

# GAUTENG SMALLHOLDER

JULY 2018  
**HOW TO MAKE YOUR PLOT PROFITABLE**

Now also available  
~ as published ~  
**ONLINE...** go to  
[www.sasmallholder.co.za](http://www.sasmallholder.co.za)

**Free magazine:  
Take one!**

 Find us on  
**Facebook**

[facebook.com/gautengsmallholder](https://facebook.com/gautengsmallholder)

**IN THIS EDITION:**

**Psychology of roosters crowing**

**The bugs in your compost**

**The future? It's electric**

**Beekeeping...**

**... and much more...**



**More than 20 000 copies\* distributed monthly throughout Gauteng**

\*including online readers at [www.sasmallholder.co.za](http://www.sasmallholder.co.za)



# Ndebele Appliances & COAL STOVES



LIKE US ON FACEBOOK!

TEL: 013 932 1376

EMAIL: [ndebeleadmin@gramco.co.za](mailto:ndebeleadmin@gramco.co.za)

24 CHURCH STREET  
BRONKHORSTSPRUIT

1020



UNIQUE  
R 3990



UNION 7  
FROM:  
R 6590



KING NEW!  
R 7250



DESERT FIRE  
R 4300



DOVER 8  
FROM:  
R 4700



LADUMA DE LUX  
R 2550



MAGIC 302  
FROM:  
R 4900



DESERT FIRE DE LUX  
CANOPY  
R 7800



JEWEL 73'S  
FROM:  
R 5200

ALL COAL STOVE SPARES, PARTS & ACCESSORIES AVAILABLE

VISIT OUR WEBSITE: [www.ndebelestoves.co.za](http://www.ndebelestoves.co.za)



**PUBLISHED BY**

Bowford Publications (Pty) Ltd  
*Established 1985*

(Reg No 2004/019727/07)

PO Box 14648, Bredell 1623

Tel: 011 979-5088

or 076 176-7392

Fax: 086 602-3882

website:

[www.sasmallholder.co.za](http://www.sasmallholder.co.za)



[facebook.com/gautengsmallholder](https://facebook.com/gautengsmallholder)

**PUBLISHER & EDITOR**

Pete Bower

email: [gautengsmallholder@gmail.com](mailto:gautengsmallholder@gmail.com)

**RESEARCH EDITOR**

Vanessa Bower

email: [vanessa.bower@mweb.co.za](mailto:vanessa.bower@mweb.co.za)

**GRAPHIC DESIGNER**

Mark Hageman

email: [graphics@gautengsmallholder.com](mailto:graphics@gautengsmallholder.com)

**ADVERTISEMENT SALES**

Pete Bower

email: [gautengsmallholder@gmail.com](mailto:gautengsmallholder@gmail.com)

**ADVERTISING RATES**

(All Rates Full Colour, incl 15% VAT)

Full Page - R7 546

Half Page - R4 661

Quarter Page - R2 593

1/8 page - R1 372

Smaller sizes: R105 per col cm

(Minimum size - 4 col cm)

(Black only: colour rate less 20%)

**Booking discounts**

Payment lumpsum in advance.

3 insertions - less 10%

6 insertions - less 15%

(other payment and discount options are available)

**Circulation**

More than 19 000 copies\* distributed free through outlets in the Agricultural

Smallholding settlements of

Gauteng and adjoining provinces.

\* excluding on-line readers.

**By Mail**

To receive the *Smallholder* by mail subscribe for only R210 per year.

See coupon in this edition.

**Online Magazine**

[www.sasmallholder.co.za](http://www.sasmallholder.co.za)

**Online Classified Ads**

[www.sasfox.co.za](http://www.sasfox.co.za)

**Copyright**

Title and contents protected by copyright. No part of this publication may be reproduced or stored in any form whatsoever without the prior written permission of the publisher.

**Disclaimer**

While every care is taken to ensure the accuracy of the information in this journal, neither the Editor nor the Publisher can be held responsible for damages or consequences of any errors or omissions. The Publisher does not stand warranty for the performance of any article or service mentioned in this journal, whether in an advertisement or elsewhere.

**FRONT COVER**

A rooster crows. Read about the psychology of cocks crowing in this edition.

**COMMENT, by Pete Bower**

# Plan the plan



What was the first thing you bought when you moved on to your plot? Some sheep as live lawnmowers? Goats, or a cow, for milk? Chickens for the eggs? A pony for your kids? A tractor?

Often it is those new smallholders who populate their plots with all manner of livestock and stuff with great initial enthusiasm who lose heart and interest the quickest, and as a consequence are the first to abandon their efforts and move back to town.

How often, for example, have you noticed a new family move into your area, and then quickly seen the arrival of animals of various descriptions, only to notice, after a few months, that the pony is standing forlornly in a field, staring out over the fence, forgotten and unriden?

The point is that there is no quick win to be had on a smallholding. One's plot offers a unique lifestyle, sure, but it takes a long-term commitment, punctuated by many setbacks, to realise the full benefits of this unique way of life.

At the very quickest the four seasons dictate the pace of one's success, as we move through the process of ploughing, planting, nurturing and harvesting.

And if it's livestock one is dealing with the pace is even slower, as the cycle of fertility, pregnancy, birth and weaning dictate the times when one has animals available for sale, or use, or slaughter.

Anything one does on one's plot comes with a string of consequences. For example, before one can acquire animals one has to have secure fencing in place, and water in the paddocks, and suitable housing. Your plot may come with all its facilities intact and ready to use, or it will more likely need developing. Fencing will need repairing, or installing, stabling will need to be built, boreholes drilled and equipped etc.

Thus starts a long process which, it should be added, includes not only labour but also cash to achieve.

And the biggest mistake we all make when we start is to cut corners with one's purchases and developments. The (extensive) lawn needs mowing? We don't do the sensible thing first-off and buy a large, powerful ride-on mower that will last many years. Rather, we try to save money by buying a small, underpowered push mower that is totally overwhelmed by the task at hand, and which disintegrates after the first season. "Goedkoop is duurkoop" is an expression that could have been made up especially for smallholders...

And until one has more experience, that parsimony will be evident in many of one's purchases and developments. Undersized pumps, inadequate pipework, cheap and inappropriate fencing, the wrong kind of security, unsuitable building methods, insufficient cement in one's concrete. Sound familiar?

Of course, it could be that you moved to a smallholding with a plan already in place, say to start tunnel farming, or a stud, or to do broilers, or to open a riding school or livery yard. So the acquisition of your plot and its associated inhabitants was part of a carefully-calculated business model, even one that passed muster with your bank manager or financier.

But, frankly, such startups are few and far between. Most of us decide on the country lifestyle first, free of the noise and bustle of town, in our quest for peace and quiet, or in a quest for a natural and more healthy environment for one's kids (with, it should be added, the benefit of some natural sex-ed thrown in, courtesy of one's rutting animals).

There is a way to ease the pain of the mistakes that one is likely to make, of course, and that's to plan ahead. It needn't be anything elaborate, but a plan laying out the steps that need to be taken to achieve a desired result will give one a set of milestones ~ deliverables, the eggheads call them ~ against which one can measure one's progress, however slow it may be.

A workable, measured plan will also protect one from the feeling of being overwhelmed by the thoughts of what one needs to do, as well as the disappointment of realising that one hasn't achieved, or can't achieve, one's goals.

And at the end of the day it is only with a plan to hand that one will prevent oneself from becoming one of the disappointed smallholders who soon come to see their move to the country as a mistake, and who scuttle back to the suburbs disheartened ~ and out of pocket.

But even if you ride it out, with a plan, and achieve your goals, it's hard to sit back for long and say "I did that...". For there's always maintenance and upkeep to prevent the whole edifice from collapsing. Yes, living on a smallholding is a full-time job!



# WES VOERE FEEDS

Wildsvoere  
Bees Voere  
Lekke  
Vark Voere  
Skaap Voere  
Perd Voere  
Kuiken Voere



Winterlek, Energielek, Volvoer



BOSKOS

Hondekos  
vir GROOT en KLEIN  
honde



Boskos produkte  
vir wild

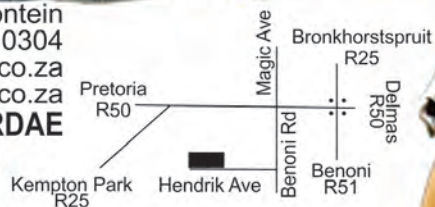


Perde pellets, Gras Bale,  
Lusern Bale



18 Hendrik Ave, Ventershof, Bapsfontein  
Call: 087 231 0304  
info@wesenterprises.co.za  
bapsfontein@wesenterprises.co.za  
OOP OP SATERDAE

Gratis Aflewering binne  
25 km Radius



# Knittex®

Since 1964

Manufacturers of Knitted Agricultural  
and Decorative Shade Netting

Contact us on:

+27 (0)11 692 1658

www.knittex.co.za

clientliaison@knittex.co.za



PROTECTS YOUR CROP AGAINST SEVERE WEATHER CONDITIONS

(I.E. WIND, SUNBURN, HAIL DAMAGE, BIRDS AND LARGER INSECTS)



**Advanced Shooting Products**  
**Gauteng's leading bullet manufacturer**  
 Bullets for Handguns & Rifles  
[www.advsp.co.za](http://www.advsp.co.za)  
 email: louise@adv-sp.com

**The Bee Box**  
  
 Complete Beehives professionally made and dipped in hot waxol.  
 Brood box and super all with frames and aluminium lid  
 Midrand  
 082 791 3393 Porky Scriven  
 Tzaneen  
 082 604 5828 Jason Scriven

# SB INK REKENAARS

Bespaar met generiese ink en laser produkte

- HP • Canon • Samsung • Brother
- Generic • Utax • Olivetti • Panasonic
- Duplo • Gestetner • Ricoh • Okidata
- Riso • Toshiba • Lexmark • Kyocera Mita
- Oce • Sharp • Xerox • Konica Minolta
- Triumph Adler

**GENERIC**  
Cartridges

from **R300**



[www.sb.co.za](http://www.sb.co.za)  
**012 252 3750** | **012 546 5019**  
 Ludorf Str 33 | 265 Danie Theron,  
 Brits | Ryda Centre, Shop 3  
 sales@sb.co.za | Pretoria - Noord  
 pta@sb.co.za



**SASFOX** co.za  
 SA SMALL FARMERS  
 ONLINE EXCHANGE

**Buy . Sell . Swop**

**Classifieds**

No Commission, No Nonsense, Try it Today!!

- Free Classified advertisement for small farmers
- Free online market for Produce, Food, Veg, Preserves, Dairy, Meat Products...
- Buy what you need online
- Sell what you don't need online
- Swop goods, fresh produce etc...

For commercial DISPLAY  
 advertising options on the site  
 call or email us TODAY

[www.sasfox.co.za](http://www.sasfox.co.za)

admin@sasfox.co.za  
 accounts@sasfox.co.za Tel: 011 979-5088 or 076 176-7392

## SEAL YOUR DAM, POND or RESERVOIR ~ YOURSELF!



**Aqua Plastech**  
**Earth Dam & Pond Sealer**

Perfect for sealing  
 leaking bentonite dams

Seals dams and earth ponds without draining  
 Simply spread directly on to water surface  
 Do it yourself: Easy to apply  
 No specialised labour or equipment  
 Eco-safe: Non-toxic to fish & wildlife  
 Biodegradable  
 Cost-effective, easy coverage - only 100g/sqm

**New UberSeal**  
 Multipurpose Sealant  
 Seals Cement Dams and  
 Other Masonry Walls

Easy to apply - brush, roller or spray  
 Water-based - no toxic solvents  
 Long-lasting - UV resistant  
 Can be over-painted



**AQUA**  
**PLASTECH**

**Agents Wanted Throughout SA**

Hotline - 086 199 5036

info@aquaplastech.co.za



Find us on  
**facebook**

Full product details at [www.aquaplastech.co.za](http://www.aquaplastech.co.za)





**MFANGANO**  
SOLUTIONS (Pty) Ltd

## Dealers

Western Cape  
MC Swart  
082 650 3503

Port Elizabeth  
Belmore Forest and Gardens  
belmorefg@isat.co.za  
041 365 4869

Ariens Tractor  
Mower 54"

R59 665.98  
Vat Incl.

Ariens Razor  
Self Propelled  
Lawn Mower

R9 541.17  
Vat Incl.

Ariens Zoom 50"  
ride on mower

R73 851.08  
Vat Incl.

Gravely log  
splitter 34 ton

Ariens log  
splitter 27 ton

R50 770.48  
Vat Incl.

R41 063.36  
Vat Incl.

**15% OFF**

Gravely Atlas  
JSV 3000

Please call us for Wood Chippers ~ Big and Small, Horizontal Wood Grinders,  
Forestry Mulchers, Wood Shaving Machines, Lawn Mowers, Log Splitters  
& Compost Turners. Also Brushcutters, Chainsaws & Blowers etc

sales@mfangano.co.za  
precious@mfangano.co.za  
011 440 2072/072 244 9551  
19 6th Street, Wynberg, Sandton, 2090  
www.mfangano.co.za





## Renewed interest in E Rand coal deposits

Coal mining ~ or at least prospecting for coal deposits ~ is making a comeback on the East Rand, with an environmental impact assessment of a proposed open pit mine within sight of Aston Lake near Springs and, more recently, with a group of residents in Bapsfontein concerned that the development proposed in their area is being undertaken under their noses, but without adequate consultation. Bheka Masinga Global is

proposing to prospect in a large area just 15,26km north-east of Kempton Park, to the south of the R25, and on both

sides of the R51 (Pretoria Road). According to a statement by the residents, "Other residential areas that

will be affected are Benoni North, Petit, Serengeti Estate, Bapsfontein, Nestpark, Daveyton, and Delmas," not to mention Marister, Dunblane Estate, and Hillrise as well as Transnet's Sentrara marshalling yard. It should be added that some of these areas, such as Serengeti and Delmas, are so far away from the site that it is a bit of a stretch of the imagination to believe that they will be affected in any way whatsoever.

## MAILBAG Laminitis is not 'Monday morning disease'

Sir ~ I would just like to point out a factual error in your June 2018 edition.

In the article under the heading Horsemanship you refer to laminitis as "Monday Morning disease". This is

incorrect.

Monday Morning disease is also known as "Tying up". These are two totally different diseases completely unrelated to one another.

**Petronell Vorster**

By email

Continued on page 6

### STOP THIEVES

Outdoor Wireless Alarm

Protect Buildings, Livestock etc

Complete system with 4 Sensors & 2 remotes R2 800.00

Colin 079 180 2853

www.stopthieves.co.za



The Editor welcomes your letters, comments and opinions, but reserves the right to edit and shorten as necessary. Senders' names and addresses must be included.

Afrikaans letters will be translated. Post mail to: Letters, PO Box 14648, Bredell 1623 or fax 086 602-3882 or e-mail gautengsmallholder@gmail.com



## TRACTOR MECH

**Vaaljapie Specialist**

Restoration of New & Old Tractors

For all:

- Sales
- Spares
- Rebuilds
- Service & Repairs

of your:

- Tractors
- Slashers
- Implements
- Stationary Motors

Johan Bouwer  
072 576 2392

Martina Bouwer  
072 861 6980

403 Bakenkloof Street Pretoria North 0182



**Alternatiewe energie- en selfstandigheid-ekspo!**

Bring die hele gesin vir 'n inspirerende dag in 'n karnaval atmosfeer!

**9-11 Augustus 2018**

Diamantvallei Landgoed (20km Oos van Pretoria)



Grondslag vir selfstandigheid

Volwasseenes R80 - gratis indien vooraf registreer! (Kinders tot 18 gratis.)

**www.kragdag.co.za**



- Borehole Yield Testing SANS 10299 BWA app
- Water quality testing SANS 241
- Rehabilitation of Existing Boreholes
- Borehole pump sales & installation
- Exploration & Monitoring drilling
- Reverse Circulation Drilling (RC)
- Symmetric Drilling
- Large Diameter Drilling
- Water borehole drilling

Find us on: **facebook**



info@watermandrill.co.za  
www.waterman-drilling.co.za  
BRONKHORSTSPRUIT

Tel: 013 932 1740  
Cel: 079 526 7196  
Fax: 013 932 2352



# Rain? Maybe. Maybe not. Daff hedges its bets

**I**t might rain later this year. Or it might not. And average temperatures during the late winter might be warmer than usual. Or they may not.

That's the word from the Dept of Agriculture, Forestry & Fishing (Daff), based on

information from the SA Weather Service and released last month.

Daff says "According to the

Seasonal Climate Watch issued by the SA Weather Service (SAWS) dated 28 May 2018, there is possibility for

above normal rainfall during mid and late winter. However, there is lack of confidence in

Continued on page 8

## COAL MINING

From page 5

According to a Benoni City Times report, the area for proposed prospecting and mining is more than 6 000 ha, with coal mining as the main activity.

Citizens from the Bapsfontein and Nestpark area are specifically concerned about the effect mining activities will have on their water supplies and the unstable dolomite

ridge that runs from Nestpark all the way to Daveyton and Springs. Lack of water in the area has already caused 23 sinkholes, of which three are currently known to be active and dangerous. Some of the smallholders in the area have run out of water at 70 m depth and mining activities in the area will destabilise aquifers and the dolomite ridge further.

In light of these concerns, among others, residents attended a public meeting of interested and affected parties held in Kempton Park in May. The meeting was declared null and void by consensus between the exploration company KeMuHoldings and the interested and affected parties, as there was no sound equipment, no accurate written information to hand, and no screen for the projection of information. It was mutually agreed to cancel the meeting and reschedule another, more organised one, as soon as possible.

Adding fuel to the concerns of residents that a subterfuge is being perpetrated was a report that public notification was posted on the Transnet gate of the study site, although residents have failed to locate official notifications regarding the sites for prospecting.

Moreover, emailed requests to KeMuHoldings, asking for confirmation of a new date for the meeting have, to date, proved fruitless.

