more eggs than the special or the dual purpose chicken breeds. They usually lay large eggs, which could either be white or brown, depending on the chicken breed.

The hybrid chickens also have a very good feed efficiency.

They will eat less food per kilogram of weight gained or per kilogram of eggs produced. The male chicks of the hybrid layers grow very fast and can be slaughtered for extra income from poultry meat sales.

Hybrid broilers are also quite advantageous. They grow faster than pure breeds and have excellent feed conver-

sion ratio making them very profitable to grow as they produce more breast meat than pure poultry breeds.

As a consequence of their prolific egg laying hybrids can be very active which means they can be slightly more aggressive towards each other. Their environment may suffer as they energetically scratch and forage. However, their inherent hardiness, predictability and cheaper cost price make them a good choice for the beginner or anyone who is looking for a consistent egg supply.

Pure-bred chickens are

Continued on page 33

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# Plot burials: a grave situation

Considering smallholdings are made when larger established farms are divided up into smaller pieces of land,

it is possible that you might have inherited a grave or small cemetery on your plot. Decades ago, it was custom for farmers to bury members

of their families on their farms. Times have changed, however, and the practice of burying people in family graveyards on the farm has to

a large extent disappeared. It was also common to find that farm workers and members of their families were also buried on the farm. According to custom and religious belief, rituals would be carried out by someone who is entitled to do so, to declare the piece of land allocated by the owner to now be a home for the

Continued on page 35

From page 31

breeds which will breed true - the young will always resemble the parents. These breeds were developed through careful selection by small farms and breeders, or through natural intermingling between wild breeds. Purebred chickens generally have a distinctive appearance, and are most commonly named after their particular place of origin, eg, Leghorn, Orpington, Plymouth Rock or Rhode Island Red. Each breed has its own breed club which looks after its interests, and draws up a set of standards for the breed. The best examples of the breed will be those most closely adhering to the standards. Many purebred chicken breeds were once kept for their exceptional egg production, but because of a tendency to breed "for show" (ie, for physical characteristics), modern bloodlines of these chickens aren't quite as capable egg layers. For example, the Australorp chicken was once famed for laying as many as 350 eggs per year, while modern Australorps lay a more modest 250 eggs. Some think that purebreds have more personality than commercial layers and that they are more adaptable to different conditions, including changes in temperature and diet. They are often more alert and flighty, which makes them more difficult to handle, but better at evading predators. Purebreds generally live longer. Because there is a wide range of pure breed to choose from,

there is a wide range of temperaments and characteristics to deal with. For this reason it is important to research the traits of specific breeds thoroughly

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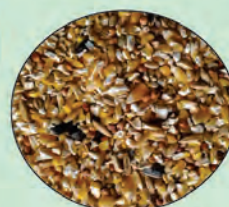
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# LAND USE

From page 33

ancestors of the bereaved family.

Workers are still claiming the right to bury their family members on farms.

According to the Extension of Security of Tenure Act (ESTA) they have this right if they can show that they are an "occupier" on the farm where they intend burying the deceased; that the deceased was a member of their family and was also living on that land at the time of her or his death; that the burial sought would be in accordance with his or her



religious and/or cultural beliefs and that an established practice on that farm exists to bury deceased family members.

In the case of the farm having been sold and subdivided, even if the members of the family no longer live on that land, ESTA ensures that they have the right to visit and maintain their family graves on land which belongs to another person, subject to any reasonable condition

imposed by the owner or person in charge of such land in order to safeguard life or property or to prevent the undue disruption of work on the land. ESTA also allows the family of the buried deceased to maintain graves indefi-

nately, including tombstones and railings.

However, in most cases the new owners of a smallholding will not know the families and might feel that they can dispose of the evidence that people had been buried there.

Apart from a variety of legislative provisions which criminalise violations of graves, it is an offence in

common law to desecrate a grave. Nonetheless the common law does entitle an owner who has no agreement with bereaved families to remove a grave's railing and tombstone as long as no violation of the grave occurs. Should you need to relocate a grave or cemetery you will find yourself facing a number of legal challenges, as well as the ancestral issues outlined above.

However, leaving the graves undisturbed will provide you and your family with a constant reminder that death is part of life.

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## How ticks threaten humans and pets

**D**ifferent ticks carry various bacteria which can cause diseases in humans, dogs and cats. When an infected tick bites a human, the bacterium is transmitted in the tick's saliva.

*Amblyomma hebraeum* transmits *Rickettsia africae*, the cause of African tick-bite fever in humans. The larvae of *A. hebraeum* are probably more responsible than any other tick for tick bites in humans. Other ticks that are

**It is well-known that ticks can affect livestock (Smallholder November 2017). But smallholders and our pets are also at risk because of where we live.**

able to harbour the organism belong to either the *Amblyomma*, *Dermacentor* or the *Rhipicephalus* family of ticks.

