



INSTITUTO NACIONAL DE ESTATÍSTICA  
STATISTICS PORTUGAL

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# Regional Economic Accounts for Agriculture Base 2011

Methodological inventory

Questionnaire on the compiling of Regional Economic Accounts for Agriculture

## **Introductory note**

This document is an inventory of sources and methods of Regional Economic Accounts for Agriculture (REAA), Base 2011.

The structure of this inventory closely follows the predefined form of questionnaire presented by Eurostat.

The content of this text on sources and methods corresponds to the final option, after several tests of hypothesis. In fact, the choice of this methodology is related with the consistency of results and to the quality of data base, since, in many cases, the best theoretical sources have presented difficulties to be implemented in the final calculation of REAA. It has been used, as far as possible, the same sources and methods to determine the national values of Economic Accounts for Agriculture (EAA).

The results of REAA are harmonized and consistent with EAA and National Accounts (NA), both in Base 2011, using European System of National and Regional Accounts 2010 (ESA 2010).

The data series of REAA start in 1995 and are presented with the regional detail Nomenclature of Territorial Units for Statistical Purposes, NUTS2.

## 1. General information about the compiling of REAA

<b>Country:</b>	<b>Portugal</b>
<b>REAA compiled from year:</b>	<b>1995</b>
<b>Number of NUTS1 regions:</b>	<b>3</b>
<b>NUTS1 regions eventually not covered by REAA (names/codes):</b>	-
<b>Number of NUTS2 regions:</b>	<b>7</b>
<b>NUTS2 regions eventually not covered by REAA (names/codes):</b>	-
<b>Institution(s) responsible for compiling the regional EAA:</b> Statistics Portugal (INE, I.P.)	
<b>Further explanations:</b>	
<p><b>Are the regional EAA published, on paper and/or electronically? (If Yes, please mention the titles and/or the links)</b></p> <p>The REAA are in Eurostat site  <a href="http://ec.europa.eu/eurostat/data/database">http://ec.europa.eu/eurostat/data/database</a>                  or  <a href="http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=agr_r_accts&amp;lang=en">http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=agr_r_accts&amp;lang=en</a>                  and in Statistics Portugal site  <a href="https://www.ine.pt/xportal/xmain?xpid=INE&amp;xpgid=ine_cnacionais2010&amp;contexto=cs&amp;selTab=tab3&amp;perfil=220674570&amp;INST=220617355&amp;xlang=en">https://www.ine.pt/xportal/xmain?xpid=INE&amp;xpgid=ine_cnacionais2010&amp;contexto=cs&amp;selTab=tab3&amp;perfil=220674570&amp;INST=220617355&amp;xlang=en</a>                  in the Satellite Accounts section, statistical information domain relative to National Accounts / E - Satellite Accounts / E.1 Regional Accounts of Agriculture / E.1.2 Regional Economic Accounts for Agriculture</p>	

## 2. General methodology information about the compiling of REAA

<b>Methodology as described refers mainly to year:</b>	2010 and 2011 (Base 2011)
<b>Does the method used ensure that the aggregation of results at regional data corresponds with results on national level? Y/N</b>	Y
<b>General comments on the methodology:</b> <p>The used methodology is mostly bottom-up, as the sources are identical to those used to calculate the national values: quantity multiplied by national average price.</p>	
<b>Does the methodology take into consideration that animals, products, goods, etc. are crossing regional borders, meaning that part of the inter-unit use at national level are to be treated as sale/purchase in the regional EAA? Please explain (in brief):</b> <p>The methodology implicitly admits the regional trade of intra-consumed goods within the industry of agriculture, since the regionalization variables are different for output and intermediate consumption (eg .: production and intermediate consumption of straw).</p>	
<b>Main changes in the methodology before or after the reference year:</b> <p>There are no methodological changes, but only updating of data structures and new sources, such as the Agricultural Census 2009 and the Horticulture Survey 2011.</p> <p>Given the revisions on NUTS2 observed in 2002, it was not always possible to obtain information with the new regional detail 1995-1999. In some cases, it was necessary to apply structures to re-estimate the NUTS2 that were changed ("Lisboa", "Alentejo" and "Centro").</p> <p>The posterior review on NUTS 2013 had only as a consequence, at level NUTS2, the renaming of region "Lisboa" to "Área Metropolitana de Lisboa/AML."</p>	
<b>If the methodology for regional EAA is documented, please give the title and/or the links:</b> <p>So far, the methodology is only provided by this inventory/questionnaire on sources and methods.</p>	
<b>Further explanations:</b>	