**Clovelly**



**Day-old Broiler Chicks**

**Delmas**  
**083 393 0935**

**B**

**HOUSE**  
**HARDWARE**

Mini & maxi loads of Building Materials

C/o Garsfontein Rd & Blesbok St  
Mooikloof  
Pretoria East

Tel: 012 480 0088  
012 480 0824/5  
Cell: 082 558 9722

Email:  
sales@b-house.co.za

Mon - Fri: 07:00 - 17:00  
Saturday: 07:00 - 13:00

**Best Buy FRIDAYS ONLY**



**3 BAGS R99.00**

**PAINT CLEARANCE**  
**LIMITED STOCK AVAILABLE**

**PLASCON**



**Dam Linings & Tarps**



Reservoir Linings



Mesh Dams



Chicken Run Curtains



Earth Dam Linings



Feedcovers



Truck Tarps

**TATA MA TARPS & LININGS**

**072 279 3294**  
**www.tatamatarps.co.za**

**AFRI-CA**  
IMPLEMENTS  
BOTHAVIDE

**Tough & Dependable Machines**  
**Ideal for a Smallholder**

**Hammermill**  
Petrol, diesel or electric  
Belt drive, 3 sieves,  
Mild steel blade is easily replaced. Mills ANYTHING!

**Feed Mixer**  
Single phase electric motor  
300 litre bin

**Spares for ALL small hammermills**  
**Used Tractors Also Available**

**Feed Mixing Trailer**  
1 000 litre capacity  
Diesel-driven  
PTO-driven model also available

**Call Pieter**  
**056 515 4380**  
piet1@africaimplements.co.za  
Visit our website: [africaimplements.co.za](http://africaimplements.co.za)









# HURRICANE PUMPS



Bring this  
advert in  
for a  
4" Pumps only  
**10% discount**  
retail customers only

**4SD2/8 0.37KW 220V  
Borehole Pump  
Motor and Control Box  
2000ℓ/hour @ 40m**

**R2170**  
excl

**4SD2/11 0.55KW 220V  
Borehole Pump  
Motor and Control Box  
1800L/hour @ 68m**

**R2365**  
excl

**4SD2/14 0.75KW 220V  
Borehole Pump  
Motor and Control Box  
2000ℓ/hour @ 80m**

**R2565**  
excl

**4SD2/20 1.1KW 220V  
Borehole Pump  
Motor and Control Box  
1800ℓ/hour @ 120m**

**R3120**  
excl

## 6" Pumps & Motors Now Available

6" Pump Ends 9.2KW  
to 22KW  
From

**R4000,00 excl. V.A.T**

6" 380V Sub Motors  
7.5KW to 15KW  
From

**R5200,00 excl. V.A.T**



**Large models up to 2.2KW  
in 220V and 7.5KW in  
380V also available from stock**



Contact : Dawid on 082 310 1541 or 010 597 7843

Email : [sales@hurricanepumps.co.za](mailto:sales@hurricanepumps.co.za)

184 Boundary Road, Mnandi, Centurion

Co-ordinates : S25°53' 53.7" - E028°03' 45.2"

**See [www.hurricanepumps.co.za](http://www.hurricanepumps.co.za) for our full range of products**

Contact : Rae on 079 892 2782 or 015 297 2444

Email : [rae@hurricanepumps.co.za](mailto:rae@hurricanepumps.co.za)

86 Oost Street, Polokwane, Limpopo



# NEWS

## Garden World show gets home-grown display

The cost of dismantling and returning to SA the backdrop and setting of this year's Sanbi Kirstenbosch exhibit at the Chelsea Flower Show in May has proved prohibitively expensive and as a result, this year's Spring Festival at Garden World will not feature a reconstruction of the gold medal-winning stand.

Instead, Garden World has invited its own team of designers to build a unique four-scene exhibit featuring four iconic South African

landscapes with their associated flora.

This stand, being especially constructed for the show, promises to be every bit as elaborate as the Chelsea exhibit was, and is only one of the features of the Garden World festival.

As usual, designers of every stripe will showcase their ideas at the show, passing them on to visitors as

innovative things to do in their own gardens, that range from small townhouse spaces to the largest space imaginable.

An innovative design to be built this year, and which will attract interest from gardeners seeking to grow their own food, is a formal "edible" garden, containing vegetables and herbs but planted in the style of a formal decorative

garden.

The show will be held at Garden World, on Beyers Naude Drive, Muldersdrift, from July 27 to September 2. In addition to show gardens a number of events have been organised, full details of which are contained in the Diary section of this magazine.



## RAINFALL

From page 6

the forecasting system and therefore the forecast is very uncertain.

"Also, temperatures are anticipated to be above normal across the country during mid and late winter. Nonetheless, due to lack of confidence in the forecasts temperature conditions for the rest of winter remain

uncertain."

More helpful, perhaps, are the current forecasts for the development, or otherwise of an El Nino over the Pacific Ocean in the latter part of 2018 and into 2019.

The US government's National Oceanographic & Atmospheric Agency, NOAA, has compiled a number of different studies using various

sets of data and formulae, the greater number of which are predicting a mild to moderate El Nino effect developing over the Pacific later this year. The bad news for southern Africa is that such an effect can result in lower-than-average rainfall during the summer months in the southern hemisphere.

**Advanced Shooting Products**  
*Gauteng's leading bullet manufacturer*  
 Bullets for Handguns & Rifles  
[www.advsp.co.za](http://www.advsp.co.za)  
 email: [louise@adv-sp.com](mailto:louise@adv-sp.com)

# SPARTS MOTOR SPARES

Tel: 011 967 1295

Tel: 011 967 2151

Cell: 072 041 7819

Fax: 011 963 0473

Fax: 086 218 4686

email: [spartscc@mweb.co.za](mailto:spartscc@mweb.co.za)



261 & 262 Stanley Road, Pomona, Kempton Park, CNR of Stanley and High Road  
 Monday – Friday 07:30 – 17:00, Saturday 08:00 – 13:00, Certain Public Holidays 08:00 – 12:30





## A fireproof, theft-proof, permanent beehive

**Our regular column on beekeeping in Gauteng, supported by the three beekeepers' associations in the province**

**A**mong the many problems facing Gauteng's beekeepers is the destruction of their wooden beehives, either through fire, or through vandalism and theft.

Plus, being made of wood, a standard Langstroth hive deteriorates over time, even if the interior is well-coated with a preservative such as Waxol, because the bees generate significant moisture in the hive, which rots the wood of the hive.

Thus, in the quiet months the beekeeper spends many hours (and much money) manufacturing replacement hives, or repairing brood chambers and supers.

In various parts of the world other materials and designs are used as bee housing and in 2015 a dual-material hybrid system was developed locally by a BTech student named Ivan Brown, using a starter hive made of wood and cardboard, which is later replaced by a permanent, fixed hive made of cast reinforced concrete.

This has been refined into a design Brown has named the Bee Bunka and which he manufactures and sells through a startup named Beegin, which is based in Magaliesburg.

Although it is made of a lightweight concrete formulation the Bee Bunka is heavier than a wooden Langstroth hive, making it nigh-impossible to steal, while being made of concrete it is fireproof.

While the walls of the brood chamber and the supers are thicker in the concrete version than in a wooden hive, the

internal dimensions are identical, enabling standard Langstroth frames to be hung. The durable concrete does not need to be maintained

Continued on page 11



Prototype of the concrete beehive design, dating back to 2015



### HYDRO SOLUTIONS

WATER AND SOLAR TECHNOLOGIES

#### Solar Borehole Set Special! *Harness the power of the sun.*

- Set includes Pump, Motor, Control box, Solar Panels and Level Sensors.
- Maximum Head: 50m
- Maximum Flow: 1200 l/h
- 300Watt panel Included

**NOW ONLY!**  
**R11990 Incl.**



#### Borehole Complete 3" Set Special!

- Set includes: Motor, Pump, Control Box, Cable, Rope, Baseplate, 3 x Pipe fittings
- Maximum Head: 42m
- Maximum Flow: 3000 litre/hour
- 0.25KW Motor
- Optimum Flow: 1500 l/h @ 35m

**NOW ONLY!**  
**R3490 Incl.**

#### Aquajet Booster Pump System *Energy efficient booster pump.*

- Complete system: pump, pressure switch and pressure tank
- Automatic on/off
- Only 600 watt (220v)
- Will deliver 30l/min at 3 Bar

**NOW ONLY!**  
**R3499 Incl.**



**VISIT OUR FACTORY STORE IN PTA EAST**

☎ 012 807 3256 ✉ [sales@hydropumps.co.za](mailto:sales@hydropumps.co.za)

**[www.hydropumps.co.za](http://www.hydropumps.co.za)**





**GREAT DEALS ON PROFESSIONAL  
HIGH-QUALITY ITALIAN MACHINES**

## COMBO DEAL

NOW  
**R5730**  
ex VAT  
~~R8999~~

### DM 741

21 hp - 16 kW  
40.2cm<sup>3</sup>  
7.8 kg

### GS 35

2hp - 15 kW  
16" - 3/8 x 0.505"  
4.6 kg



### DM G48PK COMFORT PLUS

46cm deck  
140cm<sup>3</sup>  
4-stroke

NOW  
**R3999**  
ex VAT  
~~R4499~~



### GS 35

2 hp - 15 kW  
16" - 3/8 x 0.505"  
4.6 kg

NOW  
**R1999**  
ex VAT  
~~R2399~~



### BV 300

1.3 hp - 1 kW  
30 cm<sup>3</sup>  
4.5 kg

NOW  
**R3199**  
ex VAT  
~~R4499~~



### CHAINSAW

GL5200  
52cc

NOW  
**R1499**  
ex VAT  
~~R2499~~



### POWER SPRAYER

PS3WZ-36L-300  
4 Stroke, 6.5Hp motor  
Return agitator valve

with 300L tank

NOW  
**R11999**  
ex VAT  
~~R13999~~



without tank

NOW  
**R3999**  
ex VAT  
~~R4499~~



NOW  
**R2100**  
ex VAT  
~~R2999~~



### EARTH AUGER

EAG4300  
43cc

FREE 200mm bit included

NOW  
**R10499**  
ex VAT  
~~R12999~~



### SHREDDER

SS1002  
6.5HP

76mm branch capacity

NOW  
**R2999**  
ex VAT  
~~R3999~~



### GENERATOR

RGG3400 : Petrol  
3kw max

2.6kw cont

NOW  
**R1499**  
ex VAT  
~~R2499~~



### WATER PUMP

GP25-2 : 1" pump  
40cc

7800 L/hr



### BRUSHCUTTER

BCCG430- B Style

Grass blade

Nylon head

Toolkit

Ts&Cs apply. While stock lasts. Actual product may vary from pictures.  
E&EO permitted. Valid until 31 July 2018



# BEEKEEPING

From page 9

space - assisting in the regulation of the internal temperature, reducing energy consumption.

The hive floor and the lid are loose concrete castings, and the brood chamber and supers are fitted with a series of small holes on either end into which removable metal handles are affixed when handling is necessary.

The Bee Bunka comprises three main parts: a brood chamber (241 mm deep) with an attached floor and front entrance; a shallow (145mm deep) super chamber; and a telescopic lid. The chambers each take 10 x 35mm frames (11 x 32mm). The hive takes a normal queen excluder and any type of inner cover. The

hive components all interlock and can be locked with a chain or cable. The components can be fire treated to remove bacteria.

Once the hive is assembled in the apiary, however, it remains in position and the beekeeper will remove full frames to a lighter wooden chamber for transporting, rather than lugging the concrete chamber about.

Because there are no lifting points on the exteriors of the chambers thievery is discouraged because unless the thief has his own set of lifting handles he will have no way of easily lifting the hive.

Concrete provides good insulation for the inhabitants and the entire hive is

Continued on page 12



Commercially-available design of the Beegin concrete hive. Note the prototype design models in use in the right hand corner of the picture.

## Beekeeping course for beginners

A four-day course on beekeeping for those intending to keep bees and for newcomers. The course covers the theory & practical requirements to start as a hobbyist beekeeper.



186 Uys Rd, Rynfield AH, Benoni. (Next to Highveld Honey)  
Course starts 4 August & thereafter every 1st Saturday for three months.

Course convener ~ Mike Alter 083 430 8707

TEL: 011 822-8503  
011 964 1323  
FAX: 086 630-2616  
sales@gas2u.co.za  
www.gas2u.co.za



S26°0.180 E28°24.807

14 Magic Avenue  
Bapsfontein  
(near BP Garage)

## GAS SPECIALS Collection Only



3kg - R48.90  
4.5kg - R73.40  
5kg - R81.50  
7kg - R114.10  
9kg - R146.70  
19kg - R309.70  
48kg - R782.40

9KG  
Maxi Gas  
Cylinder



**Was R699  
Now R450**

Total Portable  
Cartridge Stove



**Was R400  
Now R199**

Total Cooker  
Top



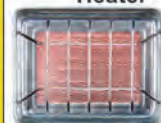
**Was R139  
Now R99**

Every day  
is  
pensioners  
day  
less 10%  
(gas only)

## WINTER SPECIALS

Phone in  
store for  
delivery  
prices

Total  
Outdoor  
Camping  
Heater



**Was R425  
Now R310.50**

Total  
Typhoon  
100p  
Blowtorch



**Was R342  
Now R271.50**

Atlas  
Gas Geysers



Gas  
Geysers

6 Litre - R1364.50  
8 Litre - R1601.50  
10 Litre - R1838.50  
12 Litre - R2372.50  
16 Litre - R2728.50  
20 Litre - R3557.50

Lasher  
Spade No. 2  
660mm



**Was R218  
Now R129.95**  
Limited stock

All prices include Vat





# BEEKEEPING

From page 11

watertight because the lid fits over the entire top of the chamber, including the vertical sides.

The beehives can be purchased directly from Beegin as fully cured, professionally-finished, ready-made concrete components.

The price is similar to the cost of a standard wooden hive. The components can be purchased separately or as whole beehive unit.

A set of moulds is also available should one wish to cast one's own hives, in which case the cost of manufacture is roughly half that of a bought hive.

For more information: Ivan Brown, Beegin, 076 980-9974

☐ All three Gauteng beekeepers associations encourage participation from people wishing to become involved with bees.

If you are in Pretoria or surrounds, the Northern's Beekeepers Association is your closest. Call Riekie on 082 972-1889.

For western or southern Gauteng or Johannesburg the Southern Beekeepers Association is your closest. Email Lanz on afromedia-@gmail.com for details.

Easterns is the association for people on the East Rand and Mpumalanga, Call Mike on 083 430-8707

# EASTERNS TALK



The Eastern Highveld Beekeepers Association was recently addressed by Dr Ezette du Rand on the toxification of bees. Left: members listen intently to Dr du Rand's talk. Below: A useful and informative slideshow. Easterns members meet once monthly, usually at a venue in Rynfield, Benoni. For more information: Mike Alter, tel 083 430 8707



**MacBee**  
Registered Beekeepers

**Wanted:**  
Secure sites to place beehives.  
Call us to assess the viability of your property.

Contact Sharon  
083 449-8980  
macbeehoney@gmail.com

## A-Raam huis

Voltooi jou huis met ons staalstruktuur

STAALSTRUKTUUR 210 vk.m OPPERIG

**R219 590** btw. uit.

Staalstruktuur vir 3 slaapkamers en 2 badkamers

**OPGERIG - 8 TOT 10 DAE**

STAALSTRUKTUUR 101 vk.m OPPERIG

**R139 900** btw. uit.

Staalstruktuur vir 2 slaapkamers en 1 badkamer met motor afdak



STEEL FRAMES

Buildings | Factories and Warehouses | Design and Construction



BOUWERK UITGESLUIT

PIETER 082 497 4247 | info@iframe.co.za | www.aframe.co.za

ANKER FEEDS + SEEDS (Pty) Ltd t/a

**CAMPO**  
Seeds & Feeds

Your 1-Stop Shop for all Fur, Feather & Fin Requirements

**Suppliers of Quality Specialised Avian Seed Mixes...**

...as well as  
**ALL Livestock & Pet Feeds**

18 Barratt Road  
Factoria  
Krugersdorp

info@campofeeds.co.za  
www.campofeeds.co.za

**011 955 1819**



## AIR RIFLE MEGA STORE PCP IS OUR GAME!



**JPX Pepper Gun**



**Scopes**

**Wide Variety of Targets in Store**

**www.armsshop.co.za**

Edward 076 133 1940

**Full Range H&N Pellets Available**



**Guns**

**Specials on knives**



**NOW AVAILABLE**  
Filling of air cylinders up to 300 bar

Mon - Fri 9am - 5pm

Sat -Sun & Public Holidays 9am - 1pm

81 Pomona Road, Pomona  
S 26 5.181, E 28 16.785







## IN THE GARDEN

# Introducing: Bugs that make compost

Your compost heap is home to a wonderful variety of creatures, all of whom have roles to play in the process of breaking down organic matter into compost.

Generally, if you do have insects in your heap it means that you have a healthy ecosystem. They're all part of what earth scientists refer to as the soil food web.

A good compost heap is a veritable city of insect activity. As these creatures burrow



African Night Crawlers making vermicast

throughout your compost, they not only aerate it, they also excrete and that poop will eventually become wonderful fertiliser for your plants. The poop from these bugs becomes food for the microbes (eg, bacteria and fungi) in your compost pile, which in turn stimulates the microbial population to grow, so the ingredients in your pile

break down more quickly.

These specific compost life forms have the ability to break down larger ingredients in your compost. That's why they're sometimes referred to as "shredders". This shredding of larger parts into smaller parts allows smaller organisms, such as the bacteria, to finish the process.

As in any food web, some

bugs help keep all other organisms in check, especially any that may cause disease.

Where there are insects, you will find other insects that eat them. The predator insects in a compost heap will include centipedes, red mites and various types of spiders.

Then there are compost heap shredders, which help to tear up and decompose the compost material. They are mostly beneficial in the compost heap (but some, like

Continued on page 16

**Captain Beefheart**  
PETS FOOD  
TOP FROZEN MINCE  
CHICKEN & BEEF

Top quality pure frozen mince  
**BEEF OR CHICKEN**  
DELIVERED TO YOUR DOOR

Minimum Order for Home Deliveries: 1 case = 16kg  
**072 838-0552**  
**ronaldc@polka.co.za**

**Clovelly**  
**White Muscovy Ducks**  
Breeding Pairs AVAILABLE  
**Duck eggs wanted**  
**Delmas**  
**083 393 0935**



## Wastewater Treatment Systems

- Does your septic tank smell?
- Has your French drain failed? ... Again?
- Are you polluting the neighbour's borehole water?
- Are you compliant with the National Water Act?
- Would you really like to reuse your water?

