

# AGRICULTURE AND NATIONAL ACCOUNTS

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# Overview

- ❑ The Statistical classification of economic activities in the European Community (NACE rev.2)
- ❑ National Accounts (Central Framework) and Economic Accounts for Agriculture – EAA
- ❑ The “Bridge Table”
- ❑ Some Agriculture figures for Italy and EU28
- ❑ Main sources. Sectoral statistics
- ❑ The estimate of output for Agriculture, Forestry and Fishing
- ❑ The estimate of intermediate consumption for Agriculture, Forestry and Fishing
- ❑ Indicator A (index of the real income of factors in agricultural per annual work unit)

# The Statistical classification of economic activities in the European Community (NACE rev.2)

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## A AGRICULTURE, FORESTRY AND FISHING

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### 01 Crop and animal production, hunting and related service activities

01.1 Growing of non-perennial crops

01.2 Growing of perennial crops

01.3 Plant propagation

01.4 Animal production

01.5 Mixed farming

01.6 Support activities to agriculture and post-harvest crop activities

01.7 Hunting, trapping and related service activities

### 02 Forestry and logging

02.1 Silviculture and other forestry activities

02.2 Logging

02.3 Gathering of wild growing non-wood products

02.4 Support services to forestry

### 03 Fishing and aquaculture

03.1 Fishing

03.2 Aquaculture

## B MINING AND QUARRYING

## C MANUFACTURED PRODUCTS

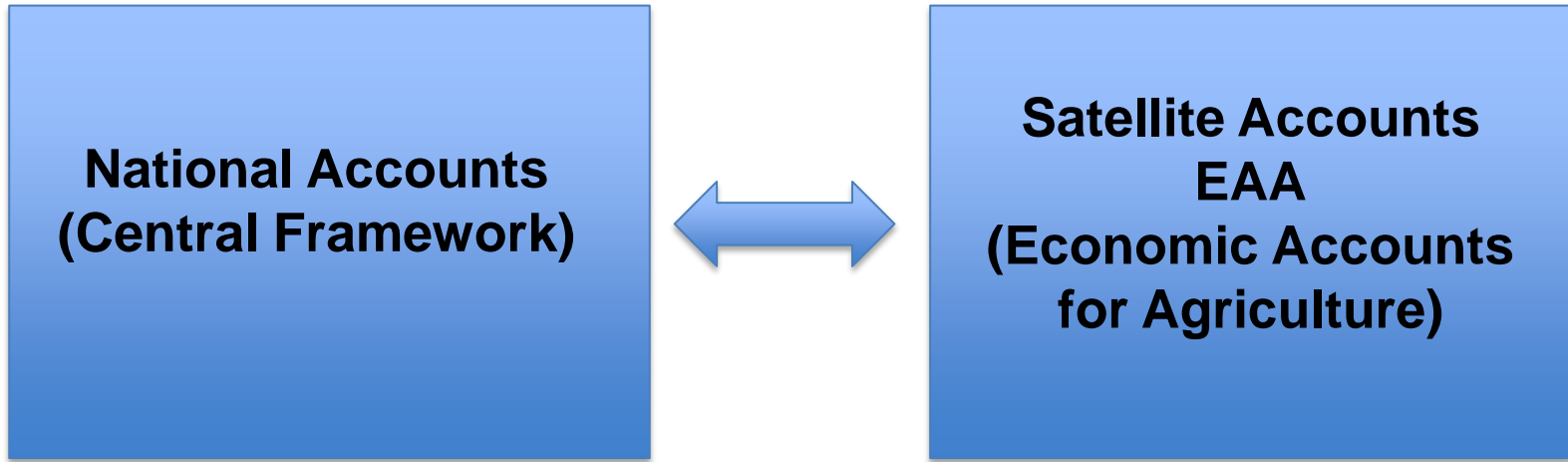
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## U SERVICES PROVIDED BY EXTRATERRITORIAL ORGANISATIONS AND BODIES

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EUROSTAT - RAMON - Reference And Management Of Nomenclatures - <http://ec.europa.eu/eurostat/ramon/>

# National Accounts



Consistency between NA and EAA is obtained via an annual “**bridge table**” elaborated with reference to each year.

# National Accounts (Central Framework)

## Quarterly National Account

- Preliminary GDP flash t+30 days
- GDP flash t+45 days
- GDP and main aggregates t+60 days

## Annual National Account

Regulation 549/2013 (European system of national and regional accounts in the European Union)

- March
- September

# Economic Accounts for Agriculture - EAA

The main purpose of the EAA is to analyze the production process and the generated primary income.

Satellite account providing complementary information and concepts adapted to the particular nature of the agricultural industry.

Regulation 138/2004.

Timeliness and high level of detail.

