

1. BULGARIA

ECONOM

Table 1.1. Macroeconomic indicators (2015)

Table 1.1. Macroeconomic II	idicators (20	10)			
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	7.153m	6.40	8m	-48 414	
GDP at current prices	Tot	al (m€)		Per capita (€)	
	45	5 286.5		6 300	
Export (m€)		29 0	31.9		
Export/GDP (%)	64%				
Import (m€)	28 965.0				
Import/GDP (%)	64%				
Length of motorways and express-roads (2013, km)		3 5	04		

CONTACT DATA

AGRICULTURE

Table 1.2. Farm indicators (2015)

Gross value added of the agricultural	m€			(2014)
industry	1 620.	/3		5.3%
Output of the agricultural industry (basic and producer prices, m€)	4 033.15			
Share of total utilised agricultural area occupied by organic farming (%)	2.4%			
Landuse (ha)		11 03	7 000	
Utilised agricultural area (2013)	ha		%	
	4 650 9	940		42%
Total number of farms (2013)		254	410	
Average area of a farm (2013, ha)	Aver.	Nati	ural	Legal
	22.0		7.2	644.0
Number of tractors used in 2000-2009	53 100			

Figure 1.1. Landuse for agriculture (2013, %) Agriculture

Figure 1.2. Types of farms (2013, %) 2.3% ■run by legal run by natural

persons

Table 1.3. Employment in agriculture Agriculture in total employment (2014, %) Employment on farms (2013, annual working unit) 320 230

Figure 1.3. Standard output (SO) of farms (2013, €)

42%

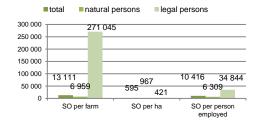


Table 1.4. Top types of plant and animal production compared with FU-28 production (2015)

٥,	
1000t	% of EU-28
5 140.14	3.3%*
2 696.92	4.6%
1 699.23	21.49%
488.5	0.32%
101.25	0.81%*
76.8	0.81%*
	1000t 5 140.14 2 696.92 1 699.23 488.5 101.25

Top 3 plant production area (1000 ha): wheat and spelt (1105.92), sunflower seed (810.84), maize (498.64).

Top 3 % of EU-28 plant and animal production: sunflower seed (21.5%), maize $(4,\!6\%),$ wheat and spelt (3.35%) and fish production (2.38*), meat of poultry (0.81%*), cheese (0.81%*).

Table 1.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture (2015, % all sectors)	11.1%
Total waste generated (2014, t)	378 668
Share of waste recovered (2014, %)	62.2%
Water withdrawal by agriculture (2009, %)	16.3%
Total water withdrawal per capita (2009, m3/yr/cap)	817
Pesticides use (2000-2009, kg/ha)	NA
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	99.5

Figure 1.4. Expenditure on environmental protection by food and beverage sectors (2014)

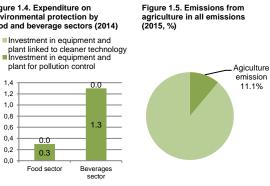
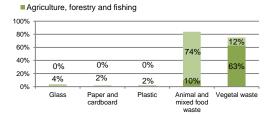


Figure 1.6. Generation of waste by agri-food sector (2014, % of total)

Manufacture of food products: beverages and tobacco products



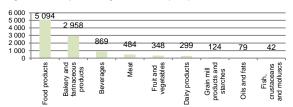
^{*} incomplete data



Table 1.6. Agriculture processing indicators (2014)

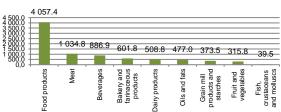
Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	In other EU, EFTA or EU-candidate countries	59	15
	In any other country than EU countries, EFTA or EU-candidate countries	31	12
Total turnover of innovative enterprises in agri-food sector (1000€)		2 247 416	740 175
Innovative enterprises in agri-food sector (%)		28.4%	36.9%

Figure 1.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 30 374

Figure 1.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 28 042

Figure 1.9. Average food and beverage consumption mix (2010, %)

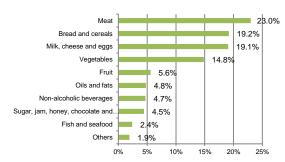
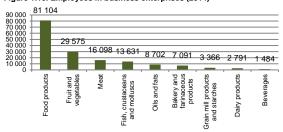


Figure 1.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 536 216

Figure 1.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

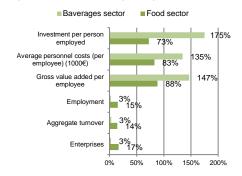


Table 1.7. Research and Development indicators (2014)

Business Expenditures on Research and		€ per inhab.
Development of enterprises in food and beverages sectors	NA	NA
Researchers in business enterprises	6	384
Researchers in food and beverages enterprises		22
Agriculture in public R&D spending (% GBAORD)	16	65%

Table 1.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Figure 1.12. Enterprises engaging in innovation activities (%)

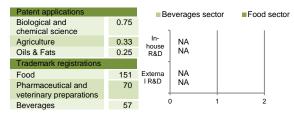


Figure 1.13. Enterprises engaging in cooperation (%)

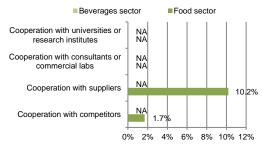


Table 1.9. Barriers to innovations (2014, % of enterprises)

Table 1.9. Barriers to innovations (2014, % of enterprises)						
	Barrier	No compelling reason to innovate	Lack of good ideas	Lack of internal finance	Too much market competition	Difficulties in obtaining government grants or subsidies
	Food sector	82.4%	8.9%	7.4%	6.2%	5.9%
	Beverages sector	NA	10.9%	11.9%	13.9%	11.9%



2. CROATIA

ECONOMY

rable 2.1. Wacroeconomic in	dicators (2015)				
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	4 190 669	3 95	4 893	-34 647	
GDP at current prices	Total	(m€)		Per capita (€)	
	43 846.9			10 400	
Export (m€)	21 912.4				
Export/GDP (%)		5	0%		
Import (m€)	20 706.2				
Import/GDP (%)	47%				
Length of motorways and express-roads (2013, km)	3 489				

CONTACT DATA

AGRICULTURE

Table 2.2. Farm indicators (2015)

. 42.0 2.2 44.04.0.0 (20.0)			
Gross value added of the agricultural	m€	%	(2014)
industry	1 077.66		4.3%
Output of the agricultural industry (basic and producer prices, m€)	2	283.08	
Share of total utilised agricultural area occupied by organic farming (%)	4.9%		
Landuse (ha)	5 659 400		
Utilised agricultural area (2013)	ha		%
	1 571 200)	28%
Total number of farms (2013)	15	57 440	
Average area of a farm (2013, ha)	Aver. Natural		Legal
	11.0	7.7	177.9
Number of tractors used in 2000-2009	4 242		

Figure 2.1. Landuse for agriculture (2013, %)

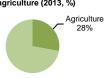


Figure 2.2. Types of farms (2013, %)

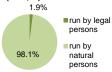


Table 2.3. Employment in agriculture

Agriculture in total employment (2014, %)	9.5%
Employment on farms (2013, annual working unit)	175 050

Figure 2.3. Standard output (SO) of farms (2013, €)

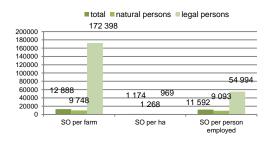


Table 2.4. Top types of plant and animal production compared with

EU-28 production (201	15)	
Plant production	1000t	% of EU-28
Maize	1 709.15	2.9%
Wheat and spelt	762.98	0.5%*
Sugar beet	756.51	0.74%
Animal production		
Milk	513.41	0.34%
Meat of pigs	73	0.32%
Meat of poultry	63.4	0.51%*

Top 3 plant production area (1000 ha): maize (263.97), rape, turnip rape, sunflower seeds and soya (145.34), wheat and spelt (142.68).

Top 3 % of EU-28 plant and animal production: soya (8.05%), maize (2.9%), sunflower seed (1.19%) and fish production (1.08%; 2014), meat of cattle (0.56%*), meat of poultry (0.51%*).

Table 2.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agricult (2015, % all sectors)	ure 14%
Total waste generated (2014, t)	204 708
Share of waste recovered (2014, %)	53%
Water withdrawal by agriculture (2009, %)	1.7%
Total water withdrawal per capita (2009, m3/yr/cap)	143
Pesticides use (2000-2009, kg/ha)	NA
Nitrogen, phosphate and potash fertilizers use (2009, kg/	ha) 226.4

Figure 2.4. Expenditure on environmental protection by food and beverage sectors (2014)

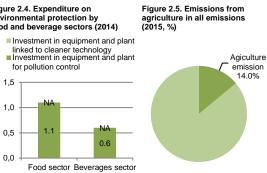
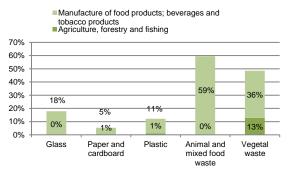


Figure 2.6. Generation of waste by agri-food sector (2014, % of total)



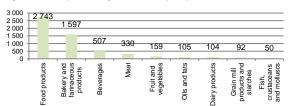
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Table 2.6. Agriculture processing indicators (2014)

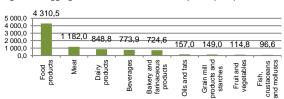
rable 2.0. Agriculture processing indicators (2014)						
Enterprises that sell goods and/or services		Food sector	Beverages sector			
in manufacture sector	In other EU, EFTA or EU-candidate countries	19	NA			
	In any other country than EU countries, EFTA or EU-candidate countries	18	NA			
Total turnover of innovative enterprises in agri-food sector (1000€)		3 066 965	789 160			
Innovative enterprises in agri-food sector (%)		43%	42.1%			

Figure 2.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 20 087

Figure 2.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 16 562.3

Figure 2.9. Average food and beverage consumption mix (2010, %)

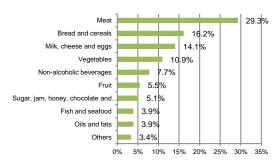
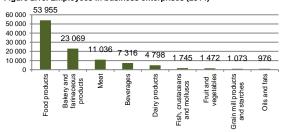
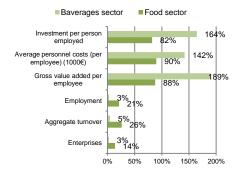


Figure 2.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 254 850

Figure 2.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 2.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	5.666	1.3
Researchers in business enterprises	3 ′	115
Researchers in food and beverages enterprises	2	08
Agriculture in public R&D spending (% GBAORD)	2.1	1%

Table 2.8. Top 3 areas of patent applications to the European
Patent Office and European Union trademark registrations (2012, 2015)

NA

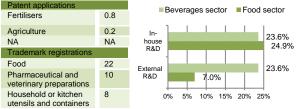


Figure 2.12. Enterprises engaging

in innovation activities (%)

Figure 2.13. Enterprises engaging in cooperation (%)

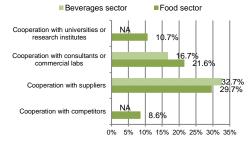


Table 2.9. Barriers to innovations (2014, % or enterprises)							
		No	Difficulties in	Lack of	Lack of	Low	
		compelling	obtaining	internal	credit	market	
		reason to	government	finance	or	demand	
	Barrier	innovate	grants or		private		
			subsidies		equity		
	Food	66.1%	23.4%	22.5%	22.2%	14.7%	
	sector						
	Beverages	75.8%	NA	NA	NA	23.6%	
	sector						



3. CYPRUS

ECONOMY

Table 3.1. Macroeconomic indicators (2015)

Table 3.1. Macroeconomic mulcators (2013)						
Population (1st Jan.)	tion (1st Jan.) 2016 2030 (forecast)			Total popul. change 2015		
	848 319	919 9	997	1 311		
GDP at current prices	Total (m€)		Per capita (€)			
	17	7 637.2		20 800		
Export (m€)		10 79	7.1			
Export/GDP (%)		619	%			
Import (m€)	10 738.1					
Import/GDP (%)	61%					
Length of motorways and express-roads (2013, km)		25	7			

CONTACT DATA

AGRICULTURE

Table 3.2. Farm mulcators (2013)				
Gross value added of the agricultural	m€		% (2014)	
industry	274.74 2.3%			
Output of the agricultural industry (basic and producer prices, m€)	693.44			
Share of total utilised agricultural area occupied by organic farming (%)	3.7%			
Landuse (ha)	925 100			
Utilised agricultural area (2013)		ha	%	
	109	330	12%	
Total number of farms (2013)	35 380			
Average area of a farm (2013, ha)	Aver.	Natura	ıl Legal	
	3.5	3.1	1 31.2	
Number of tractors used in 2000-2009		14 309	9	

Figure 3.1. Landuse for agriculture (2013, %)

Figure 3.2. Types of farms (2013, %)

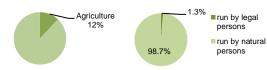


Table 3.3. Employment in agriculture

Agriculture in total employment (2014, %)	3.6%
Employment on farms (2013, annual working unit)	16 550

Figure 3.3. Standard output (SO) of farms (2013, €)

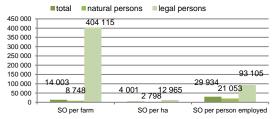


Table 3.4. Top types of plant and animal production compared with

EU-28 production (2015))	
Plant production	1000t	% of EU-28
Citrus fruits	116.96	1.54%*
Fresh vegetables and strawberries	102.57	0.20%*
Potatoes	95.92	0.18%
Animal production		
Milk	172.68	0.11%
Meat of pigs	43.4	0.19%
Meat of poultry	23.78	0.19%*

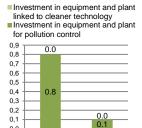
Top 3 plant production area (1000 ha): barley (20.56), wheat and spelt (11.97), olives (10.01).

Top 3 % of EU-28 plant and animal production: citrus fruits (1.54%*), fresh vegetables and strawberries (0.20%*), potatoes (0.18%) and fish production (1.22%*), meat of sheep and goats (0.7%*), production of cheese (0.24%*).

