

# Nutrition of dairy cattle in Flanders

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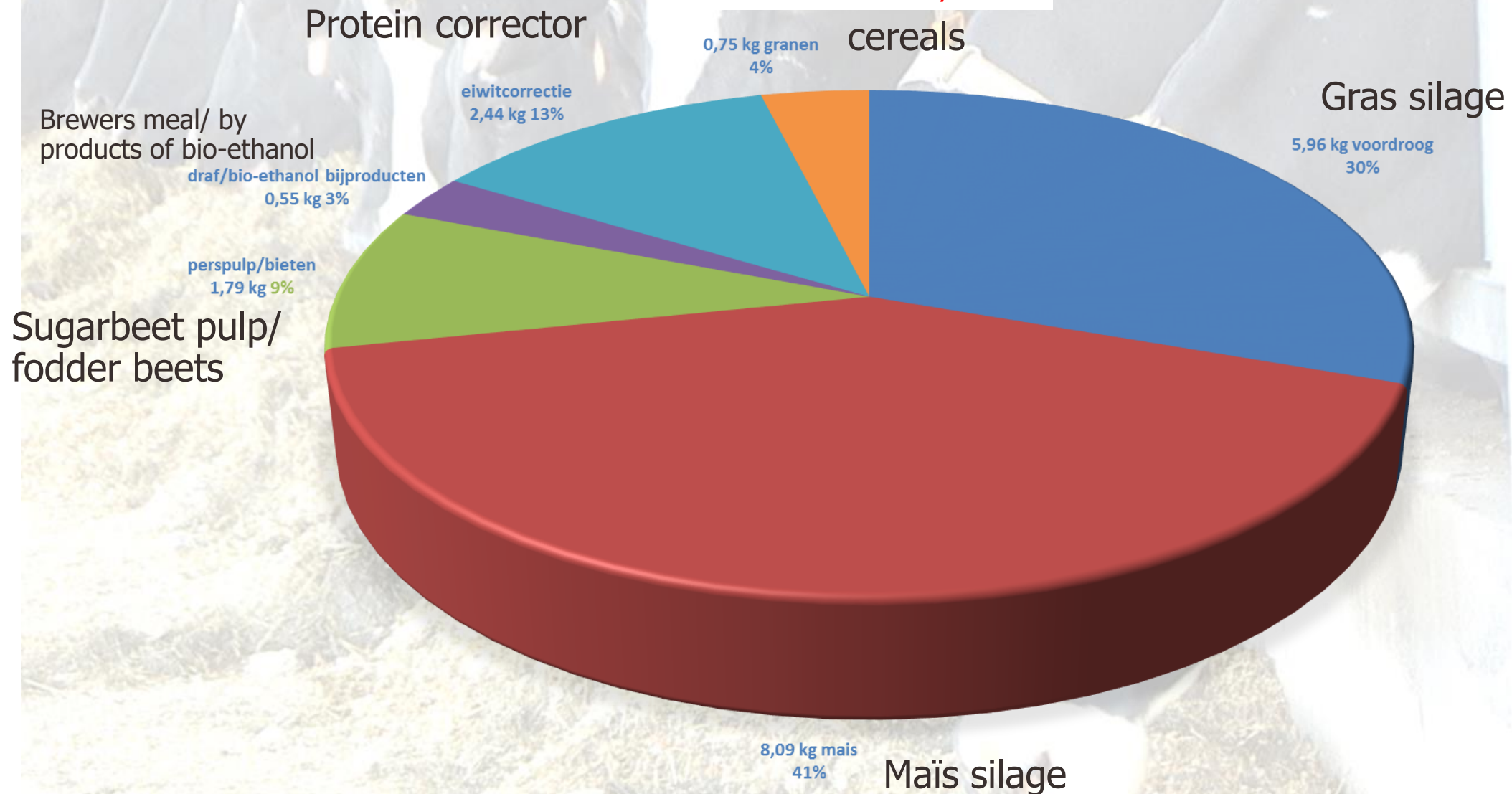
Dairyfarm of Dirk & Griet Vandecandelaere  
Wervik 14 march 2023