Symptoms may include fever, headache, muscle pains, malaise and a rash. At the site of the bite there is typically a black eschar (a black mark where the bite occurred).

Onset usually occurs four to ten days after the bite.

Symptoms can vary, depending partly on the organism involved. Age and underlying health may also influence the severity of the infection.

However there is a second, rarer, form of tick bite fever in

South Africa transmitted by *Rickettsia conorii* which is much more severe, causing multiple organ problems and a fever, headache, rash and even organ failure.

A doctor is likely to make a diagnosis based on the patient's symptoms and the likelihood of having been bitten by a tick, rather than relying on the results from blood tests which take too long, so the doctor probably won't even bother to have a test done.

Where the tick bite fever is fairly mild, people may get better on their own without specific treatment. This can

take up to two weeks however, and treatment with an antibiotic can shorten the duration of symptoms and reduce the chance of a serious side-effect.

In severe cases, antibiotic therapy is more important, and can be lifesaving.

A good way to prevent tick bite fever is to avoid being bitten by ticks ~ difficult if you enjoy camping and hiking or if you are working out in your pastures on your plot.

However, it helps to cover exposed skin by wearing long-sleeved shirts, long pants and hats. Light coloured clothing makes it easy to see ticks. Tuck in shirts, tuck pants into socks, and wear closed shoes instead of sandals to prevent bites.

Continued on page 38

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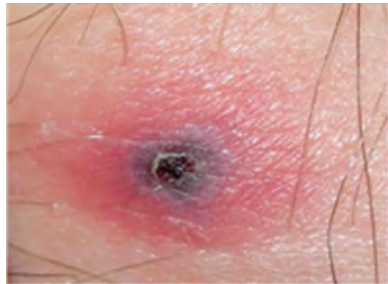




# TICKS

From page 37

There are various forms of insecticides which are made to be sprayed onto fabrics. It's



Eschar ... Site of a human tick bite

best to treat clothes before dressing. There are proprietary fabric sprays available as well as a powder which one mixes with water and then soaks the clothes in it. Once the fabric is dry it is safe to wear. You only need to re-apply spray either after every second or third wash or even longer for some

products.

Apparently ticks which come in direct contact with the treated fabric will not bite and will eventually die off.

If you are camping you can treat your sleeping bags and other linen, with no harm to the fabric.

There is also a brand of hiking socks which contains a formulation of the insect repellent permethrin, embedded in the fibres of the sock, which protects the wearer against tick bites, as well as mosquito, midge and flea bites. This effect can last up to 30 washes.

Dogs and cats that spend most of their time outdoors are at high risk of picking up ticks and fleas, which they bring into the home.

Frequent vacuuming, regular washing of pets' bedding



A tick latched on to a pet

above 60°C and leaving it out in the sun for a few hours will go a long way to reduce the burden of these parasites.

The bedding can also be treated with the sprays or soaks mentioned above. If the dog sleeps in a kennel, there is what is called a hard surface spray, which the makers say is effective for at least six months.

Also ensure that your garden is free from debris and leaves and that the areas around patios, under decks and under lawn furniture are kept clean.

Keep ticks from climbing and grabbing on to a passing pet

Continued on page 39

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From page 38

or loved one by keeping the grass cut and trees and shrubs trimmed.

You also need to treat your pets proactively with regular monthly use of a proven tick repellent. You can use powders, shampoos, dips, collars, spot-ons or tablets and it's best to consult your veterinarian for the best product for your particular pet.

For dogs, one of the natural repellents that a lot of people have success with is rose geranium oil, which can be applied to your dog's collar. Do not use any essential oils on cats.

It's very important to check your pets for ticks because ticks carry biliary fever which is an illness of the liver and often fatal to dogs. It is caused by the parasite *Babesia canis*, which is introduced into the body by a

tick bite.

The severe form causes death within a few hours and treatment is of little avail.

More commonly dogs suffer from the less severe form. This is recognised by the dog being listless or lethargic, losing its appetite and running a temperature. If your dog shows these symptoms, do not wait until its mucous membranes become pale, white or yellow, which commonly suggests a more advanced stage of the disease. Fever is present only while the patient is actively fighting the parasite; the disease may be present with a normal (38,5°C) or subnormal temperature. Yellow faeces and brown or red urine also suggests the presence of biliary fever.

Biliary in cats is caused by *Babesia felis*. Fortunately it is only found along the coastal regions of South-Africa. It is

important to note that biliary in cats does not present with the same symptoms as in dogs.

