

FORKFUL OF FACTS

Finnish Food Chain Statistics

2024

Ruokatieto

FOR THE READER

Forkful of Facts – Finnish Food Chain Statistics is an extensive setting of statistics, covering the entire food chain from field to fork.

Forkful of Facts contains statistics about food chain practices and development. The tables convey information about how the Finnish high quality and safety in food production is built based on Finnish knowhow adding competitiveness in the international markets.

Forkful of Facts 2024 introduces the reader to the food chain, from primary production to the food industry, trade, and professional kitchens, as well as the responsible practices within the food chain. Additionally, Forkful of Facts includes statistics on food consumption and price developments. The most recent information is mainly from year 2023. For comparison some information from earlier years as well as international data is included. This year, a table on the employment effects of the food sector by region has been added. At the end of the statistical package Finnish food products protected by EU quality schemes are also highlighted.

Forkful of Facts is available in three languages (Finnish, Swedish, English) as paper copy and online publication at ruokatieto.fi/tietohaarukka.

The mission of Ruokatieto Yhdistys ry (Finnish Food Information) is to increase the demand for Finnish food so that it will continue to be available in the future. Our task is to promote the success of the Finnish food chain and food culture by making known the work and expertise 'from field to table'. The most prestigious designation of origin of Finnish food, the Hyvää Suomesta – Produced in Finland label, lies at the heart of our operations. More than 350 members and label holders represent a wide range of industry players.

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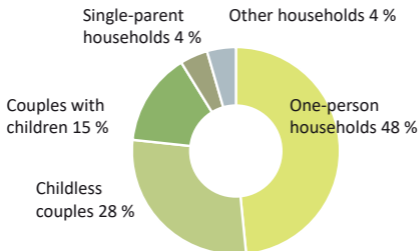
Explanation of symbols:

p = preliminary data .. = data not available

GENERAL INFORMATION

HOUSEHOLDS BY SIZE

In 2023 there were 2 917 000 households in Finland.



Source: Statistics Finland

On December 31st 2023 **the population of Finland** was 5 603 851.

In 2023 **the population density of Finland** was approximately 18.4 people per square kilometer.

In 2022 **the size of a household** was 1.88 people.

Source: Statistics Finland

GROSS DOMESTIC PRODUCT

Field of activity, % ¹⁾	2005	2010	2022p	2023p
Agriculture, forestry and fishing	2.6	2.8	2.7	2.8
Agriculture	1.1	0.9	0.7	..
Manufacturing	24.3	19.4	18.0	16.8
Food industry	1.7	1.6	1.2	1.3
Construction	6.4	6.5	6.9	6.4
Wholesale and retail trade	9.8	9.4	8.5	8.2
Transportation and storage	5.7	5.1	4.1	4.2
Accommodation and food service activities	1.6	1.6	1.6	1.8
Food service activities	1.2	1.3	1.3	..
Information and communication	5.0	5.0	6.1	6.3
Financial and insurance activities	2.9	2.8	3.4	4.1
Real estate activities	10.2	11.2	12.5	12.7
Human health and social work activities	8.2	9.3	9.6	10.1
Gross value added at basic prices, billion EUR	143.9	164.7	232.7	240.9
GDP at market prices, billion EUR	164.7	188.1	267.7	274.9

¹⁾ Selected fields of activity included in the gross domestic product.

Source: Calculated from Statistics Finland / National Accounts

EMPLOYMENT EFFECTS OF THE FOOD SECTOR BY REGION IN 2021

	Direct employment (persons)	Indirect employment (persons)	Direct percentage of regional employment (%)
South Ostrobothnia	15 455	907	17.3
Ostrobothnia	11 002	1 056	12.8
Central Ostrobothnia	3 820	357	12.5
Åland	2 113	237	12.1
Tavastia Proper	8 326	1 173	10.9
Northern Savonia	11 892	1 529	10.9
Satakunta	10 755	1 364	10.8
Päijänne Tavastia	9 102	1 241	10.7
North Karelia	7 041	786	10.6
Southern Savonia	5 836	571	10.6
Southwest Finland	23 003	3 587	10.2
South Karelia	5 072	687	9.7
Northern Ostrobothnia	17 064	2 546	9.2
Kymenlaakso	5 923	914	8.3
Central Finland	9 129	1 541	7.9
Pirkanmaa	18 852	3 741	7.8
Lapland	5 991	692	7.5
Uusimaa	65 057	17 230	6.9
Kainuu	2 314	326	6.8
Total	237 748	40 486	8.9

Source: Natural Resources Institute Finland / Ruoka-alan taloudellinen ja alueellinen merkitys Suomessa

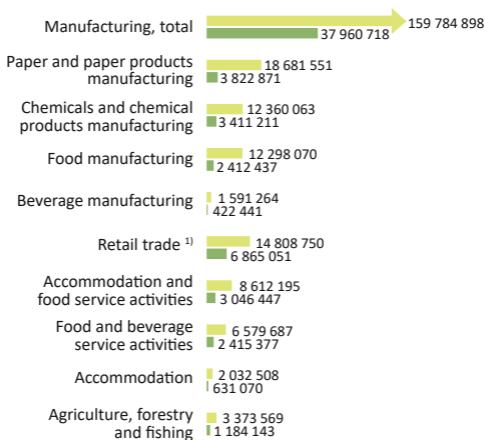
Direct employment is the food industry's own employment.