Table 3.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	7.2%
Total waste generated (2014, t)	78 703
Share of waste recovered (2014, %)	57%
Water withdrawal by agriculture (2009, %)	86.4%
Total water withdrawal per capita (2009, m3/yr/cap)	167
Pesticides use (2000-2009, kg/ha)	8.5
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	126.7

Figure 3.4. Expenditure on environmental protection by food and beverage sectors (2014)



Food sector

0.0

Figure 3.5. Emissions from agriculture in all emissions (2015, %)

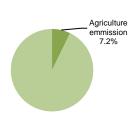
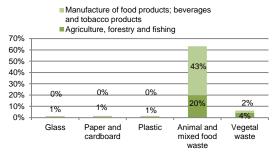


Figure 3.6. Generation of waste by agri-food sector (2014, % of total)

Beverages sector



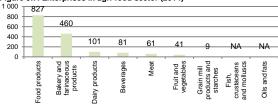
^{*} incomplete data



Table 3.6. Agriculture processing indicators (2014)

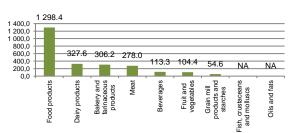
		- · ·,	
Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	In other EU, EFTA or EU-candidate countries	4	0
	In any other country than EU countries, EFTA or EU-candidate countries	2	0
Total turnover of innovative enterprises in agri-food sector (1000€)		544 469	1 046 694
Innovative enterprises in agri-food sector (%)		43.3%	89%

Figure 3.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 5 076

Figure 3.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 2 784.2

Figure 3.9. Average food and beverage consumption mix (2010, %)

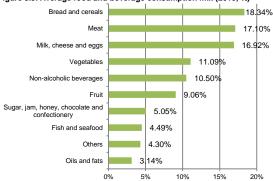
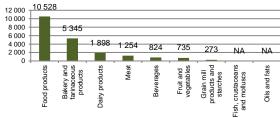


Figure 3.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 27 680

Figure 3.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

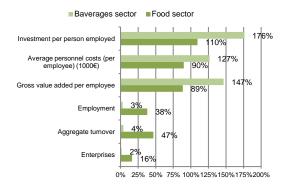


Table 3.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	0.157	0.2
Researchers in business enterprises	4	15
Researchers in food and beverages enterprises	1	0
Agriculture in public R&D spending (% GBAORD)	9.7	'1%

Table 3.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Figure 3.12. Enterprises engaging in innovation activities (%)

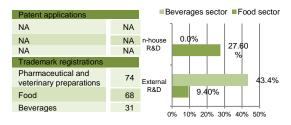


Figure 3.13. Enterprises engaging in cooperation (%)

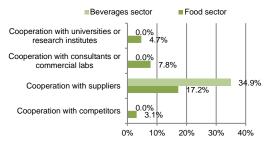


Table 3.9. Barriers to innovations (2014, % of enterprises)

Barrier	No compelling reason to innovate	Lack of internal finance	Lack of credit or private equity	Difficulties in obtaining government grants or subsidies	Too much market competition
Food sector	59.2%	15.9%	14.9%	13.4%	10.7%
Beverages sector	100%	0%	0%	0%	0%



4. CZECH REPUBLIC

ECONOMY

Table 4.1. Macroeconomic in	dicators (2015)			
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015
	10 553 843	10	691 890	15 568
GDP at current prices	Total (r	n€)	Per capita (€	
	166 96	4.1		15 800
Export (m€)	138 505.5			
Export/GDP (%)			83%	
Import (m€)	128 270.4			
Import/GDP (%)	77%			
Length of motorways and express-roads (2013, km)		3	3 408	

CONTACT DATA

AGRICULTURE

Table 4.2. Farm indicators (2015)

rubic 4.2. rumi maioatoro (2010)			
Gross value added of the agricultural	m€		% (2014)
industry	1 372	.93	2.7%
Output of the agricultural industry (basic and producer prices, m€)	4 639.93		
Share of total utilised agricultural area occupied by organic farming (%)	13.7%		
Landuse (ha)	7 886 800		
Utilised agricultural area (2013)	ha		%
	3 491 470		44%
Total number of farms (2013)	26 250		
Average area of a farm (2013, ha)	Aver. Natura		l Legal
	193.4	47.0	1 372.0
Number of tractors used in 2000-2009	83 813		

Figure 4.1. Landuse for agriculture (2013, %)

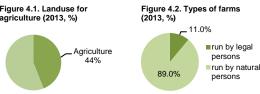


Table 4.3. Employment in agriculture

Agriculture in total employment (2014, %)	3.3%
Employment on farms (2013, annual working unit)	105 080

Figure 4.3. Standard output (SO) of farms (2013, €)

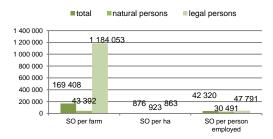


Table 4.4. Top types of plant and animal production compared with

EU-28 production (201	5)	
Plant production	1000t	% of EU-28
Wheat and spelt	5 274.27	3.4%*
Sugar beet	3 421.04	3.36%
Barley	1 991.42	3.22%
Animal production		
Milk	2 481.55	1.64%
Meat of pigs	227.74	0.99%
Meat of poultry	151.41	1.21%*

Top 3 plant production area (1000 ha): wheat and spelt (829.82), rape, turnip rape, sunflower seeds and soya (393.94), barley (365.95).

Top 3 % of EU-28 plant and animal production: rape and turnip rape seeds (5.79%), wheat and spelt (3.43%*), sugar beet (3.36%) and fish production (4.51%*), milk (1.64%), butter (1.41%*).

Table 4.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	7.0%
Total waste generated (2014, t)	1 019 805
Share of waste recovered (2014, %)	79%
Water withdrawal by agriculture (2007, %)	1.8%
Total water withdrawal per capita (2007, m3/yr/cap)	165
Pesticides use (2000-2009, kg/ha)	1.2
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	86.5

Figure 4.4. Expenditure on environmental protection by food and beverage sectors (2014)

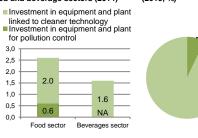


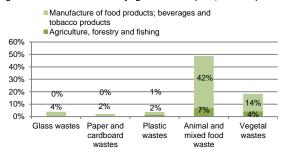
Figure 4.5. Emissions from agriculture in all emissions (2015, %)

Agriculture

emission

7.0%

Figure 4.6. Generation of waste by agri-food sector (2014, % of total)



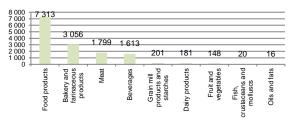
^{*} incomplete data



Table 4.6. Agriculture processing indicators (2014)

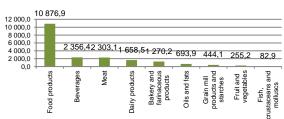
rable herrightenians proceeding maleuters (2011)				
Enterprises that sell goods and/or services		Food sector	Beverages sector	
in manufacture sector	In other EU, EFTA or EU-candidate countries	62	NA	
	In any other country than EU countries, EFTA or EU-candidate countries	18	NA	
Total turnover of innovative enterprises in agri-food sector (1000€)		7 518 095	NA	
Innovative enterprises in agri-food sector (%)		46.3%	NA	

Figure 4.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 170 041

Figure 4.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 149 681.8

Figure 4.9. Average food and beverage consumption mix (2010, %)

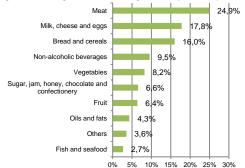
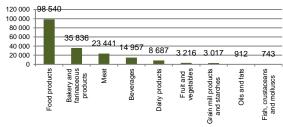


Figure 4.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 1 230 099

Figure 4.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

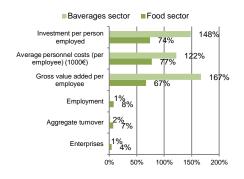


Table 4.7. Research and Development indicators (2014)

Business Expenditures on Research and		€ per inhab.
Development of enterprises in food and beverages sectors	8.298	0.8
Researchers in business enterprises	49	332
Researchers in food and beverages enterprises	earchers in food and beverages enterprises 487	
Agriculture in public R&D spending (% GBAORD)	4 1	1%

Table 4.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Patent applications	
Agriculture	6.75
Furniture; domestic articles or appliances	1.38
Biological and chemical science	1.34
Trademark registrations	
Food	170
Beverages	85
Pharmaceutical and veterinary preparations	85

Figure 4.12. Enterprises engaging in innovation activities (%)

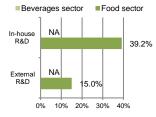


Figure 4.13. Enterprises engaging in cooperation (%)

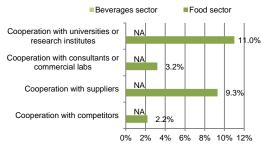


Table 4.9. Barriers to innovations (2014, % of enterprises)

Barrier	No compelling reason to innovate	Lack of good ideas	Lack of internal finance	Too much market competition	Difficulties in obtaining government grants or subsidies
Food sector	80.0%	16.2%	13.8%	8.1%	5.5%
Beverages sector	NA	NA	NA	NA	NA



5. ESTONIA

ECONOM

Table 5.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	(for	2030 ecast)	Total popul. change 2015	
	1 315 944	1 30	6 181	1 074	
GDP at current prices	Total	[m€) P		er capita (€)	
	20 2	20 251.7		15 400	
Export (m€)	16 056.7				
Export/GDP (%)		79.3	3%		
Import (m€)	15 216.6				
Import/GDP (%)	75.1%				
Length of motorways and express-roads (2013, km)	1 135				

CONTACT DATA

AGRICULTURE

Table 5.2. Farm indicators (2015)

Gross value added of the agricultural industry	m€			(2014)
industry	277.1	3		3.5%
Output of the agricultural industry (basic and producer prices, m€)	935.1			
Share of total utilised agricultural area occupied by organic farming (%)	15.7%			
Landuse (ha)	4 522 700			
Utilised agricultural area (2013)	ha		%	
	957 510 21.2%		.2%	
Total number of farms (2013)	19 190			
Average area of a farm (2013, ha)	Aver. Natural L		Legal	
	64.1	3	7.5	258.1
Number of tractors used in 2000-2009	33 744			

Figure 5.1. Landuse for agriculture (2013, %)

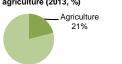


Figure 5.2. Types of farms (2013, %)

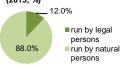


Table 5.3. Employment in agriculture

Agriculture in total employment (2014, %)	3.7%
Employment on farms (2013, annual working unit)	22 060

Figure 5.3. Standard output (SO) of farms (2013, €)

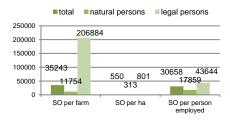


Table 5.4. Top types of plant and animal production compared with EU-28 production (2015)

(-,	
Plant production	1000t	% of EU-28
Wheat and spelt	812.6	0.53%*
Barley	556.6	0.90%
Rape and turnip rape seeds	196.3	0.9%
Animal production		
Milk	720.4	0.48%
Cheese	43,1	0.45%*
Meat of pigs	42.41	0.19%

Top 3 plant production area (1000 ha): wheat and spelt (169.70), barley (131.40), rape, turnip rape, sunflower seeds and soya (70.80).

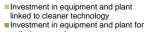
Top 3 % of EU-28 plant and animal production: dry pulses and protein crops (1.68%*), rye (1.26%*), barley (0.90%) and milk (0.48%), cheese (0,45%*), butter (0,24%*).

Table 5.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	6.4%
Total waste generated (2014, t)	227 808
Share of waste recovered (2014, %)	82.0%
Water withdrawal by agriculture (2007, %)	0.4%
Total water withdrawal per capita (2007, m3/yr/cap)	1 337
Pesticides use (2000-2009, kg/ha)	0.6
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	68.5

Figure 5.4. Expenditure on environmental protection by food and beverage sectors (2014)

Figure 5.5. Emissions from agriculture in all emissions (2015, %)







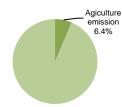
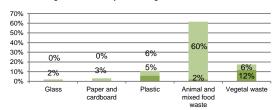


Figure 5.6. Generation of waste by agri-food sector (2014, % of total)

■Manufacture of food products; beverages and tobacco products

Agriculture, forestry and fishing



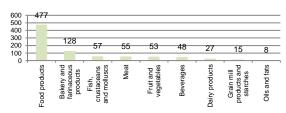
^{*} incomplete data



Table 5.6. Agriculture processing indicators (2014)

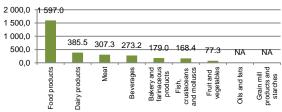
rable 3.0. Agriculture processing indicators (2014)					
Enterprises that sell goods and/or services		Food sector	Beverages sector		
in manufacture sector	In other EU, EFTA or EU-candidate countries	19	2		
	In any other country than EU countries, EFTA or EU-candidate countries	7	2		
Total turnover of innovative enterprises in agri-food sector (1000€)		900 074	238 511		
Innovative enterprises in agri-food sector (%)		41.9%	40.0%		

Figure 5.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 6 613

Figure 5.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 11 606.8

Figure 5.9. Average food and beverage consumption mix (2010, %)

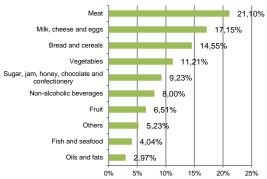
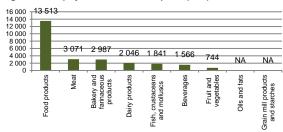


Figure 5.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 107 870

Figure 5.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

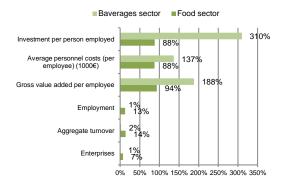


Table 5.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	3.141	2.4
Researchers in business enterprises	2 9	930
Researchers in food and beverages enterprises	6	66
Agriculture in public R&D spending (% GBAORD)	6.4	5%

Table 5.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

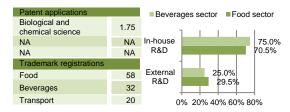


Figure 5.13. Enterprises engaging in cooperation (%)

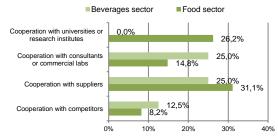


Table 5.9. Barriers to innovations (2014, % of enterprises)

Barrier	No compelling reason to innovate	Lack of internal finance	Lack of good ideas	Difficulties in obtaining government grants or subsidies	Little market competition
Food sector	71%	11%	7%	8%	16%
Beverages sector	50%	25%	25%	8.3%	0



6. GREECE

ECONOMY

Table 6.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	10 783 748	9 94	14 658	-74 270	
GDP at current prices	prices Total (m€) Pe		Pe	er capita (€)	
	175 697.4			16 200	
Export (m€)		56 07	73.8		
Export/GDP (%)		31.9	9%		
Import (m€)		55 82	21.3		
Import/GDP (%)	31.8%				
Length of motorways and express-roads (2013, km)					

CONTACT DATA

AGRICULTURE

Table 6.2. Farm indicators (2015)

Table 6.2. Farm mulcators (2013)				
Gross value added of the agricultural	m€		%	(2014)
industry	5543.	01		3.8%
Output of the agricultural industry (basic and producer prices, m€)		10 66	55.31	
Share of total utilised agricultural area occupied by organic farming (%)	8.4%			
Landuse (ha)	13 204 900)	
Utilised agricultural area (2013)		ha		%
	4 856	780		37%
Total number of farms (2013)		709	500	
Average area of a farm (2013, ha)	Aver.	Natu	ral	Legal
	7.1	5	5.0	1891.0
Number of tractors used in 2000-2009		259	613	

Figure 6.1. Landuse for agriculture (2013, %)

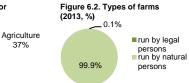


Table 6.3. Employment in agriculture

rabio oto: Emproymont in agriculturo	
Agriculture in total employment (2014, %)	12.3%
Employment on farms (2013, annual working unit)	463 860

Figure 6.3. Standard output (SO) of farms (2013, €)

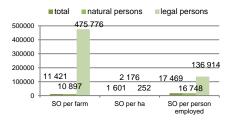


Table 6.4. Top types of plant and animal production compared with

EU-28 production (2015)				
Plant production	1000t	% of EU-28		
Fresh vegetables and strawberries	2 997.72	5.88%*		
Fruits, berries and nuts	1631,68	8.11%*		
Maize	1 542.30	2.62%		
Animal production				
Milk	602.6	0.40%		
Meat of poultry	189.63	1.51%*		
Cheese	188.3	1.98%*		

Top 3 plant production area (1000 ha): olives (969.91), wheat and spelt (487.09), barley (154.11).

Top 3 % of EU-28 plant and animal production: citrus fruits (14.58%*), olives (10.09%*), rice (8.53%) and meat of sheep and goats (10.04%*), fish production (8.22%, 2014), cheese (1.98%*).