Another disease transmitted to cats is Feline Infectious Anaemia. Once a critical level of red blood cells has been destroyed, patients start to display clinical signs of anaemia (pale or yellow mucous membranes, lethargy, anorexia and weight loss). Frustratingly, this organism may remain unnoticed for weeks and diagnosis through blood smears or external laboratory tests remain problematic. Fortunately cats

respond well to, albeit prolonged, antibiotic and corticosteroid therapy. Proper tick and flea control and prevention, however, remains the first and most important line of attack.

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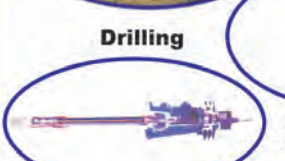
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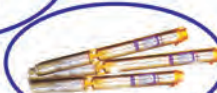
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Bar Length: 510 mm (20")
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Bar Length: 610 mm (24")



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- **32.7 cc Straight Shaft**  
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1.035 kW/1.8 hp/7500 rpm
- **51.7 cc Straight Shaft**  
1.50 kW/2.00 hp/6500 rpm



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**16 Liter**



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- Heavy Duty Gearbox



**Push Brush Cutter**

**42.7 cc**  
1.35 kW 1.8 hp  
7000 rpm



**Hand Held Blowers**  
**25.4 cc**  
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Air Distance: 9 m  
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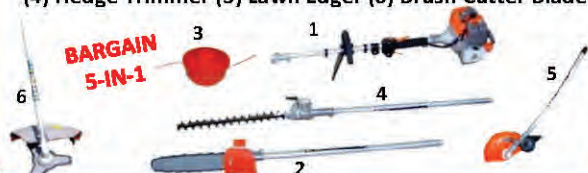
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25 mm



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## Recycling: How much do you do?

If you are lucky enough to have municipal rubbish removal in your area take a drive around the streets on rubbish collection day and marvel at the amount of stuff your neighbours throw away. Outside many gates you will find overflowing dustbins surrounded by heaps of oversized cardboard, polystyrene and bags of waste.

### Reduce your landfill waste to a fraction. Here's how...

If, indeed, this is the case outside your own gate you could be doing a great deal more to recycle, thereby putting usable waste back into the production stream and reducing the amount of matter than finishes up in landfills.

For by adopting a few simple

steps in the home you can reduce your actual household rubbish volume to no more than half a black bag a week. Here are some tips.

#### □ Paper and cardboard –

Are you on chronic medication? In which case you probably collect a monthly supply of pills which, if they come from a commercial pharmacy (rather than from a government hospital or clinic) will be supplied in little cardboard boxes. And within the cardboard boxes will be a paper package insert giving details of the medication, dosage, side effects etc. After you have read the package insert once with your first round of medication, subsequent inserts become superfluous. And can be

recycled.

The same goes for the boxes in which cosmetics are purchased.

The point is that this is not a quick-fix, and it's sensible to have a box handy in which to put the empty containers as they happen, so that in time you will accumulate a meaningful quantity. Or,

Continued on page 43



It's the little things that count ... Medicine boxes and toilet roll inner tubes accumulating over time for recycling

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From page 41

rather, over time you will accumulate sufficient not to end up in a landfill. Toilet roll tubes (and those of kitchen paper towels) are also made of cardboard and can be flattened and recycled. Or, if you grow your own seedlings you can use toilet roll tubes as seedling starters. Cut them in half, and fill an icecream tub with them, fill with seedling soil, add seeds and water. When the seedlings are ready plant them out together with the toilet roll tube, which will gradually rot and turn into

humus in the ground.

If you run a home office all your waste paper can be recycled. If security is a concern, purchase a cheap shredder before emptying the paper into recycling bags. Small amounts of waste paper, particularly the softer varieties such as tissues and paper towelling, can be composted, although such items when used for medical purposes should perhaps be safely discarded municipally.

□ **Plastics** – Although two litre cooldrink bottles have many uses around the plot, they, and all other plastic items, are also recyclable.

□ **Glass** – It is well-known that glass is eminently recyclable and should never be thrown into the rubbish as a result. Be aware, however, that to do the job properly the glass should be sorted into colours first. That's because glass cannot be "bleached" of its colour when

molten. Thus, clear glass needs to be kept aside if it is to be reused as clear glass, and similarly with green and brown.

Spent light bulbs and fluorescent tubes should not be recycled as glass, however, as they contain noxious gases which should be recaptured under vacuum first. This is done by reputable electrical

contractors who have the necessary equipment to do so.

□ **Metals** -Tins and cans are another well-known recyclable, with aluminium cans fetching a much higher price when recycled than metal cans. As a result it makes sense to separate these two types when discarding them.

