

Innovation Centre  
for Organic Farming

## Nordic network meeting – organic milk production

September 2022



**Promille**afgiftsfonden for landbrug

# The new centre for developing organic agriculture in Denmark



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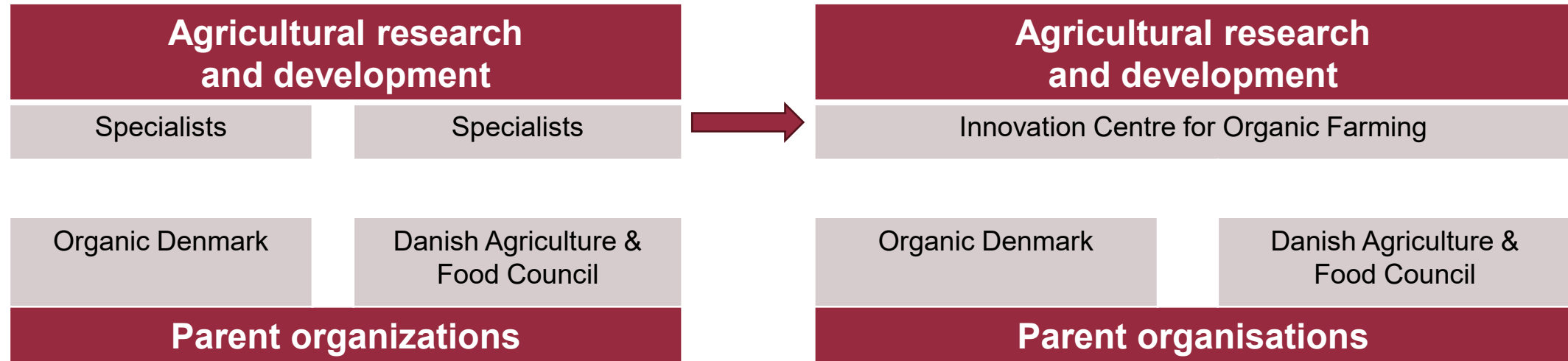
Economy, project innovation

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# Gathering our forces



# Our focus is on

## Biodiversity and recycling

- + Reuse of waste products
- + Soil fertility
- + Development of resilient solutions
- + Functional- and agro-biodiversity

## Crop production

- + Soil fertility, nutrient flow, yield, quality
- + New plant varieties and food crops in a Danish context
- + Food, feed, bio-energy crops

## Innovative agricultural systems

- + Agroforestry
- + Strip-cropping
- + Intercropping agriculture
- + Regenerative agriculture
- + Nature farming
- + Mixed cropping
- + conservation

## Self sufficiency

- + Animal feed production in Denmark
- + Plant production according to food basket

## Succession and transition to organic farming

- + Teaching at agricultural colleges
- + Showcasing young organic farmers

## Climate

- + Enhancing efficient strategies for reduction of climate footprint in the farming sectors

## Livestock systems

- + Special attention on animal welfare in all production sectors
- + Optimising sustainable systems

# Current cattle projects

- Climate-friendly grazing in organic milk production
- Mother-bonded calf
- The self-sufficient cattle farm - via the innovative multi-crop - complete feed grown in one fell swoop
- The indispensable eco-cow: grass-based meat production
- High Quality Grass-fed Organic Beef for Sustainable Eating behavior – GrOBEat
- Feeding with lupins – low climate footprint and locally produced
- Tannins of willow and hemp as organic feed additive for methane reduction in dairy cows - ECOCO2W
- Dry and good – alternative bedding for livestock



