

## **PART V**

# **Indicators of agricultural and food development**

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## **13.1 - Introduction**

This statistical section contains a short presentation of the main indicators of agricultural and food development in Mediterranean countries.

The data relate to demographic and economic aspects, resources and production means, consumption, and international trade.

In view of the fact that few data are available in several countries in the region, in order to ensure comparability we have deliberately limited our data to the indicators most frequently used for population growth, urbanisation, aggregate economic growth and growth agriculture, food consumption and international trade.

## **13.2 - Notes on methodology**

### ***13.2.1 - Data source***

The agricultural statistics (land use, production, trade) have been drawn from the United Nations Food and Agriculture Organisation (FAO).

They are collected from the official bodies in the various countries and completed where necessary by estimates made by the FAO on the basis of provisional or unofficial information.

The macroeconomic information concerning population, national accounts, world trade, etc. have been drawn either from the United Nations series of statistics which are published in various yearbooks (statistical yearbooks, yearbooks of national accounts, population yearbooks, yearbooks of international trade) or from World Bank or IMF publications.

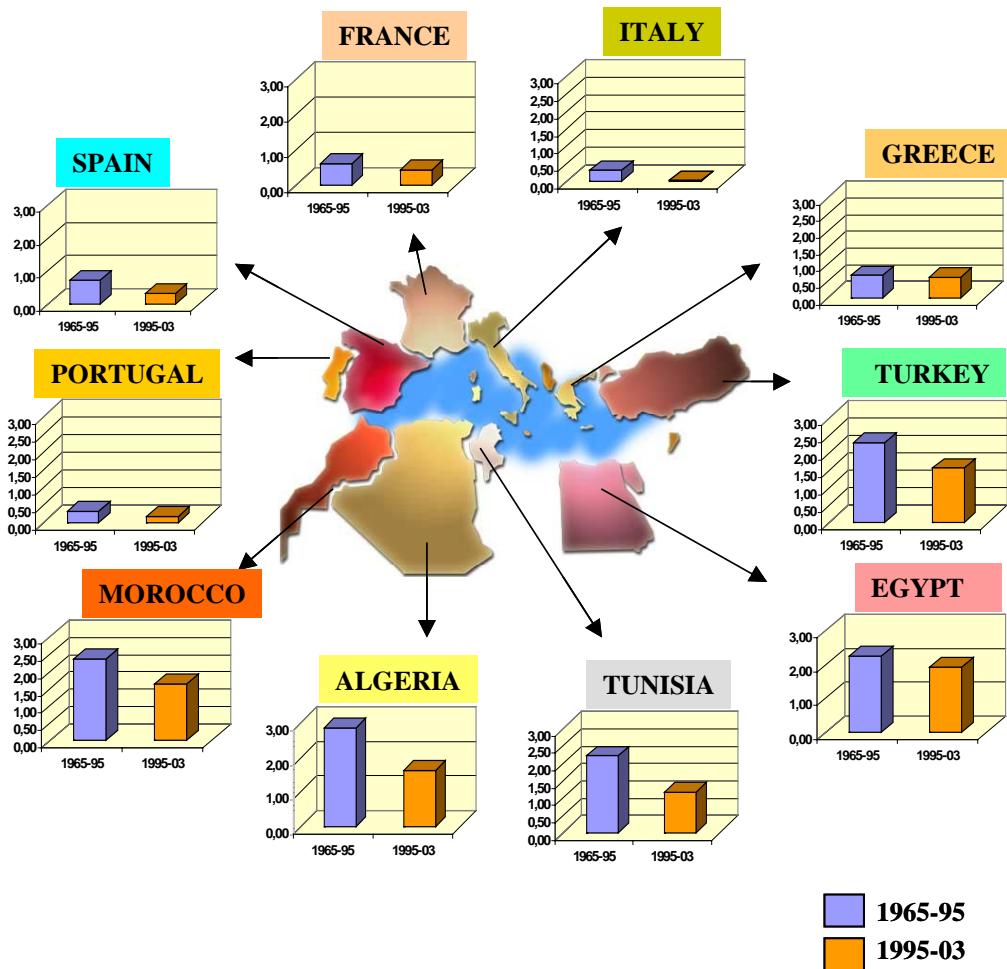
### **13.2.2 – Table of indicators**

**Table 13.1 - Population, demographic growth, urbanisation, agriculture ratio of employment. 2003**

Country	Tot.pop.	Growth rate.	Urb.pop./ Tot.pop.	Rur.pop./ Tot.pop.	Agr.pop./ Tot.pop.	ALF/ TLF	Inhtts/ A.E.
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	mns htts	%	%	%	%	%	
	2003	1965-03		2003			
Albania	3.17	1.40	43.3	56.7	46.3	46.3	4.2