### 3. Relation between REAA and compiling of regional data for National Accounts

Is the compiling of regional EAA (NUTS2) and data for NA-agriculture (NACE group 01) at NUTS3-level a joint operation? Y/N	N
Are the sources used in compiling REAA coordinated with breakdown methods used in National Accounts? Y/N/Partly	Y
Please explain (in brief) if the above answer is <i>Partly</i> :	
Further explanations:	

#### 4. Abbreviations used (in section 5-9)

<b>AML</b>	Área Metropolitana de Lisboa
<b>CCCAM</b>	Caixa Central de Crédito Agrícola Mútuo
<b>CCF (CFC)</b>	Consumo de Capital Fixo (Consumption of Fixed Capital)
<b>CEA (EAA)</b>	Contas Económicas da Agricultura (Economic Accounts for Agriculture)
<b>CN (NA)</b>	Contas Nacionais (National Accounts)
<b>DGADR</b>	Direção-Geral da Agricultura e Desenvolvimento Rural (Directorate-General of Agriculture and Rural Development)
<b>DGEG</b>	Direção-Geral de Energia e Geologia (Directorate-General of Energy and Geology)
<b>DGT</b>	Direção-Geral de Turismo (Directorate-General of Tourism)
<b>DOP</b>	Denominação de Origem Protegida (Protected Designation of Origin)
<b>EDP</b>	Eletricidade de Portugal (Electricity of Portugal)
<b>EPA</b>	Estatísticas da Produção Animal (Animal Production Statistics)
<b>EPV</b>	Estatísticas da Produção Vegetal (Crop Production Statistics)
<b>FBCF</b>	Formação Bruta de Capital Fixo (Gross Fixed Capital Formation)
<b>FUE</b>	Ficheiro de Unidades Estatísticas (Central Register of Enterprises and Establishments)
<b>IAPI</b>	Inquérito Anual à Produção Industrial (Annual Survey on Industrial Production)
<b>IEEA (FSS)</b>	Inquérito à Estrutura das Explorações Agrícolas (Farm Structure Survey)
<b>IES (SBI)</b>	Informação Empresarial Simplificada (Simplified Business Information)
<b>IFAP</b>	Instituto de Financiamento da Agricultura e Pescas, I.P. (Financing Institute for Agriculture and Fisheries, I.P.)
<b>INE</b>	Instituto Nacional de Estatística (Statistics Portugal)
<b>IVV</b>	Instituto da Vinha e do Vinho (Institute of Vineyards and Wine)
<b>MAM/MAFDR</b>	Ministério da Agricultura e do Mar/Ministério da Agricultura, Florestas e Desenvolvimento Rural (Ministry of Agriculture and Sea/nowadays, Ministry of Agriculture, Forestry and Rural Development)
<b>MAOTE/MA</b>	Ministério do Ambiente, Ordenamento do Território e Energia/Ministério do Ambiente (Ministry of Environmental, Spatial Planning and Energy/nowadays, Ministry of Environment)
<b>MEI/ME</b>	Ministério da Economia e Inovação/ Ministério da Economia (Ministry of Economy and Innovation/nowadays, Ministry of Economy)
<b>NIF</b>	Número de Identificação Fiscal (Tax Identification Number)
<b>POC</b>	Plano Oficial de Contabilidade (Official Accountant Plan)
<b>PRAG</b>	Preços na Agricultura (Prices of Agricultural Products)
<b>RA</b>	Regiões Autónomas (Autonomous Regions)
<b>RA09</b>	Recenseamento Agrícola (Agricultural Census 2009)

<b>RGA99</b>	Recenseamento Geral da Agricultura 1999 (General Census of Agriculture 1999)
<b>RICA (FADN)</b>	Rede Integrada de Contabilidades Agrícolas (Farm Accountancy Data Network)
<b>RPU (SPC)</b>	Regime de Pagamento Único (Single Payment Scheme)
<b>SEC (ESA)</b>	Sistema Europeu de Contas Nacionais e Regionais (European System of National and Regional Accounts)
<b>SNC</b>	Sistema de Normalização Contabilística (Accounting Standard System)
<b>UTA (AWU)</b>	Unidade Trabalho Ano (Annual Work Unit)
<b>VLQPRD</b>	Vinho Licoroso de Qualidade Produzido em Região Demarcada (Quality Liqueur Wine Produced in a Specific Region)
<b>VQPRD</b>	Vinho de Qualidade Produzido em Região Demarcada (Quality Wine Produced in a Specific Region)
<b>SIFIM (FISIM)</b>	Serviços de Intermediação Financeira Indiretamente Medidos (Financial Intermediation Services Indirectly Measured)