Table 6.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	8.9%
Total waste generated (2014, t)	749 300
Share of waste recovered (2014, %)	53%
Water withdrawal by agriculture (2007, %)	89.3%
Total water withdrawal per capita (2007, m3/yr/cap)	841
Pesticides use (2000-2009, kg/ha)	2.5
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	56.3

Figure 6.4. Expenditure on environmental protection by food and beverage sectors (2014)

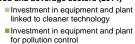


Figure 6.5. Emissions from agriculture in all emissions (2015, %)



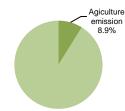
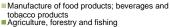
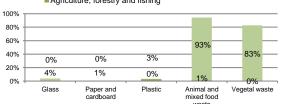


Figure 6.6. Generation of waste by agri-food sector (2014, % of total)





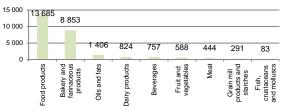
^{*} incomplete data



Table 6.6. Agriculture processing indicators (2014)

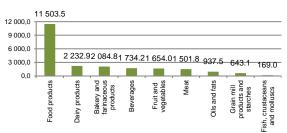
Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	In other EU, EFTA or EU-candidate countries	89	NA
	In any other country than EU countries, EFTA or EU-candidate countries	45	NA
Total turnover of innovative enterprises in agri-food sector (1000€)		7 207 272	1 147 809
Innovative enterprises in agri-food sector (%)		54.7%	68.0%

Figure 6.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 58 211

Figure 6.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 57 221.4

Figure 6.9. Average food and beverage consumption mix (2010, %)

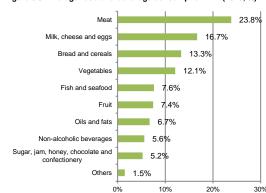
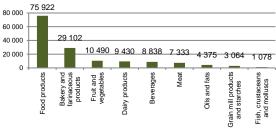


Figure 6.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 283 215

Figure 6.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

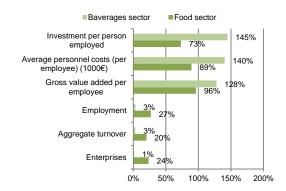


Table 6.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors		2.7
Researchers in business enterprises	10	428
Researchers in food and beverages enterprises	4	77
Agriculture in public R&D spending (% GRAORD)	3.7	'Q0/ ₆

Table 6.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Patent applications		■E
Agriculture	3.39	
Furniture; domestic articles or appliances	1.5	In- house R&D
Biological and chemical science	1.38	Externa
Trademark registrations		I R&D
Food	237	
Pharmaceutical and veterinary preparations	71	'
Agriculture	54	

Figure 6.12. Enterprises engaging in innovation activities (%)



Figure 6.13. Enterprises engaging in cooperation (%)



Table 6.9. Barriers to innovations (2014, % of enterprises)

					Difficulties
	No			Lack of	in obtaining
	compelling	Lack of	Low	credit or	government
Barrier	reason to	internal	market	private	grants or
	innovate	finance	demand	equity	subsidies
Food	69.0%	27.2%	24.7%	21.5%	18.4%
sector					
Beverages	NA	NA	NA	NA	NA
sector					



7. HUNGARY

ECONOM

Table 7.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	9 830 485	9 66	5 170	-25 086	
GDP at current prices	Total (m€)		Pe	er capita (€)	
	109 674.2			11 100	
Export (m€)		99 50	03.8		
Export/GDP (%)		91	%		
Import (m€)		89 73	31.3		
Import/GDP (%)	82%				
Length of motorways and express-roads (2013, km)	4 119				

CONTACT DATA

AGRICULTURE

Table 7.2. Farm indicators (2015)

Gross value added of the agricultural	m€	%	(2014)
industry	3 253.94		4.5%
Output of the agricultural industry (basic and producer prices, m€)	8 025.45		
Share of total utilised agricultural area occupied by organic farming (%)	2.4%		
Landuse (ha)	9 301 100		
Utilised agricultural area (2013)	ha		%
	4 656 520		50%
Total number of farms (2013)	491 330		
Average area of a farm (2013, ha)	Aver. Natural		Legal
	14.3	5.9	476.6
Number of tractors used in 2000-2009	120 477		

Figure 7.2. Types of farms Figure 7.1. Landuse for agriculture (2013, %) (2013, %) 1.8% Agriculture 50% run by legal persons run by natural 98.2%

Table 7.3. Employment in agriculture Agriculture in total employment (2014, %) 6.7% Employment on farms (2013, annual working unit) 433 700

Figure 7.3. Standard output (SO) of farms (2013, €)

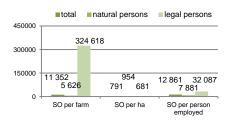


Table 7.4. Top types of plant and animal production compared with

EU-28 production (2015)					
Plant production	1000t	% of EU-28			
Maize	6 632.78	11.26%			
Wheat and spelt	5 331.43	3.47%*			
Fresh vegetables and strawberries	1 606.41	3.15%*			
Animal production					
Milk	1 536.06	1.01%			
Meat of poultry	478.71	3.82%*			
Meat of pigs	409.3	1.79%			

Top 3 plant production area are (1000 ha): maize (1 146.13), wheat and spelt (1 029.32), sunflower seeds (611.64).

Top 3 % of EU-28 plant and animal production: sunflower seed (19.69%), maize (11.26%), soya (5.98%) and fish production (3.87%*), meat of poultry (3.82%*), meat of pigs (1.79%).

Table 7.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	12.4%
Total waste generated (2014, t)	1 012 087
Share of waste recovered (2014, %)	60%
Water withdrawal by agriculture (2005, %)	5.6%
Total water withdrawal per capita (2005, m3/yr/cap)	557
Pesticides use (2000-2009, kg/ha)	1.9
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	72.7

Figure 7.4. Expenditure on environmental protection by food and beverage sectors (2014)

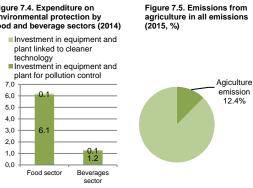
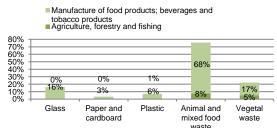


Figure 7.6. Generation of waste by agri-food sector (2014, % of total)



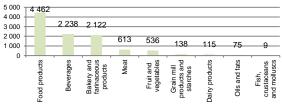
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Table 7.6. Agriculture processing indicators (2014)

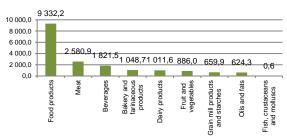
		•	
Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	ufacture sector In other EU, EFTA or EU-candidate countries		9
	In any other country than EU countries, EFTA or EU-candidate countries	21	7
Total turnover of innovative enterprises in agri-food sector (1000€)		4 754 288	908 869
Innovative enterprises in agri-food sector (%)		23.2%	38.6%

Figure 7.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 47 614

Figure 7.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 98 615.8

Figure 7.9. Average food and beverage consumption mix (2010, %)

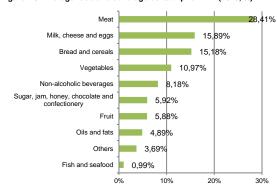
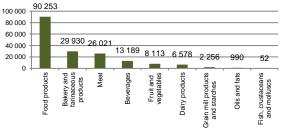


Figure 7.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 678 247

Figure 7.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

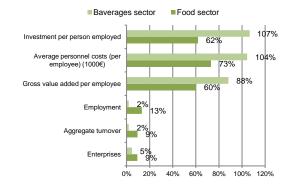


Table 7.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	NA	NA
Researchers in business enterprises	25	359
Researchers in food and beverages enterprises NA		NA
Agriculture in public R&D spending (% GBAORD)		42%

Table 7.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Figure 7.12. Enterprises engaging in innovation activities (%)

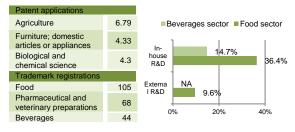


Figure 7.13. Enterprises engaging in cooperation (%)

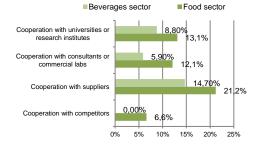


Table 7.9. Barriers to innovations (2014, % of enterprises)

Barrier	No	Difficulties in	Lack of	Low	Too much
	compelling	obtaining	internal	market	market
	reason to	government	finance	demand	competition
	innovate	grants or			
		subsidies			
Food	87.5%	5.6%	8.2%	9.7%	4.1%
sector					
Beverages	76.6%	16%	12.8%	9.6%	13.8%
sector					



8. ITALY

ECONOMY

Table 8.1. Macroeconomic indicators (2015)

Table 6.1. Macroeconomic mulcators (2015)					
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	60 665 551	60	350 475	-130 061	
GDP at current prices	Total	(m€)	Р	er capita (€)	
	1 645 439.	4	27 10		
Export (m€)		493	934.3		
Export/GDP (%)		3	0%		
Import (m€)		446	041.8		
Import/GDP (%)	27%				
Length of motorways and express-roads (2013, km)		67	751*		

CONTACT DATA

AGRICULTURE

Table 8.2. Farm indicators (2015)

rable 0.2. I allii ilidicators (2013)				
Gross value added of the agricultural	m€		% (2014)	
industry	32 238	.88	2	2.2%
Output of the agricultural industry (basic and producer prices, m€)		55 20	3.93	
Share of total utilised agricultural area occupied by organic farming (%)	11.8%			
Landuse (ha)	30 207 300			
Utilised agricultural area (2013)		ha		%
	12 09	8 890		40%
Total number of farms (2013)	1 010 330			
Average area of a farm (2013, ha)	Aver.	Natu	ıral	Legal
	15.8	13	3.1	196.4
Number of tractors used in 2000-2009	1 754 401			

Figure 8.1. Landuse for

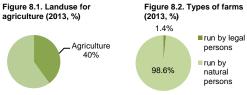


Table 8.3. Employment in agriculture

Agriculture in total employment (2014, %)	3.7%
Employment on farms (2013, annual working unit)	816 920

Figure 8.3. Standard output (SO) of farms (2013, €)

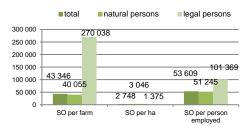


Table 8.4. Top types of plant and animal production compared with EU-28 production (2015)

	-,	
Plant production	1000t	% of EU-28
Grapes	8 050.21	31.42%
Maize	7 069.65	12.00%
Olives	3 171.01	25.19%*
Animal production		
Meat of pigs	1 485.83	6.48%
Meat of poultry	1 294.96	10.34%*
Cheese	1206.67	12.68%*

Top 3 plant production area (1000 ha): olives (1 134.05), maize (727.37), grapes (678.98).

Top 3 % of EU-28 plant and animal production: rice (49.81%), soya (45.78%), grapes (31.42%) and cheese (12.68%), fish production (11.71%), meat of cattle (10.40%).

Table 8.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	7.7%
Total waste generated (2014, t)	11 962 324
Share of waste recovered (2014, %)	76%
Water withdrawal by agriculture (2000, %)	44.1%
Total water withdrawal per capita (2000, m3/yr/cap)	790
Pesticides use (2000-2009, kg/ha)	7.4
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	
	84.6

Figure 8.4. Expenditure on environmental protection by food and beverage sectors (2014)

■ Investment in equipment and

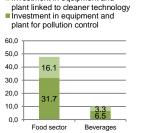


Figure 8.5. Emissions from agriculture in all emissions (2015, %)

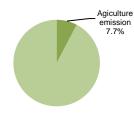
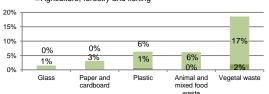


Figure 8.6. Generation of waste by agri-food sector (2014, % of total)

■Manufacture of food products; beverages and tobacco products ■Agriculture, forestry and fishing



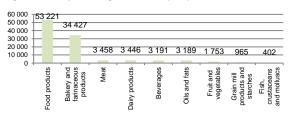
^{*} incomplete data



Table 8.6. Agriculture processing indicators (2014)

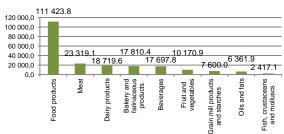
rable 6.6. Agriculture processing indicators (2014)						
Enterprises that sell goods and/or services		Food sector	Beverages sector			
in manufacture sector	In other EU, EFTA or EU-candidate countries	377	73			
	In any other country than EU countries, EFTA or EU-candidate countries	234	73			
Total turnover of innovative enterprises in agri-food sector (1000€)		76 187 775	16 507 234			
Innovative enterprises in agri-food sector (%)		56.7%	73%			

Figure 8.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 396 422

Figure 8.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 867 514.5

Figure 8.9. Average food and beverage consumption mix (2010, %)

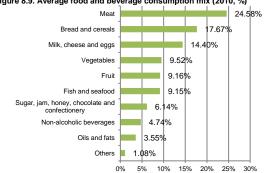
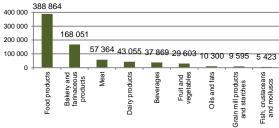
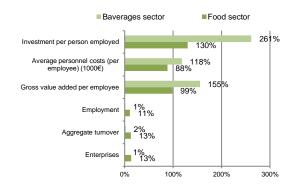


Figure 8.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 3 654 887

Figure 8.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 8.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.	
Development of enterprises in food and beverages sectors	199.805	3.3	
Researchers in business enterprises	176 5	176 527	
Researchers in food and beverages enterprises	4 638		
Agriculture in public R&D spending (% GBAORD)	3.18%		

Table 8.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Patent applications
Furniture; domestic
articles or appliances

Agriculture

Beverages

Food

Biological and

chemical science
Trademark registrations

Pharmaceutical and veterinary preparations

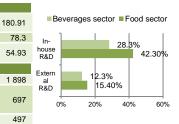


Figure 8.13. Enterprises engaging in cooperation (%)

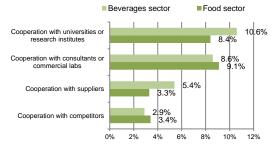


Table 8.9. Barriers to innovations (2014, % of enterprises)

Barrier	No compelling reason to innovate	Lack of internal finance	Difficulties in obtaining government grants or subsidies	Lack of credit or private equity	Low market demand
Food sector	75.3%	15%	17.1%	11.1%	18%
Beverages sector	69.6%	29.9%	13.6%	19%	9.8%



9. LATVIA

ECONOMY

Table 9.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015
	1 968 957	1 74	3 960	-17 139
GDP at current prices	Total (m€)		Pe	er capita (€)
	24 368.3			12 300
Export (m€)		14 36	60.7	
Export/GDP (%)		59	%	
Import (m€)		14 63	36.3	
Import/GDP (%)	60%			
Length of motorways and express-roads (2013, km)	202			

CONTACT DATA

AGRICULTURE

Table 9.2. Farm indicators (2015)

Gross value added of the agricultural industry	m€		% (2014)	
industry	366.18		3.3%	
Output of the agricultural industry (basic and producer prices, m€)	1 402.08			
Share of total utilised agricultural area occupied by organic farming (%)	12.3%			
Landuse (ha)	6 457 300			
Utilised agricultural area (2013)		ha		%
	1 877	720	29	%
Total number of farms (2013)		254	410	
Average area of a farm (2013, ha)	Aver. Natural		Legal	
	37.4	3	31.9	435.1
Number of tractors used in 2000-2009	59 562			

Figure 9.1. Landuse for agriculture (2013, %)

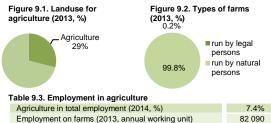


Figure 9.3. Standard output (SO) of farms (2013, €)

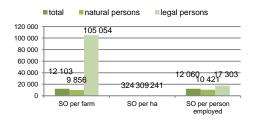


Table 9.4. Top types of plant and animal production compared with

EU-28 production (2015)						
Plant production	1000t	% of EU-28				
Wheat and spelt	2 250,10	1.46%*				
Barley	385,10	0.62%				
Rape and turnip rape seeds	293.20	1.35%				
Animal production						
Milk	807,66	0.53%				
Cheese	38.38	0.40%*				
Meat of poultry	29.52	0.24%*				

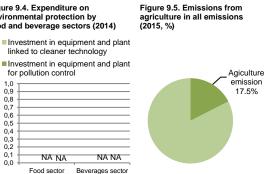
Top 3 plant production area (1000 ha): wheat and spelt (447.30), barley (99.30), rape, turnip rape, sunflower seeds and soya (88.00).