Karen Munk Nielsen

Innovation Centre  
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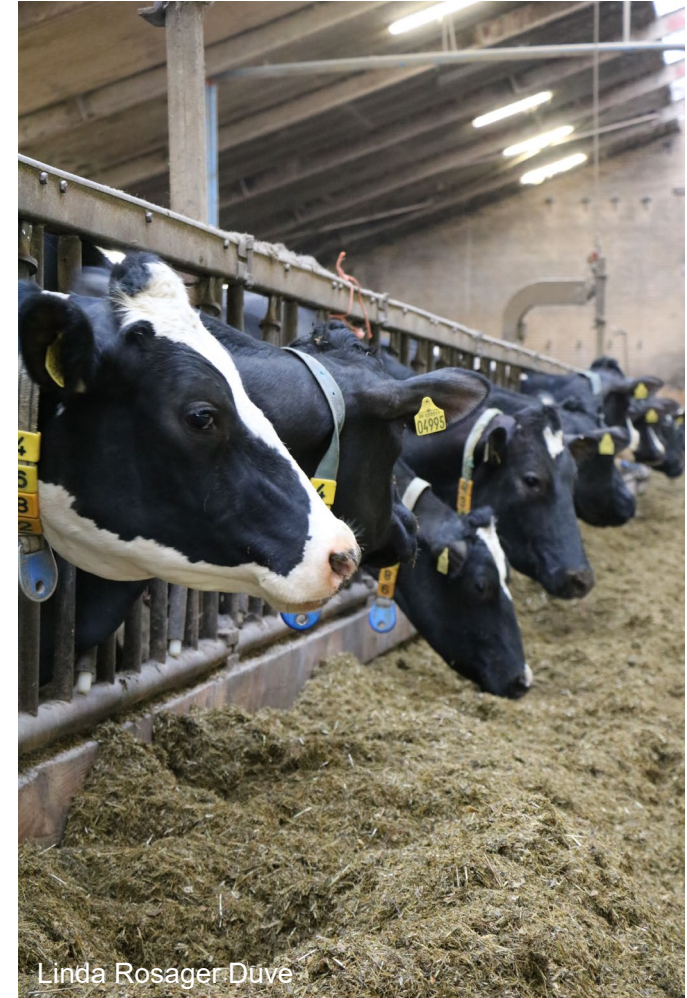
# Danish organic milk production