Algeria	31.80	2.62	58.7	41.3	23.2	23.6	11.7
Egypt	71.93	2.19	42.0	58.0	34.7	31.5	8.4
France	60.14	0.55	76.2	23.8	2.9	2.9	77.0
Greece	10.98	0.66	61.1	38.9	12.1	15.2	15.0
Italy	57.42	0.26	67.5	32.5	4.6	4.6	49.6
Lebanon	3.65	1.40	87.9	12.1	3.0	3.1	87.0
Malta	0.39	0.68	91.9	8.1	1.5	1.3	197.0
Morocco	30.57	2.21	57.4	42.6	34.2	33.8	7.1
Portugal	10.06	0.29	54.3	45.7	13.0	11.5	17.1
Spain	41.06	0.65	76.5	23.5	6.3	6.3	35.2
Tunisia	9.83	2.00	63.5	36.5	23.5	23.5	10.2
Turkey	71.33	2.13	66.1	33.9	28.9	44.1	4.8

- (1) Total population in millions of inhabitants
- (2) Average annual demographic growth rate in period 1965-03 (%)
- (3) Part of urban population in the total population (%)
- (4) Part of the rural population in the total population (%)
- (5) Part of the agricultural population in the total population (%)
- (6) Part of the agricultural labour force in the total labour force (%)
- (7) Number of inhabitants per agricultural employee

Source: Medagri 2006, our calculations based on FAO data.

**Figure 13.1 –Demographic growth (%)**

Source: Observatoire Méditerranéen, CIHEAM. [www.medobs.org](http://www.medobs.org)

**Table 13.2 – Gross domestic product, economic growth, agriculture ratio to the GDP**

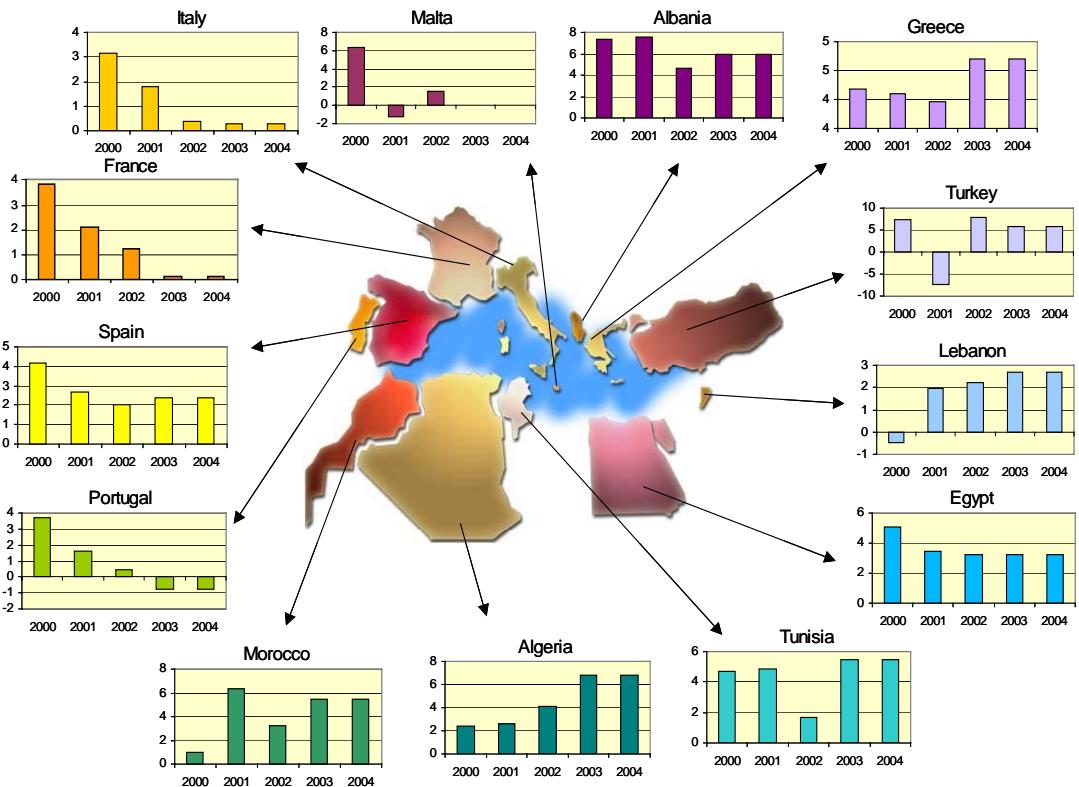
Country	GDP	GDP/ inhtts	Exchange rate *	GDP Growth rate.	AGDP/	AGDP/
	mns \$	\$	LC p 1 \$		GDP	Agr.E.
	2004	2003	2004	%	%	\$
	(1)	(2)	(3)	(4)	(5)	(6)
Albania	7600	1934	92.64	6.00	25.3	1593
Algeria	84600	2049	72.061	6.84	11.1	2641
Egypt	77372	938	6.1314	3.20	16.1	1275
France	2018003	29247	0.8454	0.10	2.0	45089
Greece	205240	15784	0.8454	4.70	6.0	14277
Italy	1468284	25570	0.8454	0.30	2.4	30099
Lebanon	21800	5201	1507.5	2.70	12.2	
Malta	5389	11536	0.3441	-	1.6	
Morocco	50100	1431	8.868	5.50	18.3	1872
Portugal	167662	14633	0.8454	-0.80	3.3	8237
Spain	992054	20424	0.8454	2.40	3.6	26052
Tunisia	28181	2546	1.2455	5.50	12.9	3336
Turkey	302007	2573	1.4255	5.79	13.4	1662