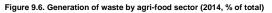
Top 3 % of EU-28 plant and animal production: rye (3.68%*), oats (2.11%), dry pulses and protein crops (2.03%*) and milk (0.53%), cheese (0.4%*), butter (0.33%*).

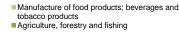
Table 9.5. Environmental impacts of agri-food sector

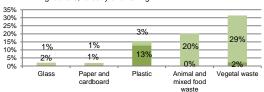
Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	17.5%
Total waste generated (2014, t)	221 614
Share of waste recovered (2014, %)	58%
Water withdrawal by agriculture (2000, %)	11.6%
Total water withdrawal per capita (2000, m3/yr/cap)	176
Pesticides use (2000-2009, kg/ha)	0.6
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	64.6

Figure 9.4. Expenditure on environmental protection by food and beverage sectors (2014)









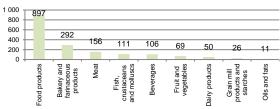
^{*} incomplete data



Table 9.6. Agriculture processing indicators (2014)

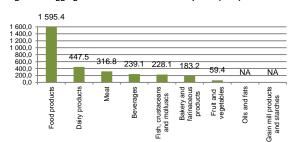
rable 5.0. Agriculture processing maloators (2014)					
Enterprises that sell goods and/or services		Food sector	Beverages sector		
in manufacture sector	In other EU, EFTA or EU-candidate countries	5	1		
	In any other country than EU countries, EFTA or EU-candidate countries	4	1		
Total turnover of innovative enterprises in agri-food sector (1000€)		942 977	188 934		
Innovative enterprises in agri-food sector (%)		34.5%	17.6%		

Figure 9.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 9 806

Figure 9.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 7 581.3

Figure 9.9. Average food and beverage consumption mix (2010, %)

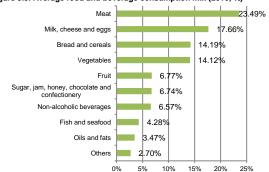
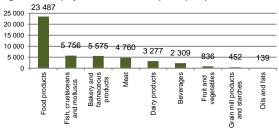
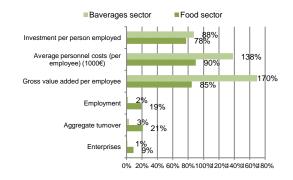


Figure 9.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 121 746

Figure 9.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 9.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors		0.5
Researchers in business enterprises	2	341
Researchers in food and beverages enterprises		63
Agriculture in public R&D spending (% GRAORD)	18	06%

Figure 9.12. Enterprises engaging

in innovation activities (%)

Table 9.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

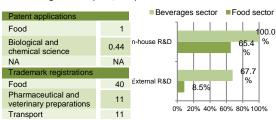


Figure 9.13. Enterprises engaging in cooperation (%)

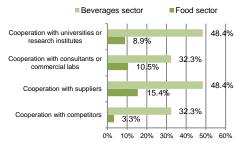


Table 9.9. Barriers to innovations (2014, % of enterprises)

Barrier	No compelling reason to innovate	Lack of good ideas	Low market demand	Little market competition	NA		
Food sector	92.4%	26.8%	14.6%	12.2%	NA		
Beverages sector	100%	3.4%	3.4%	3.4%	NA		



10. LITHUANIA

ECONOM

Table 10.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	2 888 558	2 41	0 874	-32 704	
GDP at current prices	Total	al (m€) F		Per capita (€)	
	37 330.5			12 900	
Export (m€)		28 3	320		
Export/GDP (%)		76	%		
Import (m€)		28 5	62.7		
Import/GDP (%)	77%				
Length of motorways and express-roads (2013, km)	1 948				

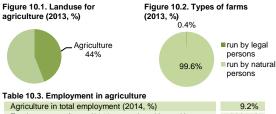
CONTACT DATA

AGRICULTURE

Table 10.2. Farm indicators (2015)

rubic 10:2: ruini maioatoro (2010)					
Gross value added of the agricultural	m€		%	% (2014)	
industry	1 120.	.7	3	3.4%	
Output of the agricultural industry (basic and producer prices, m€)		2 97	1.81		
Share of total utilised agricultural area occupied by organic farming (%)	7.1%				
Landuse (ha)	6 528 600				
Utilised agricultural area (2013)	ha		%		
	2 861 2	250		44%	
Total number of farms (2013)		171	800		
Average area of a farm (2013, ha)	Aver.	Nati	ural	Legal	
	18.2	1	6.0	573.3	
Number of tractors used in 2000-2009		117	580		

Figure 10.1. Landuse for



144 770

Employment on farms (2013, annual working unit) Figure 10.3. Standard output (SO) of farms (2013, €)

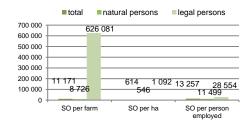


Table 10.4. Top types of plant and animal production compared with

EU-28 production (201	5)	
Plant production	1000t	% of EU-28
Wheat and spelt	4380.33	2.85%*
Barley	811.52	1.31%
Sugar beet	619.48	0.61%
Animal production		
Milk	1438.03	0.95%
Cheese	100.96	1.06%*
Meat of poultry	95.79	0.76%*

Top 3 plant production area are (1000 ha): wheat and spelt (836.22), barley (202.40), rape, turnip rape, sunflower seeds and soya (166.15).

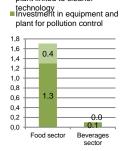
Top 3 % of EU-28 plant and animal production: dry pulses and protein crops $(8.85\%^*)$, wheat and spelt $(2.85\%^*)$, rye $(2.48\%^*)$ and cheese $(1.06\%^*)$, milk (0.95%), fish production $(0.91\%^*)$.

Table 10.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	35.2%
Total waste generated (2014, t)	344 726
Share of waste recovered (2014, %)	58%
Water withdrawal by agriculture (2007, %)	3.4%
Total water withdrawal per capita (2007, m3/yr/cap)	704
Pesticides use (2000-2009, kg/ha)	1.1
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	
	51.1

Figure 10.4. Expenditure on environmental protection by food and beverage sectors (2014)





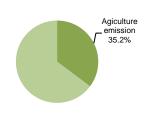
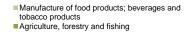
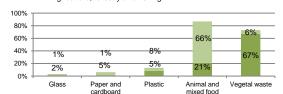


Figure 10.5. Emissions from

Figure 10.6. Generation of waste by agri-food sector (2014, % of total)





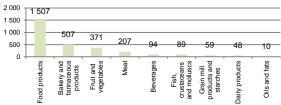
^{*} incomplete data



Table 10.6. Agriculture processing indicators (2014)

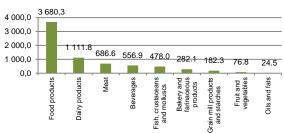
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Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	In other EU, EFTA or EU-candidate countries	NA	NA
	In any other country than EU countries, EFTA or EU-candidate countries	NA	NA
Total turnover of innovative enterprises in agri-food sector (1000€)		NA	NA
Innovative enterprises in agri-food sector (%)		NA	NA

Figure 10.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 17 975

Figure 10.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 18 934.9

Figure 10.9. Average food and beverage consumption mix (2010, %)

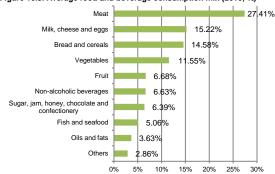
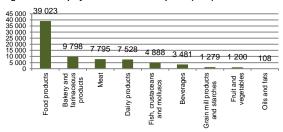
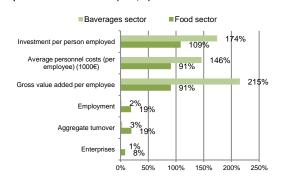


Figure 10.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 207 060

Figure 10.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 10.7. Research and Development indicators (2014)

	m€	€ per
Business Expenditures on Research and		inhab.
Development of enterprises in food and		0.6
beverages sectors	1.658	0.6
Researchers in business enterprises	5 6	642
Researchers in food and beverages enterprises	9	4
Agriculture in public R&D spending (% GBAORD)	5.	7%

Figure 10.12. Enterprises engaging

in innovation activities (%)

Table 10.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

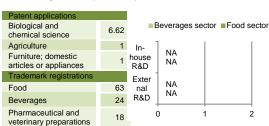


Figure 10.13. Enterprises engaging in cooperation (%)

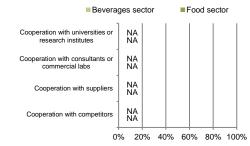


Table 10.9. Barriers to innovations (2014, % of enterprises)

. abie 10101 2 a. 11010 to 11110 taliono (2011), 70 01 01110 p.1000,					
Barrier	No compelling reason to innovate	Lack of good ideas	Lack of internal finance	Too much market competition	Difficulties in obtaining government grants or subsidies
Food sector	NA	NA	NA	NA	NA
Beverages sector	NA	NA	NA	NA	NA



11. MALTA

ECONOMY

Table 11.1. Macroeconomic indicators (2015)

Table Titt Macrocoononio	ilaioatoi 5 (E	,		
Population (1st Jan.)	2016	(foreca	030 ast)	Total popul. change 2015
	434 403	488 (32	5 059
GDP at current prices	Tot	al (m€)		Per capita (€)
	9 250	.3		21 400
Export (m€)		13 20	64.6	
Export/GDP (%)		143	8%	
Import (m€)		12 5	38.4	
Import/GDP (%)	136%			
Length of motorways and express-roads (2013, km)	NA			

CONTACT DATA

AGRICULTURE

Table 11.2. Farm indicators (2015)

Table 11.2. Failli illulcators (2013)			
Gross value added of the agricultural	m€ % (20		(2014)
industry	61.42		1.4
Output of the agricultural industry (basic and producer prices, m€)		128.07	
Share of total utilised agricultural area occupied by organic farming (%)		0.3%	
Landuse (ha)	31 540		
Utilised agricultural area (2013)	ha		%
	108	80	34%
Total number of farms (2013)		9 360	
Average area of a farm (2013, ha)	Aver.	Natural	Legal
	1.3	1.2	5.8
Number of tractors used in 2000-2009		1 092	

Figure 11.1. Landuse for agriculture (2013, %)

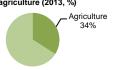


Figure 11.2. Types of farms

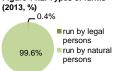


Table 11.3. Employment in agriculture

Agriculture in total employment (2014, %)	1.7%
Employment on farms (2013, annual working unit)	4 450

Figure 11.3. Standard output (SO) of farms (2013, €)

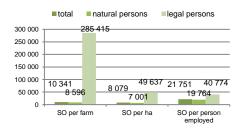


Table 11.4. Top types of plant and animal production compared with

EU-28 production (201	5)	
Plant production	1000t	% of EU-28
Fresh vegetables and strawberries	61.42	0.12%*
Potatoes	8.02	0.01%
Grapes	5.11	0.02%
Animal production		
Milk	41.57	0.03%
Fish production	10.80	2.41%*
Meat of pigs	5.55	0.02%

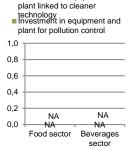
Top 3 plant production area are (1000 ha): fresh vegetables and strawberries (2.00), potatoes (0.69), grapes (0.68).

Top 3 % of EU-28 plant and animal production: fresh vegetables and strawberries (0.12%*), potatoes (0.02%), citrus fruits and grapes (0.02%*) and fish production (2.41%*), meat of poultry (0.03%*), milk (0.03%).

Table 11.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	3.0%
Total waste generated (2014, t)	58 128
Share of waste recovered (2014, %)	41%
Water withdrawal by agriculture (2000, %)	35.3%
Total water withdrawal per capita (2000, m3/yr/cap)	134
Pesticides use (2000-2009, kg/ha)	13
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	65.1

Figure 11.4. Expenditure on environmental protection by food and beverage sectors (2014)



■ Investment in equipment and

Figure 11.5. Emissions from agriculture in all emissions (2015, %)

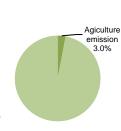
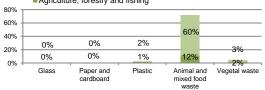


Figure 11.6. Generation of waste by agri-food sector (2014, % of total)

■Manufacture of food products; beverages and tobacco products

Agriculture, forestry and fishing



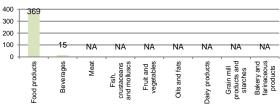
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Table 11.6. Agriculture processing indicators (2014)

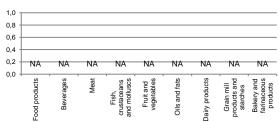
rable i i.o. Agriculture pi	o o o o o o o o o o o o o o o o o o o	,	
Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	In other EU, EFTA or EU-candidate countries	2	NA
	In any other country than EU countries, EFTA or EU-candidate countries	1	NA
Total turnover of innovative enterprises in agri-food sector (1000€)		NA	47.9
Innovative enterprises in agri-food sector (%)		NA	NA

Figure 11.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: NA

Figure 11.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: NA

Figure 11.9. Average food and beverage consumption mix (2010, %)

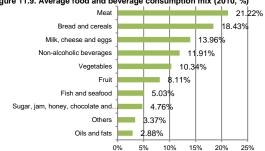
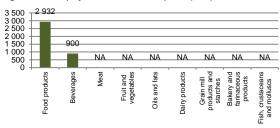
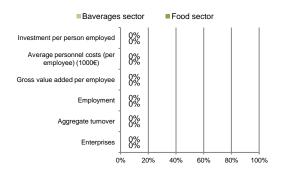


Figure 11.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: NA

Figure 11.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 11.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	0.969	2.3
Researchers in business enterprises	1 (077
Researchers in food and beverages enterprises	3	34
Agriculture in public R&D spending (% GBAORD)	2.4	14%

Table 11.8. Top 3 areas of patent Figure 11.12. Enterprises engaging applications to the European
Patent Office and European Union in innovation activities (%) trademark registrations (2012, 2015)

Patent applications

NA

NA

Trac Food

Transport

Furniture; domestic

articles or appliances

Pharmaceutical and

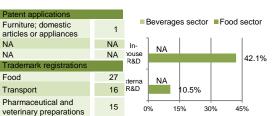
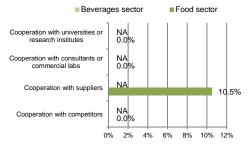


Figure 11.13. Enterprises engaging in cooperation (%)



ı	Table 11.9. Barriers to innovations (2014, % of enterprises)						
	Barrier	No compelling reason to innovate	Low market demand	Little market competition	Lack of good ideas	NA	
	Food sector	100%	12.0%	8.0%	4.0%	NA	
	Beverages sector	NA	NA	NA	NA	NA	



12. POLAND

ECONOM

Table 12.1. Macroeconomic mulcators (2013)							
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015			
	37 967 209	37	213 790	-38 405			
GDP at current prices	Total	(m€)	Р	Per capita (€)			
	429 794.2	2		11 200			
Export (m€)		212	966.9				
Export/GDP (%)		5	0%				
Import (m€)		199	659.2				
Import/GDP (%)	46%						
Length of motorways and express-roads (2013, km)	6 982						

CONTACT DATA

AGRICULTURE

Table 12.2. Farm indicators (2015)

Table 12.2. Farm malcators (2015)				
Gross value added of the agricultural	m€ % (2014			
industry	7 857.44 2.9%			
Output of the agricultural industry (basic and producer prices, m€)	22 349.35			
Share of total utilised agricultural area occupied by organic farming (%)	4.0%			
Landuse (ha)	31 267 900			
Utilised agricultural area (2013)	ha %			
	14 409	870	46%	
Total number of farms (2013)	1	429 010		
Average area of a farm (2013, ha)	Aver.	Natural	Legal	
	11.5	10.5	424.6	
Number of tractors used in 2000-2009	1 577 290			

Figure 12.1. Landuse for agriculture (2013, %) Figure 12.2. Types of farms (2013, %)



Table 12.3. Employment in agriculture Agriculture in total employment (2014, %) 11.5% Employment on farms (2013, annual working unit) 1 918 550

Figure 12.3. Standard output (SO) of farms (2013, €)

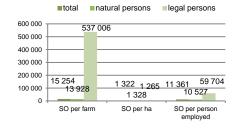


Table 12.4. Top types of plant and animal production compared with

t	EU-28 production (2015)						
	Plant production	1000t	% of EU-28				
	Wheat and spelt	10 957.80	7.13%*				
	Sugar beet	9 364.50	9.19%				
	Potatoes	6151.80	11.57%				
1	Animal production						
	Milk	10 874.28	7.17%				
	Meat of poultry	2 011.04	16.05%*				
	Meat of pigs	1906.11	8.32%				

Top 3 plant production area are (1000 ha): wheat and spelt (2395.50), rape, turnip rape, sunflower seeds and soya (954.60), barley (839.30).