# Average dairy ration in Flanders



## Winter ration

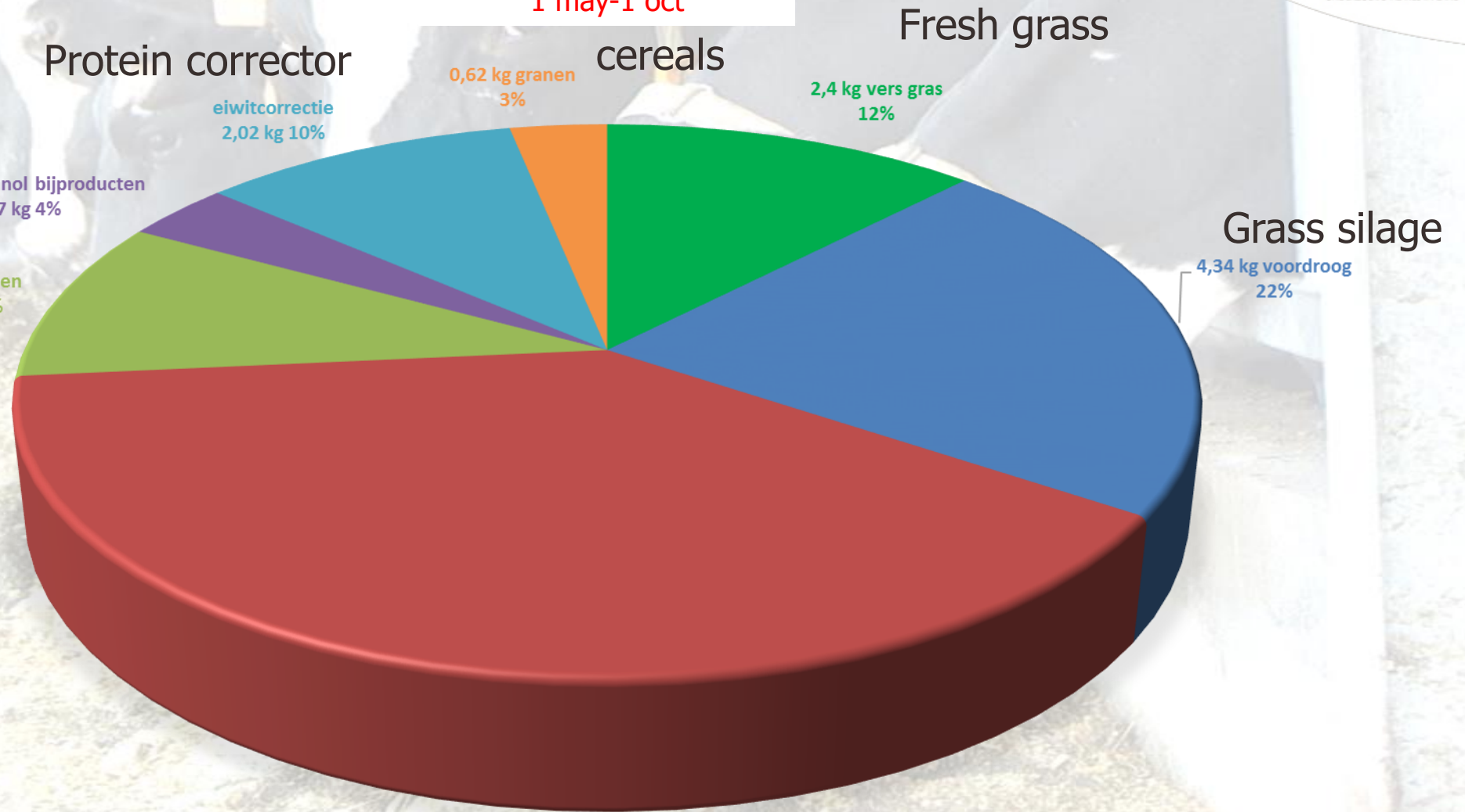
1 oct-1 may





**Summer ration**

1 may-1 oct



Brewers meal/ by products of bio-ethanol

draf/bio-ethanol bijproducten  
0,67 kg 4%

persulp/bieten  
1,86 kg 10%

Sugarbeet pulp/  
fodder beets

Protein corrector

eiwitcorrectie  
2,02 kg 10%

0,62 kg granen  
3%

cereals

Fresh grass

2,4 kg vers gras  
12%

Grass silage

4,34 kg voordroog  
22%

Maïs silage

7,62 kg maïs  
39%

VEM/ kg DS	RE/ kg DS	DVE/ kg DS	OEB
951	16,04	89	198

# RATION CALCULATION

## VEM

Energy: value of g standard barley

## DVE

proteine digestible in the gut

**OEB: + (± +200 à 300 g of total ration)**

in rumen difference between soluble proteïne – soluble energy

## BALANCE

VEM milk (+/- 442/kg) = DVE milk (+/- 52/kg)