- (1) Gross Domestic Product in millions of \$ US. 2004
- (2) Gross Domestic Product per inhabitant in \$ US. 2003
- (3) Exchange rate. Local monetary unit per 1 \$ US. 2004
- (4) Average annual growth rate of GDP (%). 2004
- (5) Part of agricultural GDP in the total GDP (%). 2003
- (6) Agricultural GDP per agricultural employee (1 \$ US). 2003

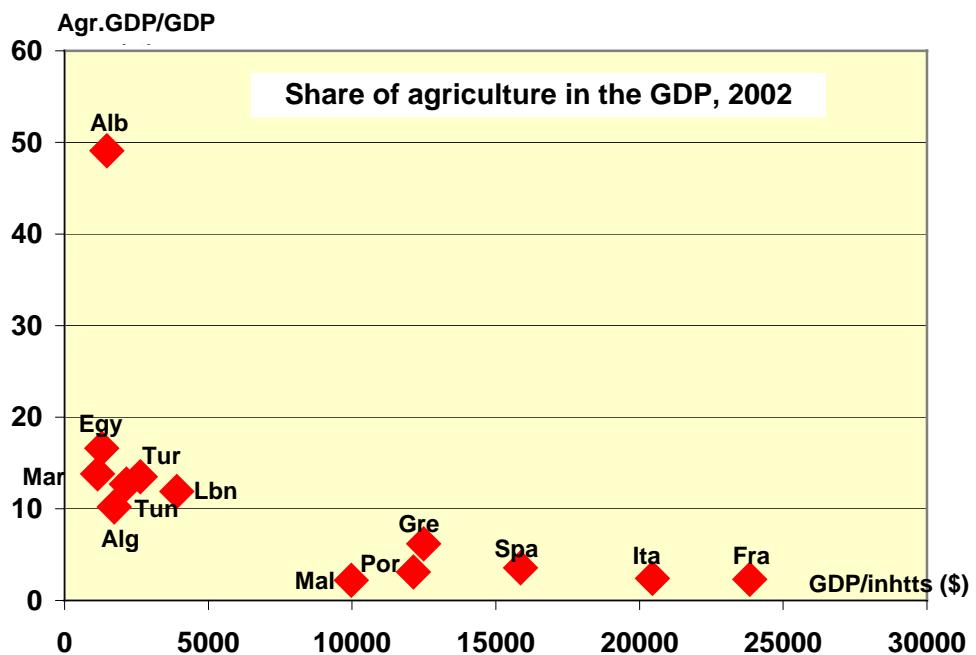
\* Euros per 1 \$ US in Spain, France, Greece, Italy and Portugal

\* LC per 1 \$ = local currency unit per 1 US dollar

Source: Medagri 2006. Our calculations based on FAO data. World bank. IMF and National data.

**Figure 13.2 – Economic growth. Annual growth rate of GDP 2004 (%)**

Source: Observatoire Méditerranéen, CIHEAM. [www.medobs.org](http://www.medobs.org)