### 5. Methodology used for output values in REAA in producer prices (Introduce X in the relevant box and mention the sources)

EAA code	EAA name	Bottom-up	Top-down	Sources used
01000	Cereals, incl. seeds (and straw)	x		Grain: EPV - quantity produced (soft wheat, durum wheat, maize, rice, rye, triticale); MAM - IFAP - Subsidies - areas (sorghum); Straw: EPV - production of cereals which can origin straw - wheat, barley, oats and rye, weighted by a conversion coefficient of cereal/straw. Note: Since Base 2011, the data series of EAA and REAA include straw in this code. It was in code 09 (other crop products) in previous basis.
02100	Oil seeds and oleaginous fruits	x		EPV - sunflower production; MAM - IFAP - Subsidies - areas (rape and turnip seed, soya, other oilseeds – non textile linen)
02200	Protein crops	x		MAM - IFAP - Subsidies - areas (pies, broad beans and sweet lupines)
02300	Raw tobacco	x		EPV - quantity produced
02400	Sugar beet	x		EPV - quantity produced
02900	Other industrial crops	x		RGA 99 / RA09 - area (textile linen, medicinal plants); EPV - hop production, chickpeas, beans;  The sugarcane is produced only in RA of Madeira
03000	Forage plants		x	RGA 99 / RA09 / EPV - corn area for silage; area of permanent pastures, meadows and temporary pastures - Main culture;  EPV - corn production (regionalization of hay)
04100	Fresh vegetables		x	EPV - quantity produced (tomato for industry);  Horticulture Survey - Production (other vegetables)



04200	Plants and flowers		x	<p>Fruit and olive trees sold by nurseries owners survey - origin of nursery plants, for Portugal Mainland (Continente);</p> <p>RGA99 / RA09 / IEEA - the value in RA is determined by the relative weight of the respective areas;</p> <p>Floriculture and ornamental plants survey - areas of flowers and ornamental plants in Portugal;</p> <p>Fruit and olive trees sold by nurseries owners survey - number of sold fruit and olive trees directly to farmers on Mainland (Continente);</p> <p>IEEA (FSS) - cost of installation and maintenance of plantations and nursery plants in RA of Azores and of Madeira</p>
05000	Potatoes	x		<p>EPV - produced potatoes for human consumption;</p> <p>Certified potato seeds are only produced in RA of Azores and in region NUTS2 Norte (data for 1995-2007; for the remaining years there are no certification requests)</p>
06000	Fruits	x		<p>Horticulture survey - strawberry production;</p> <p>MAM - IFAP - Subsidies - banana production;</p> <p>MAM - Crop production yearbook - production of tropical fruits;</p> <p>EPV - quantity produced (other fruits)</p>
07000	Wine	x		<p>MAM - IVV (declared production of different types of wine);</p> <p>PRAG survey on price of quality wines (DOP) (former designation VQPRD) and liqueur wine DOP (former designation VLQPRD)</p>
08000	Olive oil	x		<p>EPV - quantity produced (Olive oil production survey)</p>
09000	Other crops products	x		<p>RGA 99 / RA09 - areas of herbs, forage seeds, fruits and vegetables;</p> <p>IEEA - areas of sweet potatoes and yams;</p> <p>Only RA of Madeira produces wicker;</p> <p>Only RA of Azores has tea production</p>
11100	Cattle		x	<p>EPA – cattle livestock</p>

11200	Pigs		x	EPA – pig livestock
11300	Equines		x	EPA – equines livestock
11400	Sheep and goats		x	EPA - sheep and goat livestock
11500	Poultry	x		RGA 99 / RA09 and IEEA (FSS) – poultry livestock; EPA – production of poultry
11900	Other animals		x	EPA - production of quails and pigeons; RGA 99 / RA09 and IEEA (FSS) – rabbit livestock; IES - dogs and hunting (production - pets and other live animals)
12100	Milk	x		EPA - cow's milk production, dairy goat and sheep livestock
12000	Eggs	x		EPA – Eggs production for consumption survey
12900	Other animal products	x		RGA 99 / RA09 - number of hives (honey, wax); EPA – cattle livestock (bovine semen); EPA – sheep livestock (raw wool)
15000	Agricultural services		x	Structure of total production of agricultural goods
17100	Processing of agricultural products	x		Production structure of processed products (wine, vegetables, milk, animals); Structure of the total production of agricultural goods (other products)
17900	Other inseparable secondary activities (goods and services)	x		Structure of the total production of agricultural goods; IES - production of non-agricultural secondary activities (products: Wholesale of milk and dairy products, eggs, olive oil, and agricultural machinery and equipments; Retail sale of fuels for motor vehicles, etc.