### Each Scarab system...

- is designed to comply with the National Water Act
- is simple to install, maintain and operate
- requires no chemicals (Ozone optional)
- uses minimal power
- is almost maintenance free
- produces clear and odourless water
- is modular to suit new loadings
- is sized from the single house to large estate



### The Scarab system is:

- Featured in the Dept of Water Affairs best practices guideline policy As Featured on
- Listed as a top 100 SA company for its technology in 2004, 2005 and 2006, and for receiving the Bio2Biz award in 2006.
- A preferred supplier to the Dept of Health - Rural Clinics (KZN)
- Featured on SABC3 Business Update

**SABC 3**  
Business Update

**Tel: 014 736 3463**

**e-mail: scarabwater@gmail.com**

**Web: www.scarabsa.co.za**

**Johan 082 535 4576**

**e-mail: johan@scarabsa.co.za**

**TREAT YOUR WATER TO A SCARAB SYSTEM**



CONVENIENT ONE-STOP COUNTRY SHOPPING

# GROENVOER

Feed • Vet Products • Saddlery • Gumpoles • Buckets • Bins • Brooms • Chicken feeders & drinkers  
Fodder • Eragrostis • Lucerne • Oat hay • Teff • Country Markets • Groom Training • Farm stall delights

Quality Animal Feeds



Since 1970

## GROENVOER Premium Quality Animal Feed

Since  
1970

- Always Available,  
Always Freshly Mixed
- Formulated for SA conditions
- Organic preservatives
- Direct from factory to feed room

**Horse Feed is our Speciality**



**I LOVE  
HORSES  
DAY  
15 JULY**

### JULY 2018 SPECIALS!

**Liquid Molasses 5l**

**R40 - Save R31**

Increase fodder palatability



**Carmino+ 100g vitamin sachets**

**R40 - Save R21**

Great vitamin boost for all  
livestock – chickens to cattle

**Micki Box rat bait stations**

**R77 - Save R30**



**Slow Feeder Bale Net**

**R165 - Save R35**

**Barley 25kg & Linseed 12.5kg  
Winter Equine Combo**

**R440 - Save R160**

Great winter boost for horses



**Panacur Horse Dewormer**

**R100 - Save R87**

24g syringe – treats 600kg  
of body weight

**Madaji Milk Cream 500g**

**R55 - Save R27**



**GROENVOER**



View the SA Grass Roll Saver  
video on our facebook page!  
Groenvoer products cc

Or Scan this  
QR code

Stockists of:



## ORDER TODAY!

Speak to: Cathy, Irene,  
Jenny & Philenie

011 314 1211 082 545 9277

011 314 1212 076 451 7771

011 314 1156 076 451 7799

email: groenvoer@mweb.co.za

web: www.groenvoer.co.za

Address: Olifantsfontein Rd (R562), Midrand, Gauteng, SA



## BLANKET WASHING

Quick,  
thorough &  
affordable

All prices Vat inclusive E&OE - Generator power - No outages



# IN THE GARDEN

From page 14

the Rose Beetle larvae, become a garden menace in their adult form).

Black Soldier Fly and their larvae are very common and they eat the kitchen waste in your heap. You will also find sow bugs (also called wood-louse, pillbug, roly-poly, potato bug), spring tails and earwigs.

Lower down in the heap,

once it has cooled down, you will have earth worms. In South Africa these are the naturally occurring African Night Crawler, not the Red Wigglers that are used in worm farms.

In order to encourage insects in your compost heap, aim for a balance of heat, moisture and oxygen.

The composting process is speeded up by the heat that is

produced by the heap itself. Ideally the temperature should reach 60°C for a short period, to sterilise the material of residual fungi and disease and to kill any seeds in the heap, so that when the compost is spread in the flowerbeds it doesn't result in a crop of weeds. However, if your heap is very hot there will be fewer bugs as they don't like such conditions.

When it cools down there will be more insects. Moisture is necessary to get the process under way, as long as there is not too much. In Gauteng's dry winters, the pile should be kept moist, as a completely dry pile doesn't compost. The different types of material should be mixed, as a thick layer of one material might prevent the

Continued on page 18



A millipede in the compost pile



Black soldier fly larvae

## ROOF SHEETING



Buy direct  
from factory

### ADVANTAGES:

- Shatterproof, Weather & Hail Resistant
- UV Protected
- Over 70% Light Transmission
- **Product is 2,5mm thick**
- Domestic & Industrial
- Easy to Install - DIY
- Choice of 4 Colours
- 7 Year Guarantee
- Cheaper than Fibreglass

**We Deliver**

### IDEAL FOR:

- Patios
- Carports
- Zozo Huts
- Hot Houses
- Pool Houses
- Factory Skylights, etc



PLEASE CONTACT  
**Sandra 083 233 3820**

info@4eversheeting.co.za  
www.4eversheeting.co.za

**4EVER SHEETING**  
POLYETHYLENE ROOF SHEETING

## RANDVAAL TREKKERS & IMPLEMENTE



117 Kapokboom Street,  
Valley Settlements,  
Randvaal

- \* Transport
- \* Tractor Services
- \* Tractor Repairs
- \* Implement Parts, Services & Repairs
- \* Export
- \* Datadot

Replacement Parts  
New & Used:  
Massey Ferguson,  
Ford & Fiat

**We Buy & Sell Tractors**

Tel: 016 365 6369 / 076 957 5924

[www.randvaaltrekkers.co.za](http://www.randvaaltrekkers.co.za)



## Cardboard Day-Old Chicken Boxes

**Box It Up**



**Boxes do not require staples  
Sturdy design**

Elaine: 072-643-9132

BIU.ZA@yahoo.com



TEL: 012 653 8342/8 or 083 269 0389

Email: dennismow@mweb.co.za

Elize: 078 014 8943

Stefan: 060 337 4406

Christopher: 076 821 0857

Unit 9 Miracle Park, Lenchen Ave

Ext off Old JHB Road CENTURION

GPS: 25°52.753'S, 28°9.635'E

EAST RAND: 011 730 3400



SERVING THE PUBLIC FOR 22 YEARS

### Hand held Blowers

25.4 cc



WAS: R2,475  
NOW: **R1,735**  
Excl. VAT

WAS: R2,475  
NOW: **R1,980**  
Excl. VAT

Optional Extra:  
With Vacuum Bag

### Backpack Blowers

51.7 cc



WAS: R3,080  
NOW: **R3,360**  
Excl. VAT

63.3 cc  
WAS: R3,360  
NOW: **R3,815**  
Excl. VAT

82.4 cc  
WAS: R3,815  
NOW: **R4,100**  
Excl. VAT

**Cub Cadet**

**Groundbreaking Tiller**

Tilling Width: 18" Depth: 7.5"  
3.9 kW / 208 cc

WAS: R25,900  
NOW: **R22,200**  
Excl. VAT

**Backpack Mist Blower**

40 cc, 0.75 kW  
26 Liter Chemical Tank

NOW ONLY: **R2,600**  
Excl. VAT

**Stilleto**

Ideal for  
Spraying  
against pests in  
Green-houses,  
tunnels, etc.

82.4 cc, 4 kW / 5 hp  
20 Liter, Chemical Tank

WAS: R5,250  
NOW: **R3,675**  
Excl. VAT

**Chainsaws**

50.8 cc  
WAS: R3,100  
NOW: **R2,250**  
Excl. VAT

72.2 cc  
WAS: R5,500  
NOW: **R3,850**  
Excl. VAT

**Wood Chipper / Shredder**

183 cc  
3.75 kW  
5 hp,  
Power Pro  
R183  
4-stroke  
Engine

WAS: R12,250  
NOW: **R9,750**  
Excl. VAT

**Stilleto**

Suitable to chip:  
Maize, Wood, Leaves, etc

**Cub Cadet**

**Ride-on Lawn Tractor**

38" / 7.8 kW / 420 cc  
TRANSMATIC

WAS: R33,250  
NOW: **R27,700**  
Excl. VAT

HYDROSTATIC

WAS: R36,330  
NOW: **R29,700**  
Excl. VAT

FABRICATED DECK

HYDROSTATIC

46" / 16.5 kW  
679 cc

WAS: R81,200  
NOW: **R69,600**  
Excl. VAT

**Floor Sweeper**

800 mm  
Operation width

WAS: R3,625  
NOW: **R2,538**  
Excl. VAT

2 Rotary Brushes

**63.3 cc Earth Auger**

Twin handle  
operation  
with  
100 mm  
Auger Bit  
150 mm –  
**R3,395**  
200 mm –  
**R3,780**  
250 mm –  
**R4,200**

Save Time  
& Money

WAS: R4,600  
NOW: **R3,220**  
Excl. VAT

**2-Stroke Vert. Engines**

122 cc  
2.7 kW,  
3.6 hp

WAS: R3,300  
NOW: **R2,550**  
Excl. VAT

**MTD**

**42" Ride-on Lawn Tractor**

TRANSMATIC

9.1 kW,  
500 cc,  
B&S Engine  
6-speed

WAS: R37,800  
NOW: **R32,500**  
Excl. VAT

### Nylon Line

2 Kg, Any size



12 Rolls  
per box  
delivery  
Gauteng  
Add: R150

WAS: R407  
NOW: **R205**  
Excl. VAT  
Per Roll

### Straight Shaft Brush Cutters

32.7 cc  
WAS: R2,300  
NOW: **R1,610**  
Excl. VAT

42.7 cc  
WAS: R2,520  
NOW: **R1,764**  
Excl. VAT

51.7 cc  
WAS: R2,850  
NOW: **R1,995**  
Excl. VAT



63.3 cc Brush Cutters Available soon

**4-Stroke Vert. Engines**

118 cc  
3.3 kW,  
4.3 hp

WAS: R2,100  
NOW: **R1,680**  
Excl. VAT

**Industrial Heavy Duty Mower**

**TUFFKING**

**POWER PRO**

15 hp  
Engine

WAS: R22,000  
NOW: **R17,700**  
Excl. VAT

**25.4 cc Portable Drill**

0.8 kW / 1.7 hp  
/ 7500 rpm

WAS: R3,750  
NOW: **R2,625**  
Excl. VAT

**New!**

**Push Brush Cutter**

42.7 cc, 1.35 kW

WAS: R4,000  
NOW: **R2,800**  
Excl. VAT

Opt. Extra:  
3rd  
Wheel

**4-Stroke Vert. Engines**

173 cc  
4.5 kW,  
6 hp

WAS: R3,218  
NOW: **R2,500**  
Excl. VAT

**Hedge Trimmers**

22.5 cc  
600 mm  
Cutting width

WAS: R3,050  
NOW: **R2,135**  
Excl. VAT

**Multi Tool**

32.6 cc

Power Unit with all 4 incl.

- 1). Nylon Head,
- 2). Pole Pruner,
- 3). Hedge Trimmer
- 4). Lawn Edger

WAS: R7,200  
NOW: **R5,040**  
Excl. VAT

**4-Stroke Horz. Engines**

212 cc  
5.25 kW,  
7 hp

WAS: R2,139  
NOW: **R1,670**  
Excl. VAT

**Vibrating needle / Poker**

37.7 cc, 1 kW/6500 rpm, 4-Stroke

WAS: R3,335  
NOW: **R2,335**  
Excl. VAT

**27.2 cc Pole Pruner**

Overall Length:  
3 – 4.3 m

WAS: R7,700  
NOW: **R5,250**  
Excl. VAT

**Horz. Diesel Engines**

296 cc  
6 kW, 8 hp  
(Reduction  
1800 RPM)

WAS: R6,820  
NOW: **R5,660**  
Excl. VAT

PRICES PER UNIT, EXCL. DEL. F.O.R. NIGEL & VAT. VALID FOR COD PURCHASES ONLY. WHILE STOCKS LAST / JULY 2018. PICTURES MAY DIFFER. E&EO.





**Budgies 2 Bantams**  
**WELCOMES YOU**

**Breeders of over 50 breeds of poultry**

**Muscovy Ducks**



**Black Australorps**

**Mixed Fowl Starter Mash**  
**Whole Mielies**  
**Growing Pellets**  
**Laying Pellets**  
**Growing Mash**  
**Budgie Seed**  
**Sweetfeed**

**Coops available for large & small gardens**

Keep your chickens & bunnies safe from predators... keep your garden safe from your pets



Cages include egg retrieval gate for **FRESH EGGS DAILY**

**Montego Pet Nutrition**  
**Montego & Bow Wow dog food**



**We Hand-rear AFRICAN GREYS**

**Unique Farm Pet Shop**

**Aviaries, Cages, Pet accessories:**  
**Dog leashes, Shampoo, etc.**

**Only 20 min drive from PTA CBD & Fourways on the M26 (Main Road/Erasmia)**

**Open Sundays & Public Holidays**  
**By appointment only**



**info@budgies2bantams.co.za**  
**www.budgies2bantams.co.za**

**Mohamed 082 379 1555**  
(Owner: complaints/queries)

**Raees (sales/buyer)**  
**079 692 0542**  
**082 689 0287**

**We accept all major Credit or Debit cards**




**Proud sponsor of the Southern African Show Poultry Organisation**

Specialists in Exotic Poultry

## IN THE GARDEN



## Pros & cons of growing in tunnels

Now that winter is here with icy winds and frost, smallholders with tunnels will be glad of the ability to protect their vegetables.

A tunnel has a frame made from steel or plastic, which is covered in clear polyethylene sheeting or shade cloth. Tunnels are usually semi-circular, square or elongated in shape. The interior heats up because incoming solar radiation from the sun warms plants, soil, and other things inside the building faster than heat can escape the structure. Air warmed by the heat from hot interior surfaces is

retained in the structure by the roof and wall.

Temperature, humidity and ventilation can be controlled by equipment in the tunnel or by manual opening and closing of flaps along the sides of the structure.

In addition to growing vegetables and flowers in tunnels, more smallholders are showing an interest in aquaponics for Tilapia fish farming in tunnels.

There are many obvious pros to growing in tunnels. You have an extended growing season and can grow a greater variety of vegetables in winter.

Continued on page 19

## COMPOST

From page 16

moisture from leaching through the pile. Where the compost is too wet add coarse dry materials such as straw, finely shredded newspaper, hay or leaves to soak up excess moisture. The bugs of the compost heap require oxygen, so aim to ensure that the heap is loosely packed. The heap needs to be turned every few weeks, separating compacted

materials and allowing oxygen in.

Turning the heap also means that all the material being composted is treated equally, and used up fully.

Aerating the compost pile puts a check on the anaerobic microbes, which often give the heap a bad odour, while encouraging the less smelly aerobic micro-organisms to grow and prosper.



# IN THE GARDEN

From page 18

Sometimes there will be faster after crop growth and higher total yields and your vegetables will be unblemished, because they have not been battered by the elements. It is very pleasant in winter to work in a tunnel and it is cheaper than a heated greenhouse. However, depending on the size of the tunnel, your start-up costs can be considerable. Unless you want to grow vegetables commercially, most smallholders will not be able to justify the expenditure. Even if you do not invest in a great deal of climate-control equipment, you will still have to maintain the structure. Tunnels are vulnerable to hail and wind damage and the plastic will have to be replaced every few years because of sun damage. If you want to establish a tunnel business it might be possible to receive funding from entities such as Gauteng Enterprise Propeller (GEP) and the Gauteng Dept of Agriculture & Rural

Development. Sometimes municipal agricultural departments also supply tunnels to qualifying smallholders.

There are various designs of DIY kits available and one can also buy them second hand.

Ventilation is an important factor to get right. A common way to ventilate is to have roll-up sides. It's the only way of keeping the tunnel from getting too hot during the day in the spring or summer or even in other months of the year.

Growing in protected culture requires greater attention to detail. You need to monitor your plants constantly, because the warmer conditions that favour your plant growth are also good for certain insects and diseases. Aphids, white fly, some thrip and spider mites can be problematic.

Companion planting should include plants that host beneficial insects.

Tunnels do reduce some diseases but exacerbate other diseases. Tunnels create micro-climates and disease can spread fast. Depending on the vegetables you are growing, you need to guard against powdery mildew and botrytis, Verticillium and Fusarium wilts and, depending on the area, bacterial wilt. Increase air flow, reduce humidity and use disease-resistant varieties to help

Continued on page 20



Above: A simple hobbyist tunnel suitable for a small family garden. Below: A sophisticated aquaponics tunnel combining tilapia tanks (not in picture) whose water and nutrients nourish the plants (shown).



## Snake Catcher

Protect Family, Guests, Pets, Livestock



ONLY R 1595.00 & FREE Postage

Call or SMS Ralph: 0825730710

Or email: [SnakeAlert@Global.co.za](mailto:SnakeAlert@Global.co.za)

**PLEYSIER INCUBATORS**

Trading Hours  
MONDAY - FRIDAY  
08:00 - 13:00  
14:00 - 17:00

<p><b>NEW ARRIVAL</b></p> <p><b>24 Egg incubator</b> Automatic turning R2 400</p>	<p><b>48 Egg</b> <b>R2 900</b> Automatic turning</p>
<p><b>56 Egg</b> <b>R3 200</b> Automatic turning</p>	<p><b>96 Egg incubator</b> <b>R4 500</b></p>

CONTACT PLEYSIER INCUBATORS 011 659 8041 or 659 8042 | CELL: 082 936 5843  
Order on our website [www.pleysier.co.za](http://www.pleysier.co.za) or email [frank@pleysier.co.za](mailto:frank@pleysier.co.za)  
2006/169666/23 | VAT: 4290232802 | SARS NO: 2022 1406 For Export

**Bell & Paton**

Portable walk-in greenhouse tunnel  
for the home gardener

Self-sufficient food propagation has never been easier

Easy to construct

Assembly takes less than 1 hour. Once erected it can easily be moved into the correct position as it weighs less than 30kg.

The PE plastic roof is UV treated to withstand the harshest sun

The entire greenhouse can be closed with dual, easy-use zips keeping the outside world separate from the cosy growing area

Multiple roll-up windows equipped with insect netting to help control pests.

**Suitable for crops ranging from:**

Lettuce, cabbage, spinach, basil, oregano, thyme, rocket sage, dill, pak choi, tah tsai, parsley.