# EAA Regulation 138/2004 – transmission deadlines

	Transmission date via eDamis	Reg. CE 138/2004	Gentlemen's agreement	eDamis DATASET
<b>EAA First Estimates 2015</b>	30 November 2015	X	-	COSAEA_AGR1_A
<b>EAA Second Estimates 2015</b>	31 January 2016	X	-	COSAEA_AGR2_A
<b>EAA Constant n-1 prices Final – 2015</b>	30 September 2016	X	-	COSAEA_AGR3CON_A
<b>EAA Current prices Final – 2015</b>		X	-	COSAEA_AGR3CUR_A
<b>UV (unit Values) 2015</b>		-	X	COSAEA_UV_BP_A
<b>EAA Regional data 2014</b>		-	X	COSAEA_REGION_A
<b>ALI (Labour Input) final 2015</b>		X	-	COSAEA_ALI3_A

# The “Bridge table”: differences between the central framework of NA and EAA

## PRODUCTION

AGGREGATES	Central framework NA (ESA 2010) (review 2014)	Satellite account EAA
Wine	Wine from own grapes	Wine made by cooperatives included
Oil	Pressed oil made from own olives	Pressed oil made by cooperatives included
Kitchen gardens	Included	Not included
Small animal farming	Included	Not included
Seeds for research, certification and experiments	Included	Not included
Christmas trees and others	Not included	Included
Very small production enterprises	Included	Not included
<b>Associated activities, including:</b>		
- land and landscape preservation	Included	Included
- use and rental of third party farming machines, with staff (pure sub-contracting)	Included	Not included
- first processing of product	Included	Included



# The “Bridge table”: differences between the central framework of NA and EAA

## INTERMEDIATE CONSUMPTION

AGGREGATES	Central framework NA (ESA 2010) (review 2014)	Satellite account EAA
Expenses for energy, fertilizer, animal feedstuffs, pesticides, other goods and services (very small enterprises)	Included	Non included
Expenses for wine and oil processing (cooperatives), milk, fruit and other	Non included	Included
Agricultural tourism	Included	Included
Expenses for bottling and marketing of wine and oil	Own production only	Including cooperatives wine and oil expenses
Expenses for packaging, first processing of the product and arrangement for the markets	included	included

## Some data: principals EAA aggregates in EU28 year 2013 (million EUR)

	Ue28	Germany	Spain	France	Italy	Poland	Others
Agricultural Goods Output	390,968.12	55,078.00	42,353.57	67,733.80	48,523.13	22,962.36	154,317.26
Agricultural Services Output	19,262.66	2,005.00	468.73	4,395.20	4,670.95	490.06	7,232.72
Secondary Activities (Inseparable)	15,354.44	152.00	1,242.35	2,083.70	4,322.81	219.20	7,334.38
<b>Output Of The Agricultural 'Industry'</b>	<b>425,585.22</b>	<b>57,235.00</b>	<b>44,064.65</b>	<b>74,212.70</b>	<b>57,516.89</b>	<b>23,671.63</b>	<b>168,884.35</b>
Total Intermediate Consumption	253,891.07	36,517.00	21,445.29	47,781.10	24,426.74	14,244.13	109,476.81
<b>Gross Value Added At Basic Prices</b>	<b>171,694.17</b>	<b>20,718.00</b>	<b>22,619.35</b>	<b>26,431.60</b>	<b>33,090.15</b>	<b>9,427.49</b>	<b>59,407.58</b>
Fixed Capital Consumption	61,069.77	9,045.00	5,021.52	11,155.67	12,245.34	1,545.52	22,056.72
<b>Net Value Added At Basic Prices</b>	<b>110,624.40</b>	<b>11,673.00</b>	<b>17,597.83</b>	<b>15,275.93</b>	<b>20,844.81</b>	<b>7,881.98</b>	<b>37,350.85</b>
Other Taxes On Production	4,901.41	216.00	314.17	1,599.82	594.10	576.31	1,601.01
Other Subsidies On Production	52,262.71	7,285.00	5,877.83	8,086.74	4,796.50	3,855.08	22,361.56
<b>Factor Income</b>	<b>157,985.70</b>	<b>18,742.00</b>	<b>23,161.50</b>	<b>21,762.85</b>	<b>25,047.21</b>	<b>11,160.75</b>	<b>58,111.39</b>
<b>Entrepreneurial Income</b>	<b>100,979.57</b>	<b>10,865.00</b>	<b>17,858.95</b>	<b>10,770.77</b>	<b>15,597.34</b>	<b>9,739.97</b>	<b>36,147.54</b>
Gross Fixed Capital Formation (Excluding Deductible Vat)	57,983.15	7,945.00	4,219.26	12,270.95	8,412.01	1,087.05	24,048.88

# Some Agriculture figures for Italy

## At national level:

- Agriculture, forestry and fishing represents 2.1% of total value added at basic prices.