Top 3 % of EU-28 plant and animal production: rye (46.36%*), fruits, berries and nuts (19.36%*), oats (16.06%) and meat of poultry (16.05%*), butter (9.00%*), meat of pigs (8.32%).

Table 12.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	8.8%
Total waste generated (2014, t)	4 845 959
Share of waste recovered (2014, %)	60%
Water withdrawal by agriculture (2009, %)	9.7%
Total water withdrawal per capita (2009, m3/yr/cap)	313
Pesticides use (2000-2009, kg/ha)	1.3
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	137.4

Figure 12.4. Expenditure on environmental protection by food and beverage sectors (2014)

Food sector

■Investment in equipment and plant

Figure 12.5. Emissions from agriculture in all emissions (2015, %)

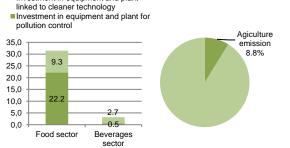
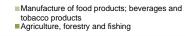
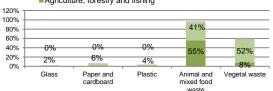


Figure 12.6. Generation of waste by agri-food sector (2014, % of total)





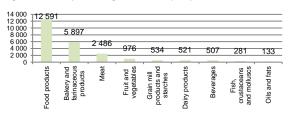
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Table 12.6. Agriculture processing indicators (2014)

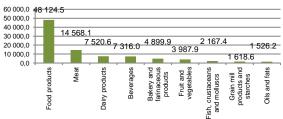
Table 12.0. Agriculture processing indicators (2014)							
Enterprises that sell goods and/or services		Food sector	Beverages sector				
in manufacture sector	In other EU, EFTA or EU-candidate countries	114	14				
	In any other country than EU countries, EFTA or EU-candidate countries	82	7				
Total turnover of innovative enterprises in agri-food sector (1000€)		23 004 477	4 901 281				
Innovative enterprises in agri-food sector (%)		15.7%	43.6%				

Figure 12.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 180 639

Figure 12.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 281 252.9

Figure 12.9. Average food and beverage consumption mix (2010, %)

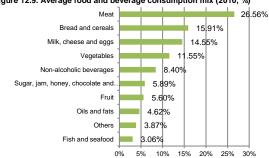
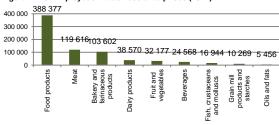


Figure 12.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 2 425 350

Figure 12.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

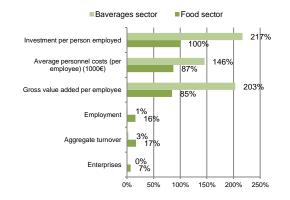


Table 12.7. Research and Development indicators (2014)

	m€	€ per
Business Expenditures on Research and		inhab.
Development of enterprises in food and beverages	NA	NA
sectors		
Researchers in business enterprises	43	185
Researchers in food and beverages enterprises		NA
Agriculture in public R&D spending (% GBAORD)	3.	12%

Table 12.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Figure 12.12. Enterprises engaging in innovation activities (%)

Patent applications	
Biological and chemical science	10.86
Agriculture	10.8
Furniture; domestic articles or appliances	10.22
Trademark registrations	
Food	486
Pharmaceutical and veterinary preparations	381
Transport	217



Figure 12.13. Enterprises engaging in cooperation (%)

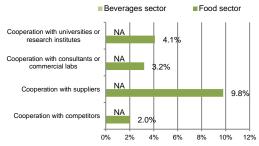


Table 12.9. Barriers to innovations (2014, % of enterprises)

tuble 12.0. Burners to innovations (2014, 70 or enterprises)							
Barrier		No compelling reason to innovate	Lack of internal finance	Uncertain market demand	Too much market competition	Lack of credit or private equity	
Food sector		75.0%	25.1%	22.0%	21.4%	13.1%	
Beverag sector	ges	57.7%	30.9%	NA	NA	NA	



13. PORTUGAL

ECONOM

Table 13.1. Macroeconomic indicators (2015)

Table To. I. Madrocoononio	a.oato. 5 (±0 10	••			
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	10 341 330	9 88	0 173	-33 492	
GDP at current prices	current prices Total (m€)		Pe	er capita (€)	
	179 539.9			17 300	
Export (m€)		72 8	12.4		
Export/GDP (%)		41	%		
Import (m€)		71 50	02.7		
Import/GDP (%)		40	%		
Length of motorways and express-roads (2013, km)	5 276				

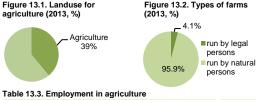
CONTACT DATA

AGRICULTURE

Table 13.2. Farm indicators (2015)

Gross value added of the agricultural industry	m€ 2 633.5		% (2014) 2.3	
Output of the agricultural industry (basic and producer prices, m€)	7 079.88			
Share of total utilised agricultural area occupied by organic farming (%)	6.5%			
Landuse (ha)	9 222 600			
Utilised agricultural area (2013)		%		
	3 641 5	590	39%	
Total number of farms (2013)		264 420		
Average area of a farm (2013, ha)	(2013, ha) Aver. Na		Legal	
	17.5	12.2	143.3	
Number of tractors used in 2000-2009	176 394			

Figure 13.1. Landuse for agriculture (2013, %)



Agriculture in total employment (2014, %)	11.3%
Employment on farms (2013, annual working unit)	323 470

Figure 13.3. Standard output (SO) of farms (2013, €)

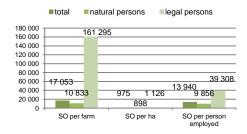


Table 13.4. Top types of plant and animal production compared with EU-28 production (2015)

Plant production	1000t	% of EU-28
Fresh vegetables and strawberries	2 224.36	4.36%*
Grapes	934.63	3.65%
Maize	827.54	1.40%
Animal production		
Milk	1 935.42	1.28%
Meat of pigs	377.46	1.65%
Meat of poultry	308.69	2.46%*

Top 3 plant production area are (1000 ha): olives (351.34), fruits, berries and nuts (186.11), grapes (178.96).

Top 3 % of EU-28 plant and animal production: rice (6.28%), olives (5.74%*), fresh vegetables and strawberries (4.36%*) and meat of poultry (2.46%*), meat of pigs (1.65%), butter (1.55%).

Table 13.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	13.3%
Total waste generated (2014, t)	1 575 304
Share of waste recovered (2014, %)	64%
Water withdrawal by agriculture (2002, %)	73%
Total water withdrawal per capita (2002, m3/yr/cap)	812
Pesticides use (2000-2009, kg/ha)	6.4
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	83.7

Figure 13.4. Expenditure on environmental protection by food and beverage sectors (2014)

Figure 13.5. Emissions from agriculture in all emissions (2015, %)

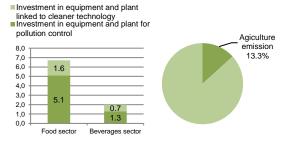


Figure 13.6. Generation of waste by agri-food sector (2014, % of total)

Manufacture of food products; beverages and tobacco products

Agriculture, forestry and fishing

cardboard

80% 70% 60% 50% 40% 30% 20% 10% 0% 45% 0% 0% 2% 3% 3% 1% Glass Animal and Vegetal Paper and Plastic

mixed food

waste

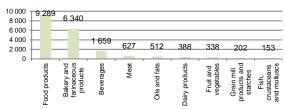
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Table 13.6. Agriculture processing indicators (2014)

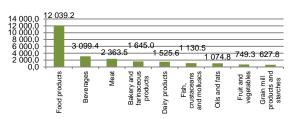
Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	In other EU, EFTA or EU-candidate countries	79	25
	In any other country than EU countries, EFTA or EU-candidate countries	60	22
Total turnover of innovative enterprises in agri-food sector (1000€)		8 356 641	2 397 456
Innovative enterprises in agri-food sector (%)		55.9%	67.1%

Figure 13.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 66 201

Figure 13.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 80 583.6

Figure 13.9. Average food and beverage consumption mix (2010, %)

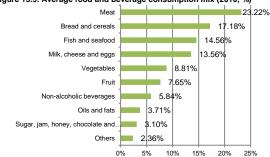
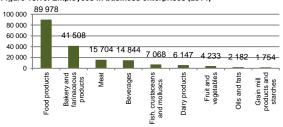
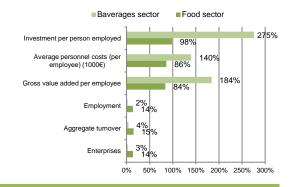


Figure 13.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 650 628

Figure 13.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 13.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.	
Development of enterprises in food and beverages sectors	56.095	5.4	
Researchers in business enterprises	35 6	609	
Researchers in food and beverages enterprises	1 3	39	
Agriculture in public R&D spending (%	3.5	5%	

Table 13.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Agriculture

Furniture; domestic

chemical science

Trademark registra

Pharmaceutical and

veterinary preparations

articles or appliances Biological and



Figure 13.12. Enterprises engaging

in innovation activities (%)

Figure 13.13. Enterprises engaging in cooperation (%)

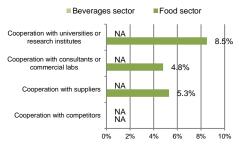


Table 13.9. Barriers to innovations (2014, % of enterprises)

Table 13.3. Barriers to illitovations (2014, 76 or enterprises)							
Barrier	No compelling reason to innovate	Lack of internal finance	Lack of good ideas	Difficulties in obtaining government grants or subsidies	Lack of credit or private equity		
Food sector	75.1%	18.0%	7.9%	12.5%	13.9%		
Beverages sector	73.0%	14.5%	18.9%	12.1%	9.1%		



14. ROMANIA

ECONOMY

Table 14.1. Macroeconomic indicators (2015)

Table 14.1. Macroeconomic mulcators (2013)				
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015
	19 760 314	18	023 954	-110 333
GDP at current prices	Total	(m€)	Р	er capita (€)
	159 963.7	•		8 100
Export (m€)		65	759.4	
Export/GDP (%)		4	41%	
Import (m€)		66	66 743.0	
Import/GDP (%)		4	42%	
Length of motorways and express-roads (2013, km)				

CONTACT DATA

AGRICULTURE

Table 14.2. Farm indicators (2015)

m€		% (2014)	
6 488.	19	5	5.3%
15 465.33			
1.8%			
23 839 070			
ha			%
13 05	5 850		55%
3 629 660			
Aver.	Natur	al	Legal
4.0	2	.2	246.4
176 841			
	6 488. 13 05: Aver.	15 465 1.89 23 839 ha 13 055 850 3 629 6 Aver. Natur 4.0 2	15 465.33 1.8% 23 839 070 ha 13 055 850 3 629 660 Aver. Natural 4.0 2.2

Figure 14.1. Landuse for agriculture (2013, %)

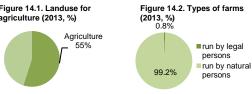


Table 14.3. Employment in agriculture Agriculture in total employment (2014, %) Employment on farms (2013, annual working unit) 1 552 630

Figure 14.3. Standard output (SO) of farms (2013, €)

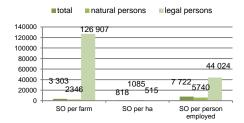


Table 14.4. Top types of plant and animal production compared with

•	EU-28 production (2015)					
	Plant production	1000t	% of EU-28			
	Maize	8 984.74	1.69%			
	Wheat and spelt	7 962.42	5.18%*			
	Potatoes	2625.02	4.94%			
	Animal production					
	Milk	919.3	0.61%			
	Meat of poultry	374.79	2.99%*			
	Meat of pigs	330.47	1.44%			

Top 3 plant production area are (1000 ha): maize (2607.37), wheat and spelt (2106.59), sunflower seeds (1 011.52).

Top 3 % of EU-28 plant and animal production: sunflower seed (22.59%), maize (15.25%), soya (10.74%) and meat of poultry (2.99%*), meat of pigs (1.44%), meat od sheep and goats (1.21%*).

Table 14.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	18.8%
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	17%
Total water withdrawal per capita (2009, m3/yr/cap)	320
Pesticides use (2000-2009, kg/ha)	0.7
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	46.1

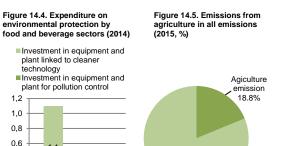
1.1

Food sector

0.4

0.2

0.0



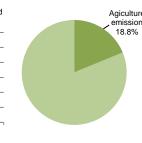


Figure 14.6. Generation of waste by agri-food sector (2014. % of total)

Manufacture of food products; beverages and tobacco products

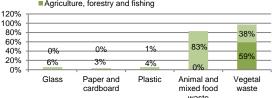
Agriculture, forestry and fishing

0.2

0.2

Beverages

sector



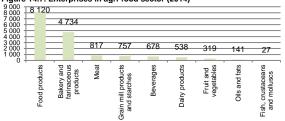
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Table 14.6. Agriculture processing indicators (2014)

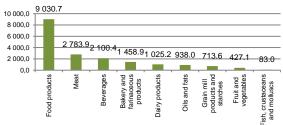
rabio :				
Enterprises that sell goods and/or services		Food sector	Beverages sector	
in manufacture sector	In other EU, EFTA or EU-candidate countries	NA	NA	
	In any other country than EU countries, EFTA or EU-candidate countries	NA	NA	
Total turnover of innovative enterprises in agri-food sector (1000€)		2 733 771	734 419	
Innovative enterprises in agri-food sector (%)		14.0	NA	

Figure 14.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 48 091

Figure 14.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 68 894.1

Figure 14.9. Average food and beverage consumption mix (2010, %)

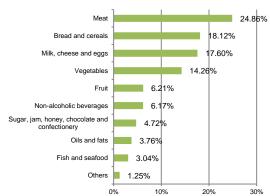
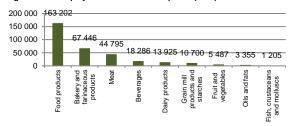
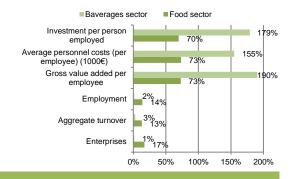


Figure 14.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 1 180 098

Figure 14.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 14.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	11.617	0.6
Researchers in business enterprises	11 6	681
Researchers in food and beverages enterprises	11	0
Agriculture in public R&D spending (% GBAORD)	5.0	3%

Table 14.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Figure 14.12. Enterprises engaging in innovation activities (%)