**Vine crops including:** Tomato, cucumbers, marrow, chilli and egg plant

**Root vegetables such as:** Carrots, turnips, parsnips, potatoes and radishes thrive in the warm environment.

The heat retention of the PE greenhouse design allows summer crops to be grown later into the colder months. Summer crops can also be planted earlier to extend their growing season

**Available in 3 sizes**

- 6m long x 3m wide x 2m high = R6800 Ex Vat
- 4.5m long x 2m wide x 2m high = R3600 Ex Vat
- 3m long x 2m wide x 2m high = R3200 Ex Vat

**Galvanised 25mm steel poles easily fit together.**

**Included:** 25mm galvanised steel poles for endoskeleton  
• UV treated, reinforced PE plastic roof to fit over poles  
• Dual zip, roll up door (6m has front and back doors)  
• Roll up side windows with insect net  
• Full instructions and all tools required for construction

**CONTACT**  
[www.bellandpaton.com](http://www.bellandpaton.com)  
[bellandpaton@gmail.com](mailto:bellandpaton@gmail.com)  
Tel: Garth 083 320 2922  
Tel: Oliver 083 650 0711



ALL PRICES INCLUDE VAT



95 Ampthill Avenue, Benoni  
011 422 6354 | 072 847 0978

*Pictures for illustrative purposes only. Actual products may differ. E&OE*

## Borehole Pumps

0.375kW  
0.55kW  
0.75kW  
1.1kW

Includes  
cable & control box  
Up to 60m cable included

**from R2 195**  
**\*VAT included**



## Booster Pumps



0.75kW  
Pressure switch  
& pressure gauge

**R1 495**  
**\*VAT included**

## Pool Pumps



**from R1 495**  
**\*VAT included**

0.375kW  
0.75kW  
11.1kW  
with 2 x PVC  
connectors

## Domestic Booster Pumps



**Electronic Water  
Pressure System**

**DAB**  
WATER • TECHNOLOGY

~Top quality  
~Constant  
water  
pressure  
~Silent  
operation  
(suitable  
for indoor  
installation)

**from R6 500**  
**\*VAT included**

[www.magnumpower.co.za](http://www.magnumpower.co.za)

**FULL SPARES BACKUP & SUPPORT**

ALL PRICES INCLUDE VAT

# WATER



Uber Seal is formulated for cement structures such as this reservoir

## Water-based DIY sealer for cement reservoirs, walls etc

Following on from the success of its sealing compound for unlined earth dams and ponds, Aqua Plastech of Chartwell North has introduced a sealing liquid specifically formulated for cement structures. Named UberSeal Multipurpose, it is a water-based general purpose clear waterproofing compound designed for use on a wide variety of substrates. UberSeal is especially suited

to sealing and protecting porous vertical masonry surfaces such as split faced or decorative concrete blocks. Aqua Plastech says UberSeal is particularly effective against wind driven rain and, unlike 'water repellent style sealers, is able to withstand hydrostatic pressures caused by significant weather events. "UberSeal is UV stable and provides long term protection of more than ten years."

Continued on page 22

# TUNNELS

From page 19

manage these diseases. Viruses can also be a problem. Disposable gloves, regular hand washing and tool disinfection will reduce the spread of viruses and other systemic diseases. Narrow aisles require careful attention to crop canopy management, so pruning and trellising are might be necessary. Irrigation management requires greater care. Know when to increase irrigation

flow to maximize plant growth, but also know how to avoid root rot. If you are not using any form of heating, do not think that you are going to grow summer vegetables such as tomatoes in your tunnel during winter, because it just won't get hot enough. In fact, many tunnel farmers in the colder areas will cease production in the coldest months, using the time to perform maintenance and repair tasks.



*Genius Landini*  
Import & Export cc



**ONS HET IETS VIR ELKE  
BOER SE BEHOEFTE**

**Landini**   
**McCORMICK**

**WE STOCK A WIDE RANGE OF  
TRACTORS AND IMPLEMENTS**

**BALERS  
WRAPPERS  
RAKES  
DISC MOWERS  
TEDDERS**

**NEW**  **FALCON SLASHERS  
BALE HANDLING MACHINES**

**A WIDE RANGE OF  
BP IMPLEMENTS  
AVAILABLE**

**IN STOCK:**

**BALE TWINE FOR  
SQUARE BALERS  
ROUND BALERS  
BIGPACK BALERS**

**HIGH QUALITY NETTING  
FOR ROUND BALERS  
& WRAP PLASTIC  
FOR WRAPPERS  
AVAILABLE AT  
GOOD PRICES**

**WIDE RANGE OF  
PALLET NETTING  
& HAND STRAPPING**

**ENGEN OLIE MET UITKLOP PRYSE  
ENGEN OIL AT KNOCKOUT PRICES**



**20 litre  
210 litre**

**GPS: 26°04.157'S 27°40.845'E**

**TEL: 011 952 9926/7/8**

**FAX: 086 571 5578**

**marco@geniuslandini.co.za**

**admin@geniuslandini.co.za**



**Drup Lyn**

**Rond 4 gat uitlaat**

**Ovaal**  
Al die voordele van Plat en Rond gekombineerd

**Plat**  
Met dubbel inlaat filtrasië area

**Irriforce Mini TD1500-100**  
Lengte 100m  
Wydte 32 - 46m  
Vloei 6.5 - 17 m<sup>3</sup>/h

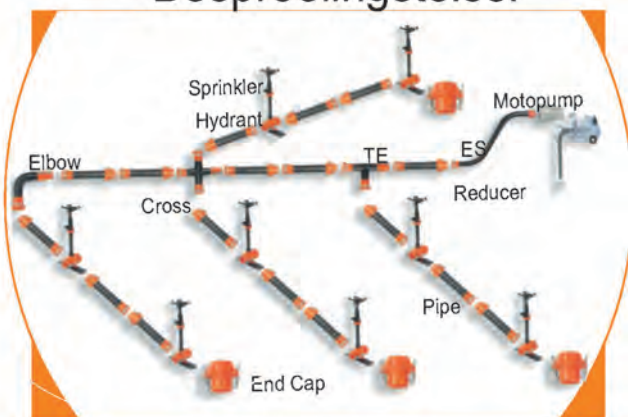
**Irriforce Midi TD2000-200**  
Lengte 200m  
Wydte 40 - 65m  
Vloei 8.5 - 30m<sup>3</sup>/h

**Irriforce Midi TD2500-300**  
Afstand 300m  
Wydte 51-75m  
Vloei 18 - 45 m<sup>3</sup>/h

**Diesel en PTO Pompe**

**Afriq water**

Veelsydige Goukoppel  
**HDPE**  
Besproeiingstelsel



Afriq Water is 'n trotse ondersteuner van ons Boere,  
en gee erkenning aan elke boer  
se betrokkenheid met ons land se voedsel sekuriteit.

Afriq Water Pty Ltd Head Office

sales@afriqwater.co.za | 061 502 2547 | 082 454 7880 | www.afriqwater.co.za

## IN THE HOME



Replica antique stoves are now cast in SA. Spares are also available.

## Grandma's old stove ~now made in SA

The warm memory of the smell of brewing coffee and baking bread in Granny's farmhouse kitchen, while the house is warmed by the crackling fire, does not have to be a thing of the past. That's because you can equip your home with a replica of an antique wood or coal-fired stove which, in addition to evoking rich memories of the past, will be yet another step in removing your family from the stranglehold of Eskom's electricity supply. Since 1984, antique-style wood and coal stoves have been manufactured locally by a foundry, Ndebele Stowe in eastern Gauteng. Moreover, genuine antique coal and wood stoves can be fully restored to their former glory, with all parts and accessories newly-cast and

sold through dealers country wide.

Coal stoves no longer have to be a farmhouse item only. This new range of coal stoves gives users a variety that will be an asset in any house. With different sizes, uses and patterns there is now a stove available for every home, says Ndebele Stowe.

Ndebele Stowe's retail outlet, Ndebele Appliances & Coal Stoves in Bronkhorstspuit, has the full range of stoves on display.

Parts, chimney pipes, accessories and more are also available.

Ndebele also gives clients the option to have their old stoves refurbished, and handles sales of second-hand units as well.

For more information: Ndebele Appliances & Coal Stoves, tel 013 932-1376

## WATER

From page 20

years. "UberSeal dries to a clear low sheen finish and remains flexible to accommodate minor movement in the substrate.

It can be over painted with any acrylic paint. "Due to exceptional adhesion UberSeal is well suited as a primer for acrylic architectural topcoats, elastomerics and roofing paints.

The compound is a soft sealer

and not suitable for horizontal surfaces subject to traffic, for example paths, pavers and floors etc, unless they are to be covered with tiles, carpet, or harder coatings.

Two to three coats are applied at a rate of approximately 5m<sup>2</sup> per litre, by brush, roller or low-pressure sprayer, and the surface will be fully cured within seven days.

For more information: Aqua Plastech 086 199-5036



# Psychology of your rooster's crow

**T**here is no sound that is as characteristic of rural life as that of a rooster crowing. Whether you think it sounds like cock-a-doodle-doo, kike-ri-ki or ko-ke-kokkoh, the sound is associated all over the world with sunrise.

However, any smallholder who keeps chickens or has a neighbour that does, will testify that cockerels start crowing before dawn, often as early as 04h00. So it is not actually the first rays of sunlight that bring on the first crowing. Roosters anticipate sunrise to get a head start on their daily hunt for food and defence of territory.

When a rooster crows, he's sending a signal to other roosters that if they trespass, they're asking for a fight. A rooster will often crow from a vantage point above his



territory so he can make others more aware of his presence and so that his "songs" travel farther.

Scientists, notably Japanese ornithologists, who have experimented with groups of roosters have proved that roosters have an inborn sense of time or an internal body clock that tells them when to crow.

All animals have what are called circadian rhythms - physical, mental and behavioural changes that follow a daily cycle. Sleeping at night and being awake during the day is an example of a light-related circadian rhythm.

Circadian rhythms are found in most living things, including animals, plants, and many microbes.

The experiments showed however that the roosters anticipated dawn and would start crowing two hours before the light. Even when they were kept under 24 hours of dim light conditions for 14 days, scientists observed that the animals started running on a 23,8-hour day.

Furthermore, when biologists tried to trick the birds by randomly exposing them to bright lights or loud sounds at various times, while this did induce some crowing, they consistently responded more strongly to the stimuli by crowing more when they occurred around what would normally be dawn.

We know that there is a strict hierarchy in any group of chickens, which is called a

Continued on page 26

**The Bee Box**

**Complete Beehives professionally made and dipped in hot waxol.**

**Brood box and super all with frames and aluminium lid**

**Midrand**  
082 791 3393 Porky Scriven  
**Tzaneen**  
082 604 5828 Jason Scriven

**COUNTRY STYLE FENCING**  
**TREATED POST & RAIL FENCING**

- Push-fit
- No nails or screws
- No Maintenance
- Very quick
- Very strong
- CCA TREATED

**GUM POLES** For Cattle, Horses & Gardens

**POLE & TIMBER SUPPLIERS**

**TEL 011 640 7975 ~ 072 113-4637**  
[www.poleandtimber.co.za](http://www.poleandtimber.co.za)

**SOLARLIGHT.CO.ZA**  
✉ [phasor@telkomsa.net](mailto:phasor@telkomsa.net)  
☎ 082 357 0015  
🌐 [www.solarlight.co.za](http://www.solarlight.co.za)

**VS**

**WATTS** (ENERGY USED) **LUMENS** (BRIGHTNESS)

Traditional Bulb	Solar powered LED lights
(10lm/watt)	(135lm/watt)
40W (1 ~ 400 lumens)	2-5W (270 ~ 675 lumens)
60W (500 ~ 800 lumens)	6-9W (810 ~ 1215 lumens)
75W (900 ~ 1100 lumens)	11-14W (1485 ~ 1890 lumens)
200W (1200 ~ 2000 lumens)	25W-30W (3375 ~ 4050 lumens)

**SOLARLIGHT.CO.ZA Solar Security Lights**  
**12 hours/night for up to 3 nights**

Illuminate entrances, perimeters, barnyards & stables & residential areas. Also industrial areas, construction sites, parks, schools etc

*Because sunlight is free*



# STIHL®



## START STRONG. FINISH STRONG.

Thanks to our advanced lithium-ion technology, **STIHL®** professional cordless products deliver higher performance and do not lose power as the batteries run down.



Prices incl. VAT. E&oe.

**FSA 90**  
Cordless Brushcutter  
with bike handle  
36 V • 3.2 kg  
**R6 795\***



**FSA 90 R**  
Cordless Brushcutter  
with loop handle  
36 V • 2.8kg  
**R6 595\***



**FSA 130**  
Cordless Brushcutter  
36 V • 4.5 kg  
**R7 295\***



**FSA 130 R**  
Cordless Brushcutter  
36 V • 3.9 kg  
**R7 095\***



**FOR ADVICE ON THE CORRECT PRODUCT FOR THE JOB CONSULT YOUR STIHL DEALER**

**ALBERTON:** Lawnmower Clinic 011 907 8484 • **BENONI:** Master Mowers 011 395 2648 • **Bwana Tool & Plant Hire** 010 591 2858 • **BRITS:** Enviro Chainsaws Brits 012 252 2479 • **BRONKHORSTSPRUIT:** Bronkhorstspuit Fietswinkel 013 932 0531 • **BRYANSTON:** Lawnpower 011 705 3556 • **CENTURION:** Enviro Chainsaws Centurion 012 653 2479 • **DELMAS:** Deltool 013 665 3192 • **HEIDELBERG:** Masakhane Industries 016 349 6927 • **JOHANNESBURG:** Green's Industrial 011 614 0295 • **JOHANNESBURG SOUTH:** Glen Mowers 011 436 2220 • **KEMPTON PARK:** Precision Mowers 011 391 0708 • **KRUGERSDORP:** GP Lawnmowers 011 955 3610 • **LYNNWOOD:** Mowtown Lawnmowers 012 348 6427





**HSA 94 R**  
Cordless Hedge Trimmer  
Available with 600mm or 750mm blade  
**From R6 995\***



**MSA 160 T**  
Cordless Chainsaw  
(incl. 30cm bar & chain)  
36 V • 2.3 kg  
**R5 495\***



**HSA 94 T**  
Cordless Hedge Trimmer  
Available with 500mm, 600mm or 750mm blade. **From R6 295\***



**MSA 160**  
Cordless Chainsaw  
(incl. 30cm bar & chain)  
36 V • 3.1 kg  
**R4 195\***



**RMA 510**  
Cordless Lawnmower  
With adjustable cutting height  
**R6 495\***



**MSA 200 C-BQ**  
Cordless Chainsaw  
(incl. 35cm bar & chain)  
36 V • 3.3 kg  
**R4 995\***



**BGA 100**  
Cordless Blower  
36 V • 2.5 kg • 63 m/s  
**R4 995\***

\* Prices exclude batteries and chargers. STIHL has a wide range of batteries and chargers available for its Lithium-ion PRO range of cordless power tools. Ask your dealer which power combination would best suit your needs.

Get to your nearest  
**STIHL®** dealer for  
these and other  
fantastic Winter  
Promotion specials.

Offer Valid 1 April - 31 July 2018.

**2018**  
**WINTER**  
**PROM**  
**OTION**



# WATER IS OUR BUSINESS

We carry the widest range of pumps and fittings for all your requirements

- Borehole Testing & Certificates
- Dewatering of Dams & Pools
- Installations of Borehole pumps & Garden Irrigation  
(Phone for Quotation)
- We now stock **Solar Pumps, VSD Drives, Water Tanks and Water Harvesting**

**Borehole testing up to 100 000€ per hour. Borehole inspections can be done with latest camera technology.**



RAP/TECH



Grüppe



LEO

**011 660 7824**  
TECHNOLOGIES  
**manti**  
mark@amantitech.co.za  
www.amanti.co.za  
67 Commissioner street, Krugersdorp  
GPS 26°06'07"S, 27°46'20"E (opposite Action Ford)  
Consultations on ALL your water problems

## MACHINERY

# The future is electric

We have seen the future, and it's electric. And so quickly and certainly is it going electric that we predict that within the next couple of decades the only place you'll see the small two- or four-stroke petrol engines such as commonly power lawnmowers, brushcutters and chainsaws today will be in a museum.

The technology that is making this silent, pollution-free revolution possible is the lithium-ion battery, about

which you can read elsewhere in this edition. The superior charging ability of Li-ion batteries is well-known, and in small items such as cellphones, watches and cameras they have become commonplace.

Detractors of rechargeable battery-power point to the high cost of the batteries and chargers and the argument holds some merit at present.

But Li-ion technology is developing rapidly and the batteries are becoming more

Continued on page 27

## POULTRY

From page 23

pecking order. Where there is more than one cockerel in a group, the dominant rooster is the one who will crow first in the morning, followed by its subordinates, in descending order of social rank.

This was proved when the scientists worked with four roosters and watched what happened when they removed the highest ranking rooster from the group. They found there was a systematic rule in the order of crowing, with each taking turns according to their social rank. In addition, the starting time for the first crow for the most dominant rooster varied from day to day, but the crowing

of the lower ranking roosters always started right after he began his call. The data suggested that subordinate roosters have the potential to crow, but they are patient enough to wait for the top-ranking rooster's first crow. Presumably one cock crowing will also set off other roosters on other properties. The crow of a rooster serves several functions. Along with being used as a warning of sorts to let other roosters known the boundaries of its territory, the crow can be used to communicate with his hens and sometimes to celebrate the mating with a hen. Crowing can also indicate fear of possible threats or predators.





From page 26

efficient, with their prices dropping dramatically every year. At the upper end are



A familiar sight ... cordless screwdriver for home workshop

the large units powering electric cars such as the Tesla and Nissan's Leaf, and in Elon Musk's elegant domestic solar power pack that will enable households to live wholly or partially offgrid without disrupting or defacing the dwelling.

And now progressive manufacturers of power equipment are seeing the benefits of Li-ion power for their machines.

Stihl, for example, has developed three ranges of garden and farm machines, with different specifications, to suit homeowners with the smallest of townhouse gardens, those with more extensive properties to maintain, and full-on commercial or professional users such as farmers, landscapers and municipalities.