## At European level:

- Italian agriculture is the second in EU28 in terms of *Output Of The Agricultural 'Industry'*
- Italian agriculture is the first in EU28 in terms of *Net Value Added At Basic Prices*

# Transmission programme of EAA data Reg 138/2004

- **Timeliness**: with reference to a **year n**, the transmission programme of EAA data is:
  - First estimates: November n
  - Second estimates: January (n+1)
  - Final Data: September (n+1)
- **High level of detail**

# Transmission programme of EAA data Reg 138/2004

Item	List of variables	Transmission concerning reference year n		
		November year N (estimates)	January year n+1 (estimates)	September year n+1
<b>1. Production account</b>				
<b>01</b>	<b>Cereals (including seeds)</b>	<b>X</b>	<b>X</b>	<b>X</b>
01.1	Wheat and spelt	X	X	X
01.1/1	Soft wheat and spelt	—	—	X
01.1/2	Durum wheat	—	—	X
01.2	Rye and meslin	X	X	X
01.3	Barley	X	X	X
01.4	Oats and summer cereal mixtures	X	X	X
01.5	Grain maize	X	X	X
01.6	Rice	X	X	X
01.7	Other cereals	X	X	X
<b>02</b>	<b>Industrial crops</b>	<b>X</b>	<b>X</b>	<b>X</b>
02.1	Oil seeds and oleaginous fruits (including seeds)	X	X	X
02.1/1	Rape and turnip rape seed	—	—	X
02.1/2	Sunflower	—	—	X
02.1/3	Soya	—	—	X
02.1/4	Other oleaginous products	—	—	X
02.2	Protein crops (including seeds)	X	X	X
02.3	Raw tobacco	X	X	X
02.4	Sugar beet	X	X	X
02.5	Other industrial crops	X	X	X
02.5/1	Fibre plants	—	—	X
02.5/2	Hops	—	—	X
02.5/3	Other industrial crops: others	—	—	X

# Transmission programme of EAA data Reg 138/2004

Item	List of variables	Transmission concerning reference year n		
		November year N (estimates)	January year n+1 (estimates)	September year n+1
<b>03</b>	<b>Forage plants</b>	<b>X</b>	<b>X</b>	<b>X</b>
03.1	Fodder maize	—	—	X
03.2	Fodder root crops (including forage beet)	—	—	X
03.3	Other forage plants	—	—	X
<b>04</b>	<b>Vegetables and horticultural products</b>	<b>X</b>	<b>X</b>	<b>X</b>
04.1	Fresh vegetables	X	X	X
04.1/1	Cauliflower	—	—	X
04.1/2	Tomatoes	—	—	X
04.1/3	Other fresh vegetables	—	—	X
04.2	Plants and flowers	X	X	X
04.2/1	Nursery plants	—	—	X
04.2/2	Ornamental plants and flowers (including Christmas trees)	—	—	X
04.2/3	Plantations	—	—	X
<b>05</b>	<b>Potatoes (including seeds)</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>06</b>	<b>Fruits</b>	<b>X</b>	<b>X</b>	<b>X</b>
06.1	Fresh fruit	X	X	X
06.1/1	Dessert apples	—	—	X
06.1/2	Dessert pears	—	—	X
06.1/3	Peaches	—	—	X
06.1/4	Other fresh fruit	—	—	X

# Transmission programme of EAA data Reg 138/2004

Item	List of variables	Transmission concerning reference year n		
		November year N (estimates)	January year n+1 (estimates)	September year n+1
06.2	Citrus fruits	X	X	X
06.2/1	Sweet oranges	—	—	X
06.2/2	Mandarins	—	—	X
06.2/3	Lemons	—	—	X
06.2/4	Other citrus fruits	—	—	X
06.3	Tropical fruit	X	X	X
06.4	Grapes	X	X	X
06.4/1	Dessert grapes	—	—	X
06.4/2	Other grapes	—	—	X
06.5	Olives	X	X	X
06.5/1	Table olives	—	—	X
06.5/2	Other olives	—	—	X
<b>07</b>	<b>Wine</b>	<b>X</b>	<b>X</b>	<b>X</b>
07.1	Table wine	—	—	X
07.2	Quality wine	—	—	X
<b>08</b>	<b>Olive oil</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>09</b>	<b>Other crop products</b>	<b>X</b>	<b>X</b>	<b>X</b>
09.1	Vegetable materials used primarily for plaiting	—	—	X
09.2	Seeds	—	—	X
09.3	Other crop products: others	—	—	X
<b>10</b>	<b>Crop output (01 to 09)</b>	<b>X</b>	<b>X</b>	<b>X</b>

# Transmission programme of EAA data Reg 138/2004

Item	List of variables	Transmission concerning reference year n		
		November year N (estimates)	January year n+1 (estimates)	September year n+1
<b>11</b>	<b>Animals</b>	<b>X</b>	<b>X</b>	<b>X</b>
11.1	Cattle	X	X	X
11.2	Pigs	X	X	X
11.3	Equines	X	X	X
11.4	Sheep and goats	X	X	X
11.5	Poultry	X	X	X
11.6	Other animals	X	X	X
<b>12</b>	<b>Animal products</b>	<b>X</b>	<b>X</b>	<b>X</b>
12.1	Milk	X	X	X
12.2	Eggs	X	X	X
12.3	Other animal products	X	X	X
12.3/1	Raw wool	—	—	X
12.3/2	Silkworm cocoons	—	—	X
12.3/3	Other animal products: others	—	—	X
<b>13</b>	<b>Animal output (11+12)</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>14</b>	<b>Agricultural goods output (10+13)</b>	<b>X</b>	<b>X</b>	<b>X</b>
15	Agricultural services output	X	X	X
15.1	Agricultural services	—	—	X
15.2	Renting of milk quota	—	—	X
<b>16</b>	<b>Agricultural output (14+15)</b>	<b>X</b>	<b>X</b>	<b>X</b>
17	Non-agricultural secondary activities (inseparable)	X	X	X
17.1	Processing of agricultural products	X	X	X
17.2	Other inseparable secondary activities (goods and services)	X	X	X
<b>18</b>	<b>Output of the agricultural industry (16+17)</b>	<b>X</b>	<b>X</b>	<b>X</b>