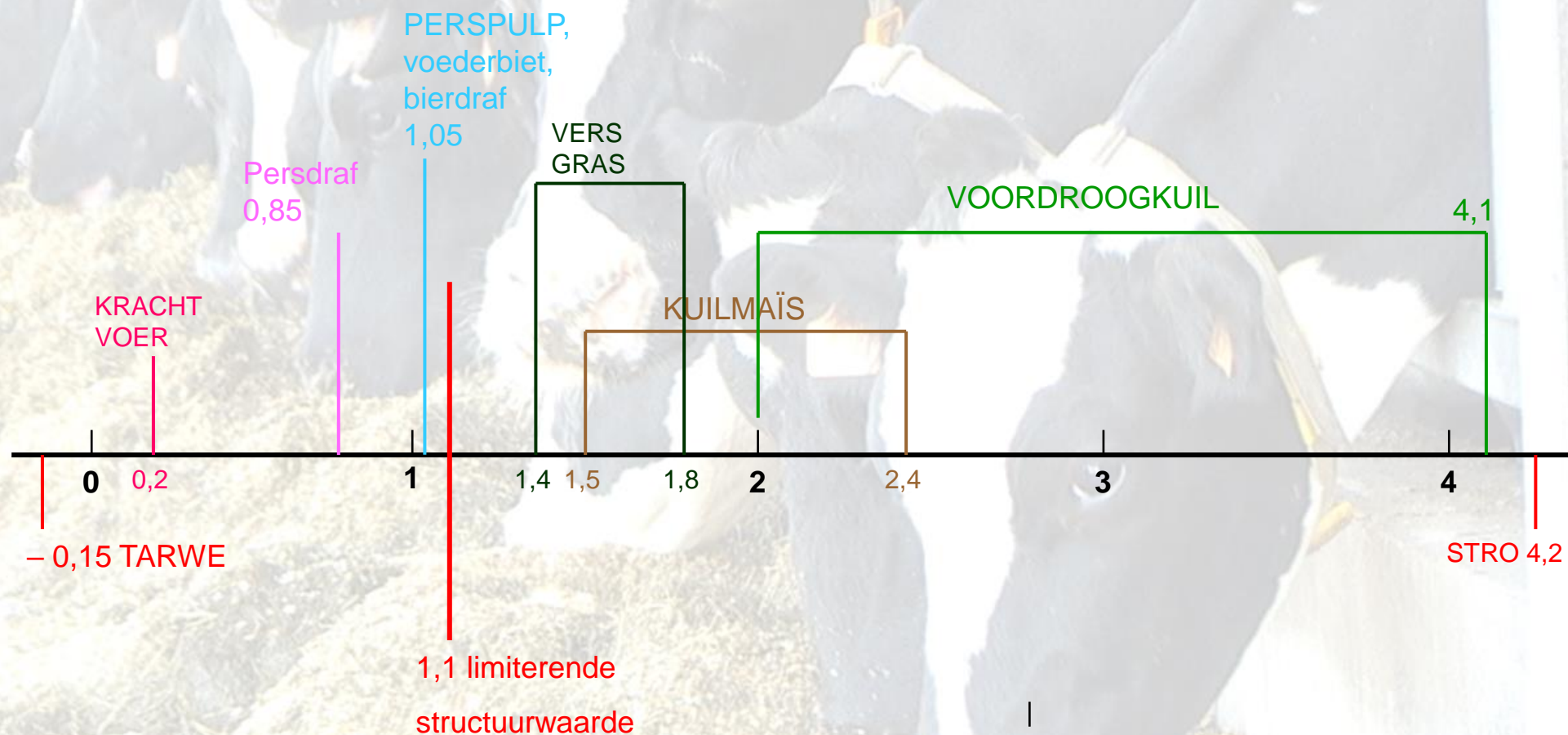
## SW (Structure value)