Across each range the battery packs are interchangeable between machines and the



Battery backpacks for professional electric machines.

chargers universal to the particular range. Thus, in a domestic situation for example one buys a small Stihl chainsaw, a string trimmer, a blower and a hedge trimmer, one or two batteries and a single charger. When one has finished pruning the branches of one's trees with the chainsaw, or cutting up a few logs for firewood, one removes the

Continued on page 28

**HIGHVELD HONEY FARMS**  
  
**PROTECT OUR BEES**  
 Visit our farm in Rynfield to get your honey at farm prices. Bring your own containers and we will fill them up - pay ONLY for the HONEY  
 Plot 185 Uys St, Rynfield AH, Benoni  
 Tel 011 849-1990  
 Weekdays 07:00-17:00  
 Saturdays: 07:00-13:00

**UPGRADE TO A HONDA**  
**Sprayers for Firefighting, Cleaning & Pest Control**  
 220 - 750 litre skid mounted sprayers  
 500 - 5 000 litre trailer units  
 60 & 120 litre trolley sprayers  
**MULTI**  
  
**FIRE & POWER**  
  
**Husqvarna**  
 580BTS Blower  
 Rated the world's best  
 Firefighting Blower  
 www.mfpafrica.com  
 e-mail: carel@mfpafrica.com  
 rynhardt@mfpafrica.com  
 1 GRANT ST  
 NEW STATE AREAS  
 SPRINGS  
 TEL: 011 817-3044/84  
 082 444-8952  
 FAX: 011 817-3063  
  


**Easyhatch Incubators**  
 Manufacturer of fully automatic industrial and hobby incubators  
  
**Rugare Bird Farm**  
 Breeders of  
 - Exotic chickens  
 - Exotic ducks and swans  
  
  
[www.easyhatch.co.za](http://www.easyhatch.co.za) [info@easyhatch.co.za](mailto:info@easyhatch.co.za)  
 Call us on 011 051 9386 / 079 893 6383  
 GPS: S26° 41' 12.3" E27° 40' 26.2" (Vanderbijlpark)

 <b>BRUSH CUTTER</b> <b>STIHL FS280</b> 38.9cc <b>R5695.00</b> Excl VAT 	 <b>BLOWER</b> <b>STIHL BR420</b> 56.5cc <b>R4895.00</b> Excl VAT 	 <b>37cm BAR CHAINSAW</b> <b>STIHL MS382</b> 72.2cc <b>R6660.55</b> Excl VAT 
--	--	---

**GREEN'S INDUSTRIAL SUPPLIES**  
 Sales, service and repairs.  
 Authorised **STIHL** dealer.  
**Tel: 011 614 0295/6**  
[www.greensindustrial.co.za](http://www.greensindustrial.co.za)





Battery-powered domestic range from Stihl

From page 27

battery from the chainsaw and slides it into the string trimmer before neatening the edges of the lawn. With that task completed one removes the battery again and slides it into the blower to clean up the trimmings. And so on. Much the same system is employed by Makita in their power tools, which are

proving popular with contractors such as electricians, repairmen and plumbers who find not having to run out extension cords to run their tools up in ceilings and workspaces a boon. Such users will buy a single battery powered tool, say a drill, and a clutch of batteries and chargers.

Continued on page 30

## Li-ion deconstructed

**L**ike all batteries, a lithium-ion battery contains an anode and a cathode separated and yet conjoined by an electrolyte.

Unlike your car battery where the electrolyte is a liquid (battery acid diluted with distilled water), the electrolyte of a Li-ion battery is either a liquid polymer or a solid of some sort.

The anode is usually lithium, graphite or a variety of lithium alloys or silicon.

The cathode, by contrast, is usually a lithium metal oxide, with oxides containing nickel and cobalt being the most studied and most stable.

To remind you of your high school chemistry, the formulae for these compounds are  $\text{LiMn}_2\text{O}_4$  or  $\text{LiCoO}_2$ . Lithium, to remind you, is element number 3 on the Periodic table, lying between helium and beryllium, and Cobalt element number 27, lying between iron and nickel. Lithium is thus the lightest metal and in its natural state quite unstable. But it is cobalt that is the elephant in the room as far as Li-ion battery technology is concerned.

Half of the world's known deposits of cobalt are found in the Democratic Republic of Congo, with other deposits found and mined in Zambia and the Central African Republic. Cobalt is also a by-product of platinum and nickel mining.

And here's the problem: of the cobalt mined in the DRC, industry observers say that up to 20% is mined by hand, the small operations being both physically dangerous and exploitative of the workers, who are often children.

Thus, activists have taken to raising awareness of the nature of cobalt mining as a fertile ground for exploitative child labour and have started making calls for users of Li-ion batteries to insist, and to certify, that the cobalt used in their batteries be ethically sourced.

## SOLAR MAN



Pre-planning  
essential for  
quotations

- Solar Power
- Backup Power
- Solar Borehole Pumps
- Solar Geysers
- Solar-friendly Appliances

[www.solarm.co.za](http://www.solarm.co.za)

Tel: 012 809 1525/1427  
[solarman@mwebbiz.co.za](mailto:solarman@mwebbiz.co.za)

## GUSTO PUMPS CC Water Specialists



THIS IS THE SIGN FOR WATER MANAGEMENT

We supply and repair all  
PIPES, FITTINGS AND TANKS,  
SUBMERSIBLE PUMPS,  
BOREHOLE PUMPS,  
SWIMMING POOL PUMPS,  
& PRESSURE SYSTEMS.

At the best prices!

We are experts in  
water management.  
Our prices are very  
reasonable and  
our service is the  
BEST!



Drilling



Tanks



Pressure  
Systems



Submersible Pumps



Borehole Pumps

Tel 011 957 2588

Carina Krause  
082 872 4143



## JULY SPECIALS

2.4 x 1.2m utility trailer	R11800
3m x 1.5m utility trailer	R12800
4m x 1.8m double axle utility trailer, braked	R32800
4m x 1.8m double axle cattle trailer, braked	R36800
5m x 2m double axle car trailer, braked	R33800
6m x 3m single axle advertising trailer	R13800

Many  
more  
models,  
always  
in stock.  
We deliver



[www.hornbilltrailers.co.za](http://www.hornbilltrailers.co.za)

and registered body builder

Vanderbijlpark

Hendry 083 276 4669



[www.mnani.co.za](http://www.mnani.co.za)  
[www.tuffy-agri.co.za](http://www.tuffy-agri.co.za)  
[gert@mnani.co.za](mailto:gert@mnani.co.za)  
[sales@mnani.co.za](mailto:sales@mnani.co.za)  
[accounts@mnani.co.za](mailto:accounts@mnani.co.za)

8 THIRD STREET, DELMAS



TEL 013 665 3054  
TEL 013 665 2800  
IMPLEMENT VERKOPE  
076 560 9856  
ONDERDELE VERKOPE  
083 393 1701

### TUFFY SLASHERS



AVAILABLE IN 800mm, 1m, 1,2m,  
1,5m AND 1,8m

### TUFFY TWINROTORS



AVAILABLE IN 2 METRE,  
2,4 METRE & 3 METRE

### TUFFY POST HOLE DIGGERS



AVAILABLE IN MEDIUM AND HEAVY DUTY

### TUFFY LIFT DISC HARROW



AVAILABLE IN 10, 12, 14, 16, 18  
AND 22 DISCS

### TUFFY HAYCUTTER



AVAILABLE IN 1,2m, 1,5m AND 1,8m

### TUFFY MINI ROUND BALERS



MODELS:  
TRB 0850, TRB 0870, TRB 1070

### TUFFY SCRAPERS



AVAILABLE IN  
1,2m , 1,5m AND 2,1m

### TUFFY HYDRAULIC DISC HARROW



AVAILABLE IN 18 AND 24 DISC



# MACHINERY

From page 28

During the course of a work-day they simply replace the depleted batteries with freshly charged units to carry on working, charging the depleted batteries overnight for the next day's work.

Depending on the make of tool the intended use and the size of the motor, the batteries will be 12V, 24V, 36V or 48V types, and some of the more powerful tools will require two at one time, for example  $2 \times 48V = 96V$ , to run.

At the top end, the professional tools are powered by battery backpacks with the machines attached to cables. Stihl, for example, has a range

of straight-shaft brushcutters and clearing saws every bit as powerful as the large petrol-powered machines. The battery packs

contain sufficient charge for a day's work, thus making them suitable for use by parks departments, farmers and landscapers.

And, in true Germanic style, Stihl has some impressive arithmetic to show that the initial outlay on the machine and battery pack is very quickly recouped in the saving on fuel cost over the machine's lifetime.

And that, despite the eye-watering cost of the battery packs ~ north of R12 000 in the case of the bigger units. Having said that, the cost of lithium-ion batteries is decreasing steadily, while



All the leading brands now offer battery-powered models. Here is a chainsaw from Husqvarna

their efficiency is improving at the same time.

Apart from savings in operating costs, battery-powered tools have other significant benefits.

First and foremost is the saving in the cost of petrol and oil, and the associated benefit of not having to store and cart around canisters of potentially dangerous fuels. Then there is the benefit of operating a pollution-free machine, for despite many advances in design in recent years, two-stroke engines are notoriously inefficient burners of fuel and thus disproportionately guilty of air pollution.

Thirdly, if you have only ever used a petrol-powered brushcutter you will be forgiven for admitting that you have never heard the "whishing" noise the string makes as the head spins. That's because the noise of the string is drowned out by the noise of the engine. An electric unit, by contrast, has no engine noise, the only sound being the movement of the string head. As a result, you need no ear protection to operate a battery powered brushcutter, only safety glasses. That's one less item of PSE (personal safety equipment) you need to worry about for your workers, and one less point for the OHSAct inspectors to get nit-picky about. And if you live in close proximity to your neighbours, they won't need earplugs either every time you trim your lawn.

**WIRE WORX**  
Suppliers of:  
• BARBED WIRE • STANDARDS & DROPPERS  
• NETTING WIRE • B GRADE WELDED MESH  
• WELDED MESH • GATES, POSTS & STAYS  
• GALVANISED WIRE • DIAMOND MESH WIRE  
Welded Mesh 1.8 x 100 x 50 x 30m = R850  
We only sell quality products!  
**Kerry: 084 840 0409**  
kerry.wire@hotmail.com

## Leef Groen!

### Solar Geisers

<b>120% Lae Druk</b>	<b>R4 800</b>
120L Tenk plus 30L in buise	
<b>200% Lae Druk</b>	<b>R6 800</b>
200L Tenk plus 50L in buise	
<b>260% Lae Druk</b>	<b>R8 000</b>
260L Tenk plus 65L in buise	
<b>360% Lae Druk</b>	<b>R9 800</b>
360L Tenk plus 90L in buise	
<b>260% Hoë Druk</b>	<b>R12 900</b>

**Voertenk, anode en element ingesluit**  
Geiser installering kan gereël word teen R4000

**SONKRAG**  
SOLAR VERSPREIDERS  
Tel: 012 8191081. 0828825145  
25°40'.761"S, 028°19'.547"E • sonkragsolar@gmail.com  
• www.sonkragsolar.co.za

### Solar Stelsels

1x 5kva Omsetter & MPPT  
6x 245W Panele  
8x 200Ah Batterie  
Kabels ingesluit

## R63 000.00

BTW ingesluit.  
Pryse en spesifikasies  
mag verander.  
**Solank voorraad hou!**



## AROUND THE HOME



Diatoms viewed under an electron microscope.

### Diatomaceous earth: A benign natural powder with many uses

**D**iatomaceous Earth (DE) is a soft, silica-based rock powder made from fossilised marine algae known as diatoms, and contains a number of beneficial trace minerals. It has a long list of wonderful uses for people, livestock and pets alike.

It has been used for various purposes for many decades. In the '60s, for example, it was used as a filter medium in a tube-type swimming pool filter, where a coarse form of the powder was used to line a mesh bag, the dirty pool water passing through the medium in the bag.

For human, pet and livestock use food grade DE should be used. This form will have been milled until it is almost completely amorphous. This means it has no crystalline (<0.5%) form left to cause

damage to larger organisms. Instead it has small sharp edges which can damage tiny parasites, insects and larvae found on stored grain, in animal manure, on infected plants and in the stomachs of livestock and humans.

It is advisable to wear a mask when working with DE, as it must not be inhaled.

In the June edition of the Gauteng Smallholder, we described how DE can be used to get rid of bird mites and lice, but DE is also used for human and animal consumption, household pest control, as tick and flea powder and in grain storage. Diatomaceous (pronounced: di-a-tom-aye-shus) Earth is effective in eradicating pests because the diatoms are essentially very fine, sharp and abrasive particles that eliminate parasites by drying out the natural oils and fats on their exoskeletons, which causes them to shrivel up and perish relatively quickly. DE particles also stick to an insect and get stuck between its exoskeletal joints. As the insect moves, it is physically cut up.

Diatomaceous Earth will kill all insects, including beneficial

Continued on page 32

# Borehole Drilling



Throughout Gauteng

- 50 years' experience
- Modern, powerful equipment
- Prompt, reliable service
- Best rates and advice



**AND: We can arrange  
your associated requirements,  
eg: borehole siting,  
pump installation,  
piping, electrical work, etc.**

*Lanseria Drilling*

**BOREHOLES - DRILLING & REPAIRS**

**076 727-6464**

**082 552-6071**

**011 957-2588**

**Goods for sale?**

**SASFOX** .co.za  
**SA SMALL FARMERS  
ONLINE EXCHANGE**

Buy . Sell . Swap . Koop . Verkoop . Verruil



## AROUND THE HOME



DE around a plant will prevent harmful insects

From page 31

ones, so it should be used in a targeted manner. DE food grade is a natural pesticide that can be used safely in the garden. It works on insects such as beetles, mites, spiders, flying insects and ants. However, it will kill

bees, so should not be used near flowers rich in pollen or nectar.

DE can be mixed in poultry and bird feed to remove internal parasites.

Livestock owner report good results when adding DE to their animals' feed. It saves

albumen, destroys harmful acids and safeguards the stomach. It improves the health and growth of young animals and improves digestion, allowing animals to absorb a higher percentage of protein from their regular diet.

DE is a bio-available silica and trace element supplement in feed. It also improves milk production and absorbs methyl mercury, e coli, endotoxins and even some viruses. It increases appetite and helps to prevent scours. DE provides a broad-spectrum of naturally occurring chelated minerals that include calcium, magnesium, iron, phosphate, sodium, titanium, potassium and others.

Another benefit of adding DE to livestock feed is that it acts as a natural preservative. Its porous nature allows it to absorb moisture that would otherwise cause feed to mould or rot, helping the feed to last longer than it would otherwise.

Some livestock owners spread it in bedding for odour and moisture control. An added bonus is that reduced fly hatching is usually observed in manure from livestock fed DE. Its presence in the faeces prohibits larvae and develop-

ment of adult flies and thereby reduces fly problems. Diatomaceous earth for pets acts as a non-toxic tick and flea remedy for dogs and cats. Simply brush the powder into your pet's hair and sprinkle it over their bedding. It can also be added to pets' food as a safe natural deworming treatment.

It is a good idea to sprinkle DE in rubbish bins. It helps to absorb unpleasant odours and will discourage maggots.



Powdering a dog with DE

DE can also be used as a soil amendment, where it enhances the effectiveness of fertilisers and prevents

Continued on page 34

## TRANSLUCENT POLYCARBONATE SHEETING Flat, Profiled & Multi-wall Polycarbonate Roof Sheeting At Affordable Prices

**SAVE ON ELECTRICITY**  
due to natural lighting



**DIY Skytiles Translucent**  
**Lightweight**  
**UV Protected**



We also supply:  
Turbine ventilators  
Roof fasteners  
Butyl sealants  
DIY Skytiles



**Now also available:**  
**Mythos Greenhouses**  
248 x 185 x 216cm



Tel: 011 894 2873 / 079 882 2515  
carolann@masbiz.co.za  
192 Dr Vosloo Road, Bartlett, Boksburg  
www.masbiz.co.za

### Fruit Trees

Olive, peach, nectarine, plum, almond, apricot,  
walnut, prune, pomegranate, pecan nut, apple, cherry  
pear, fig, quince, mulberry, lemon and grape vines.

### Shade Trees Vrugtebome

Olyf, perske, kaal perskes, pruim, amandel, appelkoos,  
okkerneut, pruimedant, granaat, druive, pekanneut,  
appel, kersie, peer, vy, kweper, moerbe en suurlemoen.

**Skadubome**  
Vereeniging  
Douw 084 506 5125

## It's Sheep Shearing Season! SHEEP SHEARING SERVICE SKAAP SKEER DIENS

**082 878 5623**

**083 273 4267**

**082 602 4462**

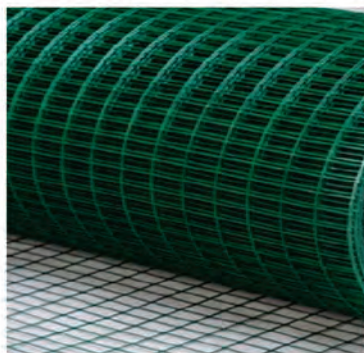




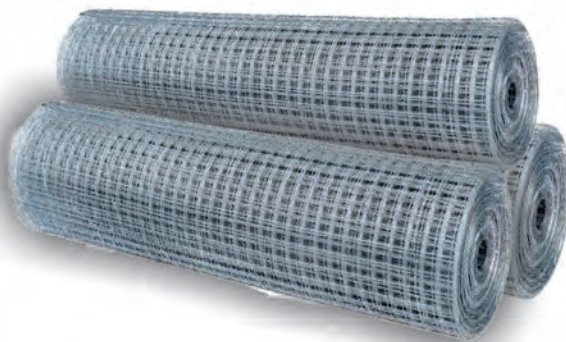
# MESH FOR BIRDS



Open 7 days a week from 8am to 5pm



Galvanised Welded Mesh  
BEFORE & AFTER WELDING



226 High Road, Pomona  
Kempton Park  
Inside Birds & Pets For Africa



[www.meshforbirds.co.za](http://www.meshforbirds.co.za)  
Barry 083 679 1317  
Adelle 083 427 7101



## FINANCE

# Financial management for the smallholder

South Africans recently awoke to the depressing news that the economists had got their predictions spectacularly wrong. What was supposed to be a small GDP growth of 1,1% this year, will in fact be a contraction of 2,2%.

Thus, while the economy continues to languish we all need to manage our finances more carefully and more actively, particularly given added whammies of eye-watering fuel price rises, increased electricity tariffs and

a hike in the VAT rate.

And, the alarming talk of land grabs, despite the sensible and sensitive approach to the expropriation and redistribution of land which middle of the road government leaders point to, is affecting the sale of plots and small farms. Until

there is greater clarity on the matter, nobody wants to buy land which they might lose, so smallholders are increasingly anxious about the value of their property.

So a quick fix to your financial distress, namely offloading all or part of your land to settle

debt, is hardly a sensible option at this stage.

All the more reason therefore why we need to plan, budget and save, even though our expenses are different from those of people living in town. What smallholders save up for will in some cases be different from what town dwellers buy. Often our priorities are quite different. And, happily, we also have the option of earning income

Continued on page 35

## AROUND THE HOME

From page 32

leaching. It also assists in water retention of the soil. Apparently DE it doesn't harm most beneficial micro-organisms in the soil. Worms, for example, are not affected by the microscopic edges in diatomaceous earth particles. In human consumption, some of the benefits of using DE internally are said to include reducing odours, helping to curb flatulence, cleansing the digestive tract,

boosting liver function and absorbing harmful toxins within the blood.

