



PRODUCTION OF MILK AND DAIRY PRODUCTS, 2021

In 2021, as compared to 2020, the quantity of collected cows' milk decreased by 1.3%, the quantity of ewes' milk by 2.3% and the quantity of goats' milk by 4.3%.

Expressed in quantities, it means that, in 2021, as much as 5 555 t less cows' milk, 65 t less ewes' milk and 173 t less goats' milk was collected.

The quantity of whole milk imported by dairies increased in 2021, as compared to 2020, by about 5 900 t, that is, by 4.2%, while the quantity of imported cream increased by about 1 800 t (60.8%).

Compared to the previous year, the production of drinking milk decreased by about 17 000 t (6.0%), the production of cream by about 937 t (2.8%) and the production of drinks with a milk base by about 265 t (1.2%), while the production of fermented products increased by about 395 t (0.4%).

There was an increase of 549 t (15.6%) in the production of butter and of 983 t (3.1%) in the total cows' cheese production in 2021, as compared to 2020. The production of cheese from ewes' milk (pure) decreased by 2.4% and of cheese from goats' milk (pure) by 3.4%.

Regarding the production of other types of cheese, the production of soft cheese decreased by 28.2% (587 t) and of processed cheese by 0.9% (26 t). The production of fresh cheese increased by 0.9%, of medium-soft cheese by 25.2%, of medium-hard cheese by 10.4%, of hard cheese by 13.2% and of extra hard cheese by 13.6%.

The milk fat content in collected cows' milk decreased by 0.7%, in ewes' milk by 1.0% and in goats' milk by 3.1%, as compared to the previous year.

Regarding individual dairy products, the milk fat content in drinking milk decreased by 8.8%, in cream by 3.2% and in fermented products by 4.9%, while it increased in butter by 14.2% and in cheese from cows' milk (pure) by 22.8%.

The cows' milk protein content decreased in drinking milk by 2.4%, in cream by 1.2% and in cows' cheese by 0.7%.

1 MILK AND DAIRY PRODUCTS, 2021¹⁾

	Quantities, t		Indices 2021 2020
	2020	2021	
Availability			
Cows' milk collected	434 220	428 665	98,7
Ewes' milk collected	2 821	2 756	97,7
Goats' milk collected	4 055	3 882	95,7
Cream	z	z	z
Whole milk import – only dairies	139 958	145 868	104,2
Skimmed milk import – only dairies	z	z	z
Cream import – only dairies	3 043	4 892	160,8
Other products (e.g. cheese, butter, yoghurt) – only dairies	z	z	z
Production of fresh products			
Drinking milk	281 820	264 776	94,0
Whole and raw milk	155 362	137 135	88,3
Semi-skimmed milk	123 396	125 123	101,4
Skimmed milk	3 062	2 518	82,2
Buttermilk	z	z	z
Cream	33 033	32 096	97,2
With fat content of < 29%	22 764	21 027	92,4
With fat content of > 29%	10 269	11 069	107,8
Fermented products (yoghurts, drinking yoghurts and other)	89 522	89 917	100,4
With additives	18 406	17 856	97,0
Without additives	71 116	72 061	101,3
Drinks with a milk base	22 777	22 512	98,8
Other fresh products (milk jelly and other)	z	z	z
Production of other products			
Powdered dairy products	z	z	z
Butter	3 515	4 064	115,6
Other yellow fat dairy products	z	z	z
Cheese from cows' milk (pure)	31 373	32 356	103,1
Cheese from ewes' milk (pure)	251	245	97,6
Cheese from goats' milk (pure)	147	142	96,6
Other cheese (mixed)	9	10	111,1
Soft cheese (> 68% of moisture)	2 085	1 498	71,8
Medium-soft cheese (62% – 68% of moisture)	135	169	125,2
Medium-hard cheese (55% – 62% of moisture)	11 686	12 901	110,4
Hard cheese (47% – 55% of moisture)	892	1 010	113,2
Extra hard cheese (< 47% of moisture)	376	427	113,6
Fresh cheese	16 597	16 748	100,9
Processed cheese	2 891	2 865	99,1
Whey – total	32 792	37 358	113,9
Export of milk and cream in bulk – only dairies	z	z	z

1) See Notes on Methodology.