Indirect employment is created through the food industry's domestic input purchases in sectors other than the food industry.

GROSS VALUE OF AND VALUE ADDED TO PRODUCTION BY INDUSTRY BRANCH 2022

■ Gross value (thousand euros)

■ Value added (thousand euros)



Source: Statistics Finland (Standard industrial classification TOL 2008)

¹⁾ Excluding the trade of motor vehicles and motorcycles.

The gross value of production measures the actual production of the site. All revenues related to production are included in production activity, also manufacturing for its own use, and manufacturing which is supplied to other sites of the company.

The value added measures the total added value of the site produced in its actual production activity by the various producers. The value added is calculated as the difference between the revenues obtained from production activity and the costs incurred from the activity.

BIOECONOMY IN 2021p

	Output, MEUR	Value added, MEUR	Employed, 1 000 persons	Export of goods, MEUR ¹⁾
Agriculture	5 939	1 785	64	258
Food industry	12 552	2 879	40	1 390
Forestry	5 890	4 118	21	84
Wood-product industry	8 835	2 630	21	3 708
Pulp and paper industry	17 378	3 746	18	10 027
Chemical industry	8 549	1 875	6	2 018
Energy	6 038	2 723	6	..
Water treatment and supply	914	526	3	..
Bioeconomy services	4 167	1 849	37	..
of which nature tour- ism and recreation	3 969	1 651	37	..
Bioeconomy, total	88 821	29 364	299	19 170
National economy, total	531 599	233 649	2 747	70 237
Share of bioeconomy, %	17	13	11	27

Source: Natural Resources Institute Finland / Bioeconomy Calculations

¹⁾ In 2021.

Bioeconomy refers to an economy that relies on renewable natural resources to produce food, energy, products and services.

Output, value added and export expressed in current prices.

NUMBER OF OCCUPATIONAL ACCIDENTS

Occupational accidents ¹⁾ per 100 000 working in the industry	2005	2010	2021	2022
Agricultural entrepreneurs	5 962	4 882	4 317	..
Food and beverage industry employees	4 651	4 285	1 321	1 260
All occupations ²⁾	2 581	2 103	1 196	969

Source: Statistics Finland, Finnish Workers' Compensation Center

The accident frequency has been calculated as per the industry of the employer.

¹⁾ Occupational accidents leading to at least 4 days of incapacity for work.

²⁾ Occupational groups with at least 10 000 employees.

LABOUR FORCE

	2010	2022	2023	2023
	%	%	%	1 000 persons
Employed persons by field of activity				
Agriculture, forestry, fishing, mining and quarrying	5	4	4	96
Agriculture	3	3	2	62
Manufacturing ¹⁾	16	14	13	342
Food and beverage manufacturing	1	2	2	40
Construction	7	7	7	182
Wholesale and retail trade ²⁾	12	11	11	282
Transportation and storage	6	5	5	134
Accommodation and food service activities	4	4	4	97
Food service activities	..	3	3	83
Information and communication	4	5	5	139
Education	7	7	7	193
Human health and social work activities	15	16	16	419
Other services and fields of activity	23	26	28	723
Unknown field of activity	0.5	0.7	1	20
Employed total				
%	100	100	100	
1 000 persons	2 411	2 619	2 628	2 628
Labour force total				
1 000 persons	2 637	2 809	2 832	2 832
of which unemployed, %	8.6	6.8	7.2	7.2

Source: Statistics Finland / Labour force survey (Standard industrial classification TOL 2008)

¹⁾ Including electricity, gas, steam and air conditioning and water supply, sewerage and waste management.

²⁾ Including repair of motor vehicles and motorcycles.

OCCUPATIONAL DISEASES BY INDUSTRY 2020

Occupational diseases	pcs per 10 000 employed	
Crop farming, animal and game husbandry	129	21.7
Food manufacturing	19	5.9
Beverage manufacturing	0	0
Food and beverage service activities	30	4.3
Retail trade ¹⁾	19	1.4

Source: Finnish Institute of Occupational Health / The Finnish Register of Occupational Diseases

¹⁾ Excluding trade in motor vehicles and motorcycles.

MEAN PRECIPITATION, mm ¹⁾

	Turku		Seinäjäjoki		Oulu	
	1991–2020	2023	1991–2020	2023	1991–2020	2023
spring	101	105	96	105	103	108
summer	197	202	208	286	202	229
autumn	200	226	157	199	166	192
winter	164	152	104	109	121	125

Source: Finnish Meteorological Institute

¹⁾The values are averages from land areas.

MEAN TEMPERATURES, °C ¹⁾

	Turku		Seinäjäjoki		Oulu	
	1991–2020	2023	1991–2020	2023	1991–2020	2023
spring	4.3	4.3	3	2.8	1.2	0.3
summer	16.2	16.7	14.8	15.6	14.5	15.3
autumn	6.8	6.8	4.3	3.5	2.8	1.7
winter	-2.6	-1.4	-5.5	-3.9	-8.3	-6

Source: Finnish Meteorological Institute

¹⁾The values are averages from land areas.