Continued on page 45

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From page 43

**Household appliances** and electronics - In today's increasingly throw-away economy it is impossible to repair small appliances when they break, and in today's convenience-driven world many more small appliances have motors and batteries within them. Think electric razors, hairdryers, blenders, massagers etc.

While the outers of such devices may be made of plastic, inside there is metal, and often metal of high value, which can be recycled. The same goes for old computers, screens and the inevitable accumulation of spare cables and leads one acquires every time one buys a new device. Specialist recyclers of electronics will take such items off your hands with relish.

**Batteries** - Lead acid batteries, such as car batteries

are, of course, recycled by law (you can't buy a battery without either paying extra or swapping it for a spent unit). But all batteries, even the small ones found in watches and cellphones should be recycled because they contain significant amounts of harmless chemicals and metals.

**Kitchen waste** - Most of your family's waste will be generated in the kitchen, and while much of it can be recycled, it is also here that the largest proportion of your landfill material will originate. Food waste such as vegetable peelings and uneaten food scraps can be composted, which bones and meat scraps can be disposed of in a bokashi bucket.

Used cooking oil should not be composted as it will prevent air from reaching other compostable material, leading to putrefaction. But

here are two uses to which cooking oil can be put. Firstly cooking oil is the feedstock for a large proportion of the biofuel made today, and if you generate large amounts, for example from a fast food outlet or restaurant, biofuel manufacturers will collect your oil for reprocessing. Smaller volumes of cooking oil, when combined with equal volumes of diesel, make an excellent form oil for concrete castings.

With much of your kitchen waste being recycled, just about the only stuff that should be consigned to a landfill is wet kitchen waste, in the form of used cooking and freezer bags, used clingwrap and the little polystyrene trays in which supermarkets sell their meat.

**Medicines** - Many people flush expired or superfluous medicines down the drain. This should be discouraged,

especially if your grey water is reused in your home or garden because although the quantities are small, many medicines contain complex chemicals which don't break down easily and which, over time, will build up as a soil contaminant. Rather, expired medicines should be returned to your pharmacy for safe disposal.

All the classes of recyclable material described have a monetary value when taken to a depot. However, for many the time and hassle involved makes it not worth

Continued on page 47



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## Mesh: Galvanised After Welding Sold in 30m rolls or p/m

Block Size	Wire dia.	915mm	1220mm	1830mm
6.4mm x 6.4mm	0.7mm	✓	✓	-----
9.6mm x 9.6mm	0.9mm	✓	✓	✓
13mm x 13mm	1.0mm	✓	✓	✓
13mm x 13mm	1.6mm	✓	✓	✓
13mm x 25mm	1.0mm	✓	✓	✓
13mm x 25mm	1.25mm	✓	✓	✓
13mm x 25mm	1.5mm	✓	✓	✓
13mm x 25mm	1.6mm	✓	✓	✓
13mm x 25mm	2.0mm	✓	✓	✓
25mm x 25mm	1.0mm	✓	✓	✓
25mm x 25mm	1.5mm	✓	✓	✓
25mm x 25mm	1.6mm	✓	✓	✓
25mm x 25mm	2.0mm	✓	✓	✓
25mm x 25mm	2.5mm	✓	✓	✓
25mm x 25mm	3.0mm	✓	✓	✓
25mm x 50mm	1.5mm	✓	✓	✓
25mm x 50mm	1.6mm	✓	✓	✓
25mm x 50mm	2.0mm	✓	✓	✓



## Mesh: Galvanised Before Welding Sold in 30m rolls or p/m

Block Size	Wire dia.	915mm	1220mm	1830mm
25mm x 25mm	2.5mm	✓	✓	✓
25mm x 50mm	2.5mm	✓	✓	✓
25mm x 50mm	3.0mm	-----	✓	✓
50mm x 50mm	1.6mm	✓	✓	✓
50mm x 50mm	2.0mm	✓	✓	✓
50mm x 50mm	2.5mm	✓	✓	✓
50mm x 50mm	3.0mm	-----	✓	✓
50mm x 100mm	2.0mm	✓	✓	✓
50mm x 100mm	2.5mm	✓	✓	✓
100mm x 100mm	2.0mm	-----	✓	✓
100mm x 100mm	2.5mm	✓	✓	✓

## Hexagonal Mesh (Oogies draad) 50m rolls/p/m

Hole Size	Wire dia.	915mm	1220mm	1830mm
13mm hole	0.7mm	✓	✓	✓
25mm hole	0.9mm	✓	✓	✓
75mm hole	1.8mm	✓	✓	✓
90mm hole	1.8mm	✓	✓	✓

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## Additions to your smallholder's library

The festive season may be but a distant memory, but a good book will always make a welcome addition to a smallholder's library. Here's a small selection of some new titles to consider.

