

AGRICULTURE AND FISHERIES

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TREND IN MILK STATISTICS IN THE EU .. 7

METHODOLOGICAL NOTES7



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The impact of enlargement on milk statistics in the European Union

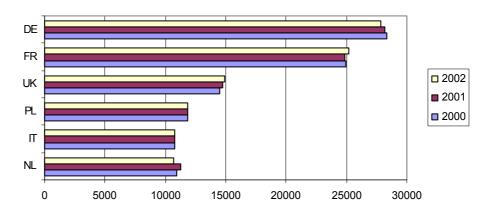
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IN 2002, THE 10 ACCEDING COUNTRIES ACCOUNTED FOR 15.3% OF COWS' MILK PRODUCTION IN EU-15 AND ACC

1. MILK PRODUCTION BY AGRICULTURAL HOLDINGS

GRAPH 1.1:

Comparison of total annual cows' milk production in the six countries each accounting for more than 5% of total production (in 1000 t)



Six EU-15 and ACC countries, each producing more than 5% of total cows' milk, together account for more than 70% of milk production (see Table 1.1).

Germany, France and the UK, which each produce more than 10% of total cows' milk, together account for more than 47% of cows' milk production. With the addition of Poland's share (9%), this figure rises to nearly 56%.

Poland's production of cows' milk is half that of France (second EU producer), being just below the UK level and slightly above that of Italy and the Netherlands.

In absolute terms, estimated total cows' milk production in the ten Acceding Countries is below that of the two main Community producers.

Whilst cows' milk production on agricultural holdings remained stable in the Member States during the reference period, it appears to have fallen slightly in the Acceding Countries from 23 043 (1000 t) in 1998 to 21 965 (1000 t) in 2002.

TABLE 1.1:
Total cows' milk production by agricultural holdings (1000 t) - EU-15 and ACC = 100 %

	1998	%	1999	%	2000	%	2001	%	2002	%
TOT EU15	120757.5	84.0	121691.5	84.5	121361.4	84.7	121834.9	84.7	121211.3	84.7
TOT ACC	23043.0	16.0	22279.4	15.5	21919.9	15.3	22036.6	15.3	21965.0	15.3
TOT EU15+ACC	143800.4	100.0	143970.9	100.0	143281.3	100.0	143871.5	100.0	143176.3	100.0
DE	28328.9	19.7	28334.2	19.7	28332.4	19.8	28191.3	19.6	27874.4	19.5
FR	24807.0	17.3	24831.0	17.2	24929.4	17.4	24879.1	17.3	25172.8	17.6
UK	14639.7	10.2	15021.2	10.4	14495.6	10.1	14715.2	10.2	14904.6	10.4
PL	12596.0	8.8	12272.0	8.5	11889.0	8.3	11884.0	8.3	11873.0	8.3
IT	11036.0	7.7	11032.2	7.7	10773.8	7.5	10764.2	7.5	10743.2	7.5
NL	10995.0	7.6	11174.0	7.8	10966.0	7.7	11291.2	7.8	10677.0	7.5
ES	6104.4	4.2	6144.0	4.3	6289.8	4.4	6494.8	4.5	6592.2	4.6
IE	5141.8	3.6	5172.4	3.6	5211.7	3.6	5390.1	3.7	5229.5	3.7
DK	4603.0	3.2	4591.0	3.2	4719.0	3.3	4552.8	3.2	4590.1	3.2
BE	3418.0	2.4	3382.0	2.3	3425.0	2.4	3357.0	2.3	3160.0	2.2
SE	3331.0	2.3	3350.0	2.3	3348.0	2.3	3339.0	2.3	3274.0	2.3
AT	3042.6	2.1	3131.9	2.2	3233.1	2.3	3299.6	2.3	3292.2	2.3
CZ	2797.5	1.9	2818.0	2.0	2787.0	1.9	2780.0	1.9	2804.0	2.0
FI	2447.3	1.7	2475.3	1.7	2523.6	1.8	2529.6	1.8	2532.0	1.8
HU	2100.4	1.5	2099.7	1.5	2136.8	1.5	2136.0	1.5	2068.1	1.4
LT	1915.1	1.3	1702.0	1.2	1713.0	1.2	1718.4	1.2	1764.9	1.2
PT	1850.0	1.3	2008.9	1.4	2060.2	1.4	1983.2	1.4	2103.5	1.5
SK	1176.0	0.8	1150.5	0.8	1099.0	0.8	1147.0	0.8	1162.0	0.8
LV	948.1	0.7	797.0	0.6	823.0	0.6	846.0	0.6	812.0	0.6
EL	748.7	0.5	776.8	0.5	789.3	0.6	778.1	0.5	795.0	0.6
EE	730.0	0.5	626.1	0.4	629.6	0.4	684.0	0.5	611.0	0.4
SI	599.0	0.4	634.0	0.4	649.0	0.5	653.0	0.5	686.0	0.5
LU	264.0	0.2	266.6	0.2	264.5	0.2	269.7	0.2	270.7	0.2
CY	134.0	0.1	132.5	0.1	146.6	0.1	141.5	0.1	141.5	0.1
MT	46.9	0.0	47.6	0.0	46.9	0.0	46.7	0.0	42.5	0.0