# Transmission programme of EAA data Reg 138/2004

Item	List of variables	Transmission concerning reference year n		
		November year N (estimates)	January year n+1 (estimates)	September year n+1
<b>19</b>	<b>Total intermediate consumption</b>	<b>X</b>	<b>X</b>	<b>X</b>
19-01	Seeds and planting stock	X	X	X
19.02	Energy; lubricants	X	X	X
19.02/1	— electricity	—	—	X
19.02/2	— gas	—	—	X
19.02/3	— other fuels and propellants	—	—	X
19.02/4	— other	—	—	X
19,03	Fertilizers and soil improvers	X	X	X
19,04	Plant protection products and pesticides	X	X	X
19,05	Veterinary expenses	X	X	X
19,06	Animal feedingstuffs	X	X	X
19.06/1	— feedingstuffs supplied by other agricultural holdings	X	X	X
19.06/2	— feedingstuffs purchased from outside the agricultural industry	X	X	X
19.06/3	— feedingstuffs produced and consumed by the same holding	X	X	X
19.07	Maintenance of materials	X	X	X
19.08	Maintenance of buildings	X	X	X
19.09	Agricultural services	X	X	X
19.10	Other goods and services	X	X	X

# Transmission programme of EAA data Reg 138/2004

Item	List of variables	Transmission concerning reference year n		
		November year N (estimates)	January year n+1 (estimates)	September year n+1
<b>20</b>	<b>Gross value added at basic prices (18-19)</b>	<b>X</b>	<b>X</b>	<b>X</b>
21	Fixed capital consumption	X	X	X
21.1	Equipment	—	—	X
21.2	Buildings	—	—	X
21.3	Plantations	—	—	X
21.4	Others	—	—	X
<b>22</b>	<b>Net value added at basic prices (20-21)</b>	<b>X</b>	<b>X</b>	<b>X</b>
<b>2. Generation of income account</b>				
23	Compensation of employees	X	X	X
24	Other taxes on production	X	X	X
25	Other subsidies on production	X	X	X
26	Factor income (22-24+25)	X	X	X
27	Operating surplus/mixed income (22-23-24+25)	X	X	X
<b>3. Entrepreneurial income account</b>				
28	Rents and other real estate rental charges to be paid	X	X	X
29	Interest paid	X	X	X
30	Interest received	X	X	X
31	Entrepreneurial income (27-28-29+30)	X	X	X

# Transmission programme of EAA data Reg 138/2004

Item	List of variables	Transmission concerning reference year n		
		November year N (estimates)	January year n+1 (estimates)	September year n+1
<b>4. Elements of the capital account</b>				
32	GFCF in agricultural products	—	—	X
32.1	GFCF in plantations	—	—	X
32.2	GFCF in animals	—	—	X
33	GFCF in non-agricultural products	—	—	X
33.1	GFCF in materials	—	—	X
33.2	GFCF in buildings	—	—	X
33.3	Other GFCF	—	—	X
34	Gross fixed capital formation (excluding deductible VAT) (32+33)	—	—	X
35	Net fixed capital formation (excluding deductible VAT) (34-21)	—	—	X
36	Changes in stocks	—	—	X
37	Capital transfers	—	—	X
37.1	Investment grants	—	—	X
37.2	Other capital transfers	—	—	X
<b>5. Agricultural labour input</b>				
38	Total agricultural labour input	X	X	X
38.1	Non-salaried agricultural labour input	X	X	X
38.2	Salaried agricultural labour input	X	X	X

## Main sources. Sectoral statistics (1/3)

- Estimate of crop, flower and pot plants production and area
- Areas and production of tobacco, rice and sugar beet collected by sugar factories
- Monthly report on production prices of products sold by farmers
- Monthly report on prices of products purchased by farmers
- Survey on livestock
- Monthly slaughtering of animals for red meat
- Monthly slaughtering of animals for white meat
- Monthly survey on milk and dairy products
- Economic outcomes of agricultural holdings RICA-REA (FADN)

## Main sources. Sectoral statistics (2/3)

- Distribution of fertilizers for agricultural purposes
- Distribution of plant protection products for agricultural purposes
- Report on production and distribution of complete and complementary feeding stuff
- Report on seed distribution
- Report on certified seeds
- Survey on felling surfaces and wood and non-wood removals from forest
- Survey on lagoon and sea fishing products
- Aquaculture survey

## Main sources. Sectoral statistics (3/3)

- Survey on rural tourism accommodations
- National Energy Balance
- Energy consumption by final consumption sector and type of energy source
- Energy from renewable source plants (biomasses, photovoltaic, biogas)

## The estimate of output for Agriculture (div.01)

The “**quantity by price**” method is used: the quantity of each product is multiplied by its average annual price per unit.