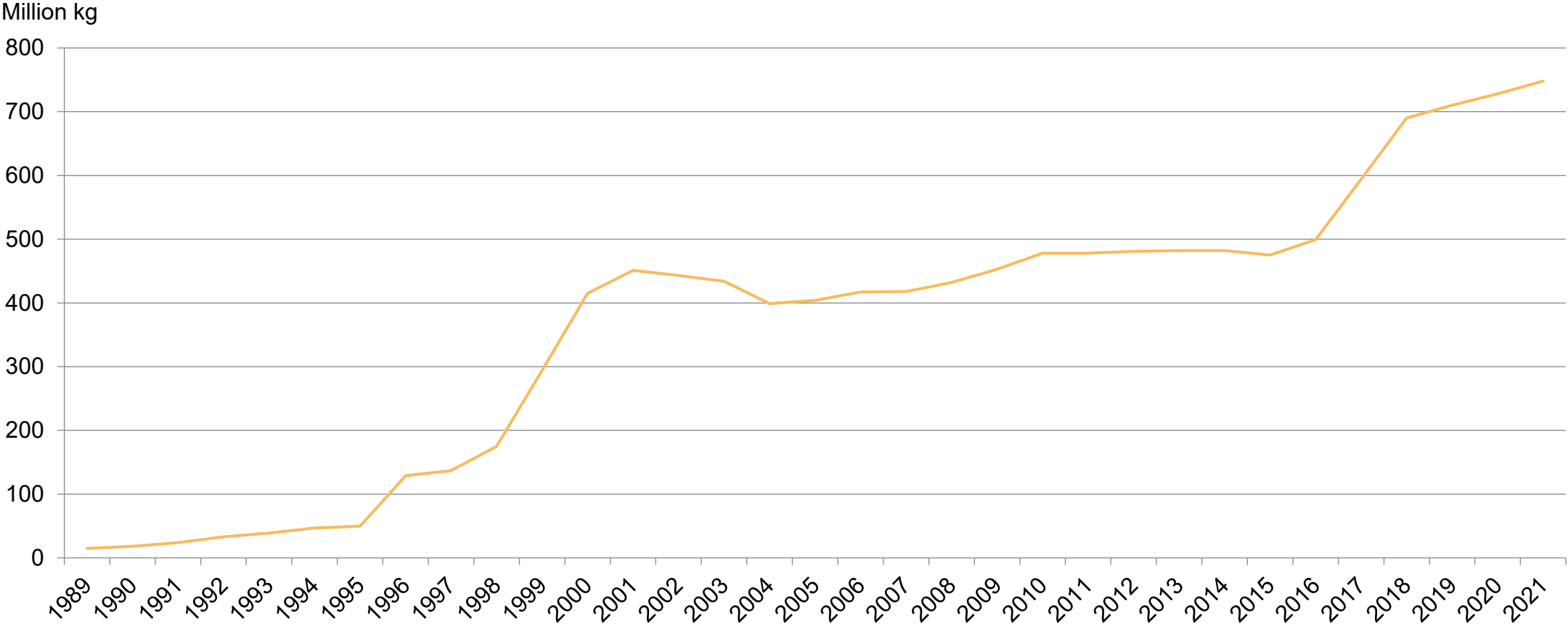
# Organic milk production

- In 2021 organic milk production in Denmark was 748 million kg, corresponding to 13% of total milk production
- 410 organic dairy farms at the end of 2021
- Premium for organic milk compared to conventional milk was about EUR 0.07 per kg milk as per September 2022
- Arla Foods was the biggest organic dairy in the World in 2021
- Market share in retail for organic liquid milk was 44.6% in 2021 (calculated in value). Its the highest market share in the World



Linda Rosager Duve

# Organic milk production, 1989-2021



Danish Agriculture & Food Council



# Organic agricultural land in Denmark



Source: The Danish Agricultural Agency.

Foto: Landbrug & Fødevarer



# Self-sufficiency on organic dairy farms



# Data based on accounts from 176 organic dairyfarms 2020

- Full-time businesses
- 7,500-15,000 kg EKM delivered per year
- Max. DKK 1,000 in machine station income per year per cow
- Max. DKK 50 per cow in annual non-agricultural income



Foto: Sophie Tandrup Madsen

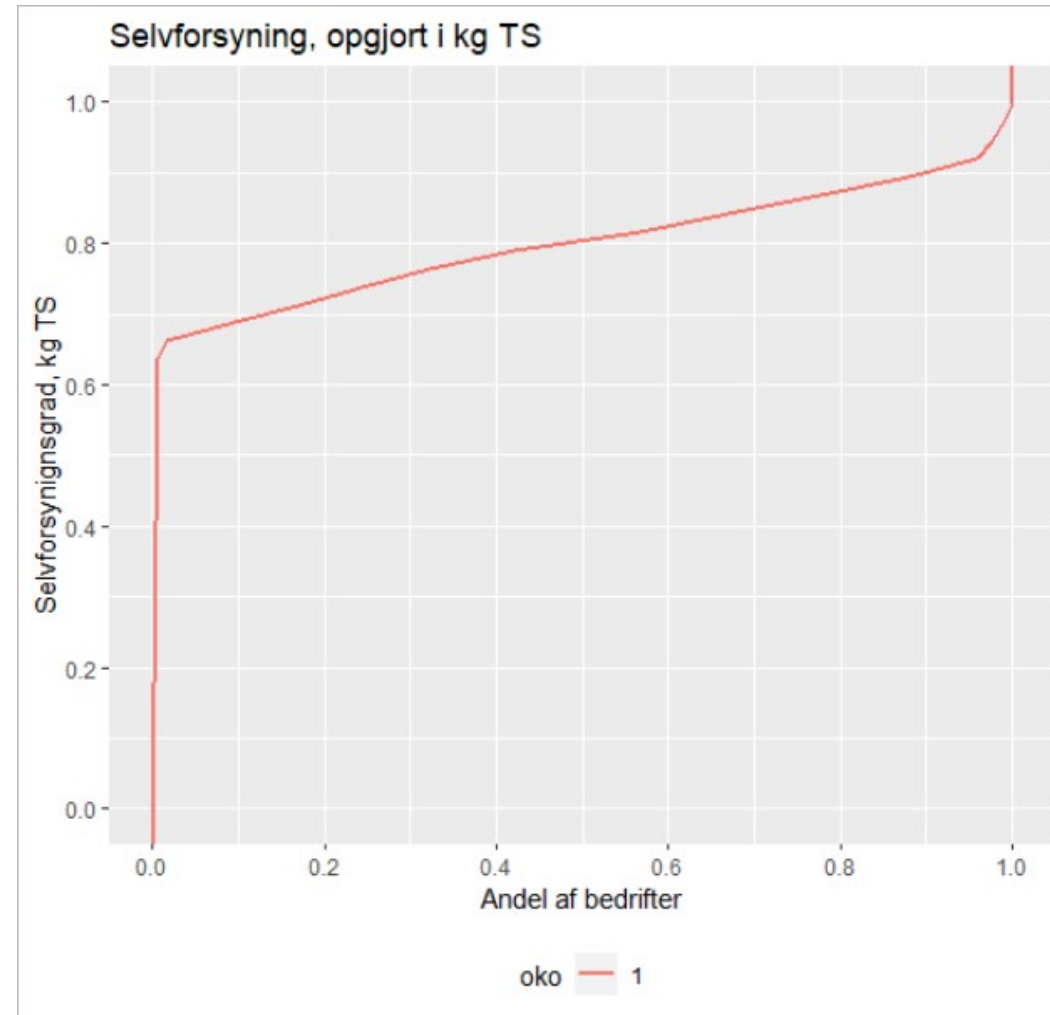
# Calculation of degree of self-sufficiency and scatter graph

