

Dionel's Venus

#### Dear Business Partner

With the season changing we bring you the spring edition of our newsletter. As in the past we still aim to give you, as our valued customer, access to relevant and insightful articles on everyday farming. We start off with an article on the benefits of consuming milk rather than non-dairy alternatives. The 2<sup>nd</sup> article takes a closer look at the tendency of markets to move towards heavier weights in pigs. We also included more information on the sow caliper and a gilt eligibility decision tree. After the recent outbreak of distemper in the Western Cape region we added an article, by Dr Otto Kriek, explaining what the disease entails and how to treat and prevent distemper. Our 4<sup>th</sup> article deals with signs of a healthy dairy cow and how profitability is linked to the condition of a dairy herd. As winter is fading away and summer is fast approaching hibernating animals are starting to awake and you will most likely see more tortoises, bees, snails and snakes around, but it is also the main breeding season for flies, cockroaches and other insects. Therefore we included a fly control program in this edition so that you can rest assured that Lionel's Vet can give you the best solution to fly problems.

As always, we also bring you advertisements on trusted products and if you need any more information on these and other products you are welcome to contact the sales representative in your area.

Thank you for your continuous loyalty and support throughout the year. We hope to bring you excellent service as we approach the end of 2018. Feel free to contact us if you have any specific topics you would like us to cover in future editions. Your inputs are always welcome.

Many thanks to all our loyal customers. Going forward, we hope to bring you more exciting products/services and the best possible customer experience available.

Visit our website: WWW.LIONELSVET.CO.ZA

e-mail: info@lionelsvet.co.za; Tel: (021) 932 2019

# Milk is good for you, according to a new study — further evidence that the real thing is healthier than non-dairy alternatives



- A new study has shown cow's milk is good for the body.
- People who had 3.2 daily servings of low-fat dairy products had a lower mortality rate than those who had none.
- They also had a reduced risk of cardiovascular disease and stroke specifically.
- Some people in the world are lactose intolerant because they don't have the necessary enzyme to break down the components of dairy.
- For everyone else, there isn't much evidence you should avoid milk to be healthy.
- In fact, there are several myths about milk circulating online.

Whether or not you should drink milk is a contentious issue. Some people are convinced that cutting dairy out of their diets clears up their skin and gives them more energy, while others swear by dairy's nutritional benefits.

According to new research from McMaster University in Canada, published in the Lancet, milk is good for the body. A study of 36,000 people aged 35 to 70 from 21 different countries found that consuming dairy products is linked to a reduced risk of cardiovascular disease.

Participants were asked to complete a questionnaire about how much dairy they had a day. Those who had 3.2 daily servings had a mortality rate of 3.4% compared to those who didn't have any, amongst whom the rate was 5.6% on average.

Higher dairy consumption was also linked to the lowest risk of cardiovascular disease and stroke, and this was true whether the milk was full or low fat.

"Our findings support that consumption of dairy products might be beneficial for mortality and cardiovascular disease, especially in low-income and middle-income countries where dairy consumption is much lower than in North America or Europe," said Mahshid Dehghan, a professor at McMaster University, and lead author of the study.

The participants mostly drank milk and ate yoghurt in the study, and not enough cheese and butter was consumed to know whether they had an impact on health. Although, previous research has found that eating cheese has been associated with a lower risk of death because it's good for the heart.

Current dietary guidelines in nearly all countries emphasise the importance of consuming lower-fat dairy products. In Denmark, for example, the recommendation is to have 500g of low fat milk products per day and one slice of low fat cheese.

# There's a low risk of lactose intolerance in Northern Europe

Some people are lactose intolerant. It is most common in people of East Asian decent, affecting about 90% of adults in some of these communities. It is also common amongst people of West African, Arab, Jewish, Greek, and Italian descent.

But the prevalence of lactose intolerance is much lower in Northern European populations, at about 5%, where they have a long history of depending on milk products as an important food source. People in these communities are more likely to have the necessary enzymes in their gut to break down the components of dairy.

Despite the relatively low risk of having a problem with dairy, milk alternatives have become more popular in recent years. This is partly because of a rise in veganism, and concerns about animal welfare. But it's also because of the belief they are somehow healthier.