Italics: estimated figure

Source: Eurostat New Cronos, 20/11/2003.

TABLE 1.2:

Comparison of milk production (cows, ewes, goats, buffalo) by agricultural holdings in the Member States and Acceding Countries from 1998 to 2002 – 1000 t

Total whole milk production (all milk) by agricultural holdings

	1998	1999	2000	2001	2002
1. Member States (EU-15)	124177.5	125153.0	125272.1	125642.1	124961.6
2. Acceding Countries	23187.4	22368.8	22063.0	22190.1	22096.1
3. PL	12638.0	12314.0	11930.0	11923.0	11908.0
Part (2) / (1)	18.67%	17.87%	17.61%	17.66%	17.68%
Part (3) / (1)	10.18%	9.84%	9.52%	9.49%	9.53%

Total cows' milk production by agricultural holdings

	1998	1999	2000	2001	2002
1. Member States (EU-15)	120757.5	121691.5	121361.4	121834.9	121211.3
2. Acceding Countries	23043.0	22279.4	21919.9	22036.6	21965.0
3. PL	12596.0	12272.0	11889.0	11884.0	11873.0
Part (2) / (1)	19.08%	18.27%	18.06%	18.09%	18.12%
Part (3) / (1)	10.43%	10.08%	9.80%	9.75%	9.80%

Source: Eurostat New Cronos, 20/11/2003.

Estimated total milk production (all milk) in the Acceding Countries fell from 18.67% of total EU production in 1998 to 17.68% in 2002.

Poland alone accounts for the equivalent of approximately 10% of current total EU-15 production. This figure has fallen slightly from 10.18% in 1998 to 9.53% in 2002.



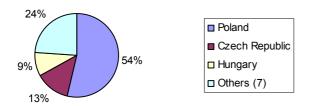
TABLE 1.3: Milk production (all milk) by agricultural holdings in the Candidate Countries from 1998 to 2002 - 1000 t

