

**Welcome**

**MOHAFEEK**



# ROUTE MAP

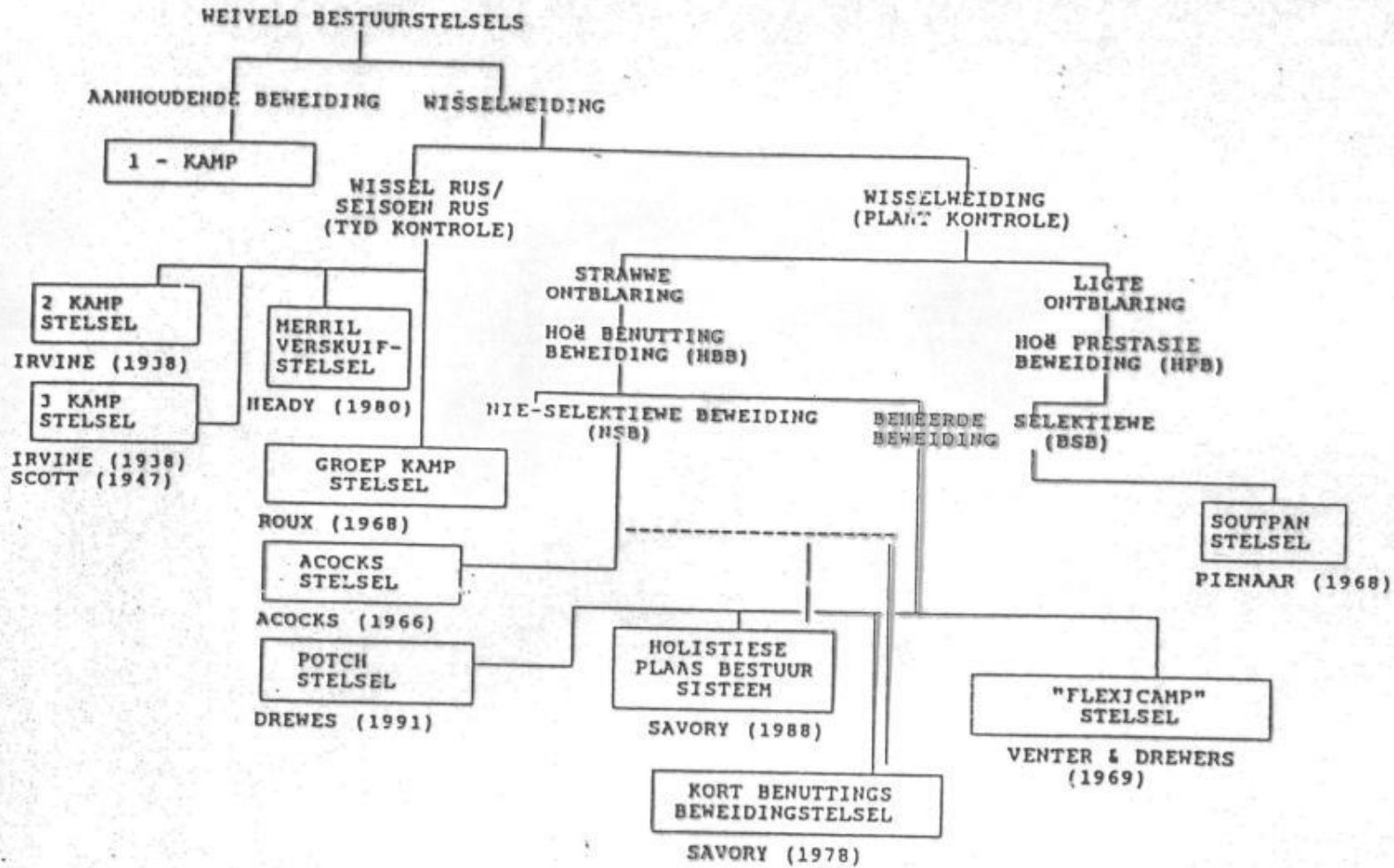


## PRINCIPALS OF :

- NATURAL VELDT
- CULTIVATED PASTURE

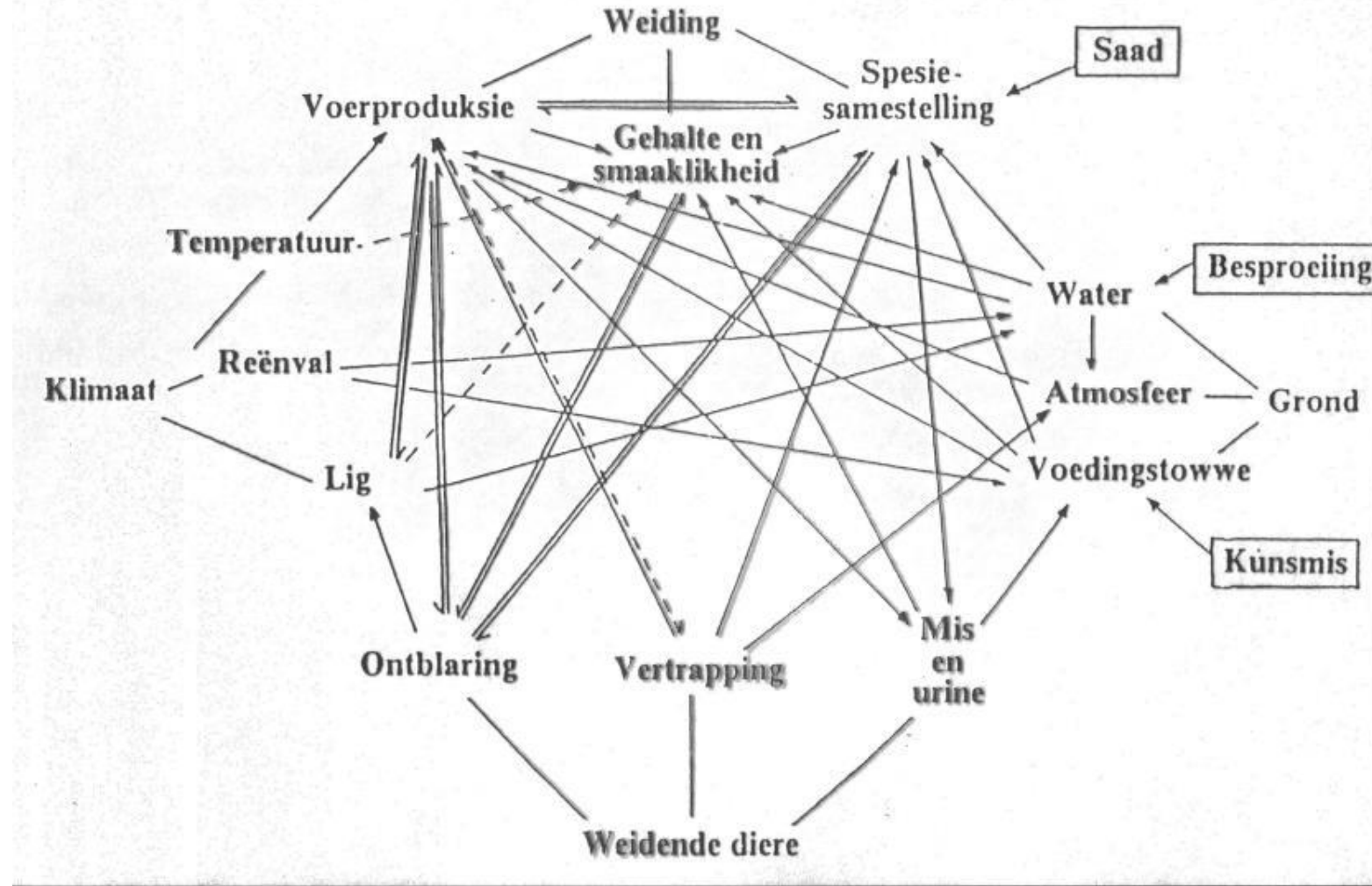
Figuur 2 : Weiveldbestuurstelsels in Suid-Afrika