Cow's milk has an undeservedly poor reputation.

# Cow's milk has more nutritional value than non-dairy alternatives

In fact, alternatives like soy milk, almond milk, and coconut milk don't rival cow's milk in terms of nutritional value. A glass of cow's milk has as much as eight times the protein of any alternative, and many non-dairy milks contain added sugar. Cow dairy also contains more phosphorus, potassium, vitamin D, and often has fewer calories.

Aside from the belief it is "less healthy," there are a number of other myths about the impacts of drinking cow's milk.

#### 1. Myth: Cow's milk is full of hormones that are damaging to human health.

Truth: All animal products will contain hormones, and cow's milk is no different. But humans don't have the appropriate receptors for these bovine hormones to bind to. Also, when we drink milk, any hormones will be broken down in our gut into their component amino acids, so they wouldn't have any biological effect anyway.

#### 2. Myth: Milk is bleached before it's put on the shelves.

Truth: There are a few images circulating online that claim milk starts out red. Sometimes a cow will have mastitis, which is an infection of their udders that affects less than 1% of them. If this happens, cows have to be milked to treat it. Their milk is then diverted to a separate tank and poured down the drain. This is the only time you'd see blood-stained milk, but even then it's unlikely. And this milk is poured away — it doesn't make its way to market.

#### 3. Myth: Cow's milk contains pus.

Truth: Absolutely not. Somatic cells are white blood cells found in cow's udders, which fight infection. If the level of these cells is high, that means the cow is fighting something such as mastitis. Milk goes through a somatic cell count test, and somewhere between 100,000 and 200,000 cells per milliliter is considered to be in optimum health. In some countries the line is drawn higher, but the main point of it is to ensure cows are all healthy. Some online articles confuse somatic cells with pus.

#### 4. Myth: Milk causes acne.

Truth: The American Academy of Dermatology (AAD) doesn't currently recommend changing your diet to try and manage acne, because there is a lack of sufficient data. Some studies have claimed to find a link between drinking milk and developing acne, but the results haven't been strong because no study has been both randomised and controlled. Acne breakouts are more likely to be due to a multitude of dietary and biological factors, rather than a one-to-one causation of consuming dairy.

## If you're unconvinced, drink soy

You may still decide to cut cow's milk out of your diet even if you're not lactose intolerant, and that's totally fine. Dairy farming in many countries such as the UK is often safe and to a high standard, but you might not want to take the risk if you don't know where it comes from.

If you do try alternatives, it's just important to make up the vitamins and minerals you may lose out on as a result. A study, published in the Journal of Food Science and Technology in January, found that soy milk is the best alternative if you choose to cut out cow's milk. - **Read the original article on INSIDER.** 





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For more information contact:

info@lionelsvet.co.za

CPT: 021 932 2019 | JHB: 010 591 2030 | PE: 041 451 1900 | KZN: 033 345 1093

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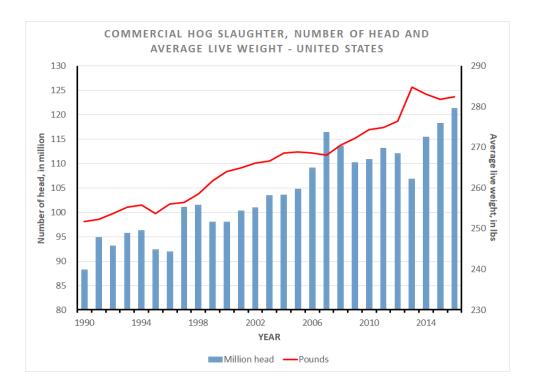
Southern Region: 082 923 6382 (Jannic Zietsman)

Natal: 083 788 1219 (Steve Elliott)





# Pig Improver



For decades, market pig weights have been steadily rising around the world. In the United States, market weights have increased by about one pound (~450 gram) every year over the last 30 years.

Why is the pork industry actively moving towards heavier market weights? **The short answer is more profit.** 

Within integrated production systems or simply at the processing plant, operational costs are the same no matter the weight of the pigs. Heavier carcass weights mean more saleable product is produced, with operational costs staying the same – and therefore more profit is achieved.