**Figure 13.3 – Agriculture in the economy, 2002**

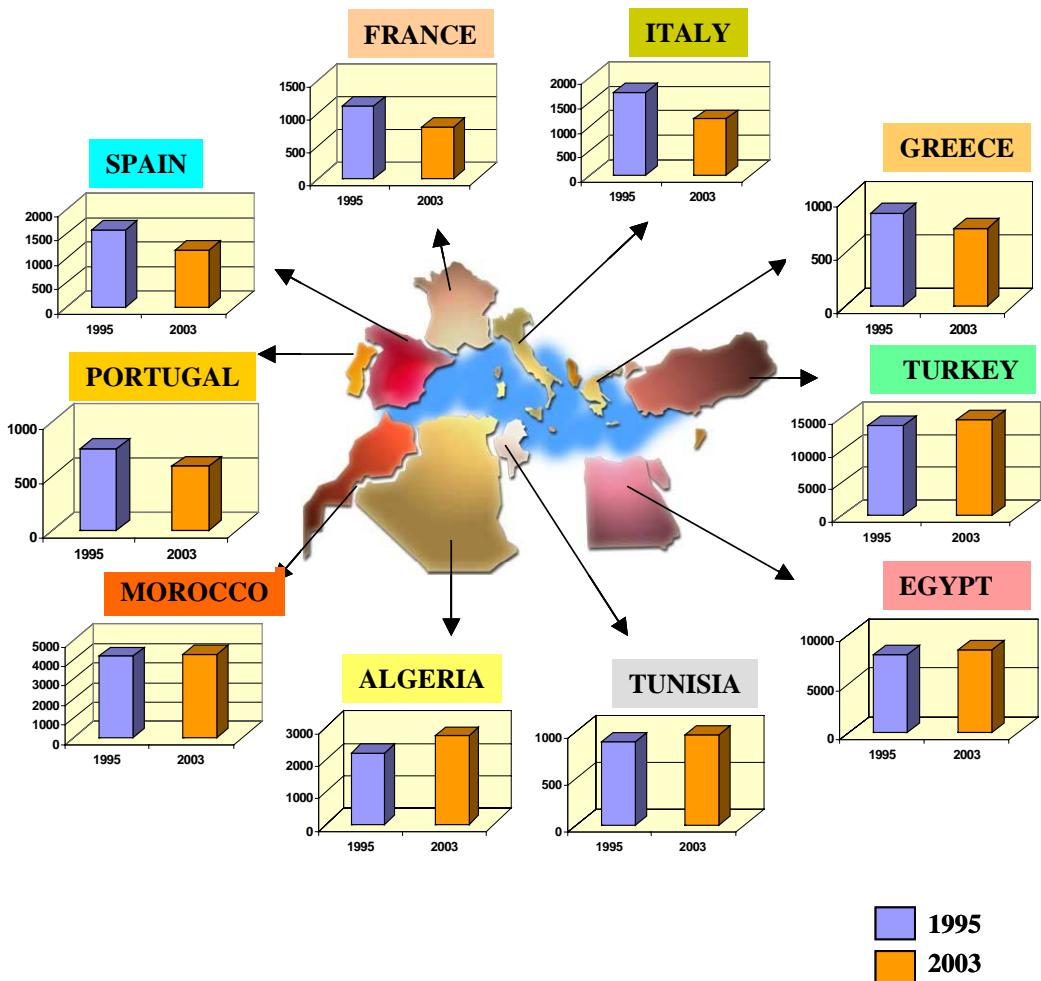
Source: Observatoire Méditerranéen, CIHEAM. [www.medobs.org](http://www.medobs.org)

**Table 13.3 – Cultivated areas. irrigated areas. means of production. 2002**

Country	Arable land. perm.crops. 1000 ha	Cult.Land 1000 htts ha	Cult.Land/ Agr.E ha	Irrig.Land/ Cult.Land %	Cult.Land/ tract ha/tract.	Fert/ Cult.Land kg/ha
	(1)	(2)	(3)	(4)	(5)	(6)
Albania	699	223	0.9	49	88	51
Algeria	8265	264	3.1	7	85	12
Egypt	3400	48	0.4	100	38	373
France	19583	327	23.9	13	15	203
Greece	3846	351	5.1	37	15	105
Italy	11064	192	9.1	25	7	129
Lebanon	313	87	7.3	33	38	126
Malta	10	25	5.0	20	20	70
Morocco	9283	309	2.2	14	189	43
Portugal	2705	269	4.4	24	16	77
Spain	18715	457	15.3	20	20	115
Tunisia	4908	505	5.1	8	140	21
Turkey	28523	406	1.9	18	29	61

- (1) Arable land and permanent crops. 1000 ha
- (2) Cultivated land per inhabitant. ha
- (3) Cultivated land per agricultural employee. ha
- (4) Part of irrigated land in the cultivated land. %
- (5) Cultivated land per tractor. ha
- (6) Fertilizers per hectare. kg

Source: Medagri 2006. Our calculations based on FAO data.

**Figure 13.4 – Agricultural labour force (1000 inhabitants)**

Source: Observatoire Méditerranéen, CIHEAM. [www.medobs.org](http://www.medobs.org)

**Table 13.4 – Main agricultural products. 2004**

Country	Cereals	Vegetables	Fruit	Milk	Meat	Sugar	Olive oil
	1000 T						
Albania	522	679	152	1035	73	3	1
Algeria	3994	2919	1766	1668	560		46
Egypt	20261	14874	7471	5320			
France	70534	8808	11034	25182	6313	5139	4
Greece	4584	3999	4081	1970	478	321	403
Italy	22864	16129	17673	11790	4132	1532	615
Lebanon	145	811	849	310	201		5
Malta	12	46	7	47	20	495	
Morocco	8591	5193	2703	1365	600	76	68
Portugal	1287	2329	1935	2061	689		36
Spain	24743	12975	17055	7135	5564	1317	890
Tunisia	2155	2289	1045	895	263		43
Turkey	33967	24099	10851	10478	1560	1500	169

Source: Based on FAO data.