# Grazing systems in South Africa - Tainton

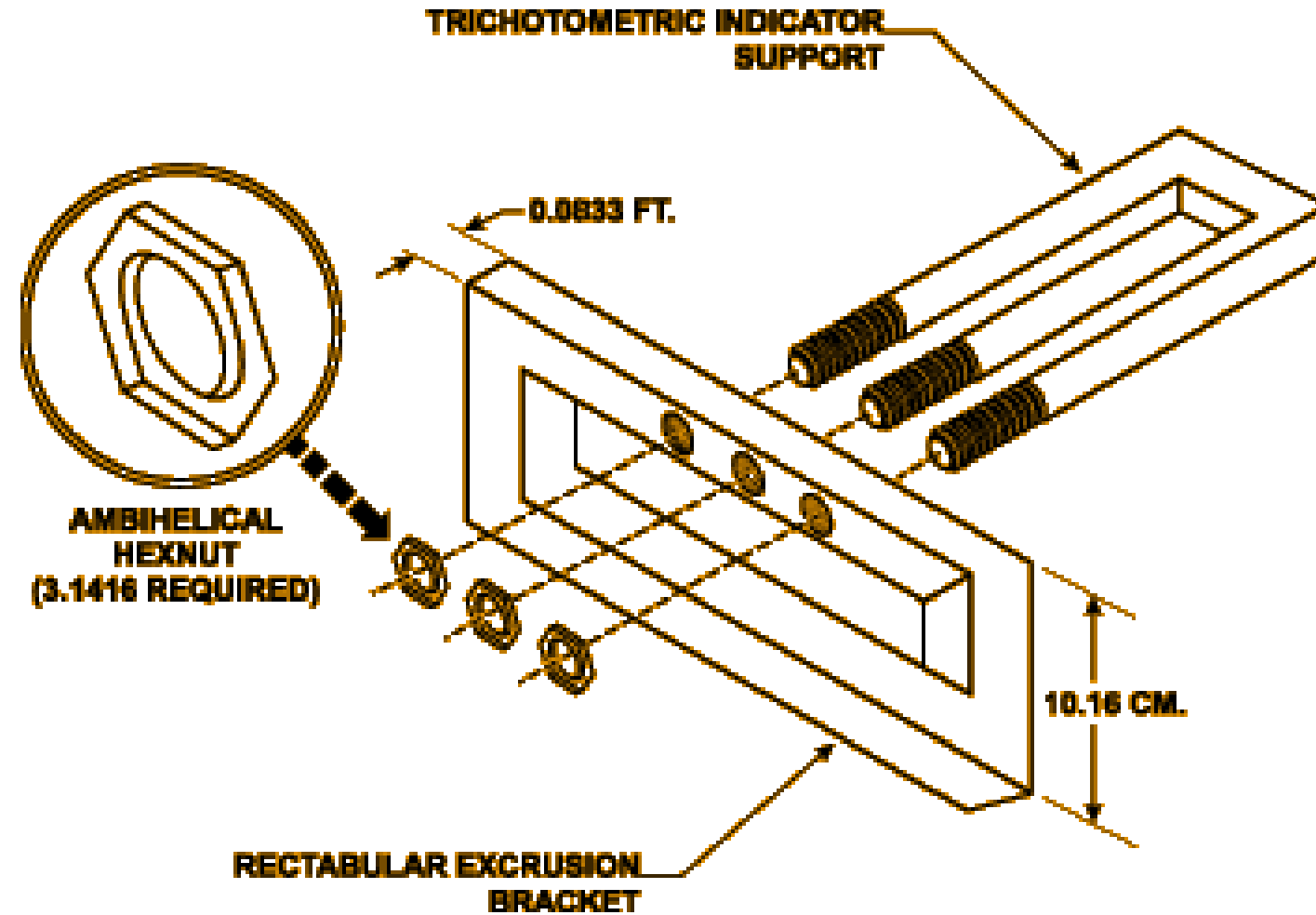


Figuur 1 : Die Weidingsekosisteem

Eco system interaction



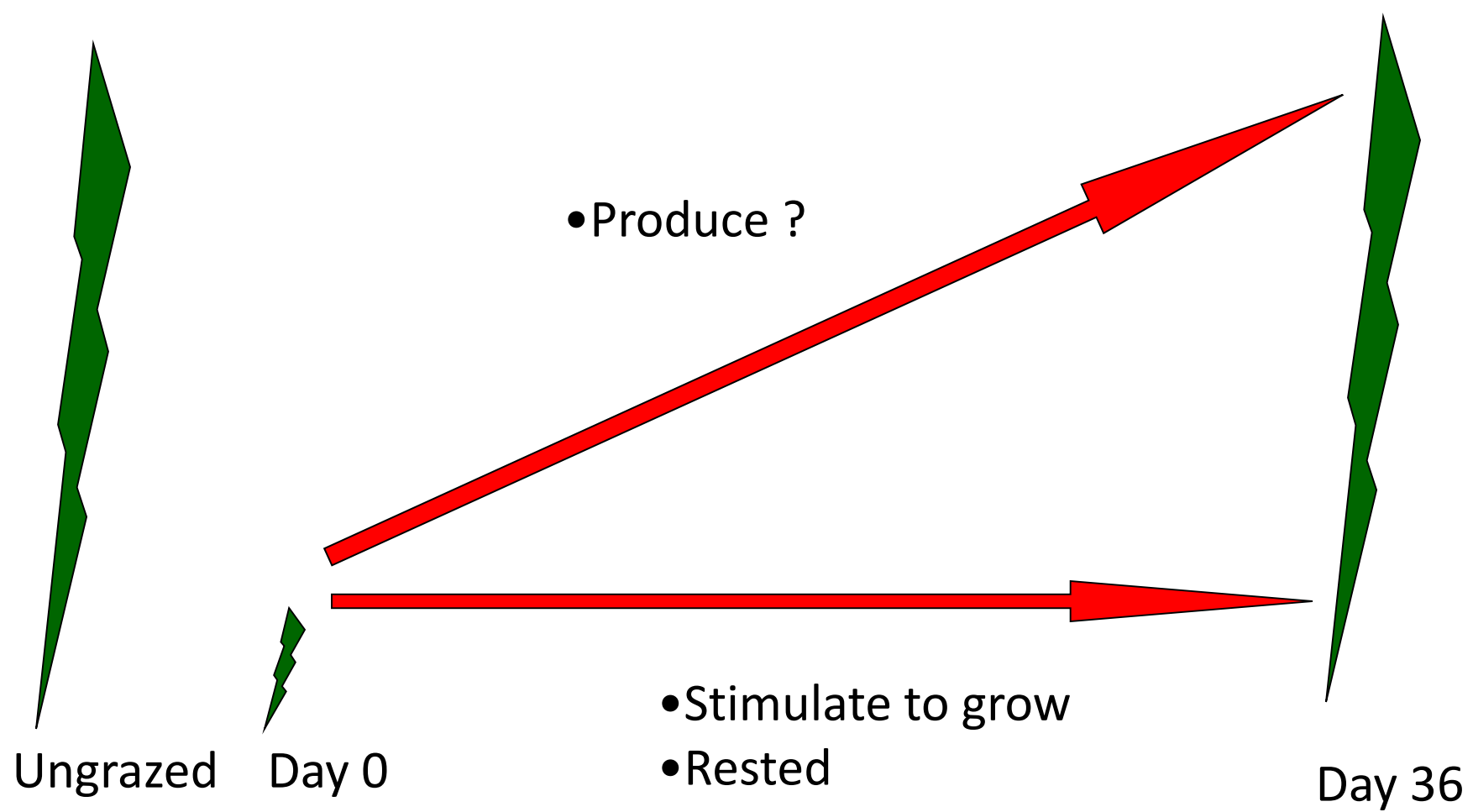
# Diagram for effective veldt management