Heavier weights are achievable due to improved genetics (traits such as growth rate and feed efficiency) and improved production practices. Today, it is very profitable to increase the weight of the pig, while still maintaining the lean content and carcass attributes required in the present market.

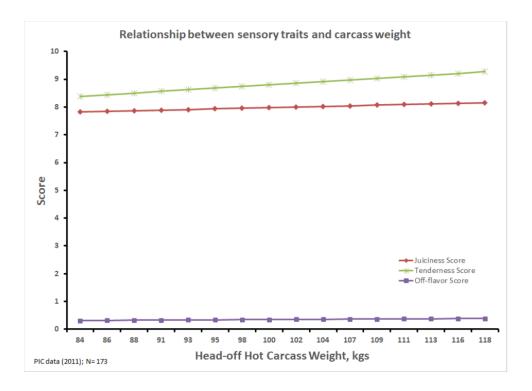
## Is pork quality the same for heavy weight pigs? What production considerations are involved?

Read on for answers to these questions and more, in this new issue of PIC Pig Improver.

Is pork quality compromised by heavy weight pigs?

No. Pork quality is minimally impacted by carcass weight.

"Our own research studies and other recent work by researchers such as Wu, et. al. (2016) indicates that increasing market weight has no adverse effects on pork or sensory quality of pork loins," notes PIC Applied Meat Scientist Brandon Fields. The PIC team also found that after 10 ten days of aging, tenderness was slightly improved in comparison to pigs of a lower weight. "Therefore, the pork industry should feel confident," says Fields, "that continuing to increase market weights will not impact final product quality."



#### What production considerations are involved with heavy weight pigs?

Even though **some** production changes are required to produce heavier pigs, these costs are soon recovered. Overall, it is significantly more profitable to produce heavy weight pigs as more saleable product is achieved at the same production and processing costs.

Typical plant processing changes include:

• Enlargement of alley width, lairage space, shackle spacing, restrainers, etc.

Bigger pigs simply require more space to move

- Rail weight capacity and rail heights may need to be increased
- Employee ergonomics may need to be considered
- Pig movement will be somewhat slower

Heavier pigs are structurally sound, but are not as nimble as smaller pigs

- Stunning conditions may need to be modified
- Chilling capacity must be increased

Chilling rates are paramount to good pork quality. As weights increase, chilling capacity is taxed. Systems designed to chill 500 carcasses weighing 180 pounds (80 kg) will not be able to efficiently chill the same number of carcasses weighing 220 pounds (100 kg). "Beyond just the standard capacity of the condensers, there is also reduced space and air flow," Fields explains. "Companies wishing to capitalize on the increased efficiencies of heavier pigs must take these factors into consideration and invest for the future."

Read about no-cost system reviews for slaughter and processing facilities delivered for PIC customers in this previous Pig Improver.

#### Final Thoughts to Ponder

The biology of the pig enables us to alter skeletal muscle growth efficiency and body/carcass composition without compromising the animals' biological viability or pork quality at heavy weights.

The industry should feel confident that increasing weights will not affect pork quality.

Recent studies by PIC and others clearly indicate that with modern genetics, **economical** commercial production of heavier weight pigs is easily achievable.

Genetic improvement of PIC pigs is accelerating faster than ever before (see Pig Improver on genetics here). Our future – and yours – has never looked so bright, as we continue to deliver on our promise to Never Stop Improving.

# THE SOW CALIPER



#### An objective tool to monitor sow body condition

The Sow Body Condition Calliper is based on tissue accretion /depletion on the sows back (lean and fat tissue combined) to determine body condition of the gilts and sows.

The tool quantifies the angularity of a sow's back. As a sow gains weight, fat and muscle the angularity of her back changes.



How to use the calliper: With both hands, locate the last rib of the gilt /sow. At level with the last rib, place the middle of the calliper on the midline. Avoid pressing the tips of the calliper into the sow /gilt and read the results from the calliper.

Aim to have 90% of sows at "ideal" - Ideal is 12-14 caliper units.

NOTE: The Calliper units do not correlate with P2 values, therefore is not the same units as P2 values. The Calliper units assist the farmer to determine body condition of the female animals to feed them accordingly.

