HNV Farmland in Bulgaria

Vyara Stefanova
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Facts and figures

Total area of Bulgaria = 11.1 million ha
- Arable land – 61.8%
- Permanent pastures – 33.8%
- Permanent crops – 4.0%
- Family gardens – 0.3%
Forest area = 3.7 million ha
Inland waters = 0.2 million ha
## Land use change

<table>
<thead>
<tr>
<th>LAND USE (000 ha)</th>
<th>2004</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Agricultural land</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Arable land</td>
<td>3 296,8</td>
<td>3 213,6</td>
</tr>
<tr>
<td>2. Permanent crops</td>
<td>215,8</td>
<td>172,6</td>
</tr>
<tr>
<td>3. Permanent pastures (pastures, meadows and other)</td>
<td>1808,8</td>
<td>1 351,4</td>
</tr>
<tr>
<td>4. Family gardens</td>
<td>15,1</td>
<td>302,2</td>
</tr>
<tr>
<td>5. Mixed Use</td>
<td>2,0</td>
<td>588,3</td>
</tr>
<tr>
<td><strong>total:</strong></td>
<td><strong>5330,5</strong></td>
<td><strong>5 628,1</strong></td>
</tr>
<tr>
<td><strong>Non agricultural land</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5545,6</td>
<td>5 471,4</td>
</tr>
<tr>
<td><strong>Other Physical blocks</strong></td>
<td>0,2</td>
<td>0,2</td>
</tr>
</tbody>
</table>
Grasslands in Bulgaria

- 66% of the grasslands are low productive natural and semi-natural pastures
- 1% of the grasslands are temporary pastures
- 28% - natural meadows
- 5% - meadow gardens

27% of the grasslands are in South-West Region
25,2% - South – Central Region
Only 9,7% - North – East region
Farm structure in BG

- 75% of the farms are less than 1 ha
- 0.8% of the farms (more than 50 ha) manage 86% UAA
Farm types in BG

- Subsistence and semi-subsistence (livestock and mixed production)

- Family farms (market oriented) – livestock, mixed production, crop production

- Intensive farms (industrial arable and livestock production, green houses, orchards and vegetables)
HNVF type 1

Livestock production
- Subsistence/semi-subsistence
  - Mainly in mountain areas
  - Mainly grazing on semi-natural grassland Transhumance Small grassland holding and shepherding
- Family market oriented farms
  - Mainly in mountain areas
  - Some grazing on semi-natural Grasslands plus feeding with concentrate Family grassland plus some shepherding

Mixed production
- Subsistence/Semi-subsistence
  - Mixed small cropping (low intensity) with some livestock shepherding
  - Mountain areas Lowlands with low soil productivity
- Family market oriented farms
  - Mixed small cropping (low intensity) with some livestock shepherding
  - Mountain areas Lowlands with low soil productivity
HNVF Type 2

Crop production
- Subsistence/semi-subsistence
  - Small scale mosaic landscape presented
    - Small holdings with low cropping
      - Mountain areas and lowlands with low soil productivity
- Family market oriented farms
  - Small scale mosaic landscape presented
    - Small holdings with low cropping
      - Mountain areas and lowlands with low soil productivity
- Mixed small cropping (low intensity) with some livestock shepherding
- Mixed production
  - Subsistence/Semi-subsistence
    - Mountain areas and lowlands with low soil productivity
  - Family market oriented farms
    - Mountain areas and lowlands with low soil productivity
HNVF maps – present situation

• Bulgaria adapted the approach used by the EEA by using several national databases for biodiversity situation:
  - CORINE land cover 2000;
  - Natura 2000
  - IBAs
  - Grassland inventory
  - Habitats of triton, souslik, marbled polecat, Romanian hamster, tortoise and butterflies
HNVF – present situation

• The layers were then overlapped with the database for the physical blocks in the LPIS as per September 2007 and again in 2009

• Results for HNVF (2007)
  - Arable land – 359 116 ha of which 47,5% in Natura 2000
  - Permanent crops – 40 155 ha of which 30% in Natura 2000
  - Permanent grassland - 951 256 ha of which 42% in Natura 2000
  - Mixed utilization – 279 013 ha of which 37% in Natura 2000

- Total area 1 630 035 ha – defined as HNVF (around 30% of UAA)
• The approach uses national data bases for biodiversity situation
• It permits overlapping with other territorial databases (LFA)
BUT:
• Is not accurate (errors occur of the different scale of the maps used)
• Does not content info for the farming practices
• Does not allow monitoring of the changes in the quality
Support for HNVF in

- Direct payments – only 63% are eligible
- National payments (per livestock unit)
- Rural development measures
  - Support for semi-subsistence farm – 1500 EUR/annually
  - LFA payments
    - Mountain LFA – 110 EUR/ha
    - Other LFA – 50 EUR/ha
- AE payments
  - HNV grasslands 97/155 EUR/ha
  - Mountain pastoralism 100/110 EUR/ha
  - Traditional orchards 131 EUR/ha
  - HNVF in arable land – 20/102 EUR/ha
Thank you!