## Animal production system requirements for fodder management



- + *Enough dry matter for winter - critical*
- + *Early warning system for shortages*
- + *Sustain reproduction*
- + *Simple*
- + *Sustainable*

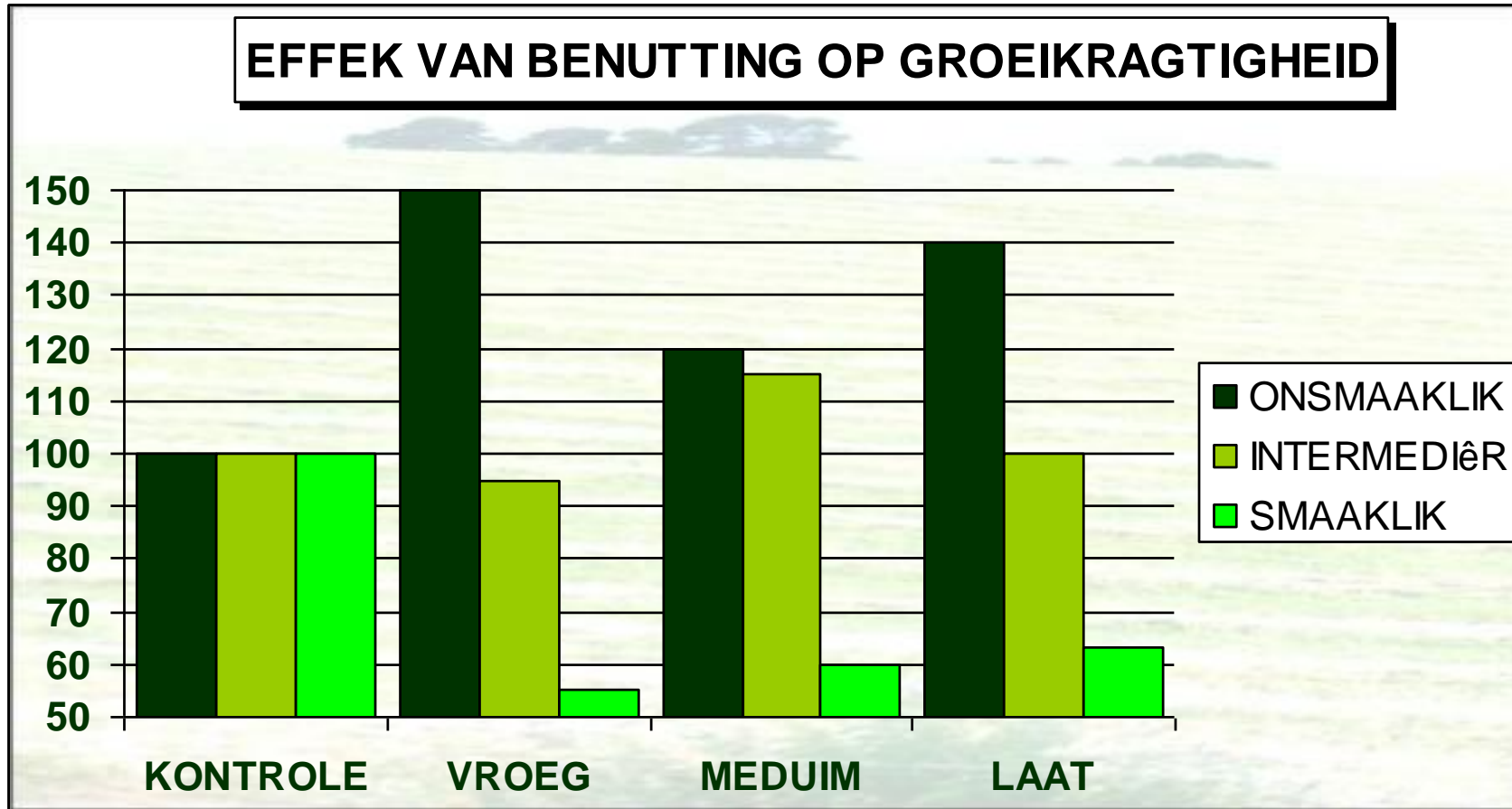






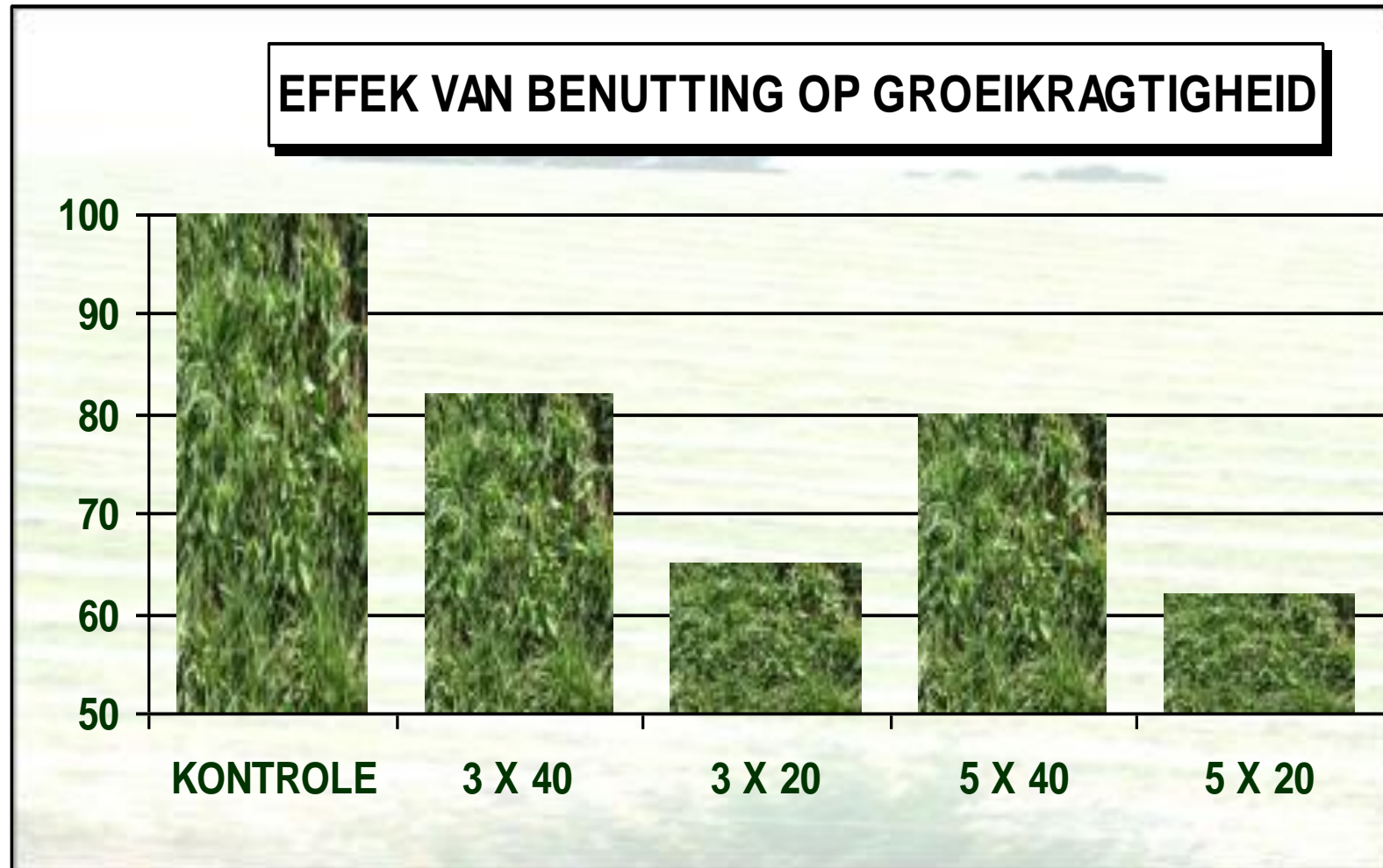


# Effect of time of utilization on vigor



Control Early Meduim Late

# Effect of intensity of utilization on vigor





# Animal performance = Dry matter intake X quality



Cut	Protein	In Vitro	Intake (gram/day)	ADG (g/dag)
Leaf	15.7	55.2	1258	150
Stem	13.1	52.2	1047	91
Flower	11.3	47.9	979	53