Quantities are provided by the survey “Estimate of crop, flower and pot plant production and area (IST02049)”.

Prices are collected through a specific survey called “Monthly report of production prices of products sold by farmers” (*IST00106*).

The average prices (producer prices) are then increased by the subsidies on products and at the same time taxes on product are deducted.

The “quantity by price” method now allows to obtain for each product the value of output at basic price.

## An example: cereal group (including rice) - Year 2011

	Quantity (000 t.)	Basic price (EUR for t.)	Current values (million EUR)
<b>CEREALS</b>			<b>5373.5</b>
- Common wheat	2845.3	248.14	706.0
- Durum wheat	3796.8	339.12	1287.6
- Rye	14.4	170.31	2.5
- Barley	951.1	213.38	202.9
- Oats	296.8	209.39	62.1
- Rice (paddy rice)	1555.8	310.68	483.3
- domestic maize	8.0	263.97	2.1
- hybrid maize	9752.7	227.29	2216.7
- other cereals (sorghum, spelt, triticale, other)	375.8	453.44	170.4
- Straws	6704.3	35.78	239.9



# The estimate of output for Agriculture (div.01)

The method (**quantity by price**) is used also:

- to estimate other agricultural products, such as industrial crops, vegetables and horticultural products, fresh fruit and citrus fruit.
- to estimate animal and animal products:
  - Quantities, including in-progress production, are derived from specific surveys on enterprises: the most relevant are the slaughterhouses for meat (“Monthly slaughtering of animals for red meat”) and dairies for dairy products (“Monthly survey on milk and dairy products”).
  - Prices are collected by provincial Chambers of Commerce and Industry through the survey “Monthly report of production prices of products sold by farmers”.

# Support and secondary activities

- **traditional activities**
  - agritourism
  - transformation of products (e.g. milk, fruit, meat...)
- **emerging activities**
  - production of renewable energy (photovoltaic, biogas and biomass)
  - educational farms, recreational activities and social farming
  - direct sales/marketing
  - parks and gardens maintenance
  - production of feedstuffs

The output is included in the value of output of agriculture, to account for the **multi-functionality** of farms (both Central framework and EAA).

All support and secondary activities have reached a significant impact (about 20% of total agricultural output in the year 2011).

# Table of domestic production, NACE rev.2 Section A - Year 2011 (million EUR)

A 256	DESCRIPTION	Growing of crops, plant propagation and support agriculture	Animal production, hunting and related service	Forestry and logging	Fishing and aquaculture	Wholesale Retail trade, trade, except of motor vehicles and motorcycles	except of motor vehicles and motorcycles	Libraries, archives, museums and activities	TOTAL
1	Cereals	4.811,5	0,0	0,0	0,0	322,2	0,0	0,0	5.133,7
2	Fruits and vegetables	16.498,8	0,0	0,0	0,0	339,3	75,7	0,0	16.913,8
3	Products of agriculture for intermediate use	2.605,1	0,0	0,0	0,0	0,0	0,0	0,0	2.605,1
4	Cannabis	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	Plant nursery products	2.743,8	0,0	0,0	0,0	68,7	0,8	2,8	2.816,0
6	Live animals and animal products for final use	0,0	1.162,2	0,0	0,0	35,8	134,9	0,0	11.332,9
7	Live animals and animal products for intermediate use	0,0	5.003,9	0,0	0,0	0,0	0,0	0,0	5.003,9
8	Agricultural and animal husbandry services	5.898,8	0,0	0,0	0,0	0,0	0,0	0,0	5.898,8
9	Products of forestry, logging and related services	0,0	0,0	1.478,1	0,0	0,0	0,0	0,0	1.478,1
10	Fish and other fishing products	8,4	0,0	0,0	2.098,9	0,0	47,6	0,0	2.154,9
19	Preserved meat and meat products	0,0	317,8	0,0	0,0				317,8
21	Processed and preserved fruit and vegetables	157,8	0,0	0,0	0,0				157,8
22	Vegetable and animal oils and fats	0,0	0,0	0,0	0,0				0,0
23	Dairy products	0,0	301,4	0,0	0,0				301,4
30	Sub-contracted operations as part of manufacturing of food products	195,9	0,0	0,0	0,0				195,9
47	Products of wood for intermediate use	59,0	0,0	0,0	0,0				59,0
142	Electricity, transmission and distribution services	847,7	0,0	0,0	0,0				847,7
160	Retail trade services (except of automotive fuel)	265,0	0,0	0,0	0,0				265,0
182	Other accommodation services	1.164,0	0,0	0,0	0,0				1.164,0
226	Services to buildings and landscape	328,4	0,0	0,0	0,0				328,4
	<b>TOTAL</b>	<b>35.584,0</b>	<b>16.785,3</b>	<b>1.478,1</b>	<b>2.098,9</b>	<b>766,0</b>	<b>259,1</b>	<b>2,8</b>	<b>56.974,2</b>

## An example: electricity production from renewable energy (photovoltaic, biomass, biogas)

The approach used is basically **quantity by price**.