- C 013 249 8917
- @ info@picrsa.co.za
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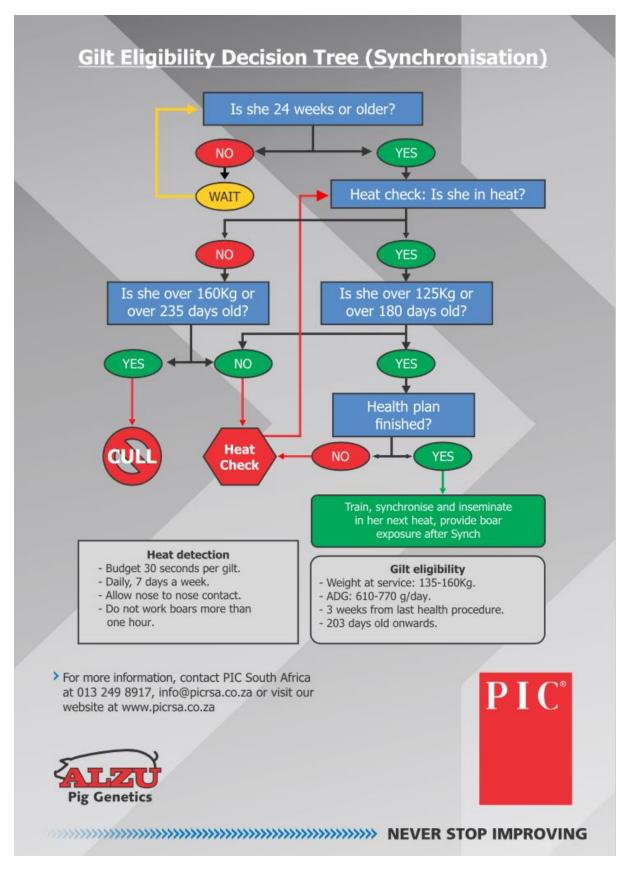




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WHIAL PROJECTS

For More information on this product you can contact: Johan Botes - 073 925 2382



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#### Hondesiekte (Distemper in Engels)

Hondesiekte val onder die groep Paramyxovirusse.

Dit is 'n uiters aansteeklike virus van honde.

Dit gee 'n aanvanklike temperatuur reaksie en dan later 'n tweede koorsreaksie a.g.v. 'n sekondêre bakteriële infeksie.

Die virus tas die slymvliese van die spysverteringkanaal en van die lugweë aan.

Hondesiekte kry mens ooral in die wêreld en is veral erg in die Kaapse winters.

#### Vatbare diere:

- Honde
- Jakkalse
- Wildehonde en hiënas
- Leeus, Jagluiperds en
- ander diere wat nie in die R.S.A. is nie, soos: "Mink"
   "Ferret", "Dingo", "Racoon", "Pine Martin" en Tiere.

Dit is meestal 'n siekte van dorpsgebiede maar het die potensiaal om 'n probleem te wees op plase en in "kennels".

#### **Oordrag**

Groot hoeveelhede virusse van aangetaste diere word deur die uriene, ontlasting en lug wat uitgeasem word versprei, daarom dat ander diere so maklik aangesteek word.

#### **Broeitydperk**

Na 6-9 dae ontwikkel die dier 'n koors wat baie maal nie deur die eienaar agtergekom word nie en dan keer dit terug na "normaal". Hond toon dan weer normale gedrag.

'n Tweede temperatuurstyging gaan dan gepaard met klassieke simptome soos 'n etterige oog- en neusuitloopsel. Soms is die neus heeltemaal geblok en die dier het dan geen eetlus. Hierna begin die dier te hoes en braak met 'n stink, donker swart teeragtige of selfs bloederige diarree.

Ander simptome ontwikkel dan soos wat die toestand vererger oor die volgende 3-4 dae soos uitslag op die vel in die vorm van puisies aan die binnekant van die dye.

'n Week tot 'n paar maande later ontwikkel senuweesimptome soos verlamming, onwillekerige sametrekking van sekere spiergroepe soos die kouspiere en dan konvulsies ("chewing gum fits") kry. Breinskade is permanent. Met verloop van tyd verhard die diere se voetsole ("hard pad disease") ook.