Eragrostis, fertilized, hay fed to hammels

Rethman

- Short veldt = good animal performance

• Summer grazing is detrimental for veldt vigor

• Good animal and veldt production not attainable within one season

• Utilized Veldt rested for the summer season recover their vigor back



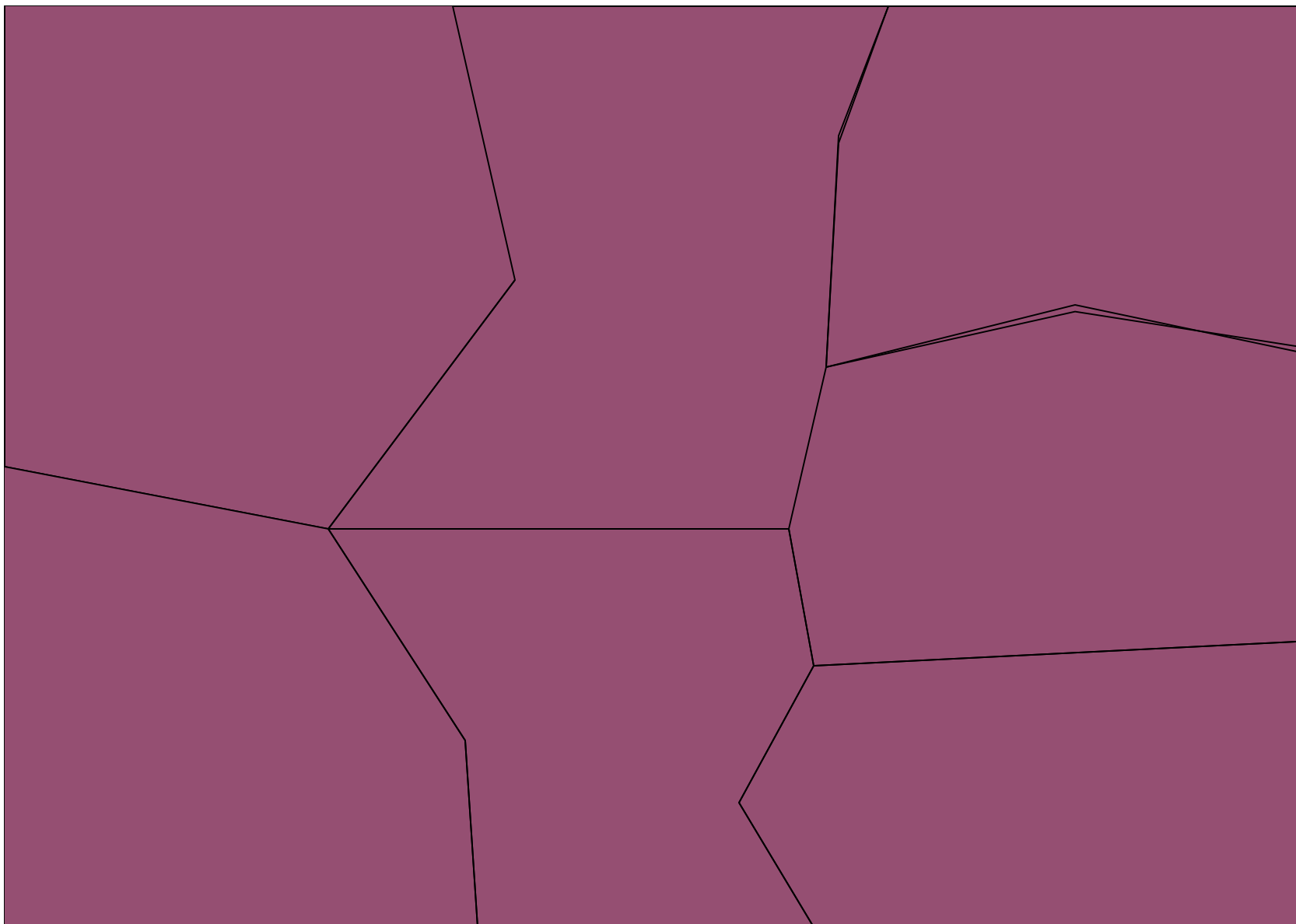


# Effect of rest



Rested previous season

Grazed previous season