DE acts as a natural chelating product used for pulling heavy metals from the bloodstream. Other alleged benefits include lower cholesterol, lowering of blood pressure, relief from arthritis pain, increased energy, more regular bowel movements, smoother complexion and cough relief.

**Clovelly**  
Layers  
Delmas  
083 393 0935

**Vierkantige hawerbale**  
Tekoop R30  
Geel Mielies  
50kg heel R120  
50kg gebreek R130  
Grootmaat pyns onderhandelbaar  
Randfontein  
011 416 3306 083 313 6510



### Cold formed palisade panels

40 x 40 section  
16 palings per panel

3 000mm wide x 1 800mm high **R680.00**  
3 000mm wide x 2 000mm high **R725.00**

### Cold formed palisade palings

40mm x 40mm	30mm x 30mm
1 500mm <b>R28.50</b>	1 500mm <b>R20.00</b>
1 800mm <b>R36.00</b>	1 800mm <b>R23.00</b>
2 000mm <b>R39.00</b>	2 000mm <b>R25.50</b>

3 or 7 spike available

### HR 25mm ANGLE DEVIL'S FORK front weld PANELS

3 000mm wide x 1 800mm high **R579.00**  
3 000mm wide x 2 000mm high **R650.00**

### 76mm Square Posts

2 400mm DOMED CAP **R160.00**  
2 400mm PYRAMID CAP **R182.00**  
3 000mm DOMED CAP **R227.00**  
3 000mm PYRAMID CAP **R249.00**

*The Largest Manufacturer  
of Steel Palisade Fencing  
in the Southern Hemisphere*

### Cold formed palisade panels

30 x 30 section  
19 palings per panel

3 000mm wide x 1 800mm high **R640.00**  
3 000mm wide x 2 000mm high **R735.00**

16 palings per panel

3 000mm wide x 1 800mm high **R530.00**  
3 000mm wide x 2 000mm high **R620.00**

### Palings and panels manufactured

from 500mm to 3 000mm height

Robertville 011 474 5335

Springs 011 811 5111

Vanderbijlpark 016 981 2038

Vereeniging 016 421 3260

Wadeville 011 824 1800

Wynberg 011 321 7900

Alrode 011 900 4270  
Boksburg 011 917 7963  
Booyens 011 496 3000  
Brits 012 252 0256  
eMalahleni 013 692 8425  
Pretoria 012 800 9600

Only A-Grade Material Used  
We Manufacture Various Lengths  
Free Delivery • All Prices include VAT • E&OE



From page 34

from our plots.

Most of us know that we should live according to a budget, save something every month, invest to grow our wealth, minimise debt and ensure a financially secure retirement.

However, we often don't know where to start, which means we never start at all. It doesn't help that financial terminology can be intimidating, so we sometimes stick to limited financial products simply because we understand them.

Financial planners tell us to start by drawing up a budget. This is a simple exercise but it gives one a clear picture of one's circumstances on a monthly basis.

It's not rocket-science: draw a vertical line down the middle of a blank page.

On the left, list all your monthly expenses. Start with fixed expenses such as rent or bond, insurance, school fees, retail accounts, credit card payments, etc. Then move on to variable expenses such as food, petrol, clothing, electricity, animal feed, etc. If any of these items are paid by your employer before you receive your salary, don't include them (eg, tax, pension and medical aid). Don't forget to add sneaky little expenses such as bank charges, parking fees, car guards and the indulgent little latte and apple Danish that you enjoy when you're peckish at work. Write everything down. This might entail keeping a notebook with one for a month in order to write down every little thing one spends money on. On the right hand side, write down your net salary, which is the amount that is paid into your bank account every month, ie, after deductions. If

you receive other income, list it here too. An example of other income could be rent charged for cottages on your plot, profits from the sale of livestock, fresh produce or other products made on the plot.

Add up the left column, and add up the right column.

Hopefully the right column totals more than the left, which means that your income is greater than your expenses.

You may find that you need

to adjust it constantly. In most months there are unforeseen expenses – someone in the family falls ill or your car packs up or your brushcutter is stolen. Perhaps you forgot something, you estimated the cost of something incorrectly or your commitments change.

If your income is more than your expenses you should open a savings account and transfer some of the surplus

into it.

The value of saving money lies in giving you a safety net. This will ensure that if your borehole pump breaks, you

Continued on page 36



## RotoTank™

Manufacturers of Water, Chemical, Transport, Septic Tanks and Silos

### Cape Sales:

Tel: +27 (0)22 433 2342/2937

Fax: +27 (0)22 433 4724

E-mail: [rotocape@mweb.co.za](mailto:rotocape@mweb.co.za)

### Gauteng Sales:

Tel: +27 (0)12 376 1070/2

Cell: +27 (0)71 689 4216

Fax: +27 (0)86 297 2504

E-mail: [roto@mweb.co.za](mailto:roto@mweb.co.za)

PO Box 1210, Ifafi 0260

### KZN Sales:

Tel: +27 (0)39 685 7243

Fax: +27 (0)39 685 0292

E-mail: [kznsales@rototank.co.za](mailto:kznsales@rototank.co.za)

[www.rototank.co.za](http://www.rototank.co.za)



KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980

**ARMSA**  
ASSOCIATION OF RURAL MUNICIPALITIES SOUTH AFRICA

**GRÉMENT SOUTH AFRICA**  
Specialising in Agricultural Equipment

KWAZULU-NATAL  
**MASTER BUILDERS ASSOCIATION**  
ESTD 1980



# FINANCE

From page 35

have a veterinary crisis or your child needs new school clothes, there will be money available and you won't have to use your credit card. If you don't have to use credit for emergencies it means that your credit card and retail

accounts will soon be paid off.

However, if your expenses are more than your income, then you need what financial planners call "an SOS plan." Carefully check all your expenses and determine

which are nonessentials that you can live without for a while. For example, cancel the satellite TV subscription. Don't go shopping for clothes for six months (some would say that maploters are rarely noted for their fashion style

anyway).

Another option is to consider how to increase your income. The *Gauteng Smallholder's Companion* lists a number of ideas on how smallholders can use their plots to

Continued on page 38

## Useful plants ... the whole lot

**P**eople's Plants – A *Guide to Useful Plants of southern Africa* is a fascinating book that is a must for anyone interested in useful plants, new crop plants, medicinal plants, new product development, ecotourism, rural development, traditional crafts, African culture, ethnobotany and botany in general. *People's Plants* is a scientific review of all of the most important useful plants of southern Africa. It remains the first and only fully illustrated ethnobotanical

reference source for southern Africa.

In this expanded and updated second edition, traditional and contemporary uses of more than 700 plants are described and illustrated in 20 chapters, each dealing with a specific category of plant use:

❑ Foods and drinks, including cereals, seeds and nuts, fruits and berries, vegetables, roots, bulbs and tubers, and beverages.

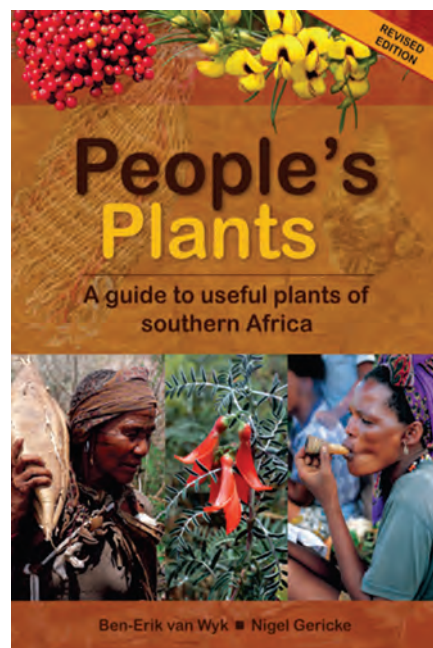
❑ Health and beauty, including general medicines, tonic plants, mind and mood

plants, women's health, wounds, burns and skin conditions, dental care, perfumes and repellents, and soap plants and cosmetics.

❑ Skills and crafts, including hunting and fishing, dyes and tans, utility timbers, fire-making and firewood, basketry, weaving and ropes, thatching, mats and brooms.

The Expanded and revised 2nd edition, published this year, is by Ben-Erik van Wyk and Nigel Gericke. ISBN: 978-1-920217-71-6. The book is 416 pages long, in a hard cover

and full colour throughout. And sells for the recommended price of R455.





## WATER PLANT

turning your garden into a paradise since 1982

Tel 0861 987 654 Cell 083 407 7589

### We Courier Nationwide!

#### Braais & Pit Fires



#### Wide Variety of Garden Furniture



#### Variety of Garden Ornaments



#### Custom Built Floating Fountain



Prices include VAT, E&OE, while stocks last. Illustrations may differ from products supplied. SEE THE FULL RANGE ON OUR WEBSITE [www.waterplant.co.za](http://www.waterplant.co.za)

Hartbeespoort: R512, near Pecanwood e-mail [albert@waterplant.co.za](mailto:albert@waterplant.co.za)

#### Bekostigbare implemente geskik vir die klein boer

### SKRAPER

Lem is VERSTELBAAR

R2 200

- 1.5m wyd
- Geskik vir klein trekkers

### BOSSIEKAPPER

Kante is VERSTELBAAR

R6 500

- 1.2m wyd
- Sonder PTO
- 1.5m ook beskikbaar

Pryse sluit BTW in 072 153 8776



## AMBERLINK HENS

★ 6 week old Pullets  
(All vaccinations done to 6 weeks, including MS Vaxsafe)

★ 17 week old Point of Lay Hens  
(All vaccinations done)

AVAILABLE MONTHLY

FARM FRESH EGGS

016 371-2154

082 903-6595



EGGS



Section 6, Maranatha Business Park,  
Middle Muir Avenue, Anderbolt Ext 111,  
Boksburg



<https://www.facebook.com/Maxishare-cc-1054175121356419>

**OPEN MONDAY TO THURSDAY 07:00 - 17:00 • FRIDAY 07:00 - 15:15 • SATURDAY 08:00 - 11:00**



**Our Products**

- Weldmesh (Rolls & Sheets)
- Hinged-Joint Field-Fencing & Galvanised Flat Sheets
- Diamond Mesh & Woven Mesh
- Hexagonal Netting Wire & Insect Screening
- J Clips & Pliers; Hog Rings & Staplers; Bowls & Feeders
- Fence Posts, Stays & Farm Gates, Binding Wire & Fencing Wire

**Directions to Maxishare from the Atlas Road off-ramp from the N12.**

Head south on Atlas Road/M43. Turn right into Paul Smit Road. Turn Left into Turf Road. Turn Right into Middle Muir Avenue. Maranatha Business Park is at the end of Middle Muir Avenue.

**GPS 26°12.435'S, 028°16.107'E**

Disclaimer: Galvanising contains zinc. Customers use galvanised products for livestock and humans entirely at their own risk.



## FINANCE

From page 36

augment their income.

Do some research on what people need in your area and develop a solution that will meet that need as well as bring in profit to you.

If, however, your budget has shown that your credit card and other debt are out of

control, you will have to scale down your lifestyle until you recover from this.

Speak to every contract service provider about how to reduce your payments. For example get quotes on cheaper insurance, negotiate lower bank charges, downgrade your cell phone

contract when it's up for renewal (you can also remove caller ID and other add-ons).

If you don't own the property that you live on, talk to your landlord ~ if you are a good tenant he may consider helping you out for a while by reducing your rent.

You will never know if you

can get things cheaper if you don't ask. This applies to all budget scenarios, not just to those who are in dire straits. In any situation where you can save yourself some money, it will enable you to add to your savings.

Having a savings account is

Continued on page 40

## Beware: You can be nailed for veld fires

**T**he National Veld and Forest Fires Act of 1998 clearly outlines what is considered an offence, and provisions of the act have been used in recent years to secure convictions against those who break the law or neglect their responsibilities as landowners or occupiers. The act divides such offences into categories.

For example, there are penalties listed where a person lights, uses or maintains a fire in the open

air or in a road reserve, as well as concerning smokers.

It is an offence where a person fails to prepare and maintain a firebreak on his or her side of the boundary with adjoining land or when an owner burns a firebreak when the local Fire Protection Association has objected.

When a fire breaks out on your own land and you fail to take reasonable steps to extinguish the fire, confine it to that land or prevent it from causing damage to property

on adjoining land, you are liable to a fine or imprisonment for two years.

It is an offence if you have reason to believe a fire on your land may endanger life, property or the environment but you fail to notify the fire protection officer in your area (if such an individual has been appointed), or failing him or her, any member of the executive committee of the FPA if one exists for the area, as well as the owners of adjoining land.

You are also liable for penalties if you fail to meet the standards of readiness for firefighting by not having the equipment, protective clothing and trained personnel for extinguishing fires.

An owner on whose land a veldfire may start or burn or spread fails to meet the standards of readiness for firefighting by not ensuring that in their absence, a responsible person will be present on or near their land who if there is a fire will extinguish it or assist in doing so; alert the owners of adjoining land and the FPA if there is one, is also committing an offence.

The act also states the offences that may occur if a fire breaks out on adjoining land or people do not co-operate with firefighting personnel.

## SEPTIC TANK PUMPING



**0861 11 33 24**

**WE TAKE YOUR SHIT!**



## F SERIES PARTS F100 & F250



**CRAIGARY ENTERPRISES CC**  
99 7th Ave, Edenvale  
T: 011 609 3631  
F: 011 609 3693  
E: [craigary@global.co.za](mailto:craigary@global.co.za)

**Free quotations**



## EXPRESS WALLS

*Quality Concrete Walling*

Quinton: 079 492 7841  
Philip: 082 670 0794

**Quality Concrete Walling**

**5 year guarantee on all our products**

- Manufacture and installation of all concrete walling from 1.8m - 2.4m high
- Wall repair, wall extensions and razor wire on walls

[www.expresswalls.co.za](http://www.expresswalls.co.za) Installed throughout Gauteng



# Quality Agricultural Equipment & Spares

**-POWER- MOWER**

**MAJOR**   
www.MAJOR-EQUIPMENT.COM

Major Swift 1,9m & 2,4m  
Roller Mowers

**PTOs,  
Components  
& Spares**

500 litre skid-mounted  
motorised sprayer.  
2 x 20m hoses

**Blades,  
Skids  
& Bolts**

**Slasher Spares**

for ALL makes & models

17.5 litre  
Firefighting  
Backpack  
Sprayer

**SPRAYERS**  
for  
firefighting  
herbicides  
cleaning, etc

**MAIABI**  
GOLPER

**FULL RANGE OF  
GROUND-ENGAGING  
IMPLEMENTS  
FROM  
TOP BRANDS**

**MONOSEN**

**JUPIDEX**

**Rovic Leers**  
Leading Farming Technology

**SOUTHTRADE**  
IMPORTERS & DISTRIBUTORS OF AGRICULTURAL MACHINES

**tandem**  
LAWN INDUSTRIES

**Landini**

**McCORMICK**

Also stocking these fine brands

**ENGEN**  
Lubricants

**tandem**  
LAWN INDUSTRIES  
**Supaturf**

**-POWER- SPRAYER**



**GRASSHOPPER**  
IT'S SO MUCH MOWER



**STIGA**

Lawn Tractor

Swedish quality  
14kW Briggs &  
Stratton engine  
106cm cut



Landini Solis 20,  
13kW 4-WD Tractor



Landini Solis 50,  
35kW 2-WD  
Tractor



RTS 13000LB  
4x4 Winch Kit

**WORKSHOP NOW OPEN**

We REPAIR:  
Tractors  
Implements, Mowers,  
Chainsaws, Brushcutters  
etc, etc

**1 West Street  
Boksburg East  
Tel: 011 914-1922  
Fax: 011 914-1923**

TOUGH AS NAILS AGRICULTURAL EQUIPMENT



**REAPERS  
AGRI**

MADE FOR THE TOUGH AFRICAN BUSH

www.reapersagri.co.za

**Pieter Visagie (snr)**  
**082 616-8060**  
pieter@reapersagri.co.za  
**Pieter Visagie (jnr)**  
**076 423-9860**  
sales@reapersagri.co.za



## FINANCE

# Finance & support for emerging farmers

Smallholders and emerging farmers who want to make money from their agricultural enterprises will at some stage need support, in the form of financial assistance and in improving their skills and

knowledge.

But, to make money out of land and livestock needs one to think and plan like a businessman or woman, and the old saying "you need money to make money" applies to agribusiness too.

Money is needed to buy seed, fertiliser, equipment, livestock ~ the list is endless. Fortunately, for emerging farmers there are many possible organisations that can help.

❑ One of the target markets

for the Small Enterprise Finance Agency (SEFA) is businesses involved in agriculture, specifically land reform beneficiaries and contract-farming activities. There are quite a few criteria to be met, which are stated on <http://www.sefa.org.za/contacts/apply>. Phone 012 748-9600 or 011 403-1761.

❑ The government has more than one programme that could benefit an emerging farmer. There are agricultural

Continued on page 41

## BUDGETING

From page 38 the first step towards financial freedom.

With some savings in the bank you need to do some research or take advice on turning your money into a wealth-building investment portfolio.

Most of us would like to be able to improve our present lifestyle and we also need to consider saving for retirement.

What you do with the money

that you are saving depends on your goals. Put your goals and strategies firmly in place and be clear about what you want the money to do for you. If you don't know how to achieve these financial goals consult a qualified financial planner. Make sure that he or she is independent and not going to emphasise a particular option because of the commission that might be earned.

But even then you must do

your homework beforehand. Be very sure you know what you want from your money first and make sure that the planner understands your goals and your motives. Even if you do take advice from a professional, arm yourself with knowledge so that you can understand what is being suggested. There are many easy books available which demystify the world of money, saving and investment.



