

MPO NATIONAL Congress SURVIVING AND PERSEVERING DURING DROUGHT

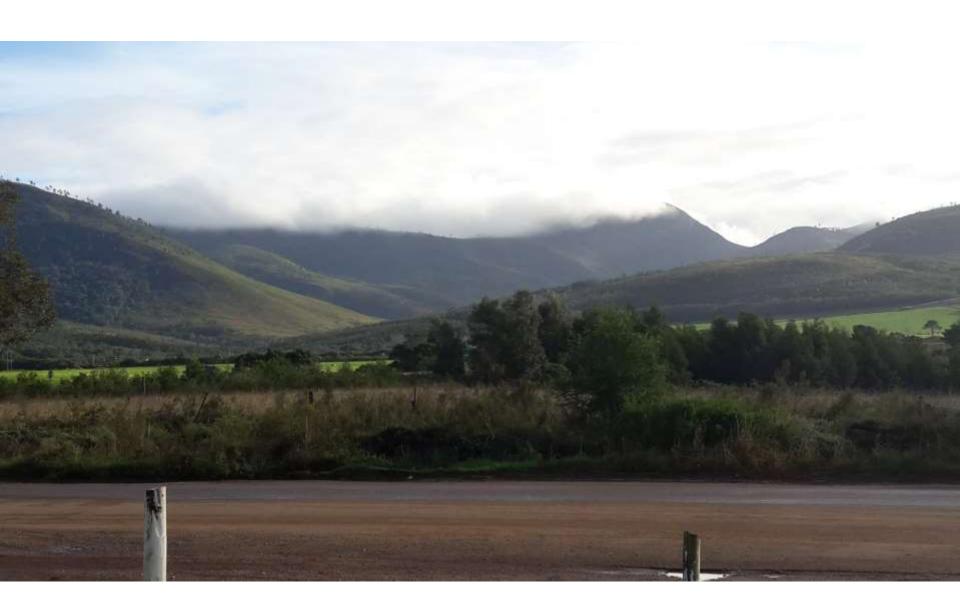


Living in the Garden of Eden



- Rain-like Irrigation
- Pastures
- Fertile soil
- Intermediate temperatures
- Market accessibility
- Sosio-Economic Climate