## 6. Methodology used for subsidies in the REAA (Introduce X in the relevant box and mention the sources)

In recent years of EAA data series, Statistics Portugal began to receive from IFAP a more complete and detailed information on amounts of subsidies paid each year, that is, split not only by type of aid and by origin of payment (EU or national), but also including the Tax Identification Number (NIF) of the beneficiary and the destination region NUTS2 of the payments.

This more detailed information allowed, since 2010, that the regional allocation of amounts paid, classified by SEC (ESA) operation (subsidies, transfers and taxes), was performed more accurately.

EAA code	EAA name	Bottom-up	Top-down	Sources used
01000	Cereals, incl. seeds	x		MAM - IFAP – Subsidies paid
02100	Oil seeds and oleaginous fruits	x		MAM - IFAP – Subsidies paid
02200	Protein crops	x		MAM - IFAP – Subsidies paid
02300	Raw tobacco	x		MAM - IFAP – Subsidies paid
02400	Sugar beet	x		MAM - IFAP – Subsidies paid
02900	Other industrial crops	x		MAM - IFAP – Subsidies paid
02000	Industrial crops	x		MAM - IFAP – Subsidies paid
03000	Forage plants	x		MAM - IFAP – Subsidies paid
04100	Fresh vegetables	x		MAM - IFAP – Subsidies paid
04200	Plants and flowers	x		MAM - IFAP – Subsidies paid
05000	Potatoes	x		MAM - IFAP – Subsidies paid
06000	Fruits	x		MAM - IFAP – Subsidies paid
07000	Wine	x		MAM - IFAP – Subsidies paid
08000	Olive oil			-
09000	Other crops	x		MAM - IFAP – Subsidies paid
11100	Cattle	x		MAM - IFAP – Subsidies paid
11200	Pigs			-
11300	Equines			-
11400	Sheep and goats	x		MAM - IFAP – Subsidies paid
11500	Poultry			-
11900	Other animals			-
12100	Milk	x		MAM - IFAP – Subsidies paid
12000	Eggs			-
15000	Agricultural services			-
17100	Processing of agricultural products			-

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17900	Other inseparable secondary activities (goods and services)			-
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## 7. Methodology used for taxes in the REAA (Introduce X in the relevant box and mention the sources)

EAA code	EAA name	Bottom-up	Top-down	Sources used
01000	Cereals, incl. seeds			-
02100	Oil seeds and oleaginous fruits			-
02200	Protein crops			-
02300	Raw tobacco			-
02400	Sugar beet			-
02900	Other industrial crops			-
03000	Forage plants			-
04100	Fresh vegetables			-
04200	Plants and flowers			-
05000	Potatoes			-
06000	Fruits			-
07000	Wine	x		Amounts of special taxes on consumption (source: Ministry of Finance) are allocated to product "wine" using the structure of total wine production.
08000	Olive oil			-
09000	Other crops			-
11100	Cattle			-
11200	Pigs			-
11300	Equines			-
11400	Sheep and goats			-
11500	Poultry			-
11900	Other animals			-
12100	Milk		x	MAM (IFAP) - taxes paid (see introduction of point 6 - exceeding quotas)
12000	Eggs			-
15000	Agricultural services			-
17100	Processing of agricultural products			-
17900	Other inseparable secondary activities (goods and services)			-

### 8. Methodology used for intermediate consumption and fixed capital consumption in the REAA (Introduce X in the relevant box and mention the sources)

EAA code	EAA name	Bottom-up	Top-down	Sources used
19010	Seed and planting stock		x	EPV - cultivated areas; Fruit and olive trees sold by nurseries owners survey (destination of sales of nursery plants)
19020	Energy		x	EDP - electricity consumption on Continente (Mainland); MAOTE - DGEG - petroleum product sales in domestic market (propane, butane and conduct gas, gasoline, fuel, oil, uncoloured diesel, others); MAM - DGADR - coloured diesel; MAM – RICA (FADN) - electricity in RA of Azores and of Madeira
19030	Fertilisers and soil improvers		x	MAM – RICA (FADN) – consumption of fertilizers, 2006-2013: Information received by NUTS2,1995-2005: the structure of crop production (excluding olive oil and wine) was used to obtain data on NUTS2 (1989) that were changed ("AML", "Alentejo" and "Centro")
19040	Plant protection products and pesticides		x	MAM – RICA (FADN) – consumption of pesticides, 2006-2013: Information received by NUTS2,1995-2005: the structure of crop production (excluding olive oil and wine) was used to obtain data on NUTS2 (1989) that were changed ("AML", "Alentejo" and "Centro")
19050	Veterinary expenses		x	MAM – RICA (FADN) - other livestock costs, 2006-2013: Information received by NUTS2,1995-2005: applied the structure of livestock to NUTS2 (1989) that were changed ("AML", "Alentejo" and "Centro")