WEATHER CONDITIONS DURING THE GROWING SEASON ¹⁾

	Effective temperature sum, dd°C		Precipitation, mm	
	1991–2020, mean	2023	1991–2020, mean	2023
	Turku	1 506	1 635	350	373
Seinäjäjoki	1 221	1 397	436	324
Oulu	1 124	1 297	357	303

Source: Finnish Meteorological Institute

¹⁾The values are averages from land areas.

DAY LENGTH, hours

	spring	summer	autumn	winter
Turku	14.6	17.5	10.1	7.2
Seinäjäjoki	15.0	18.3	9.9	6.6
Oulu	15.4	19.3	9.6	5.8

Source: Finnish Meteorological Institute

NUMBER OF AGRICULTURAL AND HORTICULTURAL ENTERPRISES

Farm size, ha of arable land	2005 Pcs	2022 ¹⁾ Pcs	2023 ¹⁾ Pcs	% of farms
0–5	5 228	1 182	1 319	3
5–10	8 765	5 974	5 843	14
10–15	8 481	4 551	4 289	10
15–25	13 989	6 972	6 562	16
25–50	19 660	9 872	9 443	22
50–75	7 549	5 469	5 226	12
75–100	3 116	3 334	3 244	8
100–150	1 990	3 387	3 406	8
150–	739	2 799	2 939	7
Total	69 517	43 540	42 271	100
Change from previous year	..	-2.6 %	-2.9 %	

Source: Natural Resources Institute Finland / Agricultural statistics

¹⁾ The definition of an agricultural and horticultural enterprise was revised. The numbers for the year 2005 are not entirely comparable.

OWNERSHIP OF AGRICULTURAL AND HORTICULTURAL ENTERPRISES

Category	2005 Pcs	2022 ¹⁾ Pcs	2023 ¹⁾ Pcs	% of farms
Private individuals	61 477	37 082	35 865	85
Heirs and farming syndicates	7 297	4 828	4 728	11
State, communes etc.	743	1 630	1 678	4
Total	69 517	43 540	42 271	100

Source: Natural Resources Institute Finland / Agricultural statistics

¹⁾ The definition of an agricultural and horticultural enterprise was revised. The numbers for the year 2005 are not entirely comparable.

AGRICULTURAL LABOUR FORCE

Employed, 1 000 persons	2009	2022	2023
Entrepreneurs and their family members	70	51	49
of which women	23	13	13
Employees	18	17	13
of which women	9	8	6
Total	88	68	62

Source: Statistics Finland / Labour force survey

SPECIALIZATION IN AGRICULTURAL AND HORTICULTURAL ENTERPRISES

Number of farms	2010	2015	2022	2023	%
Milk production	10 205	7 729	4 584	4 226	10
Beef production	3 080	3 038	2 654	2 538	6
Other cattle husbandry ¹⁾	1 270	656	310	278	1
Pig husbandry	1 355	787	425	378	1
Poultry husbandry	375	454	402	369	1
Other grazing livestock ²⁾	3 544	2 683	762	713	2
Cereal production	20 927	17 732	13 634	13 645	32
Other plant production	13 092	13 488	17 311	16 841	40
Greenhouse production	1 371	884	642	593	1
Outdoor horticultural production	1 696	1 471	1 327	1 269	3
Mixed production	2 568	2 078	1 489	1 421	3
Total	59 483	51 000	43 540	42 271	100

Source: Natural Resources Institute Finland / Agricultural statistics

¹⁾ Combined milk and beef production.

²⁾ Includes sheep, goat and horse production until year 2015.
For years 2022 and 2023 only sheep and goat production.

NUMBER OF ORGANIC PRODUCERS

	2008	2011	2022	2023
Organic primary production ¹⁾	3 758	3 975	4 818	4 140
of which organic animal farms	511	643	1 145	1 039
Organic foodstuff producers	401	487	765 ²⁾	681 ²⁾
Organic feedstuff producers	16	33	41	41
Organic seed packing plants	..	31	34	33
Total	4 175	4 526	5 658	4 895
Organic primary producers EU-27	..	253 215 ³⁾	426 227	..

Source: Finnish Food Authority

¹⁾ Includes, in addition to farms, also greenhouses, mushroom farms and beekeepers.²⁾ Includes subcontractors.³⁾ In 2013.

INCOME OF AGRICULTURAL AND HORTICULTURAL ENTERPRISES PER PRODUCTION SECTOR

	Taxable income total spouses together			Farm economy's income spouses together		
	2000 €	2021 €	2022 €	2000 €	2021 €	2022 €
Milk production	31 746	69 609	76 359	24 812	52 912	58 865
Beef production etc.	30 129	79 155	72 923	15 878	37 855	41 245
Pig husbandry	41 644	84 194	90 968	28 421	51 879	57 961
Poultry husbandry	45 752	133 134	102 626	28 624	61 259	68 089
Sheep, goats, horses	29 434	60 121	62 916	3 704	14 220	14 895
Cereal production	38 623	77 712	82 216	10999	20 846	23 997
Other plant production	35 760	68 638	69 935	11 695	19 084	21 025
Other production	28 901	76 033	69 169	6 524	18 089	18 896
Average	35 235	72 495	78 389	16 324	34 518	38 122