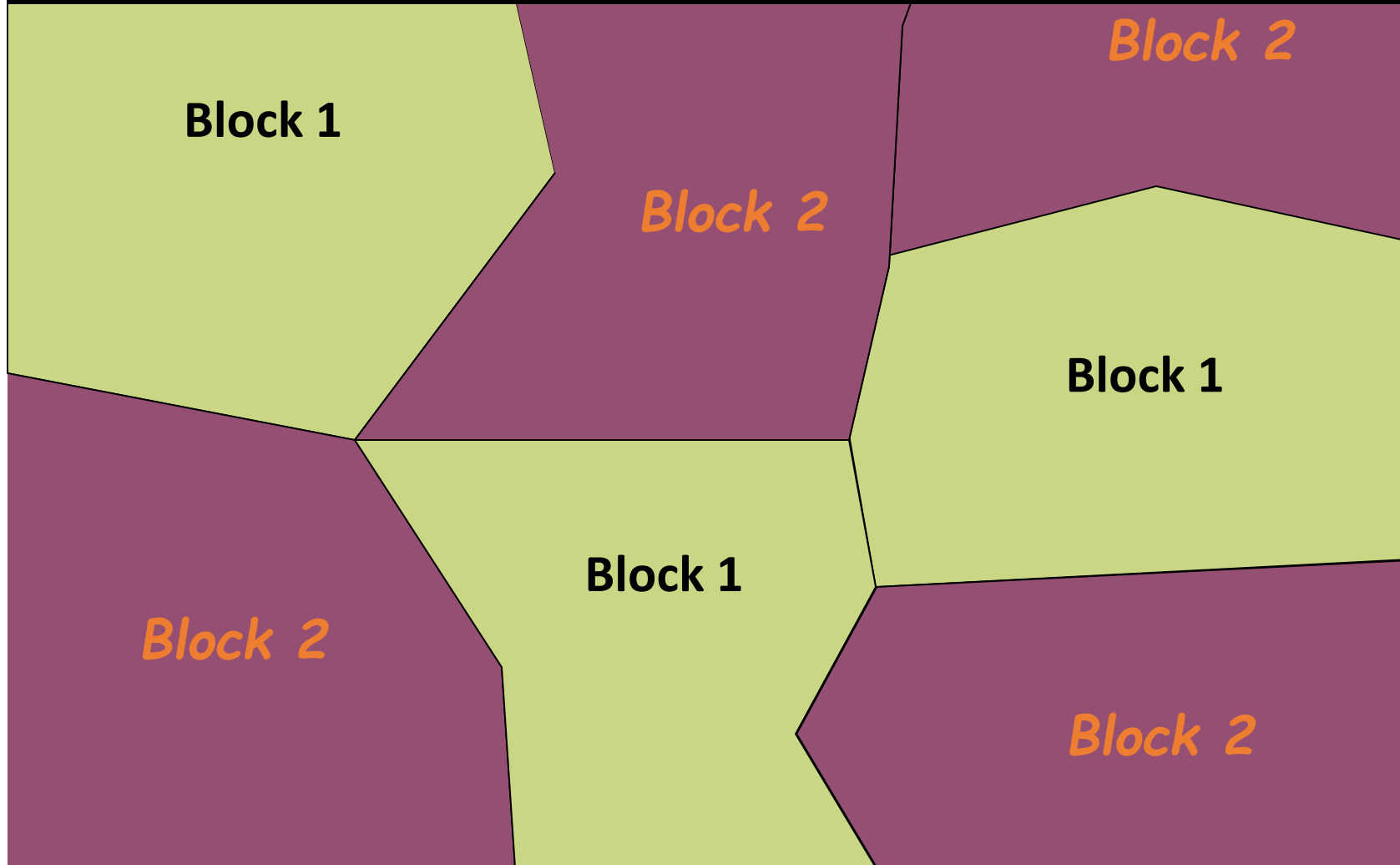


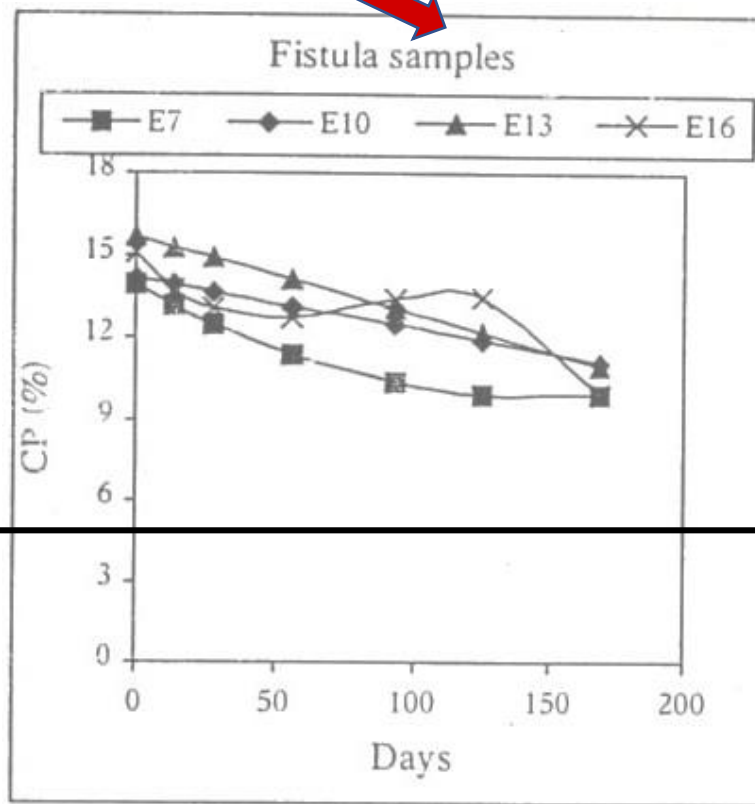
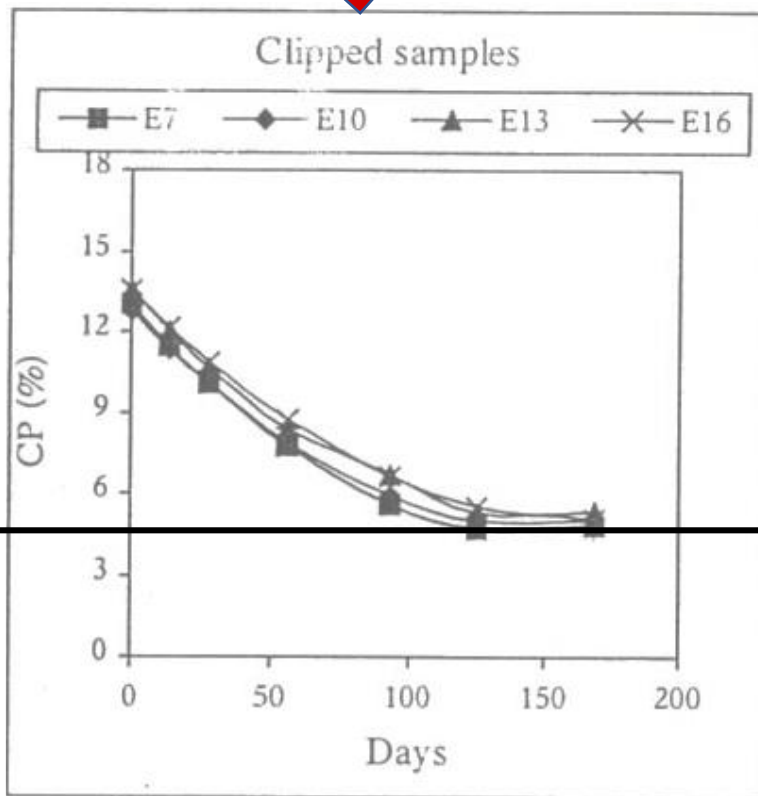
Current Farm utilisation



# Suggested Farm utilisation – animal numbers stay the same

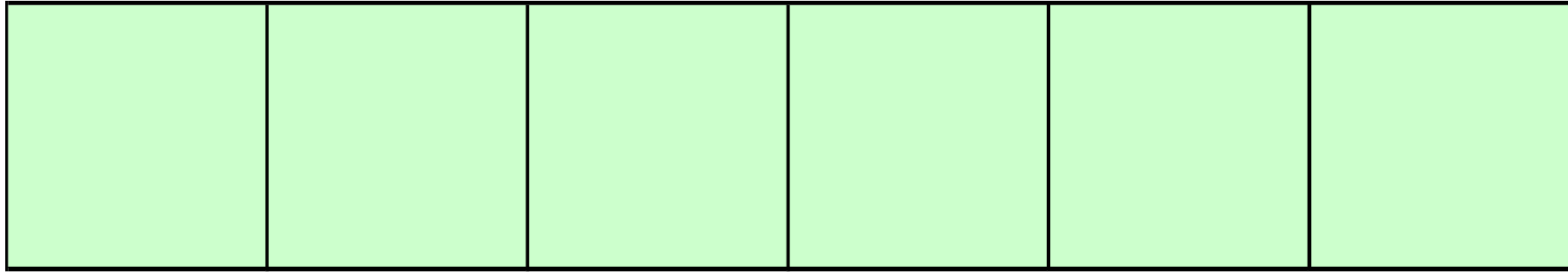
Change over between blocks in Autumn





Fistulated weathers, cattle smaller but same effect





How to get into the system of rest ?