		1998	1999	2000	2001	2002	TOTAL	%
Czech Republic (CZ)	A ¹	2797.5	2818.0	2787.0	2780.0	2804.0	13986.5	12.5%
Czech Republic (CZ)	B ²	2797.5	2818.0	2787.0	2780.0	2804.0	13986.5	12.5%
Estonia (EE)	Α	730.4	626.7	630.3	684.8	611.6	3283.8	2.9%
Estorila (EE)	В	730.0	626.1	629.6	684.0	611.0	3280.7	2.9%
Cyprus (CY)	Α	177.9	178.0	193.8	199.4	199.4	948.5	0.8%
Cypius (C1)	В	134.0	132.5	146.6	141.5	141.5	696.1	0.6%
Latvia (LV)	Α	950.2	798.7	825.0	848.0	814.0	4235.9	3.8%
Latvia (LV)	В	948.1	797.0	823.0	846.0	812.0	4226.1	3.8%
Lithuania (LT)	Α	1929.9	1714.0	1725.0	1729.8	1770.9	8869.6	7.9%
Ellituarila (E1)	В	1915.1	1702.0	1713.0	1718.4	1764.9	8813.4	7.9%
Hungary (HU)	Α	2116.9	2106.9	2150.9	2151.2	2081.5	10607.5	9.5%
Tungary (TO)	В	2100.4	2099.7	2136.8	2136.0	2068.1	10541.0	9.4%
Malta (MT)	Α	49.7	50.4	49.7	49.5	46.6	245.9	0.2%
iviaita (ivi i)	В	46.9	47.6	46.9	46.7	42.5	230.6	0.2%
Poland (PL)	Α	12638.0	12314.0	11930.0	11923.0	11908.0	60713.0	54.3%
Folalia (FL)	В	12596.0	12272.0	11889.0	11884.0	11873.0	60514.0	54.1%
Slovenia (SI)	Α	601.0	636.0	651.0	655.0	688.0	3231.0	2.9%
Sloverila (SI)	В	599.0	634.0	649.0	653.0	686.0	3221.0	2.9%
Slovakia (SK)	Α	1196.0	1126.1	1120.3	1169.4	1172.0	5783.8	5.2%
Siovakia (SK)	В	1176.0	1150.5	1099.0	1147.0	1162.0	5734.0	5.1%
TOTAL	Α	23187.4	22368.8	22063.0	22190.1	22096.1	111905.5	100.0%
TOTAL	В	23043.0	22279.4	21919.9	22036.6	21965.0	111243.3	100.0%
Bulgaria (BG)	Α	1637.0	1706.0	1705.0	1391.9	1508.6	7948.5	
Bulgaria (BG)	В	1326.0	1388.0	1409.0	1224.1	1305.9	6653.0	
Romania (RO)	Α	5603.0	5418.0	5323.0	5482.0	NT	21826.0	
Nomania (NO)	В	5248.0	5076.0	5002.0	5159.0	NT	20485.0	
Turkey (TR)	Α	NT	NT	NT	NT	NT	0.0	
ruikey (Tit)	В	NT	NT	NT	NT	NT	0.0	

NT: Not transmitted Italics: estimated data

Source: Eurostat New Cronos, 20/11/2003.

GRAPH 1.3: Acceding Countries with average annual cows' milk production of more than 2 million tonnes



During the reference period, Poland alone accounted for over 54% of milk production in the Acceding Countries, followed by the Czech Republic with nearly 13%, Hungary with more than 9%, Lithuania with nearly 8% and Slovakia with a little more than 5%.



 ^{1 :} A = Total whole milk production by agricultural holdings
 2 : B = Total cows' milk production by agricultural holdings

2. MILK COLLECTION AND PROCESSING BY DAIRIES (ANNUAL FIGURES)

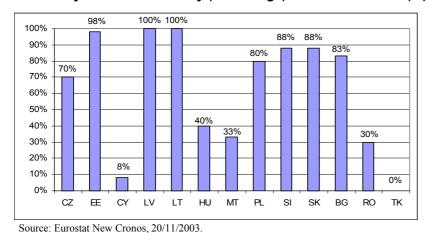
Eight major statistical headings were examined with reference to the availability of data transmitted to Eurostat by the Candidate Countries (see Graph 2.1).

These headings relate to the following activities by dairies:

- total milk collection (all milk)
- cows' milk collection
- · drinking milk production
- · drinking cream production
- acidified milk production (yoghurt)
- · concentrated milk production
- butter production
- · cheese production.

Two Candidate Countries, Lithuania and Latvia, supplied all of the information requested and five, Estonia, Poland, Slovenia, Slovakia and Bulgaria, supplied more than 75%.

GRAPH 2.1 Availability of statistics on milk collection and processing by dairies by Candidate Country (8 headings) from 1998 to 2002 (%)



The Candidate Countries regularly transmit statistics in respect of only eight of the sixty items listed in the annual dairy statistics table to Eurostat on a voluntary basis.

For the five reference years and eight headings in question, the most readily available statistics relate to cows' milk (Table 2.2), the production of drinking milk (Table 2.3) and cheese production (Table 2.4).