Source: Statistics Finland / Statistics on the finances of agricultural and forestry enterprises

AGRICULTURAL PRODUCTION COSTS

	2002 MEUR	2010 MEUR	2021 MEUR	2022 MEUR
Material costs	1 572	1 785	2 234	2 714
Fertilizers and lime	194	212	237	296
Other crop production costs	256	337	472	545
Fuels	176	256	289	407
Electricity	117	204	213	247
Forage costs	516	433	617	769
Livestock costs	313	344	406	451
Farm operating costs ¹⁾	368	368	492	660
Machinery costs	844	1 037	1 143	1 245
Depreciation of machines	502	594	574	672
Other machinery costs	342	443	569	573
Building costs	316	373	407	394
Depreciation of buildings	256	309	321	331
Other building costs	60	65	87	63
Other costs	693	861	1 043	1 034
Insurances	241	288	298	288
Fixed rents	102	148	197	194
Other depreciations	45	45	51	61
Other costs	305	379	498	491
Labour costs	1 835	1 610	1 320	1 388
Wages paid	166	211	368	467
Wage claim	1 669	1 399	952	920
Interest costs	597	845	565	564
Interests paid	127	114	109	106
Interest claim of equity	470	732	455	458
Total costs	6 226	6 880	7 205	7 999

Source: Natural Resources Institute Finland Economydoctor / Total Calculation of Agriculture

¹⁾ Costs of feedstuff and seeds produced and used on the farm.

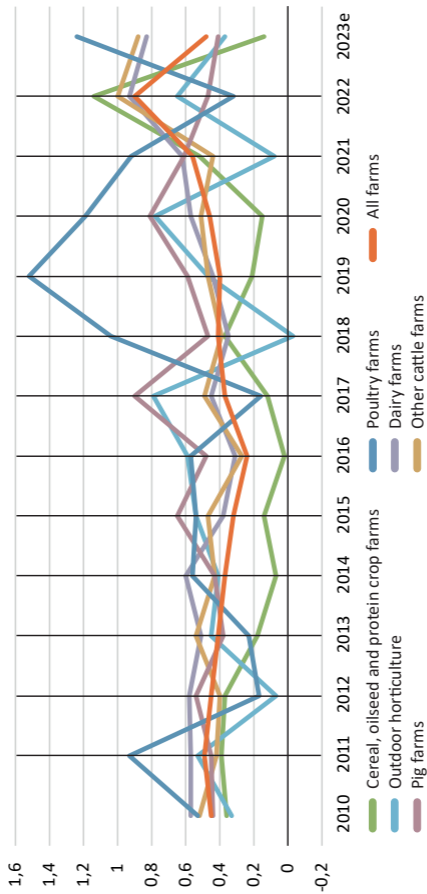
AGRICULTURAL GROSS RETURN AND ENTREPRENEURIAL INCOME

	2002	2010	2021	2022
Income from	MEUR	MEUR	MEUR	MEUR
Crop revenues	814	1 075	1 323	1 833
Rye and wheat	86	150	216	306
Barley	158	234	298	375
Oats and other cereals	148	148	249	357
Oilseeds	20	65	36	69
Grass crops	239	286	379	501
Potato and sugar beet	140	165	85	140
Pulses and other crops	23	26	59	84
Livestock revenues	1 808	1 728	1 971	2 300
Cattle	1 243	1 211	1 308	1 492
Pig	348	361	318	358
Poultry	212	131	311	412
Sheep, goat and horse revenues	5	25	33	38
Greenhouse and outdoor horticultural revenues	464	574	984	1 273
Financial yields	17	15	20	19
Other income	155	274	235	268
Subsidies total	1 846	2 012	1 905	2 046
Gross return total	5 104	5 678	6 438	7 739
Entrepreneurial income	..	932	644	1 118

Source: Natural Resources Institute Finland Economydoctor / Total Calculation of Agriculture

The value of feedstuff and seeds produced and used on the farm is included in the calculation.

PROFITABILITY COEFFICIENT ON THE FINNISH FARMS 2010–2023p



Source: Natural Resources Institute Finland Economydoctor / Agriculture and Horticulture

PRODUCER PRICES

		2005	2022	2023	Change 22/23 %
Milk	c/ltr				
producer price ¹⁾		31.5	46.9	52.0	11
adjustment payment		2.2	1.7	0.5	-67
Meat	€/kg				
beef		2.1	3.8	4.2	9
organic beef		..	4.1	4.4	6
pork		1.3	2.0	2.2	9
broiler		1.1	1.7	1.8	9
lamb		2.6	5.3	5.7	9
organic lamb		..	5.6	..	..
Eggs	€/kg	0.6	1.4	1.5	9
organic eggs		1.8	2.6	2.5	-3
Grain and vegetables					
bread wheat ²⁾	€/tn	106	333	258	-22
rye ²⁾	€/tn	118	293	291	-1
oats ²⁾	€/tn	87	310	226	-27
feed barley ²⁾	€/tn	100	308	226	-27
malting barley ²⁾	€/tn	115	351	300	-15
turnip rape and rape ²⁾	€/tn	200	644	519	-19
food potatoes ³⁾	€/100 kg	..	20.5	21.6	5
cucumber ⁴⁾	€/kg	0.99	2.1	1.9	-11
tomato ⁴⁾	€/kg	1.16	3.2	..	..
apple ⁴⁾	€/kg	0.87	1.7	1.65	-5

Source: Natural Resources Institute Finland / Agricultural statistics, Finnish Glasshouse Growers' Association, Finnish Association of Fruit and Berry Growers

¹⁾ Price for class I milk. which contains 4.3 % fat and 3.3 % protein. without production aid.