# Steyns

boerebenodighede

Quality Seeds & Feeds  
Guaranteed

We stock **SERNICK** feeds at all branches



WE STOCK THE FULL RANGE OF Montego  
Pet Nutrition



25Kg Parrot Mix	R360
2Kg Rainbow Parrot Mix	R77

50Kg

Mielies	R150
Sifted Crushed Mielies	R160
Mixed Fowl Food	R185
Layer Meal	R249
Game Pellets	R239

Wide variety of bird seeds.  
mixed bird, budgie,  
canary, linn seed, wild  
bird, manna

OTHER PRODUCTS  
IN STOCK

Hominy Chop, Wheaten Bran,  
Soya Oil Cake, Bulk Maize,  
Sunflower, Wheat, Maize Meal,  
Samp, Braaipap, Yellow Maize Meal



TEFF SQUARE BALES @ R70-00

LUCERNE SQUARE BALES @ R80-00

All prices include VAT. Valid till 16 July 2018. E&OE

Delivery available, subject  
to quantity and distance

**Krugersdorp (Mill)**

4 Rustenburg Road  
Krugersdorp West  
011 953 1828 (Lettie)

## Branches

**Randfontein (Head Office)**

29 Union Street  
Randgate

072 783 9694 (Willie)

Wholesale customers welcome  
email [info@steyngroup.co.za](mailto:info@steyngroup.co.za)

**Carletonville**

Beerster Street  
Oberholzer

082 739 7427 (Kobus)



# FINANCE

From page 40

grants, which generally don't need to be paid back by the recipient. However, there will be specific criteria for determining who will be eligible for a grant and once awarded, strict guidelines around what the fund can be used for. For more information on grants phone 012 319 7020 or visit the closest Land Affairs or provincial agricultural department offices. On the other hand, agricultural government funding is typically when a project or business derives part or all of its financial support from

government. This funding needs to be repaid after a specific period of time, which is agreed upon by both you and the government.

The government funding options available to the agricultural sector include:

☐ The Micro Agricultural Financial Institutions of South Africa (Mafisa) has as its purpose to ensure that smallholder producers have access to finance and that they form part of the mainstream economy. The loans are for the purchase of production inputs (fertilizers, seeds, pesticides etc); small equipment and implements; breeding livestock, medication, feed, branding material etc. Contact 012 319-7263/6825/7216 or PortiaMahl@daff.gov.za or ElizabethKh@daff.gov.za;

☐ The Isivande Women's Fund funds the improvement of women's economic empowerment in the

agricultural sector. Contact 011 772-7900 or email [info@idf.co.za](mailto:info@idf.co.za);

☐ Strategic Business Unit (SBU): Agri-business and agriculture: the aim of this agricultural funding opportunity is to develop competitive processed food, beverage, fibre, and forestry and derivative industries. For further information go to [www.idc.co.za/sbu-overview/agro-industries.html](http://www.idc.co.za/sbu-overview/agro-industries.html)

☐ Land Redistribution for Agricultural Development (LRAD), a joint venture with the Depts of Agriculture and of Rural Development

. Through the programme, qualifying beneficiaries may acquire land for agricultural purposes.

☐ The Land Bank provides finance to all sectors of the agricultural economy and agri-business. Call 012 686 0500 or email [info@landbank.co.za](mailto:info@landbank.co.za);

Continued on page 43

**Alpacas For Sale**  
**Magicalpaca's Farm**  
 in Kempton Park offers:  
**A selection of**  
**pedigreed Alpacas**  
**at competitive prices**

Coverings available from stud quality herd sires

**Call Lee Ermen**  
**082 455-4288**  
[bounty@jafrika.com](mailto:bounty@jafrika.com)




## BUILD HOUSE WALLS FOR R 98, 00/m<sup>2</sup>



Contact us now for more information:  
[www.stumbelbloc.com](http://www.stumbelbloc.com)  
 or call 083228 8036

## MAKE YOUR OWN BLOCKS AND BUILD YOURSELF





# The book that every smallholder needs

Contents will include:

- Infrastructure (fencing, septic tanks, irrigation etc)
- Keeping Livestock
- Crop Production
- Pasture Management
- Farm & Garden Machinery
- Legislation applicable to smallholders
- and much more!



**LIMITED STOCK LEFT ~  
Order your copy TODAY!!**

**Only R180-00 VAT and DELIVERY included**

**34 chapters,  
fully-illustrated  
208 pages**

(Complete & email to [bowford@gmail.com](mailto:bowford@gmail.com) or fax to 086 602 3882

Please send me ..... copies of the Smallholder's Companion.

Payment can be made by postal order or EFT (we will supply bank details on request)

Name: .....

Postal Address: .....

Tel/Cel number: .....

Phone 011 979-5088 or email [bowford@gmail.com](mailto:bowford@gmail.com) for EFT & delivery details.

A receipted Tax Invoice will be issued to you as acknowledgement of your order and you will be notified of your Post Office tracking number or other delivery details.



## Good air filtration is vital on dusty Highveld

South Africans, particularly the Highveld variety, tend to forget how dusty our winter environment can be. But that this is so should be obvious to Gauteng's smallholders, at least those whose plots are down untarred roads, as they battle fruitlessly to keep their cars clean and dust free. And if the cars are dusty on their bodies and windows, imagine how dust accumu-

lates in the air filters of any machine, from the smallest chainsaw or mower, to the largest turbocharged diesel tractor, which works on a dusty Highveld plot or farm. Indeed, air filtration is a highly-developed science nowadays, and modern tractor dealers often have special deals on filter elements to entice new owners to ensure that their filters are cleaned regularly.

Moreover, on many models of tractor designed and built in wetter, less dusty climates, one of the modifications that is undertaken before such machines are made available on the local market is to upgrade the air filtration. Modern air filters are usually of a paper element type, at least on larger engines. These are disposable after use, and mechanics warn that blowing them "clean" with a compres-

sor and re-using them is not recommended.

Smaller engines, such as are found on chainsaws and brushcutters, and certain mowers, are fitted with air filters that comprise nothing more elaborate than a piece of sponge, often lightly soaked in light machine oil. These are reusable, except that repeated washing and recoating with oil causes the sponge to disintegrate, in which case it should be replaced, rather than risking leakage of unfiltered air into the carburetion system.

When re-coating a sponge element with oil, ensure the sponge is coated through, but that all excess oil is squeezed from the sponge. Also, use only a light oil. A heavy, viscous oil will cause the sponge to remain out of form

## FINANCE

From page 41

There are commercial products also available, such as the Old Mutual Masisizane Fund, which funds agribusiness with support for grain and vegetable crops, Livestock, Implements and Equipment. Tel 011 217-1746 or email [tmagodla@oldmutual.com](mailto:tmagodla@oldmutual.com). The four major banks all have agribusiness departments, although smallholder requirements might be rather smaller than the banks will be prepared to support.

The term "Emerging Farmer" is commonly applied both to farmers who are emerging in terms of scale and to farmers who are emerging in terms of lack of skills.

The Gauteng Dept of Agriculture & Rural Development (Gdard) states that its function is to enable and support the agriculture sector to actively contribute to economic growth, inclusion, equality and employment creation and to boost food security for all and ensure the sustainability.

The department claims to provide extension and advisory services to all levels and classes of farmers through individual and group extension services. For more information contact Mpho Tlape at [mpho.tlape@gauteng.gov.za](mailto:mpho.tlape@gauteng.gov.za) or Skhalele Njoni

at [skhalele.njoni@gauteng.gov.za](mailto:skhalele.njoni@gauteng.gov.za).

At municipal level assistance is also available, usually in the form of advice and physical help, such as provision of tractors and ploughs for ground preparation, grass cutting etc, as well as extension services.

Continued on page 44

**Kameeldrift Wit Dorpers**  
Top Bloedlyn & Geregistreerde Wit Dorper Stoet

- Stoet & Kudde Ramme
- Volwasse Stoet Ooie
- Jong Ramme en Ooie

**Colette**  
**071 607 7337** 25km buite Pretoria

**Quality Irrigation Pipe @ BEST PRICES!!**  
Buy direct from our Factory

- ★ LDPE 12-50mm dia, Class 3 & 6
- ★ HDPE 12-90mm dia, Class 6 to 20
- ★ We do custom jobs to client's requirements
- ★ Made from recycled material ... environmentally-friendly
- ★ Dealers sought throughout Gauteng

Leaky pipe?? Or offcuts??  
We buy scrap polyethylene pipe  
Best prices paid!!  
Clean up your farm ...  
Recycle the waste!!

**DeltaPlast** (Pty) Ltd  
LDPE and HDPE irrigation pipe manufacturers

Tel 016 455-3947  
3 Joubert St Ext  
Duncanville,  
Vereeniging

**Fire beater**  
**FIGHT VELD FIRES EFFECTIVELY**  
**Get yours TODAY:**  
**It's the LAW!!**

1,8m long, thick but lightweight wooden handle keeps user away from smoke & flame

Unbreakable Fastening

Made from recycled rubber belting (not strips)

Only R90,00 cash & collect  
Price includes Vat.  
Trade enquiries welcome  
Scrap belting also available

Solid rubber sheet SMOTHERS flames FAST!

To order call  
**Derek Whittall**  
**078-706-6456**



# FACEBOOK

## Don't miss out ~ some of our recent posts

In case you missed them, here are some of the snippets posted on our Facebook page recently. In many cases they contain links to further resource articles to be found on the internet. If you are not linked to our Facebook page why not join today. You will receive Facebook notifications when new material is posted ~ which is regularly ~ and also be able to enjoy the comments that are made by other readers. The url is [facebook.com/gautengsmallh](https://facebook.com/gautengsmallh)

older.

### Water storage

Unless you are lucky enough to have a permanent spring bubbling away on your property, giving you an endless supply of water, the average borehole will be insufficient to pump constantly and endlessly. So, to provide for your irrigation needs, you will need to pump and store. Your choices for storage are earth dams, lined dams, above ground reservoirs of

concrete, corrugated or galvanised sheeting or plastic, or rotomoulded plastic water tanks, either on the ground or up a tank stand. We gave more detail on each.

### Acquiring sheep for a plot

Sheep are ideally suited to being kept on a smallholding. They can use vegetation which is unsuitable for human consumption and many thrive on hardy grasses and shrubs. Sheep are cheaper to buy and feed than cattle and they

have a higher reproduction rate and shorter pregnancy period.

We supplied contact details for breeders' societies for Dorper, Merino, Ile de France, Suffolk, Mutton Merino, Dohne Merino, Dormer and the Black-headed Persian breeds.

### Firefighting Equipment

Already the Gauteng skies are being smudged with smoke from veld fires.

Continued on page 45

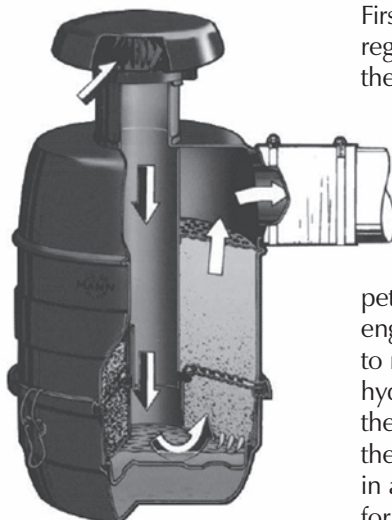
## IN THE WORKSHOP

From page 43

when squeezed, and will likely clog up, rather than coat, the sponge, leading to starting problems and slow running of the engine. Older tractors (and vintage cars and trucks) were often fitted with an oil-bath air filter. Typically this comprises a column of fine wire mesh, not much looser than coarse wire wool, at the bottom of which stands a bath of engine oil.

Air travels into the filter and over or through the oil in the bath, and then upwards through the mesh, which catches any particles of oil and dust, before entering the engine.

The oil-wet fine strands make an efficient trap but in time



How an oil bath air filter works.

become coated in oil and oil-wet dust.

Two factors are necessary, therefore, to ensure a fully functioning oil bath air filter.

Firstly, it is necessary to regularly check the level of the oil in the oil bath, and to replace it at least annually. That's because it will, over time, dry out as it is wicked into the wire mesh. And, counterintuitively, petroleum products such as engine oil, while they appear to reject water, are in fact hydrophilic, ie, over time they absorb moisture from the atmosphere. Thus, old oil in a filter becomes an agent for rust, rather than a rust repellent.

Secondly, it is necessary to clean the filter element by washing it in petrol or some other solvent, then drying it thoroughly in the sun and finally giving it a good coating of fresh oil, before reinstalling it. That's because all the dust it catches will remain attached to the fibres of the filter, rendering them less efficient and, in time, leading to contamination of the oil

reservoir.

But why is it important to take such care of the cleanliness of the air entering the engine? Because if you allow dust-laden unfiltered air into your engine the dust particles will act as an abrasive, causing unnecessary wear to cylinders and pistons.

In fact the only faster way to ruin an engine than neglecting your air filter would be to throw a handful of sand into your engine's sump.

## BREDELL SAND

EXCELLENT SERVICE | SAME DAY DELIVERIES | COMPETITIVELY PRICED

PRODUCTS	SERVICES
<p>Suppliers of top quality aggregates &amp; organics.</p> <ul style="list-style-type: none"> <li>• RIVER SAND</li> <li>• PLASTER SAND</li> <li>• BUILDING SAND</li> <li>• STONE</li> <li>• G5/G7 FILLING</li> <li>• DRIVEWAY ASH</li> <li>• TOPSOIL</li> <li>• COMPOST</li> <li>• LAWNDRESSING</li> <li>• COBBLE BRICKS</li> </ul>	<p><b>SITE CLEARING &amp; RUBBLE REMOVAL</b></p> <p><b>DEMOLITION</b></p> <p>COMPREHENSIVELY INSURED TREE FELLING</p> <p>TLB HIRE</p> <p>TIPPER HIRE</p> <p>WATER CART HIRE</p> <p style="text-align: center; font-weight: bold;">Wesley 083 648 6283</p>

## Dikgogo Fela

### Chicken Abattoir

We slaughter for the Smallholder

Certified Halaal

LIVE & SLAUGHTERED

Chicken Products for sale.

Open to the PUBLIC!

Randfontein

S 26°12.310' E 027°36.156'

072 3785 311

## Shadow Carports & Palisade

Any shape or size | All material – A Grade | SABS Quality workmanship

18 Years experience

082 466 3335

shadow.carports@gmail.com



From page 4439

Smallholders need to make sure that we have adequate firefighting equipment. Any firefighting efforts you take need not only to extinguish the advancing flames but they also need to overcome the energy of the convection winds. We looked at sprayers, blowers and safety equipment.

## Put Blackjacks to good use

Many of us regard *Bidens pilosa* L. or the Blackjack as a weed and a pretty bothersome one at that. However we were able to point out the different uses of blackjacks, including a recipe for Sautéed blackjack!

## Reduce the size of your lawn

Nowadays we recognise that maintaining a lawn is not ecologically sound in terms of biodiversity and is costly in

terms of time, water, fertiliser and labour.

There are various ways of removing patches of lawn, some slow and others more immediate. We gave details of how to do that and what to replace the grass with.

## Homemade liquid fertilisers

Homemade liquid fertilisers made from free, natural ingredients, such as grass clippings or chicken manure, can give your plants the quick boost of nutrients they need to grow stronger and be more productive.

We wrote about why liquid fertiliser is effective and described different ways to make it.

## Smaller equipment

It is probably fair to assume that on a very large proportion of Gauteng's smallholdings any powered item one may find trimming

edges, cutting wood, blowing leaves or pumping water is not the ideal item for the job. This is because one of the greatest mistakes made by any smallholder is to buy with an eye on the depth of his pocket, rather than with an eye on the job at hand. So, precisely what powered equipment does one need on a plot? We wrote about lawn tractors, brushcutters, chainsaws, shredders and cultivators.

## Gauteng's Aloes

Aloes are becoming more and more popular, but despite their rugged looks, they are not all as hardy as one might expect. So if you want to plant aloes, it makes sense to consider the aloes that occur naturally on the Highveld.

We listed *Aloe arborescens* (krantz aloe), *Aloe Davyana* (spotted aloe); *Aloe marlothii* (mountain aloe); *Aloe*

*verecunda* (Modest Aloe) and *Aloe zebrina* (zebra leaf aloe, spotted aloe).



**BANG-A-LERT**

**NEW!! All-Steel version**

Stop crime on your property  
Affordable & Practical  
More than 6 000 units sold in SA  
Simple Installation  
No Power Required  
Dealer Prices for more than 10 units  
**Mason Engineering**  
083 611 2857  
[www.bangalert.co.za](http://www.bangalert.co.za)

**Raspberry Canes**

*Plant NOW for delicious fruit next summer*

**In 2.5 litre bags: R30**  
**Cash & Collect**

**072 587 9137**  
[sweetberries@mweb.co.za](mailto:sweetberries@mweb.co.za)

**Yellow Maize FOR SALE**

**50 KG Yellow Maize - Whole**  
**50 KG Yellow Maize - Crushed**

**Also available in Bulk**  
**Price on request**

**AFRIBORE**

Anne-Marie - 082 945 7423  
Jacinda - 082 789 4171  
[afribore@icon.co.za](mailto:afribore@icon.co.za)

**WWW. TheSunPays.CO.ZA**

**100l Low pressure solar geyser from R3 290**  
Auxiliary tank included

**Solar panels @ R6,78 per Watt**

**Solar pump 140m max head @ R25 545.00, incl 9x 250Watt panels, pump and controller**  
**[www.TheSunPays.co.za](http://www.TheSunPays.co.za)**

**082 515 1655 or 012 734 0915**

**All prices include VAT | Free delivery 100km from Cullinan**  
**Full prices and specs on website | No installation included**



# 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 47. 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 Rayton. Call Rudan on 082 410-3180 horses@diamondxrancho.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

### July

6-7: BEECON 2018, hosted by the Kwa-Zulu Natal Bee Farmers Association, Pietermaritzburg. Themes for discussion include feeding of bees and the Capensis problem.

7: Bokkie Park Food & Craft Market at the Bokkie Park, Southvale Rd, Parkdene, Boksburg. 09h00 – 14h30. Huge variety of crafts and food stalls, live entertainment, tea garden, park activities, pony and camel rides. A great outing for the whole family. Contact Janine 072 713-3332

13: New Moon

20-22: WODAC – World of Dogs & Cats &

Pets Show, Gallagher Convention Centre, Midrand. 0900-1730 daily. Products for Dogs and Cats etc in the pet & veterinary industries.

21: Northern's Beekeeping Association members' meeting at Silver Valke Rugby Club, Silverton. Visitors invited from Pretoria & surrounds. Dr Lynne Hepplestone will talk on Wound Management Using Honey. For further details call Riekie van den Berg 082 972-1889

23-25: Cattle Artificial Insemination Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

26: Cattle Pregnancy Awareness Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

27: Full Moon

27: Calf Rearing Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

28: Garden World's Spring Festival event: Tjhoko Paint Workshop, 13h30 for 14h00. Nadine Vosloo from Tjhoko Paint will demonstrate various paint techniques to create a masterpiece on a crate.

R400 pp & includes the workshop, everything you need to create your masterpiece, refreshments & fabulous prize giveaways. Call Garden World, on 011 957-2545

### August

4: Beekeeping for beginners course (four Saturdays, one per month for four months). It will cover both practical and theory needed to start as a hobbyist beekeeper. 186 Uys Road, Rynfield Agricultural Holdings, right next to Highveld Honey Farms. Convener: Mike Alter, 083 430-8707.