2 MILK FAT CONTENT IN MAIN DAIRY PRODUCTS, 2021

	Milk fat content, t		Indices 2021 2020
	2020	2021	
Availability			
Cows' milk collected	17 468	17 338	99,3
Ewes' milk collected	192	190	99
Goats' milk collected	131	127	96,9
Cream	z	z	z
Whole milk import – only dairies	5 631	5 930	105,3
Skimmed milk import – only dairies	z	z	z
Cream import – only dairies	1 185	1 921	162,1
Products			
Drinking milk	7 376	6 730	91,2
Buttermilk	z	z	z
Cream	5 850	5 662	96,8
Fermented products (yoghurts, drinking yoghurts and other)	1 349	1 283	95,1
Drinks with a milk base	550	523	95,1
Other fresh products (milk jelly and other)	z	z	z
Concentrated milk	-	-	-
Powdered dairy products	z	z	z
Butter	2 813	3 212	114,2
Other yellow fat dairy products	z	z	z
Cheese from cows' milk (pure)	5 075	6 234	122,8
Whey – total	98	121	123,5
Export of milk and cream in bulk – only dairies	z	z	z

3 COWS' MILK PROTEIN CONTENT IN MAIN DAIRY PRODUCTS, 2021

Products	Protein content, t		Indices 2021 2020
	2020	2021	
Drinking milk	8 803	8 596	97,6
Whole milk	4 709	4 490	95,3
Semi-skimmed milk	3 995	4 025	100,8
Skimmed milk	99	81	81,8
Buttermilk	z	z	z
Cream	996	984	98,8
Powdered dairy products	z	z	z
Butter and other yellow fat dairy products	z	z	z
Cheese from cows' milk	5 378	5 343	99,3
Processed cheese	359	360	100,3
Whey	192	212	110,4

NOTES ON METHODOLOGY

Sources and methods of data collection

Data on the annual production of milk and dairy products are taken over from the Croatian Agency for Agriculture and Food – the Central Laboratory for Milk Quality Control (SLKM). The data collected that way refer to the quantity of cows', ewes' and goats' milk collected, milk fat and protein contents, the production of dairy products from cows' milk and the foreign dairies' trade in milk and dairy products.

The Laboratory processes the collected data and submits them, according to the previously defined deadlines and in suitable form, to the Croatian Bureau of Statistics for further processing.

The methodology for carrying out the survey on milk and dairy products is based on the Methodological Basis for Gathering Data on Milk and Dairy Products Statistics (NN, No. 42/13).

Coverage and comparability

There are about forty dairies operating in the Republic of Croatia for which the SLKM makes analysis of purchased milk and from which it collects data on the production. The coverage includes industrial and registered small dairies.

Confidentiality

Aggregated data for which there are reasons for confidentiality (small number of units, the dominance rule or secondary confidentiality rule) according to the Official Statistics Act (NN, No. 25/20) and to the Ordinance on the Statistical Data Protection Method are treated as confidential and therefore are not published.

Definitions

Drinking milk comprises raw milk, whole milk, skimmed milk, semi-skimmed milk and skimmed milk containing no additives.

Raw milk comprises milk that has not been heated beyond 40 °C or undergone any treatment that has an equivalent effect.

Whole milk (pasteurised, sterilised and uperised) comprises milk with fat content $\geq 3.5\%$, subject to heat treatment.

Semi-skimmed milk (pasteurised, sterilised and uperised) comprises milk with fat content 1.5% – 2.8%, subject to one heat treatment.

Skimmed milk (pasteurised, sterilised and uperised) comprises milk with fat content $< 1.5\%$, subject to one heat treatment.

Pasteurised milk – milk treated with high temperature (at least 72 °C for 15 seconds).

Sterilised milk – milk treated with high temperature (120 °C for 30 minutes) in hermetically sealed containers.

Uperised milk – milk treated with high temperature (135 °C for not less than 1 second).

Buttermilk is a residual product of the processing of milk or cream into butter.

Cream comprises cream for direct consumption, containing more or less than 29% of milk fat.

Fermented products include yoghurts, drinkable yoghurts, acidified milk and other fermented products either with or without additives.

Drinks with a milk base comprise products containing at least 50% milk equivalent (chocolate milk, buttermilk with additives, etc.).

Other fresh products comprise fresh milk products not elsewhere specified (mainly milk-based desserts).

Concentrated milk comprises milk obtained by partial elimination of water from whole milk, semi-skimmed or skimmed milk.

Powdered dairy products comprise products obtained by eliminating water from cream, all kinds of milk, buttermilk and fermented products.

Butter includes traditional butter, melted butter, butter oil and similar products containing more than 80% of milk fat.

Other yellow fat products comprise products based on butter with milk fat content of less than 80%.

Cheese includes fresh or matured, solid or semi-solid products, obtained by coagulating milk, cream, buttermilk or other products.

Processed cheese comprises products obtained by grinding, mixing, melting and emulsifying one or more varieties of cheese, with or without additives.

Whey includes liquid whey and powdered whey in liquid equivalent. It is a by-product obtained during the manufacture of cheese or casein.

Abbreviations

°C	degree Celsius
t	tonne
z	data are not published for confidentiality reasons

Symbols

-	no occurrence
<	less than
>	more than
\geq	more than or equal to

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