Data on the **electricity** produced in KW/h for the main economic activity sectors (agriculture, manufacturing, services) are provided by Italian Energy Services Manager (GSE in Italian).

The quantities in the agricultural sector are evaluated through the average market price, including any subsidies on products.

The same method applies to **biogas**, a technique created to contribute to the disposal of livestock waste (cattle and pigs) as well as **biomasses** from raw farming materials, such as maize or sorghum, which were heavily incentivized.

The impact of renewable energies (mainly photovoltaic) was particularly significant in the period 2010–2013 due to production incentives.

# The estimate of intermediate consumption for Agriculture (div.01)

Most of the items of intermediate consumption listed in the EAA technical manual refer almost exclusively to agriculture .

Seeds, fertilizers, feeds, plant protections and energy are the main items.

The approach used is basically **quantity by price**.

The quantities are taken from statistical surveys that collect detailed data for each item. The prices used are those collected through the survey on prices of products purchased by farmers.

The other expenses, such as agricultural services and other goods and services, are estimated through specific elaborations on FADN survey data.

# The estimate of output for forestry (div.02)

The output of **forestry** is calculated with a **quantity by price** approach of tree removals, by applying to each type of wood (manufacturing wood or wood for energy purposes) the corresponding prices.

According to the NACE Rev.2 classification, the evaluation of the vegetable and fruit picking from woods (previously included in agriculture – division 01) is now included in the output of division 02.

# The estimate of intermediate consumption for forestry (div.02 )

The estimation of intermediate consumption of **forestry** includes:

- forest seedlings of forest essences
- maintenance equipment
- expenses for extraction and forestry fees.

The approach used is **quantity by price** using the data of survey run on a sample of forestry farms.

The costs for energy are estimated through processing data of the Italian national energy balance (BEN).

# The estimate of output for fishing (div. 03)

The output of **fishing** is calculated via a **quantity by price** approach.

Data on catches (distinguished among finfish, shellfish and crustaceans) are integrated with other sources and are valued with the corresponding average prices.

The production from aquaculture is also included in the estimates of the sector.



## The estimate of intermediate consumption for fishing (div. 03)

More than 50% concerns the **energy component** (diesel fuel for fishing vessels). This component is estimated through data collected from the Italian national energy balance (BEN).

The items of intermediate consumption related to aquaculture (for example costs for networks, specific feeds and aquaculture tanks) are estimated using specific survey data on aquaculture.

# Indicator A

Index of the real income of factors in agricultural per annual work unit

$$\text{Indicator A} = ((F_n / (D/100))/F_{n-1})/(L_n/L_{n-1})-1$$

F = Factor Income

D = Price Index of GDP

L = Total Agricultural Labour Input (in 1000 AWU)

# Indicator A

## EAA first & second estimates (agricultural income index exercise)

IT	◀ Country	2016						◀ Year
English (en)	◀ Language	-7,65%						◀ INDICATOR A
0	◀ VALUE AT BASIC PRICES aggregation errors	0						◀ GDP Price index (not between 80 and 120)
0	◀ ITEMS aggregation errors	1						◀ INDEXES rounding warnings
Code	Label	Value 2015	Volume index	Volume 2016	Price index	Value 2016	Value index	
20000	GROSS VALUE ADDED AT BASIC PRICES	32238,9	99,22	31986,6	94,3	30168,6	93,6	
...	...	...	...	...	...	...	...	
26000	<b>FACTOR INCOME</b>	<b>23299,4</b>				<b>22095,9</b>	94,8	
27000	OPERATING SURPLUS/MIXED INCOME	15966,7				14491,8	90,8	
28000	RENTS AND OTHER REAL ESTATE RENTAL CHARGES TO BE PAID	1497,9				1508,4	100,7	
29000	INTEREST PAID	980,2				966,4	98,6	
30000	INTEREST RECEIVED	0,0				0,0		
31000	ENTREPRENEURIAL INCOME	13488,6				12017,0	89,1	
40000	<b>TOTAL AGRICULTURAL LABOUR INPUT (IN 1000 AWU)</b>	<b>1119,8</b>				<b>1139,1</b>	101,7	
41000	NON SALARIED AGRICULTURAL LABOUR INPUT (IN 1000 AWU)	771,0				779,5	101,1	
42000	SALARIED AGRICULTURAL LABOUR INPUT (IN 1000 AWU)	348,8				359,6	103,1	
	<b>PRICE INDEX OF GDP</b>				<b>100,95</b>			

$$\text{Indicator A} = ((22095,9 / (100,95/100))/23299,4)/(1139,1/1119,8)-1 = - 0,0765$$

# How to find Agriculture National Accounts data

## Istat datawarehouse (<http://dati.istat.it>)

- National Accounts
  - Regional Accounts
    - Production, intermediate consumption, gross value added in agriculture, forestry and fishing (Nace rev.2)

## Eurostat database (<http://ec.europa.eu/eurostat/data/database>)

- Agriculture, forestry and fisheries
  - Economic Accounts for Agriculture
  - Agricultural Labor Input Statistics
  - Unit value statistics for agricultural products
- Regional Agricultural Statistics
  - Agricultural accounts according to EAA 97 by NUTS 2 regions