- Long periods of summer rest
- Firm utilization for best animal performance
- Natural resource composition / production system determine exact strategy



# Cultivated pasture



- Production
- Fertilizer
- Utilization

Dry matter production

=

Moisture

+

Fertilizer

+

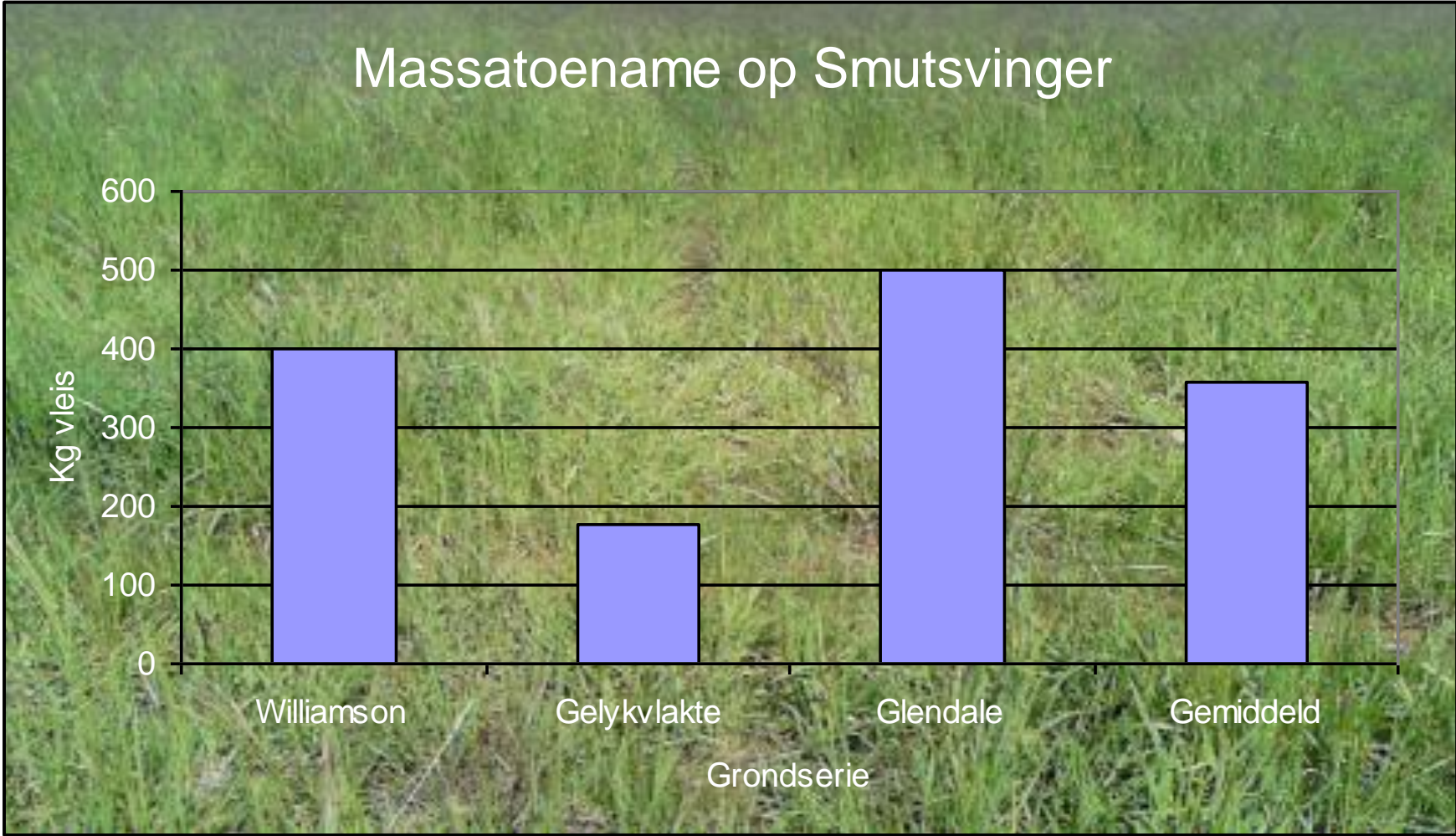