TABLE 2.2: Cows' milk collection by dairies from 1998 to 2002 - 1000 t

·	1998	1999	2000	2001	2002
Total Acceding Countries	15234.3	14287.2	14491.4	15215.7	15445.5
Czech Republic (CZ)	2522.5	2454.2	2565.7	2584.9	2594.0
Estonia (EE)	531.8	404.4	408.7	427.6	495.3
Cyprus (CY)	126.0	128.2	135.3	133.5	133.5
Latvia (LV)	464.0	389.6	398.1	403.0	385.0
Lithuania (LT)	1257.4	1048.1	947.0	982.4	970.3
Hungary (HU)	1769.0	1767.3	1829.7	1960.3	1904.2
Malta (MT)	45.2	46.5	45.8	45.2	42.5
Poland (PL)	7152.0	6680.0	6780.6	7235.7	7436.0
Slovenia (SI)	424.5	439.4	450.6	462.4	482.3
Slovakia (SK)	941.9	929.5	929.9	980.6	1002.4
Bulgaria (BG)	406.0	414.0	718.8	696.9	750.6
Romania (RO)	NT	NT	NT	NT	NT
Turkey (TR)	NT	NT	NT	NT	NT

NT: Not transmitted Italics:estimated data

Source: Eurostat New Cronos, 20/11/2003.



TABLE 2.3 : Drinking milk production from 1998 to 2002 - 1000 t

	1998	1999	2000	2001	2002
Total Acceding Countries	3290.6	3185.8	3153.8	3253.0	4455.7
Czech Republic (CZ)	503.7	488.3	474.9	469.9	483.2
Estonia (EE)	54.7	57.6	59.1	60.9	65.6
Cyprus (CY)	NT	NT	NT	NT	NT
Latvia (LV)	67.3	105.8	105.8	100.6	89.4
Lithuania (LT)	81.8	74.0	76.1	78.7	81.5
Hungary (HU)	NT	NT	NT	NT	1199.2
Malta (MT)	NT	NT	NT	29.8	31.9
Poland (PL)	2004.0	1854.0	1840.6	1900.1	1896.5
Slovenia (SI)	272.8	284.8	265.3	282.0	286.5
Slovakia (SK)	306.3	321.3	332.0	331.0	321.9
Bulgaria (BG)	26.8	18.4	34.6	38.6	28.6
Romania (RO)	122.0	180.0	166.0	163.0	NT
Turkey (TR)	NT	NT	NT	NT	NT

NT: Not transmitted

Source: Eurostat New Cronos, 20/11/2003.

TABLE 2.4 : Cheese production from 1998 from 2002 - 1000 t

	1998	1999	2000	2001	2002
Total Acceding Countries	652.8	703.9	703.6	748.8	933.8
Czech Republic (CZ)	83.0	116.1	121.3	120.1	131.1
Estonia (EE)	19.6	19.8	20.0	22.0	22.3
Cyprus (CY)	NT	NT	NT	NT	NT
Latvia (LV)	10.1	23.0	21.8	24.2	24.3
Lithuania (LT)	34.5	34.5	40.2	48.2	65.3
Hungary (HU)	NT	NT	NT	NT	156.0
Malta (MT)	2.1	NT	NT	2.3	2.5
Poland (PL)	432.0	438.2	427.5	455.2	467.1
Slovenia (SI)	19.9	20.5	21.5	21.9	22.9
Slovakia (SK)	51.6	51.8	51.3	54.9	42.3
Bulgaria (BG)	42.1	28.2	83.3	71.1	81.7
Romania (RO)	36.7	31.0	27.8	30.5	NT
Turkey (TR)	NT	NT	NT	NT	NT

NT: Not transmitted

Source: Eurostat New Cronos, 20/11/2003.

3. DIFFERENCES BETWEEN COWS' MILK PRODUCTION AND COLLECTION FROM 1998 TO 2002 - 1000 T

"Cows' milk production" means milk produced on agricultural holdings that is intended for collection by dairies and for home consumption, farm processing, direct sale or use as animal feed.

"Cows' milk collection" means milk collected by dairies (or similar undertakings) from agricultural holdings that is intended for sale on the market after treatment or processing.