\* *Sky Guide Africa South 2018* is a practical resource for all astronomers, whether they be novice, amateur or professional. It covers the

### WASTE

From page 45

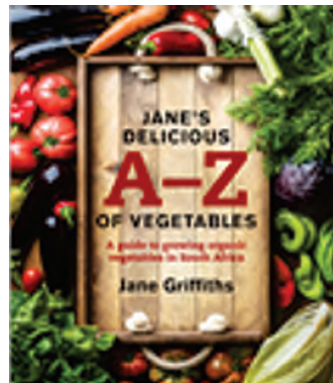
the effort. If that's your position an alternative is to seek out a commercial or semi-commercial recycler in your area who will come round regularly to collect your stuff, and who will by arrangement return in a few days' time with your monetary compensation.

upcoming year's planetary movements, predicted eclipses, meteor showers - any events and facets of the night sky that change annually. The guide also contains a wealth of information about the Sun, Moon, planets, comets, meteors and bright stars, with photos, diagrams, charts and images. Struik Lifestyle is the publisher, recommended price R140.



□ Work in a smallholder's vegetable patch is never finished, so you could have a look at two books for excellent advice.

*Jane's Delicious A-Z of Vegetables* is of course by the inimitable Jane Griffiths. Not only is it an accessible guide to the most commonly grown vegetables, but she also highlights many new and unusual ones now available. Written in Griffiths' quirky,



practical style and lavishly illustrated with full-colour photographs for easy reference, this is a one-stop guide to growing any type of vegetable organically. Publisher: Jonathon Ball. Recommended price R235.

\* Another book for the vegetable gardener is *Anyone*

Continued on page 48

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# BOOKSHELF

From page 47

*Can Grow Vegetables* by Diana Anthony. Learn about garden basics, edible garden design, companion planting, crop rotation, extreme climates, containers herbs for cooks, organic garden management, storing and preserving your excess crop. Recommended price R190, published by Metz Press.

\* There are also books aimed at getting children interested in growing things. Well known garden expert Keith Kirsten teamed up with Lynn Hurry for *Gardening is Fun* (Briza Publications), for only R59. Their message, conveyed by means of simple text and lively, colourful illustrations, is that gardening can be fun, easy and inexpensive. The book is filled with practical suggestions on how to grow plants and vegetables, interspersed with down-to-earth ecologi-



cal information aimed at fostering an environmentally-friendly approach to gardening.

□ For bird lovers, Vernon RL Head, author of the critically acclaimed bestseller *The Search for the Rarest Bird in the World*, is back. This time he's the editor of a remarkable collection of birding stories, *Featherlings: True Stories in Search of Birds*. (Jacana Press) Written by some of our most intrepid bird observers, this book will



convert a new generation of South African ornithologists and watchers of wilderness. Price: R252.00.

□ Another book from Jacana Press, *Invertebrates of Southern Africa and their Tracks & Signs*

covers a never-before-explored aspect of southern African nature and is an essential new addition to the library of every nature lover. *Invertebrates* - which include commonly seen creatures such as butterflies, spiders, beetles, worms and scorpions

- are everywhere. The book helps us to recognise the signs of their day-to-day activities, which are all around us if we know where to look. Recommended price R320.

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# DIARY

ATTENTION CRAFT MARKETS, CLUBS ETC: If you would like details of your events included in the Diary, please fax or email your information to the Editor. For non-commercial enterprises this service is FREE.

NOTE: FARMERS' & CRAFT MARKETS. For a listing of REGULARLY HELD markets and fairs please see the separate section on page 51. Only markets that are held infrequently are now listed in this calendar section.

Every Sunday  
Cattle drive with City Slickers breakfast, Diamond X Cowboy Ranch, near Cullinan. Call Rudan on 082 410-3180  
horses@diamondxranh.co.za,  
www.diamondx.co.za., R500 per person.

Mnandi Methodist Church, 09:00, Mnandi Centre, cnr Tulip and Short Streets, Jen 012 651-5509. Gail 072 477-0708., A small community who worship together. We have a Youth and Children's church.

Premier Mine Presbyterian Church, Lower Oak Ave, Cullinan. Garden of Remembrance (Columbarium), 079 060-9990 or 012 734-1640, Worship and Sunday school. Holy Communion for all on the 1st Sunday of every month.