Istat Statistics

dati.istat.it/?lang=en&SubSessionId=1a2e2de9-0ebd-4a0c-aec8-16d9ab79a458&themetreeid=-200

your direct access to the Italian Statistics

Search  Getting Started

Justice and Security  
Citizens' opinions and satisfaction with life  
Social participation  
National Accounts  
Annual national accounts  
Quarterly national accounts  
Regional accounts  
Sequence of accounts (millions of euro)  
Gross domestic product supply side (millions of euro)  
Value added by industry (millions of euro)  
Compensation of employees and its components by industry (millions of euro)  
final consumption expenditure of household on economic territory by COICOP and durability (millions of euro)  
Final consumption expenditure of general government by function  
Gross fixed capital formation breakdown by industry (millions of euro)  
Gross fixed capital formation by asset (P51)  
Per capita values (euros)  
Employment breakdown by industry (NACE Rev.2) - annual territorial data  
Disposable income of the households in the Italian regions (million of euro)  
Production, intermediate consumption, gross value added in agriculture, forestry and fishing (Nace rev.2)  
Production and value added at basic prices of agriculture, forestry and fishery (thousands of euro)  
Goods and services production by vegetable and animal products, hunting and related services (thousands of euro)  
Intermediate consumption of vegetable and animal products, hunting and related services industry (thousands of euro)

## Production, intermediate consumption, gross value added in agriculture, forestry and fishing (Nace rev.2)

Customise Export Draw chart My Queries

→ Territory: Italy

→ Group of products and main products: all items

→ Valuation: current prices

→ Adjustment: raw data

→ Edition: Jun-2016

→ Year		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
→ Breakdown by industry (NACE Rev.2)																	
→ Aggregate																	
■ agriculture, forestry and fishing	output i	49 775 313	51 125 436	50 916 637	51 913 498	54 286 945	50 018 865	50 307 614	52 144 000	54 653 436	50 730 534	51 486 038	55 953 047	57 521 440	59 738 130	56 833 586	57 663 823
	intermediate consumption at purchasers' prices	18 144 979	18 858 187	19 096 946	19 231 540	20 324 056	19 792 306	20 270 858	21 711 664	24 182 052	22 580 980	23 069 373	25 072 876	25 823 529	26 125 759	25 489 708	24 569 031
	gross value added i	31 630 334	32 267 248	31 817 692	32 681 958	33 962 888	30 226 558	30 036 756	30 432 336	30 471 384	28 149 554	28 416 665	30 880 172	31 697 911	33 612 371	31 343 878	33 094 792
	■ output i	46 957 724	48 331 678	47 880 025	48 682 593	50 984 060	46 676 438	46 641 094	48 605 644	51 461 842	47 456 241	48 115 637	52 367 958	54 199 526	56 459 964	53 609 204	54 438 035
crop and animal production, hunting and related service activities	goods and services output by product	45 703 881	47 348 049	47 138 153	47 710 882	50 010 476	45 676 936	45 425 541	46 976 351	49 660 244	45 633 191	46 169 715	49 704 260	50 969 916	53 131 892	50 320 956	51 251 635
	(+) secondary activities i	1 917 062	2 041 628	2 013 181	2 086 050	2 112 998	2 055 236	2 263 717	2 558 608	2 739 556	2 759 785	2 860 881	3 643 936	4 199 123	4 322 809	4 229 748	4 143 900
	(-) secondary activities i	663 219	1 057 999	1 271 309	1 114 339	1 139 415	1 055 734	1 048 163	929 316	937 958	936 734	914 958	980 238	969 514	994 737	941 500	957 500
	intermediate consumption at purchasers' prices	17 384 257	18 113 866	18 362 446	18 477 402	19 545 721	18 986 229	19 404 332	20 872 740	23 314 420	21 771 720	22 205 604	24 122 729	24 832 565	25 045 130	24 390 978	23 547 456
forestry and logging	gross value added i	29 573 467	30 217 812	29 517 579	30 205 191	31 438 339	27 690 208	27 236 762	27 732 903	28 147 421	25 684 521	25 910 033	28 245 229	29 366 961	31 414 834	29 218 226	30 890 579
	■ output i	865 844	858 094	970 181	1 052 042	1 121 361	1 135 336	1 281 961	1 254 368	1 273 067	1 237 962	1 270 661	1 477 797	1 393 180	1 563 610	1 509 616	1 524 393
	goods and services output by product	864 844	856 994	969 081	1 051 042	1 120 261	1 134 236	1 280 861	1 256 070	1 274 567	1 238 078	1 270 778	1 478 111	1 393 294	1 563 724	1 509 730	1 524 507
	(+) secondary activities i	1 000	1 100	1 100	1 000	1 100	1 100	1 100	1 100	0	0	0	0	0	0	0	0
fishing and aquaculture	(-) secondary activities i	0	0	0	0	0	0	0	1 702	1 500	116	117	314	114	114	114	114
	intermediate consumption at purchasers' prices	117 382	120 577	118 477	134 447	137 134	142 378	156 256	151 564	153 062	142 726	147 891	164 361	168 880	301 322	292 600	289 451
	gross value added i	748 462	737 517	851 704	917 595	984 227	992 958	1 125 705	1 102 804	1 120 005	1 095 235	1 122 770	1 313 436	1 224 300	1 262 288	1 217 016	1 234 942
	■ output i	1 951 744	1 935 664	2 066 431	2 178 863	2 181 524	2 207 091	2 384 559	2 283 989	1 918 527	2 036 331	2 099 740	2 107 293	1 928 734	1 714 556	1 714 766	1 701 395
goods and services production by vegetable and animal products, hunting and related services (thousands of euro)	goods and services output by product	1 976 440	1 991 694	2 093 674	2 199 429	2 202 519	2 229 708	2 406 091	2 332 659	1 969 734	2 087 211	2 150 094	2 154 916	1 972 908	1 753 591	1 752 903	1 739 112
	(+) secondary activities i	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(-) secondary activities i	24 695	56 031	27 243	20 566	20 995	22 617	21 532	48 670	51 207	50 881	50 354	47 623	44 174	39 035	38 137	37 717
	intermediate consumption at purchasers' prices	643 340	623 744	618 023	619 691	641 201	663 699	710 270	687 360	714 569	666 534	715 877	785 786	822 085	779 307	806 130	732 124
intermediate consumption of vegetable and animal products, hunting and related services industry (thousands of euro)	gross value added i	1 308 405	1 311 919	1 448 408	1 559 172	1 540 323	1 543 392	1 674 289	1 596 629	1 203 958	1 369 797	1 383 863	1 321 507	1 106 649	935 249	908 636	969 271