Dragtige tewe met die siekte kan die virus oordra aan klein hondjies wat dan reeds op 1-week oud simptome van die siekte toon. Soms sal daar gebreklike hondjies gebore word.

#### **Voorkoming**

Inenting op 6-8 weke,12 weke en weer op 16 weke daarna moet hul jaarliks geënt word. Bespreek dit met 'n veearts.

Beperking van beweging van diere met die siekte om verspreiding van een area na 'n ander te voorkom.

#### **Behandeling**

#### **VOORKOMING IS DIE BESTE BEHANDELING!!!!**

As die toestand vroeg ontdek word dan kan mens probeer hiper-immuun serum gee as dit beskikbaar is.

Sekondêre bakteriële infeksie word deur die veearts met antibiotika behandel. Koorswerende middels en binne-aarse vloeistoftoediening tesame met teenbraakmiddels word ook gegee om ontwatering te voorkom.

Middels word ook gegee om konvulsies te beheer.



Moet liewer nie self diere behandel nie en rapporteer gevalle onmiddelik sodat voorkomende maatreëls toegepas kan word om verspreiding van die siekte te voorkom!!

L.W. Antibiotika werk nie vir die virus nie!!!!

Deur: Dr. Otto Kriek

## Signs of a healthy dairy cow

May 28, 2018 8:27 am

To be profitable, a dairy herd must be in good shape. It's therefore crucial to be able to recognise a healthy dairy cow and know when things are not right.



An Ayrshire dairy cow in excellent condition, with all the indications of a healthy animal. Photo: Wayne Southwood

With practice, it is relatively easy to identify a healthy dairy cow. This will then enable you to tell when something is not right and take immediate action.

Here are the signs to look for in a healthy animal:

#### **General appearance**

It is alert and aware of its surroundings. It stands squarely on all four feet and holds its head high, watching what's happening around it.

#### Movement

It walks easily and steadily, with all four feet bearing its weight. Its steps are regular; irregular movement suggests pain in its feet or legs. A healthy animal that is lying down will get up quickly.

#### Eves

These should be bright and alert, with no discharge at the corners.

#### Ears

These should be upright, move to pick up any sound, and flick rapidly to get rid of flies.

#### Nose and muzzle

The nose of a healthy cow is clean, with no discharge, and the muzzle is moist. The animal should lick its nose frequently.

#### Mouth

There should be no dribbling saliva. If chewing is slow or incomplete, there could be a problem with the teeth.

#### Hair/coat

The hair coat of a healthy animal is smooth and shiny.

#### **Breathing**

This should be smooth and regular at rest. If the animal is in the shade, it's difficult to notice the chest moving as it breathes. Activity and hot weather will increase the breathing rate.

#### **Pulse**

A cow's pulse can be felt on the tail a short distance below the base. Measure it by holding the tail lightly with your thumb and forefinger. The normal rate is 40 to 80 beats/minute in the adult animal, and somewhat higher in a young animal.

#### Dung/urine

The dung pat of a healthy animal is soft. Watery dung (diarrhoea) and difficulty in defecating (constipation) are signs of ill health. The urine should be clear, and the animal will urinate with no sign of pain or difficulty.

#### **Appetite and rumination**

The cow should eat and drink normally. If feed is available, it will have a full belly. When a herd of healthy cows are at rest, most of them are ruminating. A poor appetite is an obvious sign of ill health.

#### Milk

There should be no swelling of the udder and no sign of pain when it's touched. The teats must not be injured. In the lactating cow, a sudden decrease in milk production could indicate a health problem. Blood in the milk points to an udder infection.

#### **Body temperature**

An abnormally high body temperature is a sign of infection (although environmental factors must be taken into consideration).

Finally, remember that a healthy animal tends to behave calmly, so any behaviour not usually seen may be a problem. For example, if a cow keeps looking at its flanks or kicks at its belly, there could be pain in the stomach area.