Average for all Acceding Countries

The proportion of cows' milk not collected from agricultural holdings decreased on average from 33.9% in 1998 to 29.7% in 2002 in all the Acceding Countries. This difference derives from the structure of the dairy industry, which is more "industrialised" in the Member States than in the Acceding Countries, where the local economy plays a major role in the processing and sale of finished dairy products.



TABLE 3
Differences between production (agricultural holdings) and collection (dairies) in the Candidate Countries and EU-15 from 1998 to 2002 - 1000 t

		199	8		1999					2000)	
	col 1	col 2	col 3	col 4	col 1	col 2	col 3	col 4	col 1	col 2	col 3	col 4
	Production	Collection	Difference	%	Production	Collection	Difference	%	Production	Collection	Difference	%
EU15	120757.5	113695.6	7061.8	5.8	121691.5	114946.3	6745.1	5.5	121361.4	114282.2	7079.2	5.8
ACC10	23043.0	15234.3	7808.7	33.9	22279.4	14287.2	7946.7	35.7	21919.9	14491.4	7428.5	33.9
CZ	2797.5	2522.5	275.0	9.8	2818.0	2454.2	363.8	12.9	2787.0	2565.7	221.3	7.9
EE	730.0	531.8	198.2	27.2	626.1	404.4	221.7	35.4	629.6	408.7	220.9	35.1
CY	134.0	126.0	8.0	6.0	132.5	128.2	4.3	3.2	146.6	135.3	11.3	7.7
LV	948.1	464.0	484.1	51.1	797.0	389.6	407.4	51.1	823.0	398.1	424.9	51.6
LT	1915.1	1257.4	657.7	34.3	1702.0	1048.1	653.9	38.4	1713.0	947.0	766.0	44.7
HU	2100.4	1769.0	331.4	15.8	2099.7	1767.3	332.4	15.8	2136.8	1829.7	307.1	14.4
MT	46.9	45.2	1.7	3.7	47.6	46.5	1.1	2.3	46.9	45.8	1.1	2.3
PL	12596.0	7152.0	5444.0	43.2	12272.0	6680.0	5592.0	45.6	11889.0	6780.6	5108.4	43.0
SI	599.0	424.5	174.5	29.1	634.0	439.4	194.6	30.7	649.0	450.6	198.4	30.6
SK	1176.0	941.9	234.1	19.9	1150.5	929.5	175.5	15.9	1099.0	929.9	169.1	15.4
BG	1326.0	406.0	920.0	69.4	1388.0	414.0	974.0	70.2	1409.0	718.8	690.2	49.0
RO	5248.0	NT			5076.0	NT			5002.0	NT		
TR	NT	NT	·	·	NT	NT	·	·	NT	NT	·	

		200	1		2002				
	col 1	col 2	col 3	col 4	col 1	col 2	col 3	col 4	
	Production	Collection	Difference	%	Production	Collection	Difference	%	
EU15	121834.9	114887.1	6947.8	5.7	121211.3	114602.7	6608.6	5.5	
ACC10	22036.6	15215.7	6820.9	31.0	21965.0	15445.5	6519.5	29.7	
CZ	2780.0	2584.9	195.1	7.0	2804.0	2594.0	210.0	7.5	
EE	684.0	427.6	256.4	37.5	611.0	495.3	115.7	18.9	
CY	141.5	133.5	8.0	5.6	141.5	133.5	8.0	5.6	
LV	846.0	403.0	443.0	52.4	812.0	385.0	427.0	52.6	
LT	1718.4	982.4	736.0	42.8	1764.9	970.3	794.6	45.0	
HU	2136.0	1960.3	175.6	8.2	2068.1	1904.2	163.9	7.9	
MT	46.7	45.2	1.5	3.2	42.5	42.5	0.0	0.0	
PL	11884.0	7235.7	4648.3	39.1	11873.0	7436.0	4437.0	37.4	
SI	653.0	462.4	190.6	29.2	686.0	482.3	203.7	29.7	
SK	1147.0	980.6	166.4	14.5	1162.0	1002.4	159.6	13.7	
BG	1224.1	696.9	527.2	43.1	1305.9	750.6	555.3	42.5	
RO	5159.0	NT	·		NT	NT			
TR	NT	NT			NT	NT			

Italics: estimated data

Col 1: Cows' milk production on agricultural holdings

Col 2 : Cows' milk collection by dairies from agricultural holdings

Col 3 = Col 1 - Col 2Col 4 = Col 3 / Col 1

Source: Eurostat New Cronos, 20/11/2003.