Data extracted on 17 Feb 2017 12:37 UTC (GMT) from I.Stat

# <http://ec.europa.eu/eurostat/data/database>

The screenshot shows the Eurostat Database website interface. The browser address bar displays [ec.europa.eu/eurostat/data/database](http://ec.europa.eu/eurostat/data/database). The page header includes the Eurostat logo, the text "Your key to European statistics", and navigation links for "Legal notice", "RSS", "Cookies", "Links", "Contact", and a language selector set to "English". A search bar is present with the placeholder text "Type a keyword, a code, a title...".

The main navigation menu is divided into "News", "Data", "Publications", "About Eurostat", and "Help". Below this, the "DATABASE" section is active, showing a "Data Navigation Tree".

The left sidebar contains a "DATA" menu with the following items:

- DATABASE
- Information
- Browse statistics by theme
- Statistics A - Z
- Population Census 2011
- Bulk download
- Web Services
  - SDMX Web Services
  - Json and Unicode Web Services
- Access to microdata
- GISCO: Geographical Information and maps
- Metadata
  - Euro-SDMX Metadata Structure (ESMS)
  - Classifications
  - Legislation and methodology
  - Concepts and definitions
  - Glossaries and thesauri
  - National methodologies
  - Standard code lists
- SDMX Info Space
- Data validation

The "Data Navigation Tree" on the right is expanded to show the "Agriculture (agri)" category. The tree structure is as follows:

- Database by themes
  - General and regional statistics
  - Economy and finance
  - Population and social conditions
  - Industry, trade and services
  - Agriculture, forestry and fisheries
    - Agriculture (agri)
      - Farm structure (ef)
      - Economic Accounts for Agriculture (aact)
        - Economic Accounts for Agriculture (aact\_eaa)
          - Economic accounts for agriculture - values at current prices (aact\_eaa01)
          - Economic accounts for agriculture - values at n-1 prices (aact\_eaa02)
          - Economic accounts for agriculture - values at constant prices (2005 = 100) (aact\_eaa03)
          - Economic accounts for agriculture - values at real prices (aact\_eaa04)
          - Economic accounts for agriculture - indices: volume, price, values (aact\_eaa05)
          - Economic accounts for agriculture - agricultural income (indicators A, B, C) (aact\_eaa06)
          - Economic accounts for agriculture - values at constant prices (2010 = 100) (aact\_eaa07)
        - Agricultural Labour Input Statistics (aact\_ali)
          - Agricultural Labour Input Statistics: absolute figures (1 000 annual work units) (aact\_ali01)
          - Agricultural Labour Input Statistics: indices (aact\_ali02)
        - Unit value statistics for agricultural products (aact\_uv)
          - Unit values at basic prices (aact\_uv01)
          - Unit values at producer prices (aact\_uv02)
          - Unit values: quantities (1 000 t) (aact\_uv03)
      - Agricultural prices and price indices (apri)
      - Agricultural production (apro)
      - Organic farming (org)
      - Structure of orchards and vineyards (orch\_vit)
      - Regional Agriculture Statistics (agr\_r)
        - Agricultural accounts according to EAA 97 Rev.1.1 by NUTS 2 regions (agr\_r\_accts)
        - Animal populations (December) by NUTS 2 regions (agr\_r\_animal)
        - Crop statistics by NUTS 2 regions (from 2000 onwards) (agr\_r\_crops)

# Thank you

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