**Table 13.5 – Growth rate of agricultural products. 2004**

Country	Cereals	Vegetables	Fruit	Milk	Meat*	Sugar	Olive oil
	%						
Albania	2.98	2.27	-2.25	0.49	-3.2	0	0
Algeria	-5.51	-1.18	4.43	9.53	1.19		2.78
Egypt	5.36	5.37	0.85	30.22			
France	28.42	1.94	13.4	-0.95	-3.12	20.01	0
Greece	6.96	3.53	-1.05	1.55	-1.33	43.95	9.73
Italy	26.23	6.46	12.36	-2.09	-2.17	56.65	11.81
Lebanon	0.42	-8.68	4.83	26.49	-0.79		6
Malta	-2.5	-9.51	-6.36	-0.51	1.44		
Morocco	7.88	27.33	0.83	3.78	0.25	-85.18	13.33
Portugal	13.49	4.43	6.49	-7.55	-3.91	-100	22.41
Spain	15.56	9.53	-0.09	3.15	2.25	32.49	-33.08
Tunisia	43.38	9.42	3.56	-9.65	5.21		-28.33
Turkey	10.29	-6.2	-3.12	28.41	15.72	-20	141

\* Meat = bovine meat + ovine meat + poultry meat

Source: Medagri 2006. Our calculations based on FAO data.

**Table 13.6 – Food consumption. 2002 (kg/capita /yr)**

Country	Cereals	Root	Sugar	Pulses	Vegetables	Fruit
	(1)	(2)	(3)	(4)	(5)	(6)
Albania	164.5	32.1	26.8	5.3	172.3	82.3
Algeria	217.3	41.1	30.6	6.1	87.1	58.8
Egypt	235.2	22.5	29.9	9.9	174.4	92.4
France	117.3	66.3	40.0	2.0	137.8	100.0
Greece	152.4	67.3	34.5	4.8	245.5	167.0
Italy	161.9	39.8	31.2	5.6	151.0	131.2
Lebanon	125.5	76.3	34.9	9.5	224.1	130.2
Malta	190.3	76.6	49.2	4.6	129.8	105.6
Morocco	247.3	36.6	33.7	7.9	101.2	64.3
Portugal	132.1	127.6	35.0	4.0	174.4	139.0
Spain	98.2	80.9	34.2	5.7	147.7	118.5
Tunisia	204.2	30.3	32.8	6.8	171.2	85.1
Turkey	219.1	60.7	25.8	14.2	224.3	103.5

Country	Meat	Fish	Milk	Oil	Beverages
	(7)	(8)	(9)	(10)	(11)
Albania	39.3	4.1	298.8	11.2	21.0
Algeria	18.3	3.5	118.2	17.5	3.3
Egypt	22.4	15.0	50.2	8.5	1.0
France	102.3	31.3	275.5	37.0	93.4
Greece	83.2	23.3	255.0	31.4	70.4
Italy	92.1	26.2	255.9	38.4	81.4
Lebanon	51.3	12.2	122.7	20.5	10.7
Malta	78.3	50.2	201.1	19.4	49.8
Morocco	20.7	8.8	42.0	12.8	3.0
Portugal	89.2	59.3	219.7	30.7	118.3
Spain	118.5	47.5	158.3	32.0	106.5
Tunisia	24.5	11.1	105.1	23.0	7.2
Turkey	19.2	7.3	98.0	19.3	11.6

- |                      |                      |                            |
|----------------------|----------------------|----------------------------|
| (1) Cereals          | (5) Vegetables       | (9) Milk and milk products |
| (2) Roots and tubers | (6) Fruit            | (10) Oils and fats         |
| (3) Sugar            | (7) Meat, total      | (11) Alcoholic beverages   |
| (4) Pulses           | (8) Fish and seafood |                            |

Source: Medagri 2006. Our calculations based on FAO data.