## Self-sufficiency

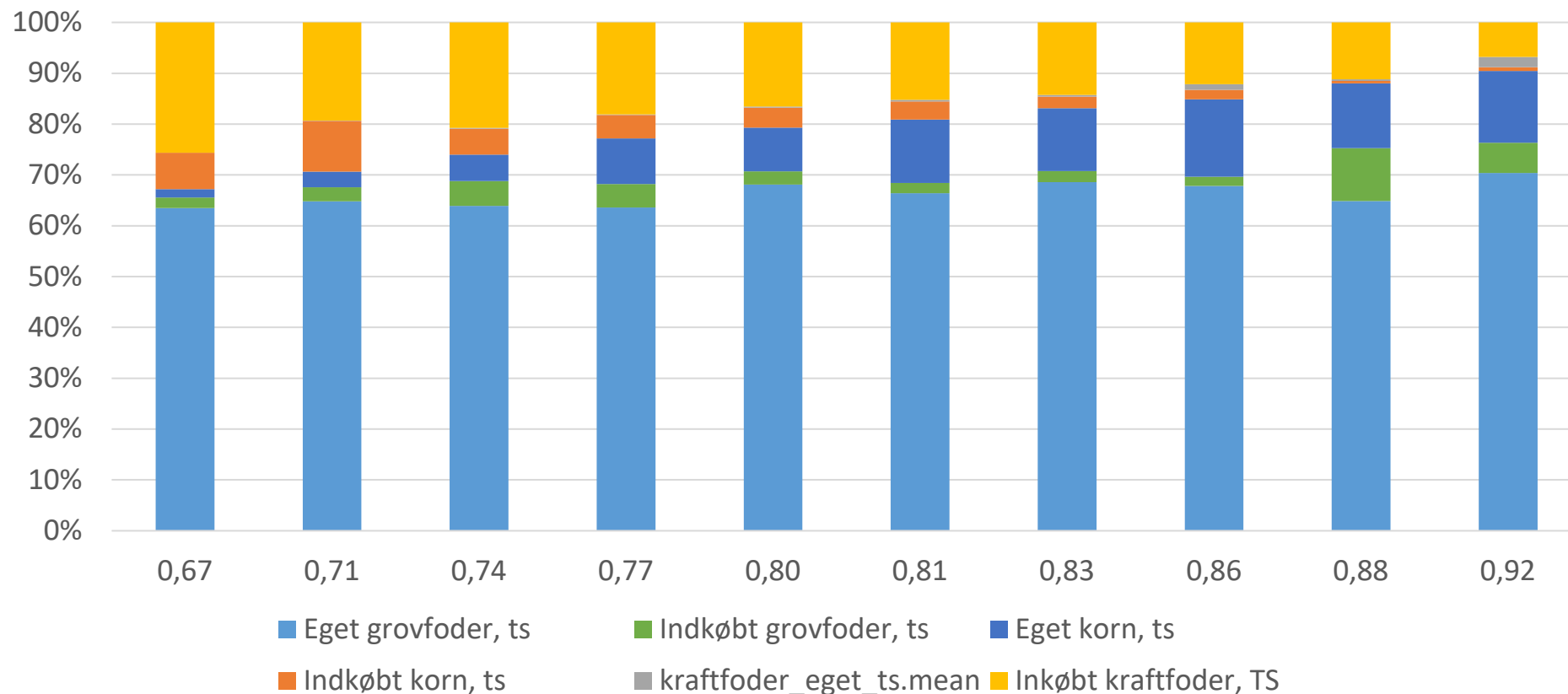
- Own roughage
- Purchased roughage
- Own grain
- Own "concentrate"