National differences

There are very marked differences between the candidate countries.

In the Acceding Countries, during the reference period, nearly a third of production is not collected by dairies. This means that agricultural holdings use a third of their milk production for own consumption, farm processing, direct sales or animal feed.

The foregoing information reveals two significant facts with regard to the period in question (1998-2002):

- the basic structure of the dairy industry in the Candidate Countries is fundamentally different from that of Member States;
- the chain linking production/processing to marketing of the final dairy product depends on a particular local economy, which is probably in transition towards a more industrialised system.



TREND IN MILK STATISTICS IN THE EU

In 2004, all the Acceding Countries will be obliged to transmit milk statistics under existing European legislation. These statistics, which are currently supplied on a voluntary basis, provide an initial snapshot of the situation in 2003 and can serve as a reference base for subsequent years.

Milk industry trends:

- The Acceding Countries will not escape the concentration and internationalisation of the milk products industry that are already perceptible in EU
- The emergence and diversified exploitation of new dairy industry products (e.g. lactoserum and casein) will be accompanied by a decline in the consumption of more traditional dairy products, such as butter.

Statistical indicator trends to be monitored in the Acceding Countries:

- Trends in the number of dairy products which will be covered by annual statistics: There are relatively few such products at present, with just ten items subject to regular statistical reporting (see Graph 2.1). The dairy products industry in the Acceding Countries will probably diversify by comparison with the present situation under the pressure of consumer demand and technical progress. The annual statistical surveys will be adapted in line with these developments.
- Trends in monthly statistics: the number of milk products covered and compliance with data

- transmission deadlines will provide evidence of the efficiency of the monthly collection system to be introduced by the Acceding Countries.
- The quality and precision of the triennial statistics on the structure of milk collection and processing enterprises: The first data from the Acceding Countries are expected for 2006.
- Trends in the relationship between milk production by agricultural holdings and collection by dairies: the currently high proportion is extremely characteristic of the nature of the Acceding Countries' industry compared with that of the existing Member States (see Table 3) in recent years. This development will, *inter alia*, confirm a strengthening of the industrial character of collection, particularly the processing of milk into finished products sold for consumption.
- The precision of the technical definitions of milk products pursuant to the nomenclatures used will be harmonised to ensure the compatibility and quality of EU milk statistics.
- Transmission of data on three areas linked to the foreseeable development of the milk products industry: the protein content of the main milk products (an expanding market), the regional production of cows' milk (NUTS II) in the context of an increasingly territorially-orientated Common Agriculture Policy and milk supply balances designed, in particular, to establish the consumption levels of the principal milk products.

ESSENTIAL INFORMATION – METHODOLOGICAL NOTES

Legal texts: essentially Council Directive 96/16/EC (OJ L 78 of 28 March 1996) and Commission Decision 97/80/EC (OJ L 24 of 25 January 1997).

Data in question:

- Monthly milk collection and processing by dairies; surveys conducted by representative sampling.
- Annual milk collection and processing by dairies; exhaustive surveys.
- Annual milk production and processing of agricultural holdings
- Triennial data on the structure of milk product collection and processing enterprises.

Products and survey units concerned: statistical surveys of cows', ewes', goats' and buffalo milk and of some 60 processed dairy products and by-products defined in detail in the above-mentioned legal texts.

It should, however, the pointed out that the candidate countries do not transmit information in respect of all products. This is because the corresponding statistics are not yet available or certain by-products do not exist.

The survey units are milk production, collection and processing enterprises and/or local production, collection and processing units.

Acceding Countries (ACC-10): Czech Republic (CZ), Estonia (EE), Cyprus (CY) Latvia (LV), Lithuania (LT), Hungary (HU), Malta (MT) Poland (PL) Slovenia (SI) and Slovakia (SK). Three other countries, Bulgaria (BG), Romania (RO) and Turkey (TR), are Candidate Countries (CC-13).



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