

Cattle Emissions Calculator

Required Inputs

Regional Characteristics

Western European

Cattle Type

Dairy

Productivity Level

High

Categorical Enteric CH₄ Emission

12600.0 (kg CH₄ per Year)

Number of Cattle

100

Calculate

Equation 10.19

Enteric CH₄ Emission

131.4 (kg CH₄ per Head per Year)

Dry Matter Intake (kg day⁻¹)

18

Livestock Category

High-Producing cows (> 8500 kg per year)

Calculate

Equation 10.21a

CH₄ Emission From Manure Management

9.782 (kg CH₄ per Head per Year)

Climate ☐

Cool Temperate Moist

Manure Management

Solid Storage

Daily volatile solid excreted (kg)

5

Max CH₄ Producing Capacity (m³ CH₄ kg⁻¹ of VS)

0.4

Median Animal Mass (kg)

500

Calculate

Equation 10.23

N₂O Emission From Manure Management

154.8643 (kg N₂O per Year)

Manure Management

Solid Storage

Number of Cattle

100

Median Animal Mass (kg)

500

Calculate

Equation 10.25