²⁾ Basic price paid to farmers. including transport to the first reception point.

³⁾ Price paid to farmers per 100 kg net. delivered to the packaging facilities. Does not include early potatoes.

⁴⁾ Prices for class I Finnish vegetables. packaged and unpackaged in different ways. delivered from the packaging station to the wholesaler's pier.

SUBSTITUTING FOR AGRICULTURAL ENTREPRENEURS

	2000	2005	2022	2023
MYEL ¹⁾ -insured agricultural entrepreneurs	105 993	90 007	50 248	48 859
Using annual leave ²⁾	45 254	34 719	12 467	11 595
Using substitutes	14 934	14 624	4 108	3 560
Using substituting subject to subsidised charge	10 995	13 521	6 137	5 751
Using substituting subject to total charge	643	314	150	181

Source: The Farmers' Social Insurance Institution Mela

¹⁾ TYEL employee's pension insurance for farmers, forest owners, fishermen and reindeer herders and their families.

²⁾ To receive annual leave, a farmer must have at least four domestic animal units, and they must be a full-time agricultural entrepreneur.

AVERAGE AGE AND NUMBER OF AGRICULTURAL ENTREPRENEURS

	2005		2022		2023	
	aver. age	number	aver. age	number	aver. age	number
Agricultural entrepreneurs	48	90 000	50	50 000	50	49 000
New entrepreneurs	30	760 ¹⁾	36	1 100	38	1 200
Retiring entrepreneurs. ²⁾	61	3 900	63	2 500	64	2 000

Source: Farmers' Social Insurance Institution Mela / Statistics based on data on agricultural entrepreneurs covered by insurance under the Farmers' Pensions Act (MYEL)

¹⁾ Entrepreneurs taking up farming through succession within the farmers' early retirement aid scheme.

²⁾ Covering those retiring on old-age, disability and unemployment pension.

CROP

	2005	2022	2023
Wheat			
area 1 000 ha	215	220	229
total yield M kg	801	833	740
yield kg/ha	3 730	3 790	3 230
Rye			
area 1 000 ha	14	19	26
total yield M kg	32	64	91
yield kg/ha	2 290	3 380	3 530
Barley			
area 1 000 ha	594	369	341
total yield M kg	2 103	1 411	1 066
yield kg/ha	3 540	3 820	3 130
Oats			
area 1 000 ha	345	321	291
total yield M kg	1 073	1 174	1 008
yield kg/ha	3 110	3 660	3 460
Sugar beet			
area 1 000 ha	31	9	11
total yield M kg	1 181	380	421
yield kg/ha	37 870	43 110	38 510
Rape and turnip rape			
area 1 000 ha	77	41	31
total yield M kg	106	56	41
yield kg/ha	1 380	1 370	1 310
Peas			
area 1 000 ha	4	31	34
total yield M kg	8	91	87
yield kg/ha	93	2 990	2 540
Broad bean			
area 1 000 ha	9 ¹⁾	10	6
total yield M kg	16 ¹⁾	19	14
yield kg/ha	1 720 ¹⁾	1 900	2 220
Potatoes			
area 1 000 ha	29	19	17
total yield M kg	743	533	498
yield kg/ha	25 700	27 980	30 150
Carrots, M kg	67	76	64
Caraway, M kg	9 ¹⁾	8	5
Greenhouse cucumber, M kg	32	50	50
Potted vegetables, M pcs	64	96	91

Source: Natural Resources Institute Finland / Crop Production and Horticultural Statistics

¹⁾ Year 2010.

USE OF ARABLE LAND

Area, 1 000 ha	2005	2015	2022 ¹⁾	2023
Grassland	620	653	796	786
Grains, total	1 188	1 138	1 062	1 054
Wheat	215	249	230	245
Rye	14	32	20	27
Barley	595	513	533	406
Oats	346	307	336	323
Mixed grains	16	36	43	43
Other grains	1.1	1.1	3.6	8.4
Turnip rape and rape	77	57	43	39
Sugar beet	31	13	8.8	12
Pea	3.8	12	34	44
Broad bean	..	13	11	9.2
Potatoes	29	22	20	19
Other crops	49	179	175	178
Greenhouse cultivation	..	0.4	0.4	0.4
Cultivated area, total	1 993	1 970	2 033	2 019
Fallow	241	271	207	225
Cultivated area and fallow, total	2 235	2 241	2 241	2 244

Source: Natural Resources Institute Finland / Agricultural Statistics

¹⁾ Includes only enterprises that exceed the economic threshold value (SO 2 000 EUR).