Every Monday  
Alcoholics Anonymous. 'Courage to Change' Group meeting, 19:30, Benoni Agricultural Holdings, Marcus 082 042-7730. Warren 082 335-0049. Glen 072 239-3024., If you want to drink - that's your problem! If you want to stop - that's our

problem! No fees; no dues; just concerned fellowship.

## 2018

### February

5-9: Introduction to Small Stock Management Course, ARC Irene. R3 180 per person. Contact Mpho Makhanya 012 672-9153  
15: New Moon  
19-22: Introduction to Poultry Production Course, ARC Irene. R3 180 per person. Contact Mpho Makhanya 012 672-9153

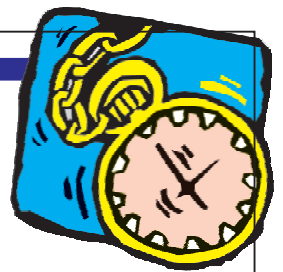
### March

2: Full Moon  
6-9: Introduction to Pig Production Course, ARC Irene. R2 900 per person. Contact Mpho Makhanya 012 672-9153  
9: Gauteng Rabbit Breeders Association Championship Show judging day, Walkerville Showgrounds  
10: 10th Overvaal Dexter Club Annual Auction, 11h00, Willem Prinsloo Agricultural Museum, R101, Rayton district. Male and female cattle as well as weaners on auction. Auctioneer: BKB van Wyk, call Carel Wessels 082 826-8400  
10-11: 56th Walkerville Agricultural Show, Walkerville Showgrounds. Traditional agricultural show with crafts, livestock, entertainment, pony rides, a beer garden and food court, a chilli eating competition and a giant pumpkin growers competition. Entrance R50 per car. Call Pauline 072 146-9176  
13-15: Cattle Artificial Insemination Course,

ARC Irene. R2 500 per person. Contact Mpho Makhanya 012 672-9153  
17: New Moon  
21: Human Rights Day  
30: Good Friday  
31: Full Moon  
31: Easter Market with Easter Egg Hunt, Bokkie Park, Southvale Road, Parkdene Boksburg. Call Janine or Joan 072 713-3332

### April

1: Easter Sunday  
2: Family Day  
16: New Moon  
27: Freedom Day  
30: Full Moon



### May

1: Workers Day  
15: New Moon  
15-18: Nampo Harvest Day Show, Nampo Park, Bothaville  
29: Full Moon

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# Regular Gauteng Farmers' Food Markets

NOTE: This is a listing ONLY of markets held to a regular weekly or monthly schedule. Markets held less frequently are listed in the DIARY section of the magazine and we urge readers to check each month for dates and events of interest. We would like this list of food markets to be as comprehensive as possible. If you know of farmers' food markets that are not listed here, please email us the contact details of the organisers, and details of the market. Only FOOD markets are included. Similarly, if you know of markets in this list that have CLOSED please inform us so that we can delete incorrect or outdated information. We invite you to tell us of your experiences when visiting these markets so that we can better inform our readers. Were they as advertised? Was the produce on sale plentiful, well-priced, well-presented and fresh? Email your comments to [editor@gautengsmallholder.com](mailto:editor@gautengsmallholder.com)