**Table 13.7 – International trade ratios for agricultural products. 2004**

Country	Total Import TI	Total Export TE	Agri. Import AI	Agri. Export AE
	million \$			
Albania	2 269	596	289	25
Algeria	18 200	32 300	4 050	55
Egypt	17 975	10 453	3 014	1 314
France	465 229	448 498	34 638	46 642
Greece	52 552	15 190	5 754	3 122
Italy	350 865	348 984	31 694	24 424
Lebanon	9 397	1 747	1 346	252
Malta	3 668	2 490	400	76
Morocco	17 525	9 667	2 058	964
Portugal	54 888	35 750	5 800	2 439
Spain	249 187	178 521	19 798	24 294
Tunisia	12 742	9 682	1 181	974
Turkey	97 540	63 121	4 659	5 958

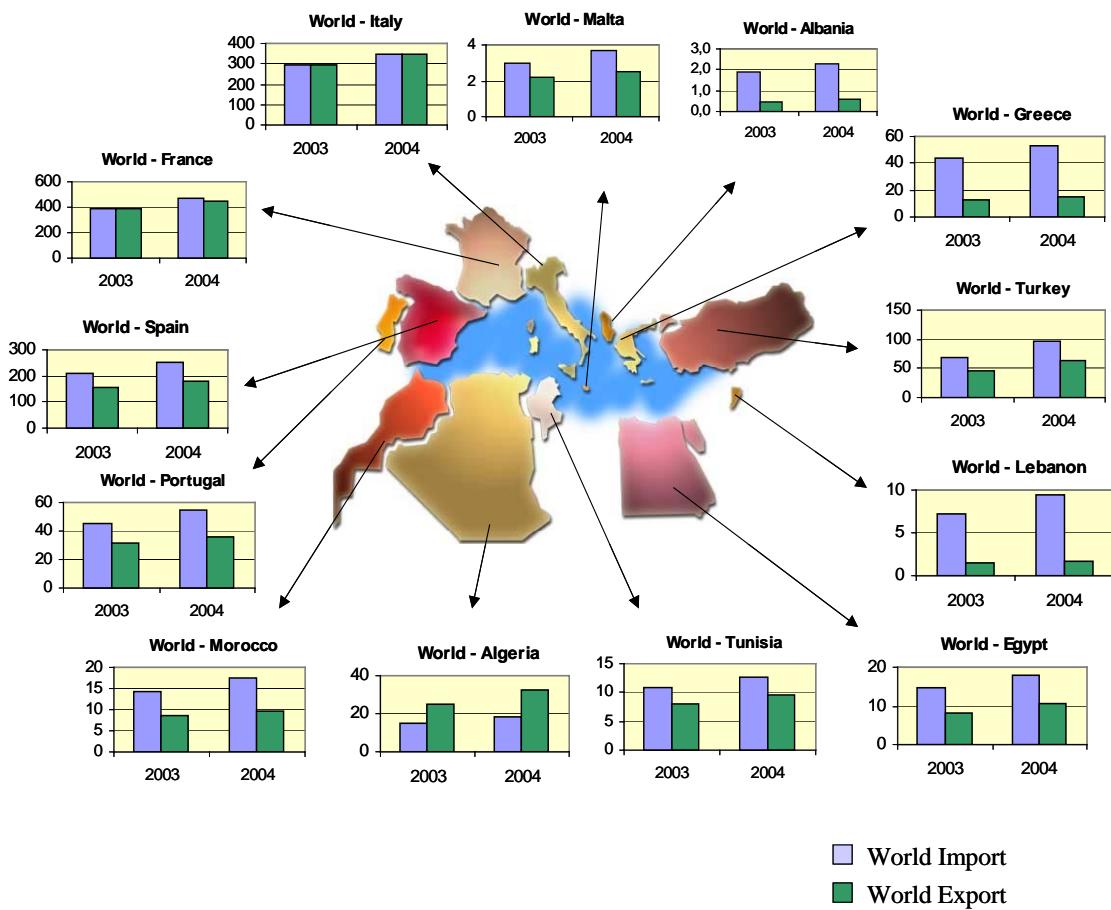
Country	Tot.Bal.std.*	TE / TI	Agr.Bal.Std.**	AE / AI	AI / TI	AE / TE
	%					
Albania	-58.39	26.27	-84.10	8.63	12.72	4.18
Algeria	27.92	177.47	-97.32	1.36	22.25	0.17
Egypt	-26.46	58.15	-39.27	43.61	16.77	12.57
France	-1.83	96.40	14.77	134.66	7.45	10.40
Greece	-55.15	28.91	-29.65	54.26	10.95	20.55
Italy	-0.27	99.46	-12.95	77.06	9.03	7.00
Lebanon	-68.65	18.59	-68.43	18.74	14.33	14.44
Malta	-19.12	67.89	-68.08	18.99	10.91	3.05
Morocco	-28.90	55.16	-36.21	46.83	11.74	9.97
Portugal	-21.11	65.13	-40.79	42.05	10.57	6.82
Spain	-16.52	71.64	10.20	122.70	7.95	13.61
Tunisia	-13.64	75.99	-9.62	82.45	9.27	10.06
Turkey	-21.42	64.71	12.23	127.87	4.78	9.44

\* Total Standardized balance =  $(TE - TI) * 100 / (TE + TI)$

\*\* Agricultural Standardized Balance =  $(AE - AI) * 100 / (AE + AI)$

Source: Medagri 2006. Our calculations based on FAO data.