Soil

+

Plant genetics



# Mass gain on Digitaria





## Cultivated pasture



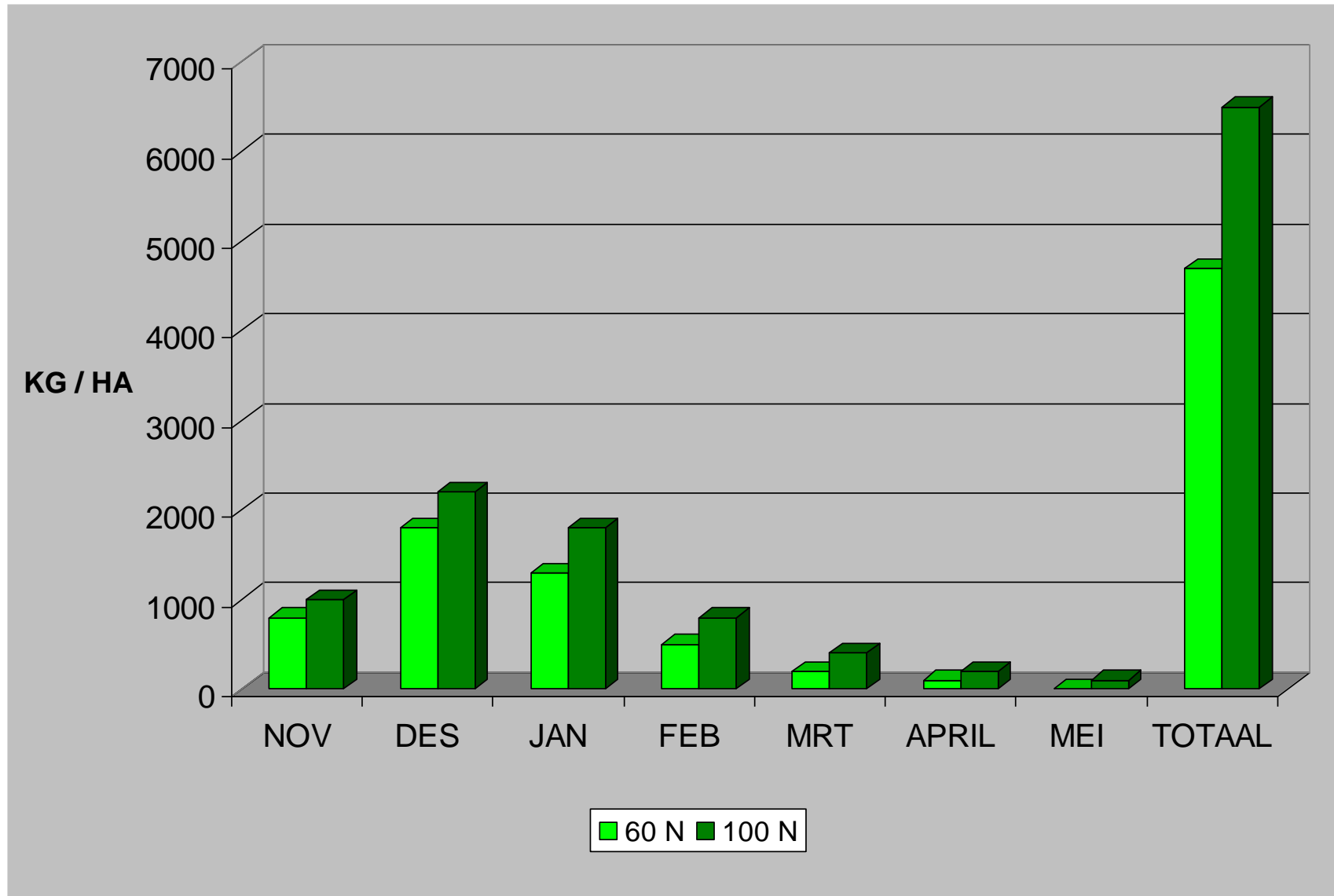
10 mm rain = 100 kg Dm

Cultivated pasture (dry land) - 400 kg meat / ha

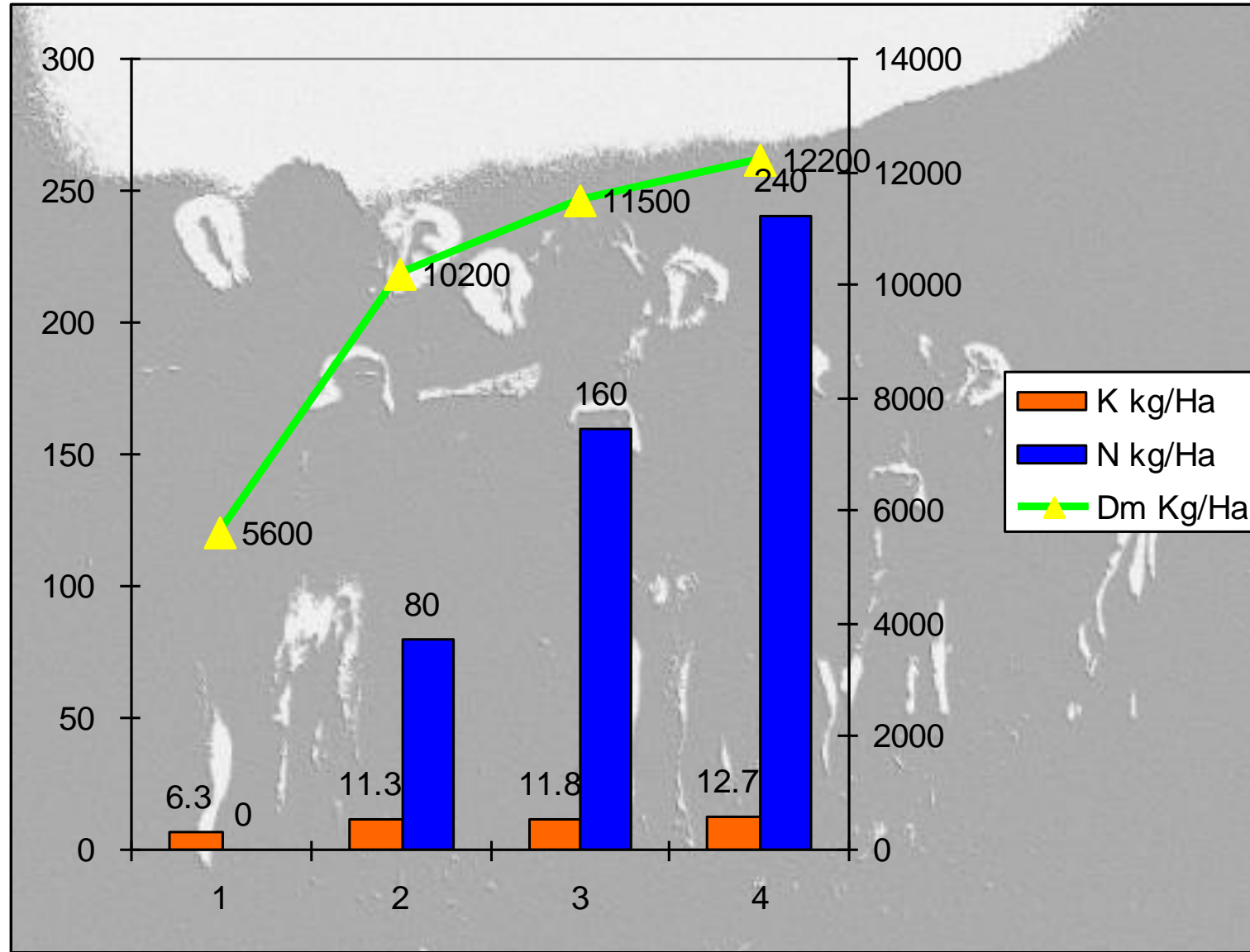
Cultivated pasture (Irrigation) - 1200 kg meat / ha