Area, ha	2005	2015	2022	2023
Arable land per farm, average	33	45	52	54

Source: Natural Resources Institute Finland / Agricultural Statistics

USE OF ARABLE LAND ON ORGANIC FARMS

Certified organic area, 1 000 ha	2005	2015	2022	2023
Grass	60.20	114.05	184.68	171.13
Cereals, total	46.36	50.64	86.86	80.27
Wheat	6.63	5.66	9.41	8.19
Rye	4.59	5.41	4.85	5.50
Barley	6.76	5.20	8.90	9.50
Oats	23.13	24.24	47.36	44.11
Mixed grains	4.64	9.91	14.69	10.90
Peas	1.29	2.70	5.31	6.57
Buckwheat	0.19	0.43	0.42	0.64
Broad bean	..	2.81	2.89	2.07
Caraway	0.36	0.15	0.27	0.42
Flax	0.28	0.15	0.05	0.13
Turnip rape	2.42	2.59	4.96	5.63
Potatoes	0.44	0.54	0.66	0.65
Vegetables, open land	0.21	0.24	1.13	0.50
Greenhouse vegetables	0.009	0.008	0.008	0.007
Leafherbs	0.02	0.01	0.10	0.13
Berries and fruits	0.80	0.65	0.92	1.00
Fallow	19.18	3.93	5.52	4.83
Total	135.22	191.46	307.89	287.25

Source: Finnish Food Authority

ORGANIC PRODUCTION AREA AND NUMBER OF ORGANIC FARMS

Area, 1 000 ha	2005	2015	2022	2023
Certified organic area	135.2	191.5	307.9	287.3
In-conversion area	12.4	33.2	31.6	24.2
Total organically farmed area	147.6	224.6	339.5	311.5
Percentage of organically farmed area of the total area of production, %	6.7	10.0	15.0	13.9
Organic farm size, ha/farm	34.0	52.8	69.9	75.0
Organic farms, number	4 296	4 251	4 857	4 153
Total organically farmed area EU-27, 1 000 ha	6 476	10 610	16 898	..
Percentage of organically farmed area of the total area of production EU-27, %	3.6	6.6	10.5	..

Source: Finnish Food Authority, Eurostat

LIVESTOCK

Livestock, in thousands	2005	2022	2023
Horses	64	72	72
Cattle	959	834	821
Dairy cows	319	248	242
Suckler cows	35	65	65
Sheep ¹⁾	87	132	122
Ewes	52	68	63
Other sheep	35	64	59
Pigs ²⁾	1 401	1 061	988
Sows	177	75	70
Fattening pigs	460	477	451
Piglets	451	493	451
Poultry ³⁾	10 538	14 356	14 278
Hens	3 128	3 866	4 056
Broilers	5 472	8 901	8 717
Turkeys	495	283	272
Goats	7	6	6
Reindeer ⁴⁾	207	178	174

Source: Natural Resources Institute Finland / Agricultural Statistics, The National Equine Competence Association of Finland Hippolis, The Reindeer Herders' Association

¹⁾ From 2015 onwards, the number of sheep is not directly comparable to the previous years.

²⁾ The definitions of pigs changed from 2015. Only class 'Pigs' is comparable to previous years.

³⁾ From 2016 onwards, the number of poultry is not directly comparable to the previous years.

⁴⁾ Living reindeer over 1 year old and calves.

AVERAGE NUMBER OF ANIMALS ON FARMS

Animals, pcs/farm¹⁾	2005	2015	2022	2023
Pigs	454	929	1 329	1 428
Cattle	45	74	102	106
Poultry	5 474	10 587	30 223	32 084
Sheep	51	114	109	105

Source: Calculated from Natural Resources Institute Finland / Number of Livestock

¹⁾ Figures before 2022 are not fully comparable.

LIVESTOCK DENSITY INDEX

Livestock density index ¹⁾	2010	2016	2020
Finland	0.47	0.49	0.42
EU-27	0.75	0.77	0.75

Source: Eurostat

¹⁾ Number of livestock units per hectare of utilised agricultural area.

HENNERIES

	2010	2022	2023
Hennery type	% of egg production		
Enriched cage	89	28	21
Floor	9	61	69
Outdoor ¹⁾	..	4	3
Organic	2	7	7

Source: Finnish Poultry Association

¹⁾ Before 2018 outdoor henneries were compiled as part of floor henneries.

BARN TYPES IN MILK RECORDING HERDS ¹⁾ 2023

	Number of barns	%	Cows	%	Average number of cows/farm
Tie stall barn	1 504	49	45 507	25	30
Free stall barn	1 548	51	135 103	75	87
Total	3 052	100	180 610	100	60

Source: ProAgria

¹⁾ All milk recording herds are not included.

Tie stall barn: Cow is tied to stall from its neck and milked on the spot.

Free stall barn: Cows are on the loose in a building where they have separate feeding and resting area. Cows are milked in a milking station or by a robot.