**Figure 13.5 – External agricultural trade, 2001-2002  
(billion \$)**



Source: Observatoire Méditerranéen, CIHEAM. [www.medobs.org](http://www.medobs.org)

**Table 13.8 - Euro-Mediterranean trade. 2003. All products**

Country	EU exports	EU imports	Trade balance
	TE*	TI*	TE-TI
million \$			
Albania	948.9	317.1	631.8
Algeria	6889.0	12972.0	-6082.9
Egypt	5308.3	3004.5	2303.8
France	217623.6	175515.3	42108.3
Greece	21014.6	5715.7	15298.9
Italy	138887.2	116200.5	22686.7
Lebanon	2931.3	162.1	2769.2
Malta	2253.9	843.4	1410.5
Morocco	7145.1	5515.0	1630.1
Portugal	32607.6	21461.6	11146.1
Spain	118094.6	82370.7	35723.9
Tunisia	6340.5	5417.4	923.1
Turkey	25000.8	21260.9	3739.9

\* TE : Total export; TI : Total import

Source: Eurostat 6B- Intra and extra EU trade, 2005.

**Table 13.9 – Share of Euro-Mediterranean trade in the total trade of each country. 2003**

	EU export/ Total Import	EU import/ Total Export
Albania	50.91	70.01
Algeria	46.58	52.52
Egypt	35.82	36.62
France	55.71	45.38
Greece	48.12	43.30
Italy	47.76	39.79
Lebanon	40.88	10.64
Malta	75.13	38.34
Morocco	50.41	63.32
Portugal	72.33	68.42
Spain	56.81	52.85
Tunisia	58.13	67.41
Turkey	36.37	45.35

**Table 13.10 – EU agro-food trade with the Mediterranean countries:  
Exports from the EU to the Mediterranean countries. 2003**

Country	Cereals	Milk	Oils	Sugar	Meat	Total
	<b>million \$</b>					
Albania	5	5	11	24	6	51
Algeria	325	281	85	76	0	767
Egypt	155	97	12	29	1	293
France	363	2231	945	572	2724	6835
Greece	135	585	75	48	785	1628
Italy	970	2815	1279	490	3410	8965
Lebanon	9	73	9	40	4	134
Malta	3	21	8	12	15	60
Morocco	186	70	56	5	32	348
Portugal	326	350	231	55	631	1592
Spain	795	1209	259	434	715	3413
Tunisia	96	32	86	35	4	253
Turkey	79	32	62	14	1	188

Country	Cereals	Milk	Oils	Sugar	Meat
	<b>1000 T</b>				
Albania	3	3	12	10	9
Algeria	2241	132	127	332	0
Egypt	1243	55	12	112	0
France	1171	1435	903	646	1022
Greece	759	319	74	36	325
Italy	5889	2823	989	542	1299
Lebanon	32	29	13	154	1
Malta	13	8	7	35	6
Morocco	1329	44	82	10	2
Portugal	2011	261	184	35	240
Spain	5254	845	399	533	230
Tunisia	699	31	153	162	2
Turkey	459	15	98	27	0

Source: Eurostat 6B- Intra and extra EU trade, 2005.

**Table 13.11 – EU agro-food trade with the Mediterranean countries:  
Imports of the EU from the Mediterranean countries. 2003**

Country	Vegetables	Fruit	Tobacco	Cotton	Total
	<b>million \$</b>				
Albania	2	1	2	0	6
Algeria	0	15	0	0	15
Egypt	134	48	0	174	356
France	1434	1445	383	411	3673
Greece	98	303	134	233	768
Italy	707	1796	131	1200	3834
Lebanon	0	0	1	0	2
Malta	2	0	0	1	3
Morocco	341	305	0	35	681
Portugal	104	154	118	139	515
Spain	3631	4223	139	421	8415
Tunisia	6	71	1	61	139
Turkey	212	892	130	502	1736

Country	Vegetables	Fruit	Tobacco	Cotton
	<b>1000 T</b>			
Albania	1	2	1	0
Algeria	0	9	0	0
Egypt	259	50	0	61
France	4284	1434	69	69
Greece	67	298	34	104
Italy	680	1765	48	129
Lebanon	1	0	1	0
Malta	4		0	0
Morocco	356	358	0	6
Portugal	163	168	9	18
Spain	3460	4453	29	95
Tunisia	5	48	0	13
Turkey	242	566	29	185

Source: Eurostat 6B- Intra and extra EU trade, 2005.