Patent ap

Trade Food

Transport

preparations

Agriculture

Biological and

chemical science Food

Pharmaceutical and

Beverages sector Food sector

Inhouse	0.0%	39.8%		
Extern	NA		0.0%	
0%	10%	20%	30%	40%

Figure 14.13. Enterprises engaging in cooperation (%)

4.82

1.67

1.61

123

67

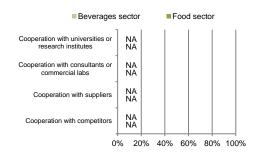


Table 14.9. Barriers to innovations (2014, % of enterprises)

Barrier	No compelling reason to innovate	Lack of good ideas	Lack of internal finance	Too much market competition	Difficulties in obtaining government grants or subsidies
Food sector	86.7%	7.5%	3.2%	2.7%	1.8%
Beverages sector	NA	NA	NA	NA	NA



15. SLOVAKIA

ECONOM

Table 15.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015
	5 426 252	5 46	64 199	4 903
GDP at current prices	Total (m€)		Per capita (€	
	78 685.6			14 500
Export (m€)		73 5	61.8	
Export/GDP (%)		93	%	
Import (m€)		71 6	53.6	
Import/GDP (%)	91%			
Length of motorways and express-roads (2013, km)	1 948			

CONTACT DATA

AGRICULTURE

Table 15.2. Farm indicators (2015)

Gross value added of the agricultural industry	m€ 473.78		% (2014) 4.4%	
Output of the agricultural industry (basic and producer prices, m€)	2 160.67			
Share of total utilised agricultural area occupied by organic farming (%)	9.6%			
Landuse (ha)	4 903 500			
Utilised agricultural area (2013)	ha		%	
	1 901 610			39%
Total number of farms (2013)	23 570			
Average area of a farm (2013, ha)	Aver. Natural I		Legal	
	130.1	1	8.0	982.3
Number of tractors used in 2000-2009	21 372			

Figure 15.1. Landuse for

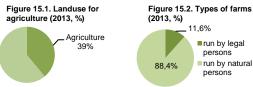


Table 15.3. Employment in agriculture

Agric	ulture in total employment (2014, %)	3.3%
Emple	oyment on farms (2013, annual working unit)	50 600

Figure 15.3. Standard output (SO) of farms (2013, €)

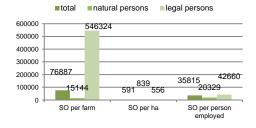


Table 15.4. Top types of plant and animal production compared with

EU-28 production (2015)						
Plant production	1000t	% of EU-28				
Wheat and spelt	2 082.13	1.36%*				
Sugar beet	1205.45	1.18%				
Maize	929.23	1.58%				
Animal production						
Milk	864.63	0.57%				
Meat of pigs	45.24	0.20%				
Chaosa	35.76	በ 38%*				

Top 3 plant production area are (1000 ha): wheat and spelt (377.90), rape, turnip rape, sunflower seeds and soya (238.08), maize (191.44).

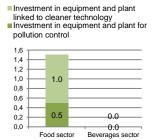
Top 3 % of EU-28 plant and animal production: soya (2.54%), sunflower seed (2.20%), maize (1.58%) and milk (0.57%), butter (0.43%*), cheese (0.38%*).

Table 15.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	9.0%
Total waste generated (2014, t)	463 613
Share of waste recovered (2014, %)	68%
Water withdrawal by agriculture (2007, %)	3.2%
Total water withdrawal per capita (2007, m3/yr/cap)	127
Pesticides use (2000-2009, kg/ha)	1.1
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	77

Figure 15.4. Expenditure on environmental protection by food and beverage sectors (2014)

Figure 15.5. Emissions from agriculture in all emissions (2015, %)



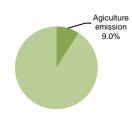
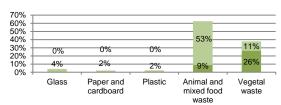


Figure 15.6. Generation of waste by agri-food sector (2014, % of total)

Manufacture of food products; beverages and tobacco products

Agriculture, forestry and fishing



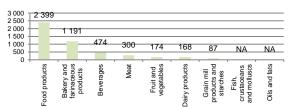
^{*} incomplete data



Table 15.6. Agriculture processing indicators (2014)

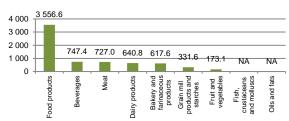
rabio rotor righted tare proceeding materials (2011)							
Enterprises that sell goods and/or services		Food sector	Beverages sector				
in manufacture sector	In other EU, EFTA or EU-candidate countries	41	6				
	In any other country than EU countries, EFTA or EU-candidate countries	15	3				
Total turnover of innovative enterprises in agri-food sector (1000€)		1 794 416	608 554				
Innovative enterprises in agri-food sector (%)		43.0%	50.8%				

Figure 15.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 64 975

Figure 15.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 67 311.9

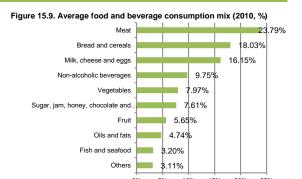
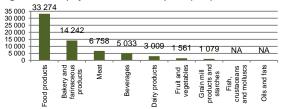


Figure 15.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 467 686

Figure 15.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

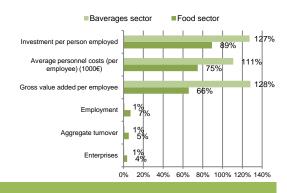


Table 15.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	0.91	0.2
Researchers in business enterprises 5 397		397
Researchers in food and beverages enterprises	30	
Agriculture in public R&D spending (% GBAORD)	in public R&D spending (% GBAORD) 3.36%	

Table 15.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Figure 15.12. Enterprises engaging in innovation activities (%)

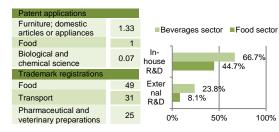


Figure 15.13. Enterprises engaging in cooperation (%)

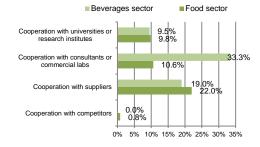


Table 15.9. Barriers to innovations (2014, % of enterprises)

Barrier	No compelling reason to innovate	Lack of internal finance	Difficulties in obtaining government grants or subsidies	Low market demand	Too much market competition
Food sector	57.8%	31.8%	24.2%	19.9%	17.1%
Beverages sector	36.7%	43.3%	16.7%	13.3%	13.3%



16. SLOVENIA

ECONOMY

Table 16.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015
	2 064 188	2 08	30 145	1 314
GDP at current prices	urrent prices Total (m€)		Per capita (€)	
	38 570			18 700
Export (m€)		30 05	59.9	
Export/GDP (%)		78	%	
Import (m€)		26 54	43.3	
Import/GDP (%)	69%			
Length of motorways and express-roads (2013, km)	1 499			

CONTACT DATA

AGRICULTURE

Table 16.2. Farm indicators (2015)

Table 10.2. Farm mulcators (2015)				
Gross value added of the agricultural	m€		% (2014)	
industry	525.4		2.9%	
Output of the agricultural industry (basic and producer prices, m€)	1 263.63			
Share of total utilised agricultural area occupied by organic farming (%)	8.9%			
Landuse (ha)	2 027 300			
Utilised agricultural area (2013)	ha		%	
	485 760 24%		24%	
Total number of farms (2013)	72 380			
Average area of a farm (2013, ha)	Aver. Natural		Legal	
	12.5	1	2.1	147.4
Number of tractors used in 2000-2009	000-2009 103 756			

Figure 16.1. Landuse for agriculture (2013, %)

Agriculture 24%

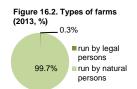


Table 16.3. Employment in agriculture

Agriculture in total employment (2014, %)	8.3%
Employment on farms (2013, annual working unit)	82 450

Figure 16.3. Standard output (SO) of farms (2013, \in)

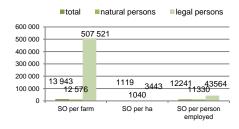


Table 16.4. Top types of plant and animal production compared with

EU-28 production (2015)				
Plant production	1000t	% of EU-28		
Maize	338,71	0.58%		
Wheat and spelt	157,06	0.10%*		
Grapes	117.70	0.46%		
Animal production				
Milk	553,68	0.37%		
Meat of poultry	58,76	0.47%*		
Meat of cattle	33 58	0.44%*		

Top 3 plant production area are (1000 ha): maize (37.74), wheat and spelt (30.73), barley (20.11).

Top 3 % of EU-28 plant and animal production: maize (0.58%), fruits, berries and nuts (0.50%*), grapes (0.46%) and meat of poultry (0.47%*), meat of cattle (0.44%*), milk (0.37%).

Table 16.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	17.6%
Total waste generated (2014, t)	209 704
Share of waste recovered (2014, %)	88%
Water withdrawal by agriculture (2009, %)	0.2%
Total water withdrawal per capita (2009, m3/yr/cap)	464
Pesticides use (2000-2009, kg/ha)	5.7
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	
	210.6

Figure 16.4. Expenditure on environmental protection by food and beverage sectors (2014)

Figure 16.5. Emissions from agriculture in all emissions (2015, %)

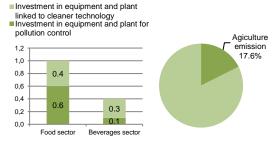
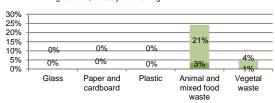


Figure 16.6. Generation of waste by agri-food sector (2014, % of total)

Manufacture of food products; beverages and tobacco products
 Agriculture, forestry and fishing



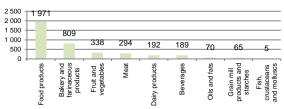
^{*} incomplete data



Table 16.6. Agriculture processing indicators (2014)

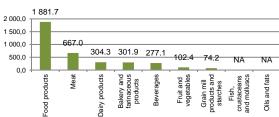
rable 10.0. Agriculture processing malcators (2014)					
Enterprises that sell goods and/or services		Food sector	Beverages sector		
in manufacture sector	In other EU, EFTA or EU-candidate countries	18	NA		
	In any other country than EU countries, EFTA or EU-candidate countries	8	NA		
Total turnover of innovative enterprises in agri-food sector (1000€)		NA	NA		
Innovative enterprises in agri-food sector (%)		NA	NA		

Figure 16.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 18 561

Figure 16.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 24 682.2

Figure 16.9. Average food and beverage consumption mix (2010, %)

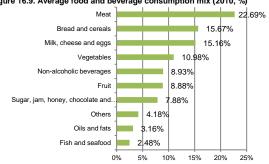
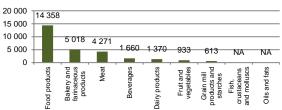
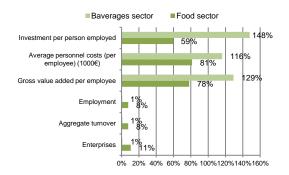


Figure 16.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 188 697

Figure 16.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

Table 16.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.	
Development of enterprises in food and	0.270	3.1	
beverages sectors	6.379		
Researchers in business enterprises	12	661	
Researchers in food and beverages enterprises	2	39	
Agriculture in public R&D spending (% GRAORD)	4 1	9%	

Table 16.8. Top 3 areas of patent applications to the European Figure 16.12. Enterprises engaging in innovation activities (%) Patent Office and European Union trademark registrations (2012, 2015)

7.0

2.83

Patent applications

Biological and

Trademark re Food

Transport

chemical science Agriculture

Pharmaceutical and

veterinary preparations

Furniture; domestic

articles or appliances

.08	■B	everages	sector F	ood sector
3.5	In- house	NA NA		
2.83	R&D	NA		
49	Externa	NA		
31	IR&D	NA		
25	0'	%	1%	2%

Figure 16.13. Enterprises engaging in cooperation (%)

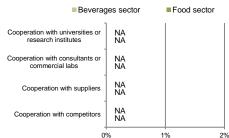


Table 16.9. Barriers to innovations (2014, % of enterprises)

-							
	Barrier	NA	NA	NA	NA	NA	
	Food sector	NA	NA	NA	NA	NA	
	Beverages sector	NA	NA	NA	NA	NA	



17. SPAIN

ECONOMY

Table 17.1. Macroeconomic indicators (2015)

	• •		
2016	2030 (forecast)		Total popul. change 2015
46 445 828	47	110 106	-3 737
Total (m€) Per		capita (€)	
1 075 639 23 200			
	356	873	
	33	%	
	3305	527	
31%			
14 981*			
	2016 46 445 828 Total	(fi 46 445 828 47 Total (m€) 1 075 639 356 330 3303 310	2016 2030 (forecast) 46 445 828 47 110 106 Total (m€) Per 1 075 639 356 873 33% 330527 31%

^{*} only motorways

CONTACT DATA

AGRICULTURE

Table 17.2. Farm indicators (2015)

Gross value added of the agricultural	m€		% (2014)	
industry	23 995	.26	2	2.5%
Output of the agricultural industry (basic and producer prices, m€)	45 490.71			
Share of total utilised agricultural area occupied by organic farming (%)	8.2%			
Landuse (ha)	50 594 400			
Utilised agricultural area (2013)	ha		%	
	23 30	0 220		46%
Total number of farms (2013)		965 0	00	
Average area of a farm (2013, ha)	Aver.	Natu	ral	Legal
	31.1	21	.3	175.7
Number of tractors used in 2000-2009	1 038 726			

Figure 17.1. Landuse for agriculture (2013, %)

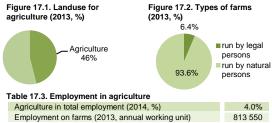


Figure 17.3. Standard output (SO) of farms (2013, €)

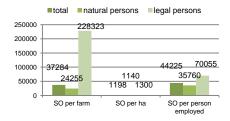


Table 17.4. Top types of plant and animal production compared with

EU-28 production (2015)				
Plant production	1000t	% of EU-28		
Fresh vegetables and strawberries	14 520.6	28.49%*		
Olives	7 344.82	58.36%*		
Barley	6 705.11	10.83%		
Animal production				
Milk	6 799.94	4.49%		
Meat of pigs	3 854.66	16.82%		
Meat of poultry	1 446.99	11.55%*		

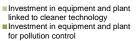
Top 3 plant production area are (1000 ha): barley (2 598.90), olives (2526.50), wheat and spelt (2176.35).

Top 3 % of EU-28 plant and animal production: citrus fruits (78.83%*), olives $(58.36\%^*),$ rice (28.78%) and fish production (22.44%, 2014), meat of sheep and goats (16.34%*), meat of pigs (16.82%).