Source: The Milk SA Guide to Dairy Farming in South Africa (2013). Milk SA

Sire: Mr Mogul Delta 1427-ET

Dam: Edg Cp Bob 57351-ET VG-85

02-01 3x 305d 29500m 4.4 1300f 3.4 1013p

MGS: Roylane Bookem Bob 5170-ET TV TL TY TD

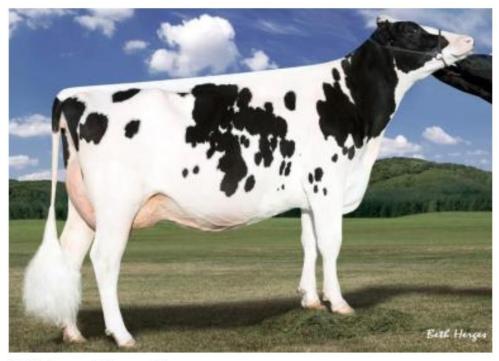
MGD: Larcrest Centerpiece-ET VG-86

02-00 3x 305d 29140m 4.5 1308f 3.6 1038p

MGGS: Amighetti Numero Uno-ET TV TL TY

MGGD: Larcrest Crimson-ET TY EX-92 GMD DOM

05-02 2x 365d 46390m 5.3 2448f 3.5 1620p



MGGD: Larcrest Crimson-ET



JD Marais - 076 638 8609

## 551H003360 DELTA-CHANCE

Reg: H0840003010364844

**DOB**: 09/19/2015 DMS: 135,123 aAa: 432 EE A1A1 RHA: 99%

#### Edg Delta-Chance-ET TC

#### Delta x BOB x Numero Uno

08/2018	CDCB SUI	MMARY - GE	NOMIC	NM\$ +826
Milk	+922	80%R	Fluid Merit \$	+771
Fat	+96	+0.22%	Cheese Merit \$	+852
Protein	+42	+0.05%	Grazing Merit \$	+841
SCS	2.88	77%R	F Effic. +184	Fert. Index +4.0
PL	+4.8	74%R	Livability +0.8	67% Rel
DPR	+3.6	74%R	EFI 8.0% gEF	8.5%
HCR	+3.7		-3167.	
CCR	+5.5		0 Dtrs 0	Herds 100% US

08/2018	CALVING SUMMARY			SCE 6.9 %
Sire Calving	g Ease	6.9%	73%R	62 Obs
Daughter C	alving Ease	4.4%	67%R	0 Obs
Sire Stillbir	th	7.4%	63%R	53 Obs
Daughter S	tillbirth	4.8%	62%R	0 Obs

08/2018 HA TYF	TPI +2716						
PTAT +2.14 78%R UD	C+2.25	FLC+1.19	BSC +0.	31 0 D	/ 0 H		
			-2	-1	0	1	2
Stature	+1.26	Tall					
Strength	+0.65	Strong					
Body Depth	+0.78	Deep					
Dairy Form	+1.72	Open Rib					
Rump Angle	-0.55	High Pins					
Thurl Width	+1.78	Wide					
Rear Legs-Side View	+0.05	Sickle					
Rear Legs-Rear View	+1.23	Straight					
Foot Angle	+1.63	Steep					
Feet & Legs Score	+1.32	High					
F. Udder Attachment	+2.54	Strong					
Rear Udder Height	+2.99	High					
Rear Udder Width	+2.75	Wide					
Udder Cleft	+1.71	Strong					
Udder Depth	+1.99	Shallow					
Front Teat Placement	+1.61	Close					
Rear Teat Placement	+1.77	Close					
Teat Length	-0.71	Short					