± 1,1 voor koeien met max Krachtvoer

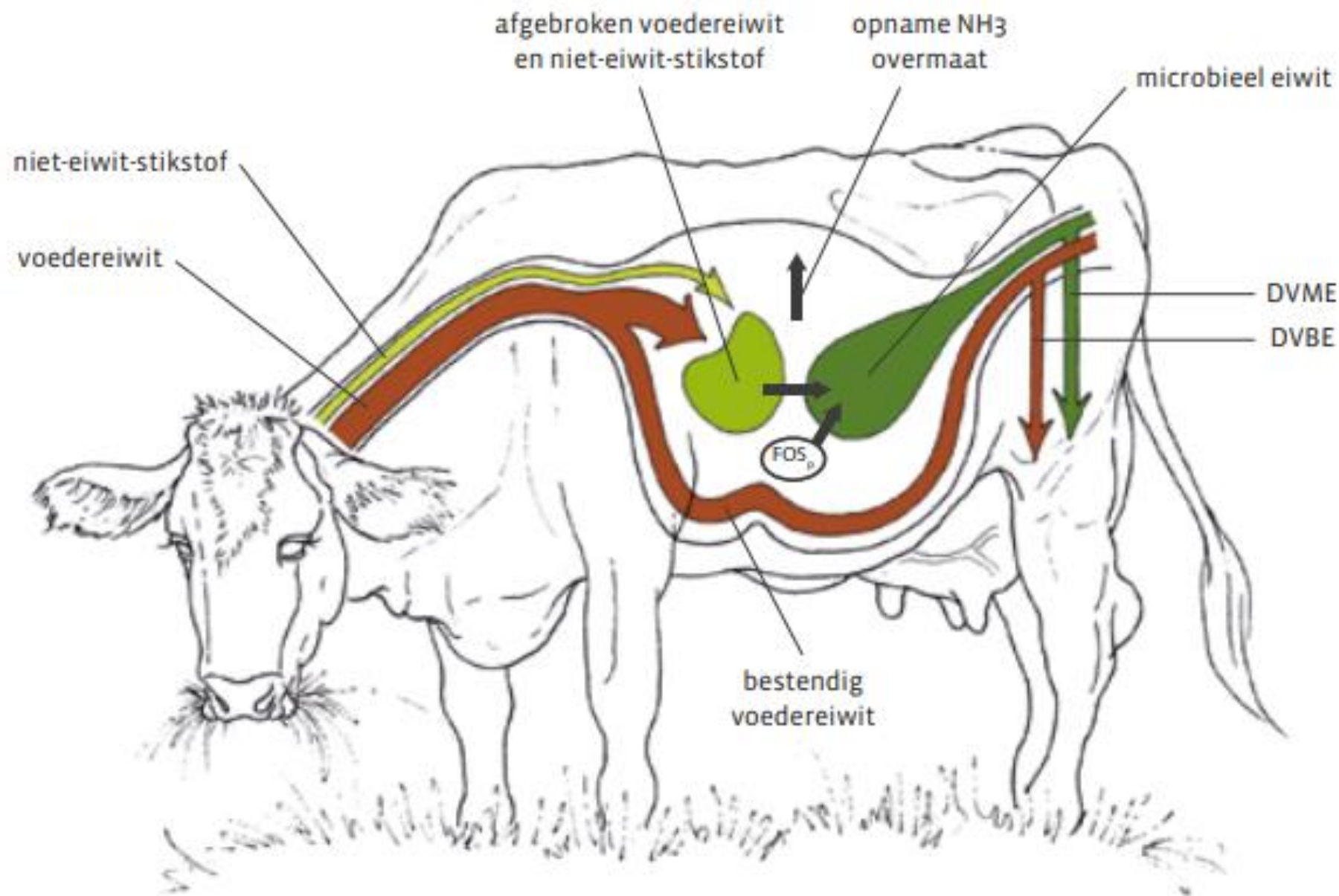
± 1,55 voor basis rantsoen in evenwicht



# Structuurwaarde



Figuur 1.4 Eiwitvertering bij melkvee





# Ration on farm

- 10,4 kg DS maïs à 180 €/t DS = 1,872 € (33,1%)
- 3,3 kg DS VDK à 210 €/t DS = 0,693 € (12,3%)
- 2,7 kg DS perspulp à 240 €/t DS = 0,648 € (11,5%)
- 2,1 kg DS protistar à 360 €/t DS = 0,756 € (13,4%)
- 0,75 kg palm kernel à 259€/ton = 0,194 € (3,4%)
- 0,75 kg cornmeal à 338 €/ton = 0,254 € (4,5%)
- 0,2 kg oats à 350€/ton = 0,07 € (1,2%)
- 1,75 kg sojaschroot à 666 €/t = 1,166 € (20,6%)
  
- Total cost ration at feed gate 5,653 €/cow/day



# Uitkuilen





# Uitkuilen









# Maïs silage (/kg DS)

- DS **38,5%**
- VEM: **947**
- TRE: **9 %**
- DVE: **52**
- OEB: **-25**
- FOS: **496**
- RC: **158**
- SW: **1,88**
- starch: **312**



# Grass silage (/kg DS)

- DS 44,5%
- VEM: 919
- TRE: 17,9 %
- DVE: 75
- OEB: 45
- FOS: 555
- RC: 258
- SW: 3,025
- sugar: 60

# Gras silage with 920 VEM & 18% crude proteine (1<sup>e</sup> cut)

- Fertilisation
  - 26/2/'22      35 ton cattle slurry
  - 24/2/'22      100 kg Novurea (slow release N 38% & S )
  - 20/3/'22      150 kg AmNitr 27% N
- 21/4 mowing of IR +/- 15 ha (1 cut before maïs)
- 2/5 mowing pastures (ER) +/- 15 ha
  - Mowing & conditioning
  - 2nd day spreading & start to row up
  - 3thd day row up & put in silage
- No additieves, on top by-product of potato industry



# Gras silage with 920 VEM & 18% crude proteïne (2<sup>e</sup> cut)

- Fertilisation
  - 12/5/'22      300 kg AmNitr 27% N
- 1/6 mowing
  - In bales (older grass, dry-stress)
- 30/6 mowing
  - In bales (older grass, dry-stress)
- 3/10 mowing (part)
  - autumn grass → heifers
- 7/10 mowing rest
  - Autumn grass → heifers





DAN

**THANKS FOR THE  
ATTENTION**