GRAZING AND TIME OUTDOORS IN MILK RECORDING HERDS

Cattle	2010		2023	
	No.	%	No.	%
Graze in the summer, time outdoors in the winter	455	8	344	11
Graze in the summer, indoors in the winter	3 895	68	1 743	55
Fenced walking area in the summer, time outdoors in the winter	103	2	86	3
Fenced walking area in the summer, indoors in the winter	347	6	177	5
Indoors in the summer and in the winter	946	17	833	26
Total	5 746	100	3 183	100

Source: ProAgria

AVERAGE YIELD PER COW AND MILK CONTENTS IN MILK RECORDING HERDS 2023

Breed	Cows, no.	Average output/ cow		Milk contents		
		kg	ECM ¹⁾	Fat, %	Pro- tein, %	Cells ²⁾
Ayrshire	57 182	9 291	10 169	4.6	3.7	191
Holstein	94 172	10 767	11 361	4.3	3.6	180
Jersey	1 144	8 017	9 630	5.2	3.9	196
Finncattle						
Eastern Finncattle	142	4 543	4 799	4.3	3.4	171
Western Finncattle	763	7 091	7 541	4.4	3.5	218
Northern Finncattle	271	5 730	6 048	4.4	3.4	176
Other	1 128	9 881	10 488	4.3	3.6	179
All	154 802	10 162	10 867	4.4	3.6	184

Source: ProAgria

¹⁾ Energy-corrected milk output (milk's fat, protein and lactose content is taken into account).

²⁾ Somatic cell count, geometric mean 1 000 pcs/ml.

In 2023, 97.2% of the milk delivered to dairies was in class E. In Finland, class E milk must have low cell and bacteria counts and must not contain residues of antibiotics or other foreign substances. In Finland, antibiotic detections in milk are individual cases. Finnish raw cow's milk is of good quality even by international standards.

Source: Finnish Association for Milkhygiene

FISHERY CATCH

Catch, 1 000 kg	Commercial		Recreational	
	Marine	Inland	Marine	Inland
Baltic herring				
2005	66 457	..	520	..
2015	131 444	..	271	..
2022	68 176	..	403	..
Vendace ¹⁾				
2005	151	2 533	26	1 890
2015	200	2 805	36	1 079
2022	514	2 383	31	926
European whitefish				
2005	765	208	357	1 573
2015	570	101	339	718
2022	303	124	545	1 369
Salmon				
2005	461	8	103	231
2015	192	1	62	308
2022	153	4	57	180
Rainbow trout				
2005	17	..	43	559
2015	2	..	15	359
2022	2	..	5	490
Perch				
2005	860	498	2 556	9 190
2015	726	308	1 786	6 582
2022	976	201	1 920	7 943
Pikeperch				
2005	440	99	383	1 883
2015	295	444	366	2 981
2022	177	758	335	3 984

Source: Natural Resources Institute Finland / Fishery and Game Statistics

¹⁾The consumption of vendace has been recorded in fillet weight from 2019, and before that in gutted weight.

INCOME OF FISHING INDUSTRY

	2008	2013	2021	2022
	MEUR	MEUR	MEUR	MEUR
Commercial marine fishery	29	45	39	38
Commercial inland fishery	..	..	13	14
Aquaculture	51	65	83	101
Fish processing ¹⁾	160	358	426	438
Fish wholesale trade ¹⁾	222	282	220	291
Fish retail trade ¹⁾	117	169	56	61

Source: Natural Resources Institute Finland / Fishery and Game Statistics

¹⁾ Includes enterprises the turnover of which exceeded around EUR 10 000 / year.

FISH FARMS

Pcs	2005	2010	2021	2022
Sea, total ¹⁾	154	128	118	111
Food fish farms	149	116	98	89
Fry farms	11	15	29	28
Natural food ponds farmers	0	0	0	0
Inland, total ¹⁾	394	357	245	234
Food fish farms	69	62	49	47
Fry farms	91	80	75	80
Natural food ponds farmers	286	213	142	129
Total ¹⁾	548	485	363	345
Food fish farms	218	178	147	136
Fry farms	102	95	104	108
Natural food ponds farmers	286	213	142	129

Source: Natural Resources Institute Finland / Fishery and Game Statistics

¹⁾ Some enterprises have more than one production line.

FISHERMEN

	1998	2008	2021	2022
Registered commercial inland fishermen	..	..	1 839	1 637
Group 1	..	..	353	336
Group 2	..	..	1 486	1 301
Active group 1			314	312
Active group 2			980	855
Registered commercial marine fishermen	2 948	2 079	2 357	2 136
Group 1	1 071	667	420	387
Group 2	1 877	1 412	1 937	1 749
Recreational fishermen	2 057 000	1 780 000	1 475 000 ¹⁾	1 792 000

Source: Natural Resources Institute Finland / Fishery and Game Statistics

¹⁾ Year 2020.

Group 1: 1997–2015: At least 30 % of income from fishing. 2016–: The average turnover for fishing during the past three accounting periods > EUR 10 000.

Group 2: All other registered commercial fishermen.