Table 17.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture (2015, % all sectors)	12.6%
Total waste generated (2014, t)	6 862 569
Share of waste recovered (2014, %)	75.0%
Water withdrawal by agriculture (2008, %)	60.5%
Total water withdrawal per capita (2008, m3/yr/cap)	705
Pesticides use (2000-2009, kg/ha)	1.9
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	70.3

Figure 17.4. Expenditure on environmental protection by food and beverage sectors (2014)



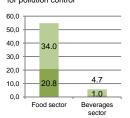


Figure 17.5. Emissions from agriculture in all emissions (2015, %)

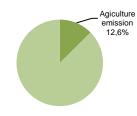
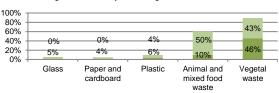


Figure 17.6. Generation of waste by agri-food sector (2014, % of total)

Manufacture of food products; beverages and tobacco products
Agriculture, forestry and fishing



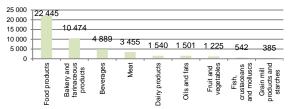
^{*} incomplete data



Table 17.6. Agriculture processing indicators (2014)

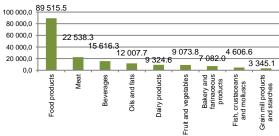
Enterprises that sell goods and/or services		Food sector	Beverages sector
in manufacture sector	In other EU, EFTA or EU-candidate countries	335	NA
	In any other country than EU countries, EFTA or EU-candidate countries	204	NA
Total turnover of innovative enterprises in agri-food sector (1000€)		57 640 401	NA
Innovative enterprises in agri-food sector (%)		37.7%	NA

Figure 17.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 166 589

Figure 17.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 455 944.5

Figure 17.9. Average food and beverage consumption mix (2010, %)

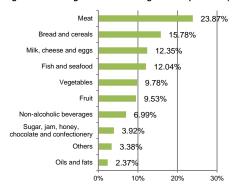
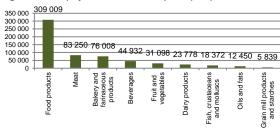
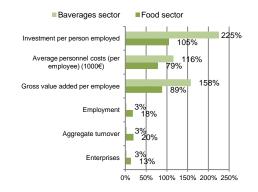


Figure 17.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 1 724 072

Figure 17.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



RESEARCH AND DEVELOPMENT

45.52

36.14

27.86 1 537

1083

722

0%

Table 17.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	NA	NA
Researchers in business enterprises	127	570
Researchers in food and beverages enterprises	N	IA
Agriculture in public R&D spending (% GBAORD)	6.3	84%

Table 17.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Biological and

Agriculture

Transport

veterinary preparations

Food

chemical science Furniture; domestic

articles or appliances

Pharmaceutical and

Beverages sector Food sector

Inhouse R&D 44.1%

IR&D 20.0%

30%

45%

15%

Figure 17.12. Enterprises engaging in innovation activities (%)

Figure 17.13. Enterprises engaging in cooperation (%)



Table 17.9. Barriers to innovations (2014, % of enterprises)

Barrier	NA	NA	NA	NA	NA
Food sector	NA	NA	NA	NA	NA
Beverages sector	NA	NA	NA	NA	NA



18. ALBANIA

ECONOMY

Table 18.1. Macroeconomic indicators (2015)

Table 10:1: Madi deddinomic malcators (2010)						
Population (1st Jan.)	2016 20 (foreca		Total popul. change 2015			
	2 886 026	NA	-6 277			
GDP at current prices	Total (m€)		Per capita (€)			
	10 267.2		3 600			
Export (m€)	2 798.8					
Export/GDP (%)		27%				
Import (m€)	4 571.0					
Import/GDP (%)	45%					
Length of motorways and express-roads (2013, km)		NA				

CONTACT DATA

AGRICULTURE

Table 18.2. Farm indicators (2015)

rubic 10.2. Furni maioatoro (2010)				
Gross value added of the agricultural	m€		%	(2014)
industry	NA			NA
Output of the agricultural industry (basic and producer prices, m€)		NA		
Share of total utilised agricultural area occupied by organic farming (%)	NA			
Landuse (ha)	2 874 800			
Utilised agricultural area (2013)		ha		%
	1 201 0	00	43.	8%
Total number of farms (2013)	NA			
Average area of a farm (2013, ha)	Aver.	Natur	ral	Legal
	NA	N	١A	NA
Number of tractors used in 2000-2009	7 438			

Figure 18.1. Landuse for

agriculture (2013, %)

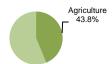


Table 18.3. Employment in agriculture

Agriculture in total employment (2011, %)	44.1%
Rural population (% of total, 2011)	46.6%

Table 18.4. Top types of plant and animal production (2015)

1000t
1030.0
380.0
275.0
105.2
13.5
8.7

Top 3 plant production area are (1000 ha): wheat and spelt (69.9), maize (54.6), olives (41.5).

Table 18.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	NA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	57.7%
Total water withdrawal per capita (2009, m3/yr/cap)	595
Pesticides use (2000-2009, kg/ha)	NA
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	78.2



19. ARMENIA

ECONOMY

Table 19.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	2 998 577	1	NA	NA	
GDP at current prices	Total (mUS	D)	Per	r capita (USD)	
	10529.0		348	9.1	
Export (mUSD)	3 137.3				
Export/GDP (%)	30%				
Import (mUSD)		4 418	3.2		
Import/GDP (%)	42%				
Length of motorways and express-roads (2013, km)	NA				

CONTACT DATA

AGRICULTURE

Table 19.2. Farm indicators (2015)

Gross value added of the agricultural	m€	% (2014)	
industry	NA	NA	
Output of the agricultural industry (basic and producer prices, m€)	1	NA	
Share of total utilised agricultural area occupied by organic farming (%)	0.04%		
Landuse (ha)	2 980 000		
Utilised agricultural area (2013)	ha	%	
	1 711 000	57%	
Total number of farms (2013)	NA		
Average area of a farm (2013, ha)	Aver. Na	tural Legal	
	NA	NA NA	
Number of tractors used in 2000-2009	13	122	

Figure 19.1. Landuse for agriculture (2013, %)

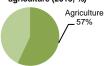


Table 19.3. Employment in agriculture

Agriculture in total employment (2011, %)	44.2%
Rural population (% of total, 2011)	35.9%

Table 19.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	NA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	65.8%
Total water withdrawal per capita (2009, m3/yr/cap)	920
Pesticides use (2000-2009, kg/ha)	0.4
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	26.9



20. BOSNIA AND HERZEGOVINA

Table 20.1. Macroeconomic indicators (2015) Total popul. 2030 Population (1st Jan.) 2015 (forecast) change 2015 3 810 416 NA NA GDP at current prices Total (mUSD) Per capita (USD) 16 191.0 Export (mUSD) NA Export/GDP (%) NA Import (mUSD) NA Import/GDP (%) NA Length of motorways and express-roads (2013, km)

NA

CONTACT DATA

AGRICULTURE

Table 20.2. Farm indicators (2015)

Gross value added of the agricultural	m€	% (2014)	
industry	NA	NA	
Output of the agricultural industry (basic and producer prices, m€)	NA		
Share of total utilised agricultural area			
occupied by organic farming (%)	0.02%		
Landuse (ha)	5 119 700		
Utilised agricultural area (2013)	ha	%	
	2 151 000	42%	
Total number of farms (2013)	NA		
Average area of a farm (2013, ha)	Aver. Natural Leg		
	NA	NA NA	
Number of tractors used in 2000-2009	NA		

Figure 20.1. Landuse for agriculture (2013, %)

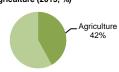


Table 20.3. Employment in agriculture

Agriculture in total employment (2011, %)	19.7%
Rural population (% of total, 2011)	51.8%

Table 20.4. Top types of plant and animal production (2015)

Plant production	1000t
Maize	785.84
Potatoes	351.22
Barley	63.19
Animal production	
Meat of poultry	48.7
Meat of cattle	22.85
Meat of pigs	8.3

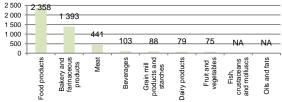
Top 3 plant production area are (1000 ha): maize (192.87), potatoes (35.58), fresh vegetables and strawberries (29.02)

Table 20.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	NA
•	
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	NA
Total water withdrawal per capita (2009, m3/yr/cap)	90
Pesticides use (2000-2009, kg/ha)	NA
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	
rvittogeri, priospriate and potasir fertilizers dee (2005, kg/fla)	29.2
	20.2

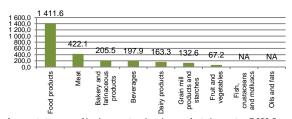
AGRICULTURAL PROCESSING

Figure 20.7. Enterprises in agri-food sector (2014)



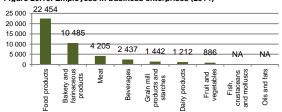
Total number of enterprises in manufacturing sector: 9 517

Figure 20.8. Aggregate turnover of business enterprises (2014)



Aggregate turnover of business enterprises in manufacturing sector: 7 250.5

Figure 20.10. Employees in business enterprises (2014)



Employees in total manufacturing sector: 139 999 Figure 20.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

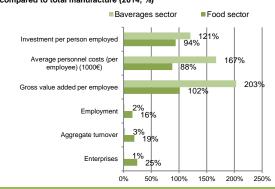


Table 20.7. Research and Development indicators (2014)

	m€	€ per
Business Expenditures on Research and		inhab.
Development of enterprises in food and beverages	NA	NA
sectors		

Researchers in business enterprises	373
Researchers in food and beverages enterprises	NA
Agriculture in public R&D spending (% GBAORD)	31.72%



21. FAROE ISLANDS

ECONOMY

Table 21.1. Macroeconomic indicators (2015)

		-,			
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	49 117	NA		+ 123	
GDP at current prices	Total (mL	ISD) Per		er capita (USD)	
	2613 53199.5				
Export (m€)	NA				
Export/GDP (%)	NA				
Import (m€)	NA				
Import/GDP (%)	NA				
Length of motorways and express-roads (2013, km)		N.A	١		

CONTACT DATA



22. FORMER YUGOSLAV REPUBLIC OF MACEDONIA

Table 22.1. Macroeconomic indicators (2015) Population (1st Jan.) 2016 2030 Total popul. (forecast) change 2015 2 071 278 2 106 NA GDP at current prices Total (m€) Per capita (€) 9 060.7 NA Export (m€) 4 421.9 Export/GDP (%) 49% Import (m€) 5 891.8 Import/GDP (%) 65% Length of motorways and express-roads (2013, km) NA

CONTACT DATA

AGRICULTURE

Table 22.2. Farm indicators (2015)

Gross value added of the agricultural industry	m€ NA			(2014) NA
Output of the agricultural industry (basic and producer prices, m€)	NA			
Share of total utilised agricultural area occupied by organic farming (%)		0.7	·%	
Landuse (ha)	2 571 300			
Utilised agricultural area (2013)	ha			%
	1 118 000 43%			6
Total number of farms (2013)	NA			
Average area of a farm (2013, ha)	Aver. Natural Lega			Legal
	NA		NA	NA
Number of tractors used in 2000-2009	53 606			

Figure 22.1. Landuse for agriculture (2013, %)

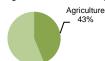


Table 22.3. Employment in agriculture

Agriculture in total employment (2011, %)	19.7%
Rural population (% of total, 2011)	40.7%

Table 22.4. Top types of plant and animal production (2015)

Plant production	1000t
Fresh vegetables and strawberries	849.43
Grapes	325,77
Fruits berries and nuts	225 34

Top 3 plant production area are (1000 ha): wheat and spelt (73.06), barley

(41.16), fresh vegetables and strawberries (37.08). Table 22.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	NA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	12.3%
Total water withdrawal per capita (2009, m3/yr/cap)	502
Pesticides use (2000-2009, kg/ha)	0.2
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	
	52.5

Figure 22.6. Generation of waste by agri-food sector (2014, % of total)

■ Manufacture of food products; beverages and tobacco products

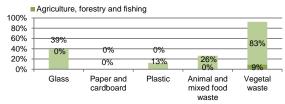


Figure 22.9. Average food and beverage consumption mix (2010, %)

Milk, cheese and eggs

Non-alcoholic beverages

Sugar, jam, honey, chocolate and

Bread and cereals

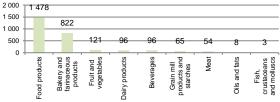
Vegetables

Others

Oils and fats

AGRICULTURAL PROCESSING

Figure 22.7. Enterprises in agri-food sector (2014)



Total number of enterprises in manufacturing sector: 7 085

Figure 22.8. Aggregate turnover of business enterprises (2014)

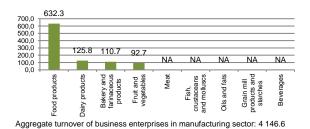
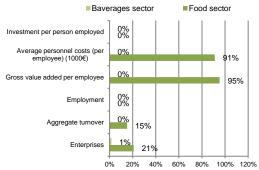


Figure 22.11. Manufacture of food products and be erages indicators



21,47%

18,19%

16,78%

2,96%

6,93%

4,20% 2,69%



23. GEORGIA

ECONOMY

Table 23.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2015	2030 (forecast)		Total popul. change 2015	
	3 679 000		NA	NA	
GDP at current prices	Total (mUS	D) Per		Per capita (USD)	
	13 9	13 965.0 3 796.0			
Export (mUSD)	6 290.3				
Export/GDP (%)		45	%		
Import (mUSD)		9 06	5.0		
Import/GDP (%)	65%				
Length of motorways and express-roads (2013, km)		N	A		

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AGRICULTURE

Table 23.2. Farm indicators (2015)

Gross value added of the agricultural	m€	%	% (2014)	
industry	NA		NA	
Output of the agricultural industry (basic and producer prices, m€)		NA		
Share of total utilised agricultural area occupied by organic farming (%)		0.08%		
Landuse (ha)	6 970 000			
Utilised agricultural area (2013)	ha			
	2 469 000 3			
Total number of farms (2013)	NA			
Average area of a farm (2013, ha)	Aver. Natural		Legal	
	NA	NA	NA	
Number of tractors used in 2000-2009	17 199			

Figure 23.1. Landuse for agriculture (2013, %)

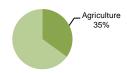


Table 23.3. Employment in agriculture

Agriculture in total employment (2011, %)	53.4%
Rural population (% of total, 2011)	47.2%

Table 23.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	NA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	58.2%
Total water withdrawal per capita (2009, m3/yr/cap)	411
Pesticides use (2000-2009, kg/ha)	NA
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	33.2



24. MOLDOVA

ECONOMY

Table 24.1. Macroeconomic indicators (2015)

Table 24.1. Macroeconomic malcators (2015)					
Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	3 553 056		NA	-2 103	
GDP at current prices	Total (mUS	D)	Per capita (USD)		
	6 568.3	6 568.3		48.1	
Export (mUSD)	2 845.4				
Export/GDP (%)		439	%		
Import (mUSD)		4 87	4.4		
Import/GDP (%)	74%				
Length of motorways and express-roads (2013, km)	NA				

CONTACT DATA

AGRICULTURE

Table 24.2. Farm indicators (2015)

rubic 24.2. rumi maioatoro (2010)					
Gross value added of the agricultural	m€		%	(2014)	
industry	NA			NA	
Output of the agricultural industry (basic and producer prices, m€)	NA				
Share of total utilised agricultural area occupied by organic farming (%)	0.89%				
Landuse (ha)	3 384 300				
Utilised agricultural area (2013)	ha			%	
	2 459 (000		73%	
Total number of farms (2013)		N.	A		
Average area of a farm (2013, ha)	Aver. Natural		ıral	Legal	
	NA		NA	NA	
Number of tractors used in 2000-2009	35 984				

Figure 24.1. Landuse for agriculture (2013, %)

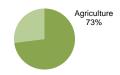


Table 24.3. Employment in agriculture

Agriculture in total employment (2011, %)	27.5%
Rural population (% of total, 2011)	52.3%
Top 3 plant production area are (1000 ha): cereals (134.90), i and spelt (89.90), maize (41.50), fresh vegetables and strawb	

Table 24.5. Environmental impacts of agri-food sector

. abio 2 no. 2 non commontan impacto or agii noca co	
Greenhouse Gas Emissions (CO2 equivalent) by ag	riculture
(2015, % all sectors)	NA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	39.7%
Total water withdrawal per capita (2009, m3/yr/cap)	483
Pesticides use (2000-2009, kg/ha)	1.1
Nitrogen, phosphate and potash fertilizers use (200	9, kg/ha) 8.1