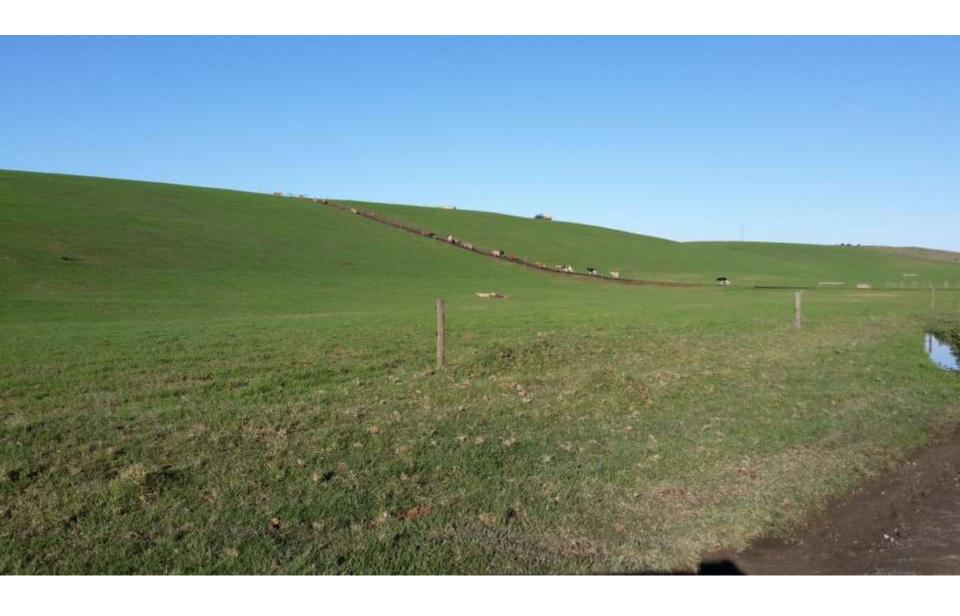
BEAUTIFUL SURROUNDINGS





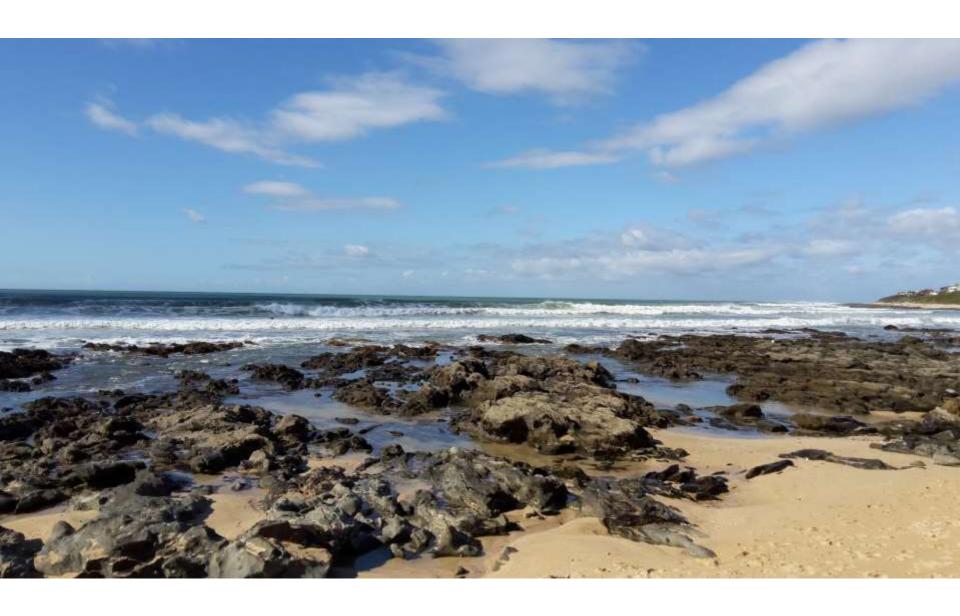












Living in the Garden Of Eden



- THE SNAKE
- Drought
- Fire
- Weeds
- Insects
- Market accessibility
- Sosio-Economic Climate



- Plan
- Risk analysis
- Hedging
- Feed storage





Hedging

Advantages

- Energy Maize / Wheat /By-products
- Protein Soya / Cotton
- Roughage Hay
- Eliminate uncertainty
- Fix the price
- Nutritional effects
- Simplify Nutritionists job
- Market / Economic climate



• Pitfalls

- Stability of currency
- Movement of price
- Ethical Behaviour / Stability of Company
- On-farm situation
- Market / Economic climate



- Roughage
- Pasture

- Grass / Legume
- Quality / fertiliser
- Digestion
- Fiber effectivity / matt



- Roughage
- Silage

- Hay
- Lucerne

- Fermentation
- Moisture
- Quality / Cut / Baling Process
- Quality / Cut / Baling process
- Where produced







Quality









- Roughage -Comparison
- Silage

Hay

Lucerne

- Preserve Quality
- Intermediate price
- Milking potential good
- Quality loss / nutritional value
- What do you procure
- Costs
- Milking Potential depends on hay
- Nutritional analysis / value equal to Pasture?
- Storage
- Expensive
- Milking Potential Excellent

Average and variation of different nutritional elements in lucerne hay in South Africa

Chemical Analysis	Minimum	Average	Maximum
Dry matter %	90.7	93.6	96.4
Crude Protein %	12.3	18.8	25.4
Ash %	3.6	10.5	17.5
Organic matter %	82.5	89.5	96.5
Acid Detergent Fibre %	21.9	39.9	58.1
Neutral Detergent Fibre %	26.7	48.3	69.8
Non structural carbohydrates %	4.2	19.1	37.1
Fat %	0.1	1.7	3.3
Metabolisable Protein g/kg	96.8	137.8	178.7
In vitro Organic Matter %	56.7	67.6	78.5
Metabolisable Energy MJ/kg/DM	7.8	10.7	13.5

Nutrition



Please consult with your:

Nutritionist
Feed mill Representative
Procurement Specialist
Co-operative

The team that is responsible for nutritional welfare of the dairy and your financial sustainability!



