Spatial localisation of grassland and grazers in Europe

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Inventory:

*Importance, functions and utility of grassland in Europe at the catchment and landscape levels from economic, agronomic and environmental point of view*

• Spatial localisation of grassland within landscapes
• Interactions between grassland, arable crops and other landscape elements
• Incorporation of different farming systems, pedo climatic and socio-economic conditions
Distribution of grasslands in EU

Utilized Agricultural Area in the EU 27


UAA (% total area)
Distribution of grasslands in EU

Permanent and temporary grasslands in EU (% UAA)

Grassland production

Grassland DM productivity (Smith et al. 2008)

Fig. 2. Spatial distribution of grassland productivity (dt ha⁻¹) in Europe. NUTS, Nomenclature of Territorial Units for Statistics.
Livestock production

Regional distribution of livestock types (2000)

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Regional distribution of dominant livestock types in 2000 and change from 1990-2000

- Cattle
- Sheep
- Pigs

Change 1990-2000
- > 10% decrease
- > 10% increase

Non EU-15
NUTS region (*)

(*) NUTS 2: AT, BE, DE, GR, IT, LU, NL, PT & UK.
NUTS 3: DK, FI, FR, IE, ES & SE.

NUTS = Nomenclature of territorial units for statistics.
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Regional distribution of livestock density

Regional distribution of cattle, sheep and pig livestock units (LU) per utilised agricultural area (UAA) in 2000 and change from 1990-2000

0.0 - 0.5
0.5 - 1.0
1.0 - 1.5
1.5 - 2.0
> 2.0

Change 1990-2000
○ > 25% decrease
○ > 25% increase
NUTS region (*)
Non EU-15

(* NUTS 2: AT, BE, DE, GR, IT, LU, NL, PT & UK.
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Measures of intensification

Source: Agricultural Statistics. Main results 2007-2008 (Eurostat pocketbook)

**Figure 4.4.1:** Livestock densities, 2007

Source: Eurostat, Farm Structure Survey 2007

* Herbivore density in Germany and Sweden does not count the goat populations which are non-significant compared with other livestock in these two countries.
Meat production in EU 27

**Figure 3.2.2: Slaughter by Member States, 1000t, 2008**

- **CATTLE – 5 major countries (tonnes)**
  - DE: 15%
  - Other: 34%
  - FR: 19%
  - IT: 13%
  - UK: 11%
  - ES: 8%

- **PIGS – 5 major countries (tons)**
  - DE: 23%
  - Other: 36%
  - ES: 15%
  - DK: 8%
  - PL: 8%
  - FR: 10%

- **SHEEP – 5 major countries (tonnes)**
  - IE: 6%
  - EL: 8%
  - FR: 12%
  - UK: 34%
  - ES: 17%

- **GOATS – 5 major countries (tonnes)**
  - EL: 48%
  - BG: 7%
  - RO: 9%
  - FR: 10%
  - ES: 12%

*Germany, Spain and France produce almost half (48%) of the pig meat produced in the EU. France, Germany and Italy produce a similar proportion (47%) of cattle meat.*

*The United Kingdom and Spain produce more than half (51%) of the sheep meat while Greece alone produces almost half (48%) of the goat meat produced in the EU.*
Milk production

Milk production in L/ha UAA (Smith et al. 2008)

Fig. 5. Spatial distribution of milk productivity (l ha$^{-1}$ agricultural land) (average of 1995–2004) in Europe. NUTS, Nomenclature of Territorial Units for Statistics.
Favourable areas for dairy production

Source: Rural development in the EU (Report 2008)
Favourable areas for dairy production

Source: Rural development in the EU Report 2008

Very favourable:
5% of the EU-territory and 20% of the EU dairy production

Neutral:
71% of the EU-territory and 70% of the EU dairy production
Sc1: potential in specific conditions – need of encouragement by rural development policy
Sc2: low milk prices → decrease in milk production → ceasing collection of milk → socio-economic problems for the region

Less favourable:
24% of the area and 10% of the EU dairy production (mountain areas)
Production at risk but no other agricultural activity possible!
→ prevention of abandonment / conservation natural areas
LFA & land abandonment risk

Source: Rural development in the EU (Report 2008)
Extensive grazing

Source: Rural development in the EU (Report 2008)
Organic farming

Source: Analysis of the EU organic sector (2010)
Organic farming

Source: Analysis of the EU organic sector (2010)
Organic farming

Source: Analysis of the EU organic sector (2010)

Graph 27. Share of the organic sector in animal sub-sectors (% of total herd, 2007)

Source: elaborated by DG AGRI (see sources of Graphs 28 to 32)
Thank you for our attention

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