### **FLY PROGRAM**







# LIONEL'S

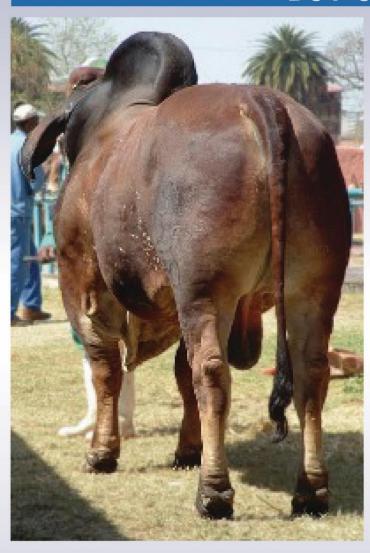
**VETERINARY SUPPLIES** 

PRODUCT		TYPE	DESCRIPTION	ACTIVE INGREDIENT	AREAS OF USE	DOSAGE RATE
DIMILIN		WETTABLE	LARVAL CONTROL - INSECT GROWTH REGULATOR	DIFLUBENZURON (CHITIN INHIBITOR)	Manure & decaying matter.	40g TO 5lt WATER - 10m <sup>2</sup>
Larval Control		POWDER	INCLOT CHOWTH REGULATOR	SANTAS II SANTAS	Wassassania & Carlo William	20g TO 5lt WATER - 10m <sup>2</sup> - 2-3 WEEKS
						SCATTER BAIT: 200g / 50-100m <sup>2</sup>
SNAP		GRANULAR		METHOMYL	Interior and exterior surfaces of dairies,	PAINT ON: 500g TO 500ml WARM WATER USE ON A TARGET AREA OF 2-4m <sup>2</sup>
FLY BAIT		BAIT	ADULT CONTROL	Z-9 TRICOSENE (PHEROMONE ATTRACTANT)	piggeries, poultry houses and other animal houses where flies have access and are known to congregate.	SURFACE SPRAY: 500-1000g TO 10lt APPLY TO AREAS WHERE FLIES CONGREGATE
				5.1371((5.5), 19		MAINTENANCE: 37.5ml TO 10lt WATER / 250m² REPEAT EVERY 4 WEEKS
DELTA 7	Dulta 7 Wil	WETTABLE POWDER	ADULT CONTROL - RESIDUAL SURFACE SPRAY	DELTAMETHRIN (PYRETHROID) PIPERONYL BUTOXIDE (SYNERGIST)	The exterior and interior surface of structures such as dairies, piggeries and poultry houses where flies are known to rest. Please note that surfaces exposed to rain or cleaning will require re-treatment.	35g TO 5lt WATER - 100m² REPEAT EVERY 4 WEEKS
NIMBUS		RTU SPACE SPRAY	ADULT CONTROL - SPACE SPRAY TREATMENT	PYRETHRUM PIPERONYL BUTOXIDE (SYNERGIST)	To be applied through an Ultra Low Volume (ULV), thermal or misting machine at a dosage rate of 400ml per 1000m <sup>3</sup>	400ml PER 1000m <sup>3</sup> APPLY WITH THERMAL MISTING MACHINE
METERED AEROSOL ECOMATIC AND SYNMATIC		AEROSOL	ADULT CONTROL - SPACE SPRAY	PYRETHRUM PIPERONYL BUTOXIDE (SYNERGIST)	In dairies, calves pens, piggeries, stables and other animal houses. For use in and around the home.	DISPENSE WITH WEFCO METERED AEROSOL DISPENSER  A METERED DOSE WILL PROVIDE EFFECTIVE COVER FOR 180m² OF AIR SPACE WHEN DISPENSED EVERY 15 MINUTES. EACH AEROSOL WILL LAST 60 DAYS UNDER 12 HOUR
FLY-TAC	FLY-TAG	TRAP	ADULT CONTROL	NO ACTIVE JUST EXTREMELY STICKY	In dairies, calves pens, piggeries, stables and other animal houses. For use in and around the home.	IN SENSITIVE AREAS WHERE INSECTICIDE USAGE IS FORBIDDEN FLY-TAC PROVIDES A COST EFFECTIVE ALTERNATIVE.



## **DSV 00 425**







SA National Champion

Exceptional Power Bull

**DSV-RED 00 425** 

Sire: Cherry-Red Ruby 409

Dam: DSV-RED 308 97

	BW	WW	YW	FW	Milk	MCW	CW	SS	RG	WW	F
EBV	+0.9	+13	+22	+26	+5	+24	+18	+0.7	+94	+70	+74
ACC	81%	83%	81%	79%	60%	68%	66%	51%			
Breed	+1.4	+14	+22	+27	+3	+28	+16	+0.6	+87	+59	+61



#### CVA 97 118





Sire: Chrisel CVA 94 33

Chrisel CVA 97 118

Dam: Chrisel Century Lady

#### \* Add Substance and Capacity \*Rare Genetics

	BW	ww	YW	FW	Milk	MCW	CW	SS	RG	ww	F
EBV	+1.2	+16	+34	+32	+4	+9	+20	+1.6	+117	+86	+106
ACC	96%	94%	93%	93%	89%	89%	85%	83%			
Breed	+1.4	+14	+22	+27	+3	+28	+16	+0.6	+87	+59	+61