DAY	WHAT	WHEN	WHERE	WHO TO CONTACT	WHAT TO EXPECT
<b>Thursday</b>					
Every Thursday	Bryanston Organic & Natural Market	09:00 to 15:00	Culross Road (off Main Road), Bryanston.	Konrad or Glenda 011 706-3671 or <a href="mailto:glenda@bryanstonorganicmarket.co.za">glenda@bryanstonorganicmarket.co.za</a>	Quality hand crafted goods, unique art and fresh organic and naturally grown produce
<b>Friday</b>					
1st Friday	The Shed Night Market	18:00 to 22:00	109 Malcolm Road, Randvaal	016 365 8034	Food & craft market.
Last Friday	Walkerville Farmers Market	18:00 to 22:00	R112 Main Road, Walkerville	079 076-7680 <a href="mailto:info@wfmarket.co.za">info@wfmarket.co.za</a>	Fresh produce, arts & crafts, food court and kids play area
<b>Saturday</b>					
Every Saturday	Tuinhekkie Farmers Market	08:00 - 14:00	cor Lazar Ave & Merwe Road Bootha Plots, Randfontein	Amanda Hefer 073 565-8905	Handmade products, numerous food stalls, flowers live entertainment most Saturdays, farmyard for the kids
Every Saturday	Verster Park Tuin Mark	09:00 - 15:00	Plot 21, Lang St, Verster Park Bronkhorstspuit	Maggie van Rheede 061 887-4149	Hand crafted goods, art, naturally-grown produce Community market to promote local business
Every Saturday	Wholefood Country Market	09:00 - 14:00	Sawasdee Exotic Nursery, cor Main & Zinnia Roads, Kyalami	Robyn 083 311-4768 <a href="mailto:wholefoodmarket@gmail.com">wholefoodmarket@gmail.com</a>	Variety of organic & homemade foods
Every Saturday	Waterfall Estate Farmers Market	09:00 - 15:00	Waterfall Estate, Waterfall Corner Kyalami	Robyn 083 311-4768	Fresh produce, pickles, preserves and home industry and craft, food etc. Enquire about stall prices
Every Saturday	The Shed Food & Craft Market	08:00 to 15:00	109 Malcolm Road, Randvaal	Felicity 073 232-0017 or 081 011-9456	Food & craft market.
Every Saturday	Pretoria Boeremark	05:30 to 09:30	Pioneer Open Air Museum, Silverton.	012 804-8031 or 082 416-3900 <a href="mailto:blnsga@lantic.net">blnsga@lantic.net</a>	Fresh produce and traditional bazaar treats like jaffles, kailings with pap and boerewors rolls.
Every Saturday	Bryanston Organic & Natural Market	09:00 to 15:00	Culross Road (off Main Road), Bryanston	Konrad or Glenda on 011 706-3671 <a href="mailto:glenda@bryanstonorganicmarket.co.za">glenda@bryanstonorganicmarket.co.za</a>	Quality hand crafted goods, unique art and fresh organic and naturally grown produce
Every Saturday	The Hazel Food Market	08:00 to 14:00	Greenlyn Village Centre, cor Thomas Edison & Mackenzie Sts, Menlo Park, Pta	Rietha 083 554-5636. <a href="http://www.hazelfoodmarket.co.za">www.hazelfoodmarket.co.za</a>	Fresh produce straight from the producer. Coffee, eats on sale
Every Saturday	Walkerville Farmers Market	09:00 to 15:00	R112 Main Road, Walkerville	079 076-7680 <a href="mailto:info@wfmarket.co.za">info@wfmarket.co.za</a>	Fresh produce, arts & crafts, food court and kids play area
Every Saturday	Walkerville Country Market	09:00 to 15:00	Walkerville Showgrounds on the R82	Noorunisha 074 141-8485 <a href="mailto:market@walkervillesa.co.za">market@walkervillesa.co.za</a>	Fresh produce, crafter's market, food court, craft ber.. Kid's play area and pet friendly
Every Saturday	Bosheuvel Fresh Produce	10:00 to 19:00	54 Glory Road, Muldersdrift	Mitch 082 553-2846	Meats and vegetables, delicacies, honey, cheese, brewery, crafter's market and children's entertainment.
Every Saturday	The Fresh Produce Co-op Weekly Farmers Market	07:00 to 11:00	49 Olifantsfontein rd, Glen Austin	Stall inquiries: <a href="mailto:fpcstalls@gmail.com">fpcstalls@gmail.com</a> Co-op: <a href="mailto:info.freshhproducecoop@gmail.com">info.freshhproducecoop@gmail.com</a>	Fresh produce, pickles, preserves and home industry and craft, food etc.
1st Saturday	Jozi Real Food VEGAN Market	09:00 to 15:00	Pirates Sports Club, Braeside Avenue, Greenside	083 532 2992 <a href="mailto:whitespace@mwweb.co.za">whitespace@mwweb.co.za</a>	Arts & crafts, live music, vegan cuisine, organic vegetables & coffee
1st Saturday	The Green Market	09:00 to 12:00	Pretoria Botanical Gardens 2 Cussonia Avenue, Brummeria, Pretoria	Melissa 083 562-5249	Products ranging from solar equipment to organic food
1st Saturday	Victus Christi Arts & Crafts Market	08:00 to 14:00	24b Miles Sharp Street, Rynfield, Benoni (north side of Bunny Park)	Schalk 082 561-9409 <a href="mailto:info@victuschristi.org.za">info@victuschristi.org.za</a>	Arts & crafts, fine art, food, fresh meat & produce and home industry
2nd Saturday	Brakpan Boeremark	09:00 to 14:00	cnr van der Walt and Dirk van der Hoff Brakpan	Marius 011 744-2322 082 904-8852	Over 50 stalls. Food, arts, crafts, etc.
Last Saturday	Fresh2U Farmers Market	08:00 to 14:00	Corner Main Street and High Street Modderfontein (behind 33 High Street)	Jane 083 376 5567 Chantelle 082 338 7818 <a href="mailto:wardek@iafrica.com">wardek@iafrica.com</a>	Over 50 stalls. Fresh produce, home made goods, plants, food and more.
Last Saturday	Fresh Produce Market	08:00 to 13:00	Lakeside Mall Boathouse	Alma 079 940-0201 <a href="mailto:realfood4realpeople@gmail.com">realfood4realpeople@gmail.com</a>	Local fresh produce direct to the public
Last Saturday	Windpomp Market	08:00 to 14:00	Broodblik & Koffiepit on the R51 between Petit & Bapsfontein	<a href="mailto:adelekoffiepit@gmail.com">adelekoffiepit@gmail.com</a> 083 445-1608	Homemade crafts & food stalls bakery & coffee shop and entertainment
<b>Sunday</b>					
Every Sunday	Fourways Farmers Market	10:00 to 15:00	Corner Montecasino Boulevard and William Nicol Drive, Fourways	011 465 0827 <a href="http://www.ffmarket.co.za">www.ffmarket.co.za</a>	Get your groceries...In the garden!