19061	Feedingstuffs supplied by other agricultural holdings		x	MAM – RICA (FADN) - bought fodder, 2006-2013:  Information received by NUTS2 1995-2005: applied the structure of forage crops production to NUTS2 (1989) that were changed ("AML", "Alentejo" and "Centro")
19062	Feedingstuffs purchased from outside agricultural industry		x	For animal livestock (except rabbits and poultry):  EPA, using the structure of compound feedstuffs;  For rabbits and poultry (except free range chicken and day chicks): RGA99 / RA09 and IEEA (FSS), using the structure of compound feedstuffs
19063	Feedingstuffs produced and consumed by the same holding		x	Simple feedingstuffs production (cereals, protein crops, etc.)
19070	Maintenance of materials		x	MAM – RICA (FADN) – maintenance and repair of equipment, 2006-2013;  Information received by NUTS2 1995-2005: applied the structure of agricultural goods production to NUTS2 (1989) that were changed ("AML", "Alentejo" and "Centro")
19080	Maintenance of buildings		x	MAM – RICA (FADN) – maintenance of buildings and land improvements, 2006-2013:  Information received by NUTS2 1995-2005: applied the structure of agricultural goods production to NUTS2 (1989) that were changed ("AML", "Alentejo" and "Centro")
19090	Agricultural services	x		Agricultural services production
19095	FISIM		x	see Interest paid
19900	Other goods and services		x	Agricultural goods production, with exceptions: liqueur wine DOP (former designation VLQPRD);  Intermediate consumption related only to wine and olive oil production was split using the respective structure of production
21110	FCC Equipment		x	Regional GFCF on Equipment
21200	FCC Buildings		x	Regional GFCF on Buildings
21300	FCC Plantations		x	Regional GFCF on Plantations
21900	FCC Other		x	Regional GFCF on Other

### 9. Methodology used for income and capital account in REAA in basic prices (Introduce X in the relevant box and mention the sources)

EAA code	EAA name	Bottom-up	Top-down	Sources used
23000	Compensation of employees		x	RGA99 / RA09 and IEEA – not salaried Annual Work Unit/AWU (UTA)
24000	Other taxes on production		x	Total goods and services production
25000	Other subsidies on production		x	(see introduction of point 6) MAM (IFAP) - Measures such as the Single Payment Scheme (SPS), rural development, forestry and agrienvironmental measures, compensatory allowances, aids related to cereals, honey, olive oil, etc.;  In the early years of data series, the structures of the underlying production of some products (aids related to olive oil, fruits, vegetables, cattle, sheep, wine products, honey, “blue tongue”) were used for regional disaggregation;  Structure of intermediate consumption (“green electricity”)
28000	Rents, paid	x		RGA99 /RA09 / IEEA and national legislation (maximum rents, by region)
29000	Interest paid		x	Caixa Central de Crédito Agrícola Mútuo (CCCAM) - country, except RA Madeira; MAM – RICA (FADN) - % of RA Madeira
30000	Interest received	x		IES (SBI) – Interest earned – account 781 of SNC
32100	CFCF in plantations		x	Fruit and olive trees sold by nurseries owners survey – sales destination of nursery plants (fruit trees plantation); MAM – IVV – plantation and replanting of vineyard
32200	CFCF in animals	x		EPA – variation of livestock classified as fixed capital good
33100	GFCF in materials		x	Contas Nacionais/CN (NA) – GFCF matrix by industry and type of asset, from Regional National Accounts (industry Agriculture, animal production, hunting, forestry and fishery – product Machinery and equipment)



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33200	GFCF in buildings		x	Contas Nacionais/CN (NA) – GFCF matrix by industry and type of asset, from Regional National Accounts (industry Agriculture, animal production, hunting, forestry and fishery – product Other buildings and construction)
33900	Other GFCF		x	Contas Nacionais/CN (NA) – GFCF matrix by industry and type of asset, from Regional National Accounts (industry Agriculture, animal production, hunting, forestry and fishery – product Computing software and I&D)
36000	Changes in stocks		x	Production structure of related products
37000	Capital transfer		x	(see introduction of point 6) MAM – IFAP – for years before 2010, the related productions were used to allocate the capital transfer by region (plantation of vineyard and olive trees, cattle, sheep, tobacco, fruits, etc.)