#### JZH 03 5





Sire: Chrisel CVA 97 118

Jamanle JZH 03 5

Dam: Cabana Miss Sambok

#### \* Like Farther Like Son, but Improvement through Capacity and Strength

	BW	ww	YW	FW	Milk	MCW	CW	SS	RG	ww	F
EBV	+2.3	+20	+38	+42	+3	+29	+25	+1.2	+132	+77	+101
ACC	78%	75%	75%	74%	55%	65%	63%	67%			
Breed	+1.4	+14	+22	+27	+3	+28	+16	+0.6	+87	+59	+61

JD MARAIS

jd@gedairy.co.za

076 638 8609









# Swartland Skou 2018 Moorreesburg

Baie geluk aan alle Telers en Deelnemers!



## LIONEL'S

ETERINARY SUPPLIES































# **Sales Team**

Name	Cell Number	E-mail Address	Area
Andreas du Toit	082 641 8944	andreasdtl@gmail.com	Karoo
BH Botha	079 885 7421	bh@xseed.co.za	Northern KZN
Byron Ott	072 668 0860	byron.ott@lionelsvet.co.za	Western Cape / Swartland
CC Terblanche	076 896 8748	cc.terblanche@lionelsvet.co.za	Southern Cape
Debbie Elliott	082 376 3702	dmelliott@netactive.co.za	Midlands
Deon de Jager	064 625 8320	deondj@lionelsvet.co.za	Free State
Derick Coetzee	082 373 6068	djcoetzee@telkomsa.net	Southern Cape
Gavin Dargie	072 246 7750	gavdargie1@gmail.com	East-London
GJ du Preez	082 042 3303	dupreez.gj@gmail.com	Eastern Cape
Herman Bezuidenhout	082 784 5275	herman@lionelsvet.co.za	Northern District
Jaco Swanepoel	072 658 2960	jacoswanepoel@outlook.com	North West
Jan Joubert	073 303 6786	jan_safp@yahoo.com	North West
Janique Fourie	083 603 3323	janique@lionelsvet.co.za	Eastern Cape
Jannic Zietsman	082 923 6382	jzietsman@lionelsvet.co.za	Eastern Cape
JD Marais	076 638 8609	jd@gedairy.co.za	Sales Manager Genetics Division - GE Dairies
Jenni Soutar	082 783 8513	jennisoutar@gmail.com	Northern KZN
Johan Botes	073 925 2382	johan@lionelsvet.co.za	National – Swine Advisor
Johan du Plessis	072 806 7266	johandup@lionelsvet.co.za	Northern Cape
Juan Welman	082 907 7486	juan.welman@vodamail.co.za	Mpumalanga
Karin van der Merwe	082 851 9474	karin.vdm@vodamail.co.za	EG & Underberg
Matthew Elliott	078 552 2400	mpjelliott@hotmail.com	North & South Coast (Pigs)
Neville Brown	084 577 1721	nevillebrown1234@gmail.com	EG & Underberg
Nico Vorster	082 782 3710	nicosmail@webmail.co.za	Free State
Riaan Momberg	+264 81 124 0288	riaanm@mweb.com.na	Namibia
Sarah March	082 771 1809	sarahmarch@vodamail.co.za	Midlands South
Shaun Bovey	074 586 4199	shaun@lionelsvet.co.za	Eastern Cape
Warnich Biersteker	082 414 7293	warnich@lionelsvet.co.za	Poultry Advisor
Werner van Rooyen	083 462 0474	wvrvers@mweb.co.za	Southern Cape

## **Meet the Team!**



**1ste ry (vInr):** Riaan Momberg; Juan Welman; Shaun Bovey; Janique Fourie; Johan Botes; Jannic Zietsman

**2de ry (vInr):** Byron Ott; Deon de Jager; Herman Bezuidenhout; Werner van Rooyen; Jan Joubert

3de ry (vInr): JD Marais; Johan du Plessis; Gavin Dargie; GJ du Preez

4de ry (vlnr): Andreas du Toit; CC Terblanche; Derick Coetzee; Warnich Biersteker

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