## Purchase

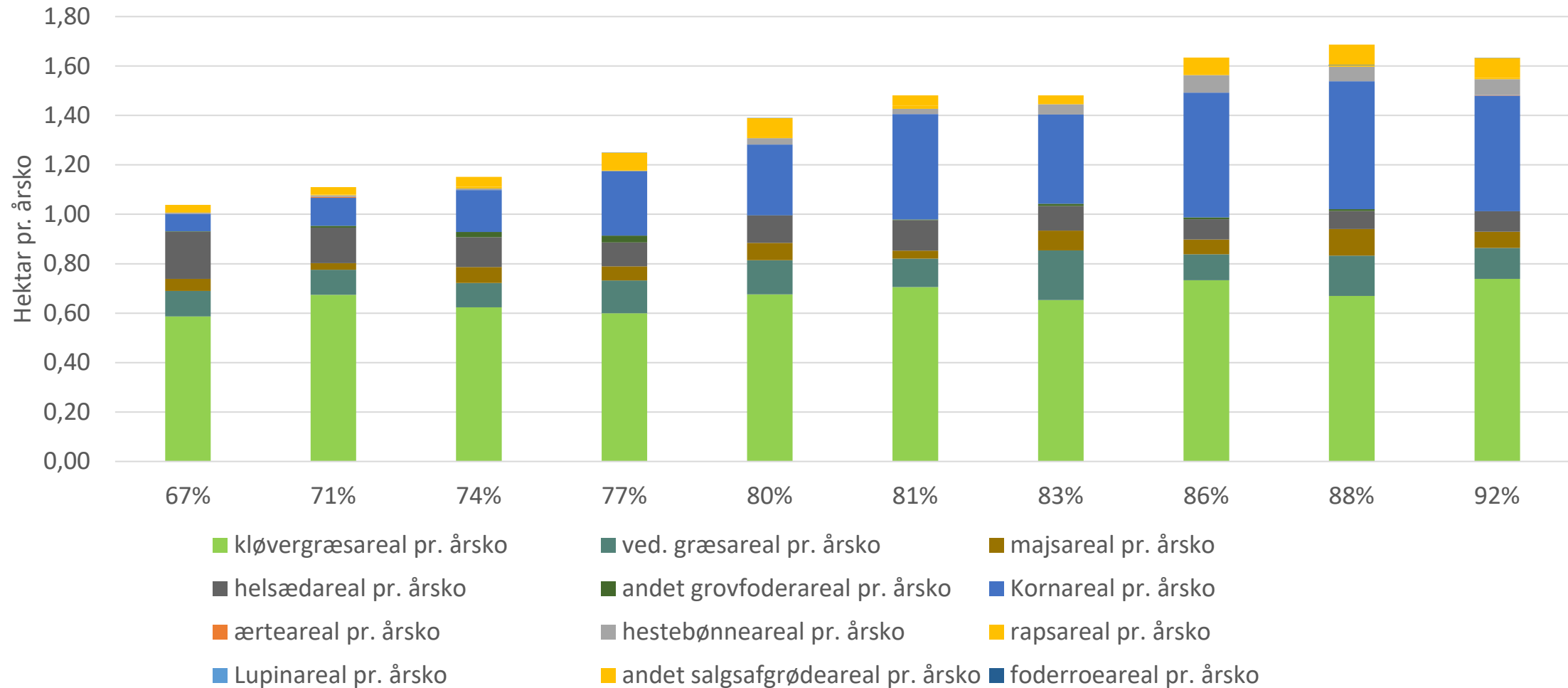
- Net purchased grain
- Purchased concentrate



# Feedstuffs (kg dm) share of total feed consumption



# Land use - area per cow





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