4: Bokkie Park Food & Craft Market at the Bokkie Park, Southvale Rd, Parkdene, Boksburg. 09h00 – 14h30. Huge variety of crafts and food stalls, live entertainment, tea garden, park activities, pony and camel rides. A great outing for the whole family. Contact Janine 072 713-3332

4: Garden World's Spring Festival event: Container Gardening, 09h30 for 10h00. Johan 'Panda' du Preez from Starke Ayres plants up an edible box full of scrumptious veggies. R250 per person & includes the workshop, container, plants, refreshments as well as fabulous prize giveaways. Contact Garden World on 011 957-2545

5: Country Charity Market in aid of the Manger Care Centre, 0900 – 1500, Plot 31, Uitzicht, Van der Hoff Road, Pretoria West. Fresh produce, food, arts & crafts and live entertainment. To book stalls etc call 012

376-0042 (The market will run every Sunday thereafter).

9: National Womens Day

9: Garden World's Spring Festival event: Topic: Women's Day Makeover, 10h30 for 11h00. Hannon Bothma, the Glam Guru, performs a live makeover on stage. No persons under 18 will be allowed. R200 pp & includes the demonstration, refreshments & fabulous prize giveaways. Contact Garden World on 011 957-2545

9-11: Kragdag Expo, Diamantvallei Landgoed, Donkerhoek.

11: New Moon

11: Garden World Spring Festival event: Mother & Child Fun Day with a Flower Arranging Course, 09h30 for 10h00. Join Ina Roodt, Interflora & Makro Home & Garden for a fun-filled morning where you can create your own beautiful flower arrangement, the perfect workshop for mother and child! R140 per child & includes the workshop, refreshments as well as fabulous prize giveaways. Contact Garden World on 011 957-2545

18: Northern's Beekeeping Association members' meeting. Visitors invited from Pretoria & surrounds. For times, venue and details call Riekie van den Berg 082 972-1889

18: Garden World Spring Festival event: Succulent Container Gardening, 09h30 for 10h00. Join Efekto & John Sauer from Ngena Succulents as he will show you how to plant a succulent container garden, and also discuss water scarcity in South Africa due to a growing population and rapid urbanization.

R100 pp & includes the talk and demonstration, a goodie bag, refreshments & fabulous prize giveaways including Succulents in container. Contact Garden World on 011 957 2545

25: Garden World Spring Festival event: High Tea with Sandy Roberts of the Margaret Roberts Herbal Centre, 10h30 for 11h00. Join MayFord Seeds & Garden World for a high tea morning with Sandy Roberts on anti-ageing herbs used to rejuvenate, revitalise & restore. A beautiful morning on healthy herbs & how to make teas from your garden at no cost. R140 pp & includes the talk, high tea, a goodie bag & fabulous prize giveaways. Contact Garden World on 011 957-2545

26: Full Moon

27-29: Cattle Artificial Insemination Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

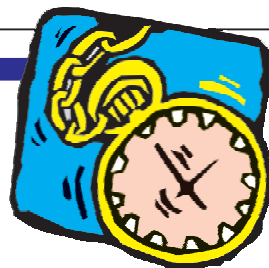
30: Cattle Pregnancy Awareness Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

31: Calf Rearing Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

### September

1: Bokkie Park Food & Craft Market at the Bokkie Park, Southvale Rd, Parkdene, Boksburg. 09h00 – 14h30. Huge variety of crafts and food stalls, live entertainment, tea garden, park activities, pony and camel rides. A great outing for the whole family. Contact Janine 072 713-3332

1: Garden World Spring Festival event: In Tune with Nature, 13h00 for 13h30. Anna Cilliers, Richard Cock and MayFord Seeds offer a delightful spring afternoon laced with good gardening advice from Anna Cilliers, paired with heavenly music & song brought to you by SA's most well-known conductor,



Richard Cock. R100 pp & includes the event, a goodie bag, refreshments & fabulous prize giveaways. Contact Garden World on 011 957-2545

1: Garden World Spring Festival event: Classic Car Show, 09h00 – 16h00. The Classic Car Show is a vehicle event worth noting. It's a fun experience that features vintage cars, classic cars, muscle cars and much more. It's the motor-heads go-to. Entrance is FREE. Contact Garden World on 011 957-2545

8-9: African Bird Fair, Walter Sisulu National Botanical Garden, Roodepoort. Organised by BirdLife Africa

15: Northern's Beekeeping Association members' meeting. Visitors invited from Pretoria & surrounds. For times, venue and details call Riekie van den Berg 082 972-1889

17-19: Cattle Artificial Insemination Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

20: Cattle Pregnancy Awareness Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

21: Calf Rearing Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

### October

6: Christmas in October Food & Craft Market at the Bokkie Park, Southvale Rd, Parkdene, Boksburg. 09h00 – 14h30. Huge variety of crafts and food stalls, live entertainment, tea garden, park activities, pony and camel rides. A great outing for the whole family. Contact Janine 072 713-3332

20: Northern's Beekeeping Association members' meeting. Visitors invited from Pretoria & surrounds. For times, venue and details call Riekie van den Berg 082 972-1889

22-24: Cattle Artificial Insemination Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

25: Cattle Pregnancy Awareness Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

26: Calf Rearing Course, Rothman Livestock Training Services, Muldersdrift. Call Lily 078 546-7985

27: Halloween Market, Bokkie Park, Southvale Road, Parkdene Boksburg. Call Janine or Joan 072 713-3332

### November

3: Bokkie Park Food & Craft Market at the Bokkie Park, Southvale Rd, Parkdene, Boksburg. 09h00 – 14h30. Huge variety of crafts and food stalls, live entertainment, tea garden, park activities, pony and camel rides. A great outing for the whole family. Contact Janine 072 713-3332

17: Northern's Beekeeping Association members' meeting. Visitors invited from Pretoria & surrounds. For times, venue and details call Riekie van den Berg 082 972-1889

24: Christmas Night Market, Bokkie Park, Southvale Road, Parkdene Boksburg. Call Janine or Joan 072 713-3332

## LIVESTOCK SALES

**Auctions: Bronkhorstspuit - Every Tuesday**

**Gys Taute 083 253 6906**

**Delmas - 2nd & 4th Thursday**

**Johan Taute 073 204 7646**

**Belfast: Wednesdays • Ermelo: Thursdays • Standerton: Fridays**

**Veissentraal Ermelo**  
**017 819 1106**  
**www.veissentraal.co.za**





# 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	CONTACT	WHAT TO EXPECT
Thursday					
Every Thursday	Bryanston Organic & Natural Market	09:00 - 15:00	40 Culross Road, Bryanston (off Main Road)	Konrad or Glenda 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.
Friday					
Last Friday	Walkerville Farmers Market	18:00 - 22:00	112 R82 Main Road, Walkerville	079 076 7680	Fresh produce, arts & crafts, food court and kids play area.
Last Friday	The Market In The Garden	09:00 - 15:00	Garden Shop, Braam Fischer Drive, Bryanston (next to Sandton Clinic)	Robyn 083 311 4768	Fresh produce, home industry & craft, food etc. Enquire about stall prices
Saturday					
Every Saturday	The Red Windmill Village Market	09:00 - 15:00	104 Main Road, Walkerville	082 627 3134 or 072 637 9355 Stalls: 082 641 8982	Fresh produce, food stalls, coffee shop, plants, arts & crafts, book etc.
Every Saturday	Waterfall Estate Farmers Market	09:00 - 15:00	Waterfall Estate, Waterfall Cor Midrand	Robyn 083 311 4768	Fresh produce, pickles, preserves and home industry & craft, food etc. Enquire about stall prices.
Every Saturday	Pretoria Boeremark	05:30 - 09:30	Moreleta Street entrance, Krige Street ext, Silverton	012 804 8031 or 079 987 1025	Fresh produce & traditional bazaar treats like jaffles, kaings with pap & boerevors rolls.
Every Saturday	Bryanston Organic & Natural Market	09:00 - 15:00	40 Culross Road, Bryanston (off Main Road)	Konrad or Glenda 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 - 14:00	Greenlyn Village Centre, Cor Thomas Edison & Mackenzie St, Menlo Park, Pretoria	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 - 15:00	112 R82 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 - 15:00	Walkerville showgrounds on the R82	Noorunisha 074 141 8485	Fresh produce, crafter's market, food court, craft beer, kids play area and pet friendly.
Every Saturday	Bosheuvel Fresh Produce	10:00 - 19:00	54 Glory Road, Muldersdrift	Mitch 082 553 2846	Outdoor country experience working farm cattle, sheep pigs. Free range meat, cheese, eggs and poultry. Craft beer
Every Saturday	The Fresh Co-op Weekly Farmers Market	07:00 - 10:30	204 Allan Road, Glen Austin Halfway House, Gauteng	<a href="mailto:info.freshproducecoop@gmail.com">info.freshproducecoop@gmail.com</a> 082 369 7755	Fresh produce, pickles, preserves, home industry, arts and crafts, food etc.
Every Saturday	Jozi Real Food Market	08:30 - 13:30	Pirates Sports Club, 25 Braeside Road, Greenside	Ingrid 083 532 2992 <a href="mailto:jozirealfoodmarket@gmail.com">jozirealfoodmarket@gmail.com</a>	Outdoor pet & child friendly, organic vegetables, food, arts & crafts
Every Saturday	Waenhuiskrans Plaas / Farmers Market	08:00 - 14:00	Cor of Veda & Enkeldoorn Ave opposite Montana Traders and next to Kollonade Centre	Phil Jansen - 083 5050 329 or office 012 567 6076 to book a stall	Stalls: Food, arts and crafts Fresh produce, eggs, chicken, meat, fruit and veg, Kiosk, <u>Maders Pies, coffee</u>
1st Saturday	Bonaero Market	08:00 - 14:00	Evangelical Lutheran Church, Bonaero Park, 26 Geldenhuys Rd	Magda (Secretary and Organiser) 083 8457660	Crafts, food stalls, coffee shop, kids play area, books, white elephant, veggies, safe parking
2nd Saturday	Brakpan Boeremark	09:00 - 14:00	Cor van der Walt & Dirk van der Hoff Road, Brakpan	Marius 082 904 8852 or 011 744 2322	Over 50 stalls, food, art crafts etc.
Last Saturday	Fresh2U Farmers Market	08:00 - 14:00	Cnr Main & High Street, Modderfontein (behind 33 High St)	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 & more.
Last Saturday	Fresh Produce Market	08:00 - 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 - 14:00	Broodblik & Koffiepit on the R51 between Petit & Bapsfontein	083 445 1608 <a href="mailto:adelekoffiepit@gmail.com">adelekoffiepit@gmail.com</a>	Homemade crafts & food stalls, bakery & coffee shop and entertainment.
Sunday					
Every Sunday	The Red Windmill Village Market	09:00 - 15:00	104 Main Road, Walkerville	082 627 3134 or 072 637 9355 Stalls: 082 641 8982	Fresh produce, food stalls, coffee shop, plants, arts & crafts, book etc.
Every Sunday	Fourways Farmers Market	10:00 - 15:00	Cor Montecasino Boulevard & 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!
Every Sunday	Carlington Craft & Food Market	09:00 - 15:00	The Bru House on the R563 Hekpoort-Krugerdroop Road	For stalls 0827824142 Debbie.Prinsloo@outlook.com	Restaurant, live music, kids play area, safe parking



Having difficulty finding a copy of

**GAUTENG SMALLHOLDER** MAGAZINE

at your local store?

**SUBSCRIBE**  
and we will send it monthly by post

Please post me the Gauteng Smallholder for the next 12 editions. My cheque/ postal order for **R210-00** made payable to **BOWFORD PUBLICATIONS**, is enclosed.

NAME: \_\_\_\_\_

Tel: \_\_\_\_\_ e-mail: \_\_\_\_\_

Postal Address: \_\_\_\_\_  
code \_\_\_\_\_

Please make cheques or postal orders payable to **BOWFORD PUBLICATIONS (PTY) LTD** (not the Smallholder). Post coupon & payment to: Subscriptions, Box 14648, Bredell 1623 or phone 011 979 5088 for our banking details if you prefer to do an EFT instead.

**R210**  
for 12 editions



FREE CLASSIFIED ADVERTISEMENTS

Conditions:

- 1. Only private advertisements for used or second-hand items accepted. COMMERCIAL and BUSINESS advertisers should refer to our rates on page 1.
- 2. All Classified Advertisements received will be moderated and uploaded to our sister website, www.sasfox.co.za. They will remain on the site for a calendar month, unless requested otherwise by the advertiser.
- 3. No Classified Advertisements will be published in this magazine in future.
- 4. Only ONE insertion per application, and one category per coupon.
- 5. Classified advertisements must be renewed monthly for repeat placements.
- 6. The Publisher reserves the right to edit or omit advertisements at his discretion.
- 7. It is the Advertiser's responsibility to ensure we have received the advert.

**SASFOX** co.za

**SA SMALL FARMERS**

**ONLINE EXCHANGE**

Buy . Sell . Swap    Koop . Verkoop . Verruil



USE THE COUPON BELOW FOR FREE CLASSIFIED ADS on [www.sasfox.co.za](http://www.sasfox.co.za)

1 WORD (BLOCK CAPITALS) PER SPACE, PLEASE


Tel:

FOR ENQUIRIES TEL 011 979-5088

Send your Classified Advertisements to us:  
BY FAX: 086 602-3882  
BY POST: Box 14648, Bredell 1623  
BY EMAIL: [admin@sasfox.co.za](mailto:admin@sasfox.co.za)  
BY HAND: 370 da Costa Dr, Bredell, Kempton Park



## Celebrating love

Love, when it is deep and abiding, (and not a destructive adolescent infatuation), is the best thing there can possibly be. And such a love was highlighted and celebrated recently in a little ceremony that took place in Benoni's Rynsoord cemetery.

The ceremony was organised by a group of Benoni residents and historians that included the convenor of a Facebook group named Benoni Now & Then, Glynis Cox Millett-Clay, Peter Wood, David Thomas, Flo Bird of the Johannesburg Heritage Foundation and the Anglican Dean of St Dunstan's Cathedral in the town.

Central to the ceremony were a lady from St Helena named Esther Henry, and a larger-than-life Yorkshireman named George Eaton. How they met and fell into a deep and lasting love is not known, but what is known is that they ended up in Benoni, owning and running the Chimes Hotel (which still exists today) among the mine dumps of Modder B.

Although they sold the Chimes after the Anglo-Boer War, George had become one of Benoni's wealthiest residents and they continued to live in style in the town, until George's death in 1939.

Esther duly had George buried in a double grave she bought in Benoni's cemetery, in the hope that when she, too, got gathered, she could rest eternally alongside her beloved.

But it was not to be. Esther, you see, was a person of mixed race and Benoni's cemetery was reserved for "whites" (even in those far-off pre-grand Apartheid days racial segregation was alive and well), so her adopted ("white") daughter had to have her buried in the "coloured" section of Boksburg's cemetery.

And there she lay, forgotten and unremarked, for some 75 years, until the little ceremony recently, when the group of about 20 Benoni residents gathered around George's grave to pay homage to their two departed townfolk and, in a small way, to celebrate their lives, by affixing a stone of remembrance upon George's grave.

Now stop a while, and consider the hurt and pain that Esther's bereaved daughter must have felt when she realised that she couldn't have her mother buried alongside her father because of the colour of her skin. That, surely, is a hurt that must burn hotly and brightly in one's heart forever.

Consider, also, that Esther died only four years after George, ie, during the war years. Which was some time before the National Party took hold of the country in 1948 and formalised the racial

prejudices of "white" South Africans into grand Apartheid. So the indignity visited upon Esther and her daughter had not yet been formalised into law, but was just part of the natural order of things.

(Yet it's hard ~ and wonderful ~ to believe that only 25 short years after the collapse of this awful system we can look back on the past with horror and disbelief at the madness and cruelty that was Apartheid.)

Speaking at the ceremony, one of the participants summed it up:

"We are here today to attempt to right this wrong that was done to Esther and George Eaton, through the placing of the stone of remembrance to be unveiled this afternoon. That stone not only speaks Esther's name and celebrates her life, but also testifies that we who are here today are members of a new South Africa which has left the old era of both legal and informal racism behind.

"We are welcoming Esther and George into our new community and in so doing we are repeating the words quoted by Martin Luther King: 'Free at last, free at last, thank God, we're free at last'."

To be sure, the ceremony was symbolically significant in celebrating the righting of a racial wrong. But, for me, it was a celebration of love, that condition of the heart and mind that binds a couple together in lifelong unity and even, as this ceremony shows, in death.

It makes me proud to be a member of a society in which a group of ordinary citizens can band together in a common purpose to perform such a genuine act of restitution, and such a celebration of love, that played out under the autumn sun in Benoni recently.

There must be other Esther and George Eatons buried throughout South Africa. Wouldn't it be wonderful if residents of other towns and cities could identify such couples, and perform similar ceremonies for them? What a celebration of our new country! What a celebration of eternal love!



### Borehole Water Solutions

Call 084 538 4600

### Quality Service throughout Gauteng

**Borehole Testing**

SABS standards

**Water Quality Tests**

**Borehole Pump Installations**

**Storage Tanks**

**Pressure Pumps**

**Irrigation**

**Electrical Installations**

**ALSO:**

**Mechanical Security Installations**

[www.bws-sa.co.za](http://www.bws-sa.co.za)  
[kevin@rainsford.co.za](mailto:kevin@rainsford.co.za)



Revet Authorised Retailer of

# JOHN DEERE

CLOTHING, TOYS AND NOVELTIES

## John Deere Toy Service Engines

- Perfect toy for little mechanics
- Numerous play options, sounds, and accessories guarantees hours of fun
- Battery-operated headlights and horn
- Two different electronic starter sounds
- Headlights and starter with repair function
- Material: plastic
- Recommended age range: 3+
- Requires 8 AAA batteries (not included)

**R1995<sup>00</sup>**



... many more toys,  
clothing and caps  
available this Winter!

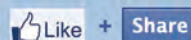


**Farm-Opoly**  
**R450<sup>00</sup>**

**We courier nationwide**



**facebook**



Find us on Facebook Revet (Pty) Ltd  
Authorised Retailer of  
John Deere Merchandise

Revet 270 Ninth Road, Bredell Kempton Park  
Tel 011 965 1292 | Cell 083 680 7746 | [sanet@revet.co.za](mailto:sanet@revet.co.za)

Trading Hours:  
Monday - Friday 07h00 - 17h00  
Saturday 08h30 - 13h00