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## How the Hatherley Hunt was named

Perhaps the reason why I never became a Springbok showjumper or international event rider has to do with my inauspicious start in competitive horsemanship. For I first competed on horseback in the early 1960s at a "show" organised by the Donkerhoek Perdesport Vereeniging, held on a dusty race course set up behind the old Donkerhoek Hotel on the Bronkhorstspuit road east of Pretoria.

There, the committee of the vereeniging decided, a "toenadering" should be attempted between its "boere" racehorse-owning members of Donkerhoek and the "rooinekke" who rode English-style in the Willows nearby. In those days, nobody owned horseboxes in Pretoria so to get to and from shows one had to ride, in our case an hour's gentle hack down what is now Solomon Mahlangu Drive, but which in those days was a deserted gravel road (it hadn't even been named after Hans Strydom yet), and then along the Bronkhorstspuit road to the hotel.

The show itself comprised a morning given over to English horse-pursuits such as showjumping and a gymkhana competition, all held on the sandy track in front of the hotel.

Thereafter, the afternoon was devoted to races, in which a bunch of brandy-soaked retired and washed up jockeys in faded and patched silks flogged a bunch of emaciated thoroughbreds around the track in clouds of dust, while inside the hotel the bar did a roaring trade and an illegal tote added some financial interest to the proceeding.

On the way to and from the show, unbeknown to us, we passed by a grand Victorian house, nestled in a forest of tall trees, the home, since the mid-1800s of the Marks family. The house was built by Sammy Marks, a Lithuanian Jew who arrived in Pretoria by way of England and Kimberley. He built his house with the proceeds of his activities as a mining magnate and merchant. Realising that Pretorians were a thirsty lot, he went into partnership with another immigrant from Eastern Europe, Alois Nellmapius, to build the first brewery, east of the town, at Eerste Fabrieken. The name survives as a station on the railway line in Mamelodi.

Next, realising that he needed bottles for his brew he set up the Hatherley Glass & Bottle Manufacturing Co, named after a farm he had bought in the area. The Hatherley name survives on a graveyard in Mamelodi East.

But there's an equestrian Hatherley connection as well. For in

the 1960s the rooinekke of the Willows organised a drag-hunt, which ran in the full traditional manner, with a master, whippers-in, a stirrup cup beforehand and a lavish, if somewhat dusty, hunt breakfast afterwards. If I'm to be accurate, I don't think the Hatherley Hunt ever owned its own pack. Rather, I recall, it borrowed hounds from Johannesburg's Rand Hunt for its meets. And the meets ran, as drag-hunts in South Africa must, over prepared ground in what is now the Silver Lakes estate.

But how did the hunt come to bear a name associated with Marks' bottling plant?

Before the first meet, an enthusiastic young rooinek riding master was out surveying the terrain for a possible track for the hunt with a gaggle of overexcited teenage girl riders and an overweight Pretoria stockbroker with equestrian pretensions.

Coming across an impressive donga the rooinek and his teenage hangers-on rode down, through, and up the other side a couple of times, before pausing on the edge of the donga to rest while the stockbroker took the slow way around.

While resting, he regaled the girls with a couple of tales of derring-do from his youth, so implausible that they began singing "how the hell can we believe you?"

Just then the stockbroker arrived somewhat flushed, and his horse, spying a particularly green tuft of grass, put his head down to graze, resulting in the stockbroker taking a gentle tumble over the horse's head and falling "plop" like an over-filled sack of spuds into the dust.

Raising his head, he heard the girls singing in their flet preetorria eccents "how the hell...etc" and he muttered, with all the grandeur that he could muster from his prone position "Hatherley... Yes, that's a good name for the hunt. We'll call it the Hatherley Hunt."

And that is how the Hatherley Hunt got its name. 'Strue. I would not tell a lie.





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