



NAV Methane Webinar

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Introduction

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Why a Methane Index Now?



Rising demand for sustainability



Breeding can offer safe long-term solutions for environmental impact



This initiative is a part of a broader sustainability strategy

NAV's Role and Responsibility



Transparent: communicate clearly when knowledge is still developing.



Practical: build evaluations from available data



Improving: strengthen future versions with new data and research.

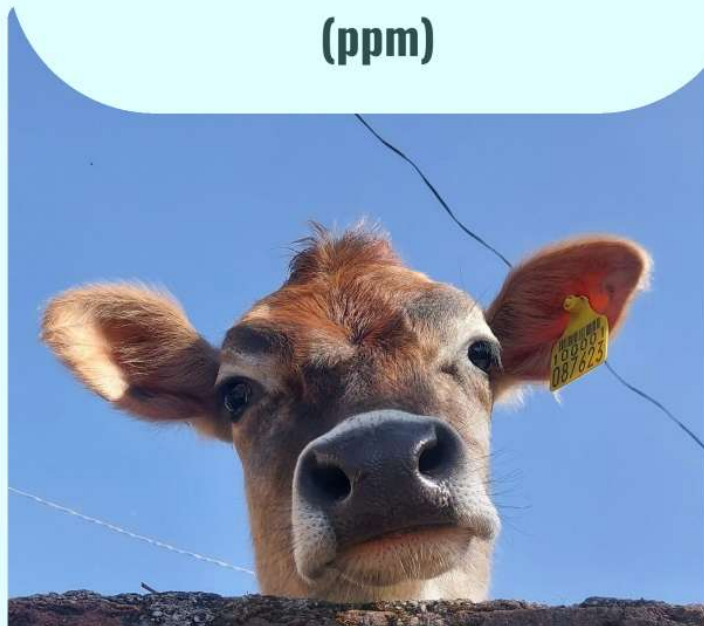
What NAV is publishing today

- ➔ Version 1.0 of the methane index
- ➔ Available for HOL, RDC and JER
- ➔ Based on current available data and knowledge
- ➔ Informative tool

Current limitations and responsible use

- ➔ Methane is still a developing trait
- ➔ Interactions with other breeding goal traits still require further study
- ➔ Current evaluation is mainly based on Danish sniffer data.
- ➔ The phenotype pipeline is still being refined

**Trait Definition Today:
Methane concentration
(ppm)**



Current Nordic methane data are based on sniffer systems (ppm).



Sniffer data is practical for commercial herds due to lower cost and easier implementation.



Sniffer methane concentration is genetically correlated with methane production.



Future calibration may support methane production traits in g, using reference data such as GreenFeed..

Research Collaboration: Future Development

Continuous improvement driven by Nordic research, data, and methods.



Today

Single-trait methane index

Expressed as methane concentration in ppm.



Next

Exploring improvement options

Evaluate trait definition, additional reference data, new models and future index design.



Future

Broader sustainability strategy

Towards more robust, practical and balanced tools for Nordic dairy breeding.