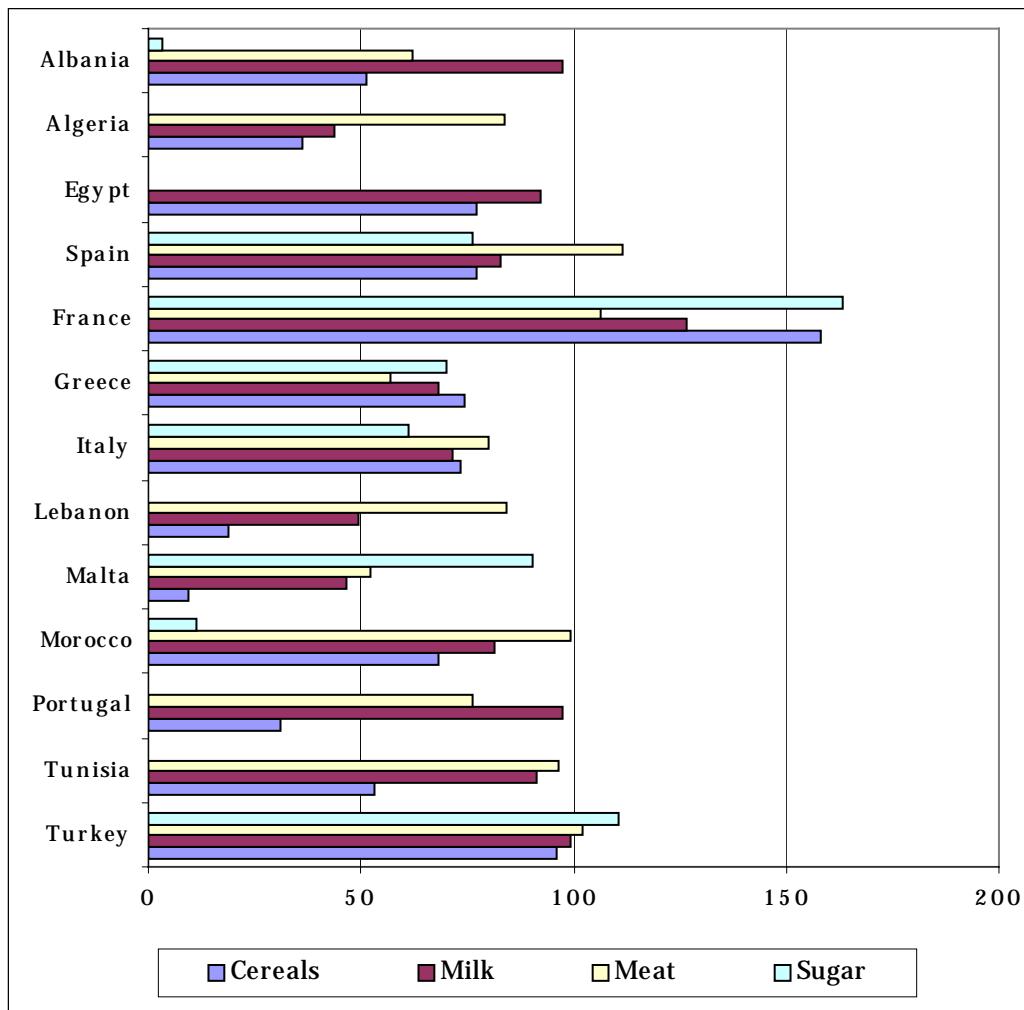
**Table 13.12 – Self Sufficiency ratios for main food products. 2004**

Country	Cereals	Milk	Meat*	Sugar
	%			
Albania	51.12	97.42	62.15	3.43
Algeria	36.31	43.94	83.84	
Egypt	77.23	92.22		
France	158.19	126.70	106.26	163.33
Greece	74.23	68.24	56.91	70.27
Italy	73.46	71.71	80.05	61.34
Lebanon	19.03	49.34	84.21	
Malta	9.21	46.67	52.19	90.34
Morocco	68.24	81.26	99.50	11.26
Portugal	31.24	97.19	76.28	
Spain	76.97	83.06	111.63	76.04
Tunisia	53.00	91.49	96.31	
Turkey	95.98	99.28	101.99	110.65

\* Meat = bovine meat + ovine meat + poultry meat

**Self Sufficiency ratio** = production\*100/(production-export +import)

Source: Our calculations based on FAO data.

**Figure 13.6 – Self Sufficiency ratios for main food products. 2004 (%)**

Source: Our calculations based on FAO data.



CIHEAM

# Agri.Med

## Agriculture, fisheries, food and sustainable rural development in the Mediterranean region



Annual report  
2006

Centre International de Hautes Etudes Agronomiques Méditerranéennes

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