Reusability of IACS/LPIS geospatial data to estimate the Utilized Agricultural Area

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INTRODUCTION

• The Open IACS fosters the opening and re-using of administrative data from European agricultural payment agencies.
• The Integrated Administration and Control Systems (IACS) from paying agencies can be a relevant source for computing indicators for monitoring the performances of the Common Agricultural Policy (CAP).
• Performance of CAP is measured by a set of Context, Impact, Results and Output indicators according to the Common Monitoring and Evaluation Framework (CMEF).
• Context indicators within the EU framework are generally computed with statistical surveys data from Eurostat.

Objectives

• Identification of the IACS variables for the indicators: Total Utilized Agricultural Area (UAA) and Share of UAA by land use type.
• Creation of spatial layers for the indicators by:
  o Matching Land Parcel Identification System (LPIS) codes with Eurostat codes to identify agricultural parcels;
  o Counting hectares of agricultural parcels and computing the percentage for three different agricultural land use types.

Definition of the indicators

1. Total utilized agricultural area (UAA) in absolute terms expressed in hectares
2. Share of UAA* expressed as percentage of the total UAA for arable land, permanent grassland, permanent crops

* Kitchen gardens are not considered since the datasets cannot allow their clear identification

METHODS

MATCHING TABLE

<table>
<thead>
<tr>
<th>LPIS code</th>
<th>LPIS desc.</th>
<th>Eurostat categ.</th>
<th>Eurostat code</th>
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<tbody>
<tr>
<td>2</td>
<td>Durum</td>
<td>Arable land</td>
<td>ARA</td>
</tr>
<tr>
<td>420</td>
<td>Olive orchards</td>
<td>Permanent crops</td>
<td>PEKR</td>
</tr>
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<td>364</td>
<td>Pasture</td>
<td>Permanent grassland</td>
<td>J0000</td>
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<tr>
<td>650</td>
<td>Forest</td>
<td>No UAA</td>
<td>No UAA</td>
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<td>...</td>
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</tr>
</tbody>
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RESULTS

TOTAL UTILIZED AGRICULTURAL AREA
(Foggia province)

562,327 ha (81% LPIS area - 223,305 polygons)

SHARE OF UAA BY LAND USE TYPES

Permanent grassland (J0000) 14% (80,467 ha)
Permanent crops (PECR) 17% (94,003 ha)
Arable land (ARA) 69% (387,857 ha)

REFERENCES

https://open-iacs.eu/