25. MONTENEGRO

ECONOMY

Table 25.1. Macroeconomic indicators (2015)

rabio zorii macrosociio marcatoro (zoro)							
Population (1st Jan.)	2016	2030 (forecast)		(forecast)		Total popul. change 2015	
	622 218	NA		119			
GDP at current prices	Total	(m€)		otal (m€)		Per capita (€)	
	3 624.7		NA				
Export (m€)		1 53	9.2				
Export/GDP (%)		42	%				
Import (m€)		2 21	3.6				
Import/GDP (%)	61%						
Length of motorways and express-roads (2013, km)	NA						

CONTACT DATA

AGRICULTURE

Table 25.2. Farm indicators (2015)

Gross value added of the agricultural	m€	%	(2014)	
industry	NA		NA	
Output of the agricultural industry (basic and producer prices, m€)	NA			
Share of total utilised agricultural area occupied by organic farming (%)	0.60%			
Landuse (ha)	1 381 200			
Utilised agricultural area (2013)		%		
	512 0	00	37%	
Total number of farms (2013)		NA		
Average area of a farm (2013, ha)	Aver. Natural		Legal	
	NA	NA	NA	
Number of tractors used in 2000-2009	NA			

Figure 25.1. Landuse for agriculture (2013, %)

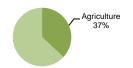


Table 25.3. Employment in agriculture

Agriculture in total employment (2011, %)	NA
Rural population (% of total, 2011)	36.7%

Table 25.4. Top types of plant and animal production (2015)

Plant production	1000t
Fresh vegetbles and strawberries	41.46
Potatoes	27.19
Grapes	23.09
Animal production	
Milk	23.4
Meat of cattle	4.12
Meat of sheep and goats	0.86

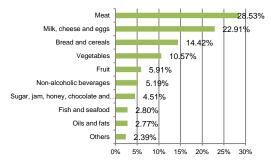
Top 3 plant production area are (1000 ha): grapes (2.63), cereals (2.30), including wheat and spelt (0.74), potatoes (1.63), fresh vegetables and strawberries (1.23)

Table 25.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	NA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	1.1%
Total water withdrawal per capita (2009, m3/yr/cap)	255
Pesticides use (2000-2009, kg/ha)	0
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	10.4

AGRICULTURAL PROCESSING

Figure 25.9. Average food and beverage consumption mix (2010, %)





26. SERBIA

ECONOMY

Table 26.1. Macroeconomic indicators (2015)

Population (1st Jan.)	2016	2030 (forecast)		Total popul. change 2015	
	7 076 372		NA	-38 021	
GDP at current prices	Total	(m€)		Per capita (€)	
	33491.0	33491.0		4 700	
Export (m€)	15 631.5				
Export/GDP (%)		47	%		
Import (m€)		18 89	97.8		
Import/GDP (%)	56%				
Length of motorways and express-roads (2013, km)	NA				

CONTACT DATA

AGRICULTURE

Table 26.2. Farm indicators (2015)

abic 20:2: I dilli ilidicatoro (2010)				
Gross value added of the agricultural	of the agricultural m€		% (2014)	
industry	NA			NA
Output of the agricultural industry (basic and producer prices, m€)	NA			
Share of total utilised agricultural area				
occupied by organic farming (%)	0.12%			
Landuse (ha)	8 890 000			
Utilised agricultural area (2013)	ha			%
	5 061	000		57%
Total number of farms (2013)		N/	4	
Average area of a farm (2013, ha)	Aver. Natura		ıral	Legal
	NA		NA	NA
Number of tractors used in 2000-2009	5 844			

Figure 26.1. Landuse for agriculture (2013, %)

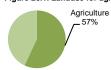


Table 26.3. Employment in agriculture

Agriculture in total employment (2011, %)	21.9%
Rural population (% of total, 2011)	43.6%

Table 26.4. Top types of plant and animal production (2015)

Plant production	1000t
Maize	5 454.8
Wheat and spelt	2 428.2
Sugar beet	2 183.19
Animal production	
Milk	861.81
Meat of pigs	167.24
Meat of poultry	58.58

Top 3 plant production area are: maize (1 010.23), wheat and spelt (589.92), rape, turnip rape, sunflower seeds and soya (363.26).

Table 26.5. Environmental impacts of agri-food sector

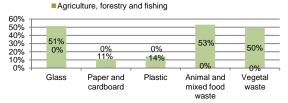
Greenhouse Gas Emissions (CO2 equivalent) by agriculture (2015, % all sectors)	NA
,	INA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	1.9%
Total water withdrawal per capita (2009, m3/yr/cap)	418
Pesticides use (2000-2009, kg/ha)	NA
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	129.6

Figure 26.6. Generation of waste by agri-food sector (2014, % of total)

Manufacture of food products; beverages and tobacco products

Assign the products

Assign the product of the p



AGRICULTURAL PROCESSING

Figure 26.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)

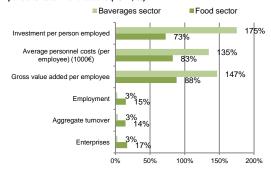


Table 26.7. Research and Development indicators (2014)

	m€	€ per
Business Expenditures on Research and		inhab.
Development of enterprises in food and beverages	NA	NA
sectors		

Researchers in business enterprises	3 182
Researchers in food and beverages enterprises	42
Agriculture in public R&D spending (% GBAORD)	8.22%



27. TURKEY

ECONOMY Table 27.1. Macroeconomic indicators (2015) Population (1st Jan.) 2016 2030 Total popul. (forecast) change 2015 78 741 053 NA 1 045 149 GDP at current prices Total (m€) Per capita (€) 772 609.5 NA Export (m€) Export/GDP (%) 180 258.5 23% 200 552.0 Import (m€) Import/GDP (%) 26% Length of motorways and express-roads (2013, km)

11 480

CONTACT DATA

AGRICULTURE

Table 27.2. Farm indicators (2015)

Gross value added of the agricultural industry	m€ NA	% (2014) 7.5%	
Share of total utilised agricultural area occupied by organic farming (%)	1.61%		
Landuse (ha)	78 356 200		
Utilised agricultural area (2013)	ha	%	
	38 247 000	49%	
Number of tractors used in 2000-2009	941 835		

Figure 27.1. Landuse for agriculture (2013, %)

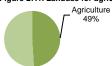


Table 27.3. Employment in agriculture

Agriculture in total employment (2011, %)	23.7%
Rural population (% of total, 2011)	28.5%

Table 27.4. Top types of plant and animal production (2015)

Plant production	1000t
Fresh vegetables and strawberries	29 928.00
Wheat and spelt	22 605.00
Sugar beet	16 023.00
Animal production	
Milk	8 934.2
Meat of poultry	1 962.1
Cheese	665.8

Top 3 plant production area are (1000 ha): wheat and spelt (7 869.00), barley (2 784.00), fruits, berries and nuts (1 660.00).

Table 27.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture (2015, % all sectors)	12.1%
· · · ·	
Water withdrawal by agriculture (2009, %)	73.8%
Total water withdrawal per capita (2009, m3/yr/cap)	573
Pesticides use (2000-2009, kg/ha)	1.4
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	84.8

Figure 27.5. Emissions from agriculture in all emissions (2015, %)

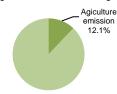
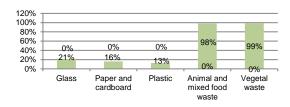


Figure 27.6. Generation of waste by agri-food sector (2014, % of total)

Manufacture of food products; beverages and tobacco products ■ Agriculture, forestry and fishing



AGRICULTURAL PROCESSING

Figure 27.9. Average food and beverage consumption mix (2010, %)

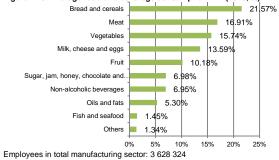


Figure 27.11. Manufacture of food products and beverages indicators compared to total manufacture (2014, %)



Table 27.7. Research and Development indicators (2014)

Business Expenditures on Research and	m€	€ per inhab.
Development of enterprises in food and beverages sectors	45.177	0.6
Researchers in business enterprises	73 7	737
Researchers in food and beverages enterprises	1 3	15
Agriculture in public R&D spending (% GBAORD)	2.2	8%

Table 27.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015)

Patent applications	
Furniture; domestic articles or appliances	38.95
Food	7
Oils & Fats	1.13
Trademark registrations	
Food	132
Beverages	39
Pharmaceutical and veterinary preparations	32



28. UKRAINE

ECONOMY

Table 28.1. Macroeconomic indicators (2015)

Table 20.1. Macroeconomic marcators (2013)				
Population (1st Jan.)	2015	2030 (forecast)		Total popul. change 2015
	45 198 200		NA	NA
GDP at current prices	Total (mUS	D)	Pei	capita (USD)
	90 615.0		2	
Export (mUSD)	47 816.7			
Export/GDP (%)	53%			
Import (mUSD)	49623.0			
Import/GDP (%)	55%			
Length of motorways and express-roads (2013, km)	NA			

CONTACT DATA

AGRICULTURE

Table 28.2. Farm indicators (2015)

Gross value added of the agricultural	m€		% (2014)	
industry	NA		NA	
Output of the agricultural industry (basic and producer prices, m€)	NA			
Share of total utilised agricultural area occupied by organic farming (%)	0.65%			
Landuse (ha)	60 370 000			
Utilised agricultural area (2013)		ha		%
	41 28	1 000		68%
Total number of farms (2013)	NA			
Average area of a farm (2013, ha)	Aver. Natural		al	Legal
	NA	N	Α	NA
Number of tractors used in 2000-2009	333 529			

Figure 28.1. Landuse for agriculture (2013, %)

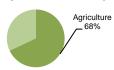


Table 28.3. Employment in agriculture

Agriculture in total employment (2011, %)	21%
Rural population (% of total, 2011)	31.1%

Table 28.5. Environmental impacts of agri-food sector

Greenhouse Gas Emissions (CO2 equivalent) by agriculture	
(2015, % all sectors)	NA
Total waste generated (2014, t)	NA
Share of waste recovered (2014, %)	NA
Water withdrawal by agriculture (2009, %)	51.2%
Total water withdrawal per capita (2009, m3/yr/cap)	801
Pesticides use (2000-2009, kg/ha)	1.1
Nitrogen, phosphate and potash fertilizers use (2009, kg/ha)	26.5



DATA SOURCES

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Table x.1. Macroeconomic indicators (2015). Source: Eurostat. Population change - Demographic balance and crude rates at national level [demo_gind] (2015, 2016); Area by NUTS 3 region [demo_r_d3area] (2015); Population on 1st January by age and sex [proj_15npms] (forecast 2030); Length of motorways and e-roads froad if motorwal (2013)

Table x.2. Farm indicators (2015). Source: Eurostat. Gross value added of the agricultural industry - basic and producer prices [tag00056] (2015); Output of the agricultural industry - basic and producer prices [tag00102] (2015); Area under organic farming [tsdpc440] (2015); Area by NUTS 3 region [demo_r_d3area] (2015); Farm indicators by area, type of farm, standard output, legal entity and NUTS 2 regions [ef_m_farmleg] (2013); FAO: FAO Statistical Yearbook 2014. Europe and Central Asia food and agriculture FAO, Regional Office for Europe and Central Asia, Budapest (2014: 94)

Table x.3. Employment in agriculture. Source: Eurostat. Employment growth and activity branches - annual averages [lfsi_grt_a] (2014); Farm indicators by area, type of farm, standard output, legal entity and NUTS 2 regions [ef_m_farmleg] (2013)

Table x.4. Top types of plant and animal production compared with EU-28 production (2015). Source: Eurostat. Crop statistics by NUTS 2 regions (from 2000 onwards) [agr_r_acs] (2015)

Table x.5. Environmental impacts of agri-food sector. Source: European environment agency (EEA). Greenhouse gas emissions by source sector (source: EEA) [env_air_gge] (2015); Eurostat: Packaging waste by waste operations and waste flow [env_waspac] (2014); FAO: Table 24. Water withdrawal and pressure on renewable water resources. Table 25. Inputs. FAO Statistical Yearbook 2014. Europe and Central Asia food and agriculture FAO, Regional Office for Europe and Central Asia, Budapest (2014: 87, 94)

Table x.6. Agriculture processing indicators (2014). Source: Eurostat: General information about the enterprises [inn_cis7_gen] (2014)

Table x.7. Research and Development indicators (2014). Source: Eurostat. Business enterprise R&D expenditure (BERD) by economic activity (NACE Rev. 2) [rd_e_berdindr2] (2014); Total R&D personnel and researchers, in business enterprise sector by economic activity and sex (NACE Rev. 2) [rd_p_bempoccr2] (2014); Total GBAORD by NABS 2007 socio-economic objectives [gba_nabsfin07] (2014)

Table x.8. Top 3 areas of patent applications to the European Patent Office and European Union trademark registrations (2012, 2015). Source: Eurostat. Patent applications to the EPO by priority year by international patent classification (IPC) sections and classes [pat_ep_nipc] (2012); European Union trade mark (EUTM) registrations by class (Nice classification) [ipr_tr_cl] (2015)

Table x.9. Barriers to innovations (2014, % of enterprises). Source: Eurostat: Importance of the reasons to not innovate and of the barriers to innovation in the enterprises by NACE Rev. 2 activity and size class [inn_cis9_noin] (2014)

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Figure x.1. Landuse for agriculture (2013, %). Source: Eurostat. Area by NUTS 3 region [demo_r_d3area] (2013)

Figure x.2. Types of farms (2013, %). Source: Eurostat. Farm indicators by area, type of farm, standard output, legal entity and NUTS 2 regions [ef_m_farmleg] (2013)

Figure x.3. Standard output (SO) of farms (2013, €). Source: Eurostat. Farm indicators by area, type of farm, standard output, legal entity and NUTS 2 regions [ef_m_farmleg] (2013)

Figure x.4. Expenditure on environmental protection by food and beverage sectors (2014). Source: Eurostat. Environmental protection expenditure by environmental domains (NACE Rev. 2, B-E) [sbs_env_dom_r2] (2014)

Figure x.5. Emissions from agriculture in all emissions (2015, %). Source: European environment agency (EEA). Greenhouse gas emissions by source sector (source: EEA) [env_air_gge] (2015)

Figure x.6. Generation of waste by agri-food sector (2014, %). Source: Eurostat. Generation of waste by waste category, hazardousness and NACE Rev. 2 activity [env_wasgen] (2014)

Figure x.7. Enterprises in agri-food sector (2014). Source: Eurostat. Annual enterprise statistics by size class for special aggregates of activities (NACE Rev. 2) [sbs_sc_sca_r2] (2014)

Figure x.8. Aggregate turnover of business enterprises (2014). Source: Eurostat. Annual enterprise statistics by size class for special aggregates of activities (NACE Rev. 2) [sbs_sc_sca_r2] (2014)

Figure x.9. Average food and beverage consumption mix (2010, %). Source: Eurostat. Mean consumption expenditure by detailed COICOP level (in PPS) [hbs_exp_t121] (2010)

Figure x.10. Employees in business enterprises (2014). Source: Eurostat. Annual enterprise statistics by size class for special aggregates of activities (NACE Rev. 2) [sbs_sc_sca_r2] (2014)

Figure x.11. Manufacture of food products and beverages indicators in total manufacture (2014, %). Source: Eurostat. Mean consumption expenditure by detailed COICOP level (in PPS) [hbs_exp_t121] (2014)

Figure x.12. Enterprises engaging in innovation activities (%). Source: Eurostat. Innovation activities and expenditures in the enterprises by NACE Rev. 2 activity and size class [inn_cis9_exp] (2014)

Figure x.13. Enterprises engaging in cooperation (%). Source: Eurostat. Types of co-operation of the enterprises by NACE Rev. 2 activity and size class [inn_cis9_coop] (2014)