**\*meat = live animal weight**

# Fertilization



# Fertilization

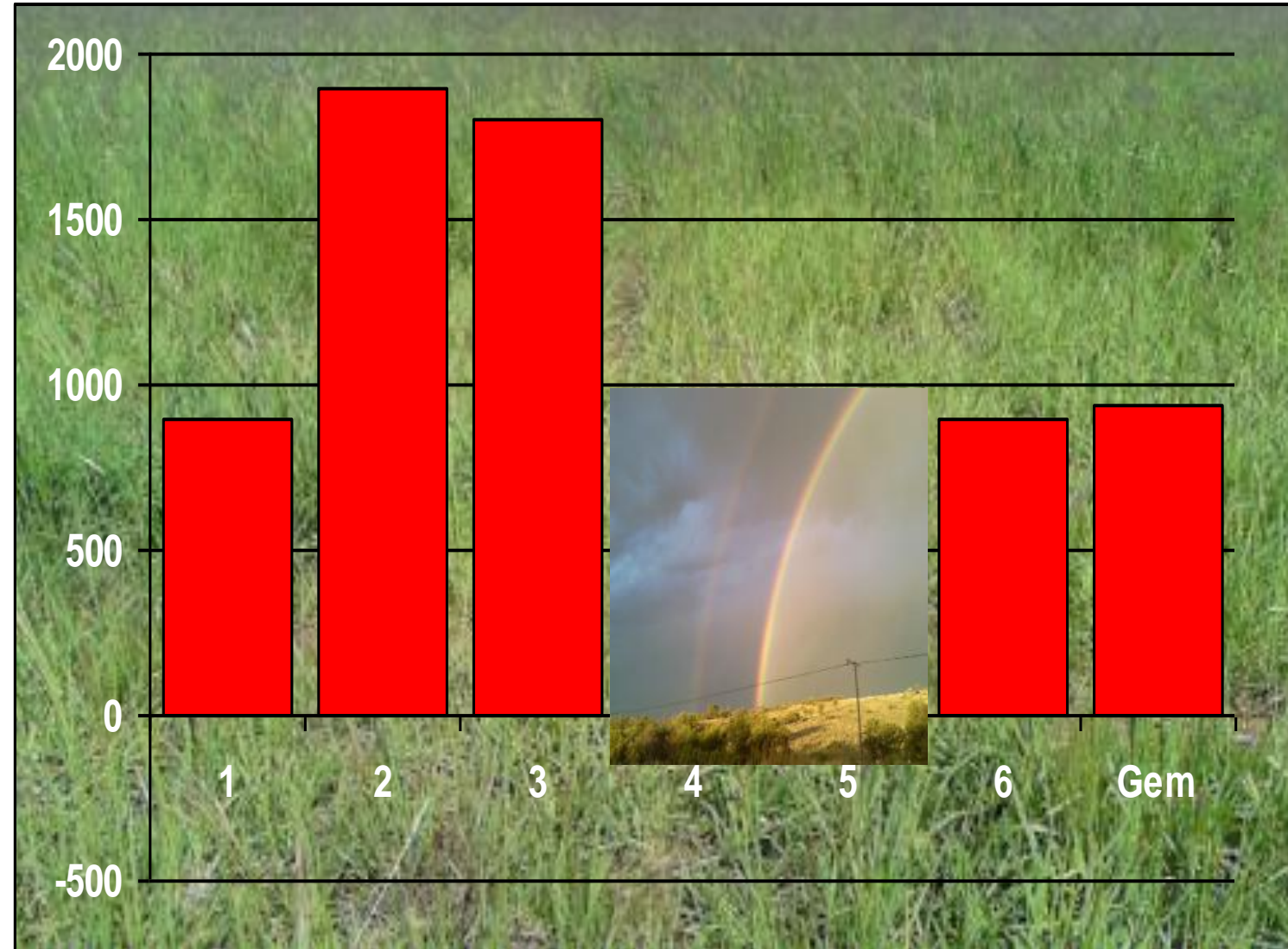


Effect of P





# Animal performance on Digitaria





Farm	HA
Natural veldt	800
Cash crops	200

## Reproductive herd & Fertilizer



**LEAVE CASHCROP  
LANDS, COWHERD**



Living Index  
100 %

**ESTABLISH  
PASTURE, COWHERD**



+ 3.2 %

**ESTABLISH PASTURE, 60 N  
FERTILIZE, COWHERD**



- 4.4 %

**ESTABLISH PASTURE, 1/3  
FERTILIZE, COWHERD**



+ 6.1 %

**ESTABLISH PASTURE, 60 N FERTILIZE,  
BACKGROUND, VELDT - COWHERD**



+ 49.7 %

**ESTABLISH PASTURE, 60 N FERTILIZE,  
COWHERD - 1000 Ha**



- 113 %

## SUMMERY



- Sustainable veldt management = Summer season rest
- Prime animal performance = Short grass
- Cultivated pasture = Value adding.
- Is there greener grass ?



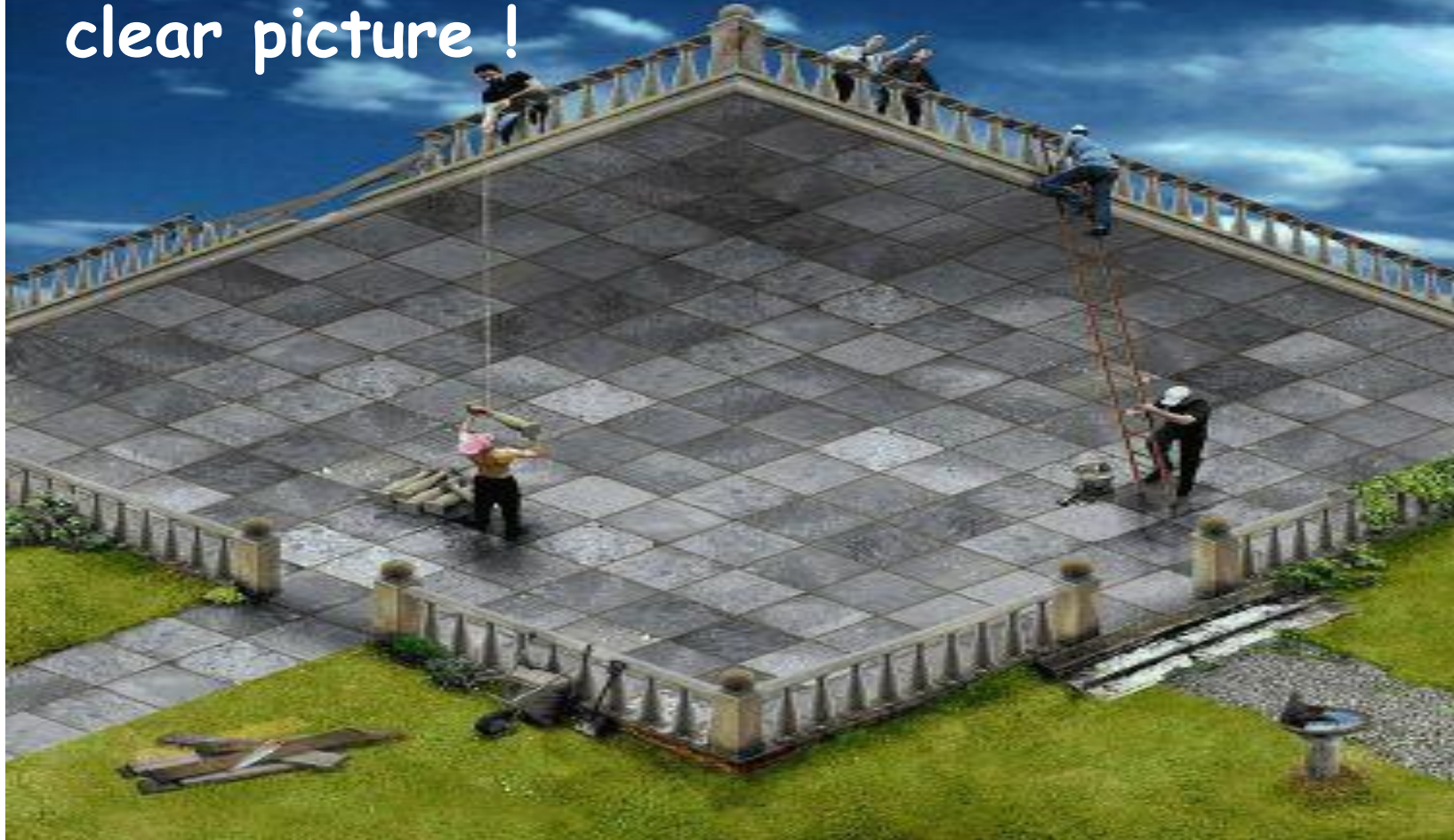








Now you have a  
clear picture !



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**MOLATEK**  
Partnering performance