BREAD GRAIN AND SPECIAL PLANTS

	2007	2022	2023e
Wheat			
Total yield, M kg	797	833	740
of which organic, %	1	3	2
first grade product, % ¹⁾	51	49	29
Imports, M kg	159	335	241
Exports, M kg	130	85	85
Consumption as food, M kg ²⁾	338	271	273
Annual consumption, kg/person	49	49	49
Rye			
Total yield, M kg	87	64	91
of which organic, %	10	15	12
first grade product, % ³⁾	84	92	51
Imports, M kg	52	12	8
Exports, M kg	21	9	4
Consumption as food, M kg ²⁾	90	75	60
Annual consumption, kg/person	15	13	13
Oat			
Total yield, M kg	1 222	1 174	1 008
of which organic, %	3	9	9
first grade product, % ³⁾	31	20	10
Imports, M kg	0,4	15	1
Exports, M kg	283	283	350
Consumption as food, M kg ²⁾	40	60	54
Annual consumption, kg/person	4	11	10
Turnip rape and rape			
Total yield, M kg	114	56	41
of which organic, %	1	5	8
Exports, M kg	..	0,1	0,1
Imports, M kg	131	101	121
Domestic utilisation, total, M kg	245	157	162

Source: Natural Resources Institute Finland / Balance Sheet for Food Commodities and Crop Production Statistics

¹⁾ Hectolitre weight ≥ 78.0 kg, falling number ≥ 180 , protein (N*5.7) ≥ 12.5 %.

²⁾ Consumption of ground grains expressed in flour weight.

³⁾ Falling number rye ≥ 120 , hectolitre weight rye ≥ 71.0 kg, oat ≥ 58 kg.

VEGETABLES AND FRUITS

1 000 kg	2007	2022	2023e
Potato			
production	702	533	498
of which organic, %	1	2	2
exports	10	23	9
imports	10	11	8
domestic utilisation, total	662	507	503
Tomato			
production	38	34	31
of which organic, %	..	3	1
exports	0.2	0.4	0.2
imports	22	24	23
domestic utilisation, total	60	58	54
Onions			
production	..	30	32
of which organic, %	..	2	1
exports	0.1	0.4	0.3
imports	9	29	14
Peas			
production	11	91	87
of which organic, %	11	9	11
exports	1	1	5
imports	4	14	10
domestic utilisation, total	14	104	92
Citrus fruits			
exports	0.3	0.5	0.5
imports	73	66	62
domestic utilisation, total	73	66	62
Apple			
production	..	7	8
of which organic, %	..	1	1
exports	0.1	0.1	0.2
imports	55	29	31
Berries			
production	12	20	17
of which organic, %	2	3	3
exports	10	16	10
imports	19	32	26

Source: Natural Resources Institute Finland / Horticultural Statistics, Crop Production Statistics and Balance Sheet for Food Commodities, Finnish Customs

FISH CONSUMPTION

Kg/person	2000	2007	2021	2022
Domestic fish				
Farmed rainbow trout	1.6	1.1	1.4	1.6
Baltic herring	1.2	0.4	0.4	0.2
Pike	0.7	0.7	0.5	0.6
European perch	0.7	0.7	0.7	0.6
Vendace	0.7	0.6	0.4	0.3
European whitefish	0.4	0.5	0.3	0.3
Pikeperch	0.2	0.3	0.3	0.4
Other domestic fish	0.6	0.7	0.4	0.5
Domestic fish, total	6.1	5.0	4.2	4.4
Imported fish				
Farmed rainbow trout	0.3	1.0	0.2	0.5
Farmed salmon	0.9	2.7	3.4	2.9
Tuna (preserved and prepared)	1.2	1.7	1.4	1.6
Saithe (frozen fillets)	0.6	0.5	0.3	0.3
Shrimps	0.4	0.6	0.5	0.6
Herring and Baltic herring (preserved)	0.5	0.5	0.5	0.4
Other imported fish	2.3	2.7	2.1	2.2
Imported fish, total	6.2	9.7	8.3	8.5

Source: Natural Resources Institute Finland / Fish Consumption

Domestic fish is shown as fillet weight (kg/person). The imported fish is shown as product weight. Imported freshwater fish (e.g. European whitefish, pikeperch) included in group 'other imported fish'.

MILK PRODUCTS AND EDIBLE FATS

	2005	2022	2023
Milk, M litres			
yield	2 362	2 193	2 174
litres/cow	7 505	8 888	9 043
received at dairies	2 293	2 151	2 132
of which organic, %	1	4	3
consumption (milk and liquid milk products ¹⁾), M kg	965	788	779
Butter, M kg			
production	50	47	48
consumption	14	17	17
exports	37	30	32
imports	0.4	0.9	0.8
Cheese, M kg ²⁾			
production	97	82	85
consumption	98	141	145
exports	38	10	10
imports	31	70	70
Milk powder, exports, M kg	15	45	47

Source: Natural Resources Institute Finland / Balance Sheet for Food Commodities, Finnish Customs

¹⁾ Includes milk, buttermilk, yogurt, viili, cream, sour cream products and other fresh milk products.

²⁾ Includes also natural quark and cottage cheese.

EGGS

M kg	2005	2022	2023p
Production	58	76	75
of which organic, %	2	8	6
Consumption	49	61	64
Exports	11	18	13

Source: Natural Resources Institute Finland / Balance Sheet for Food Commodities

Production and consumption

MEAT

M kg	2005	2022	2023e
Pork			
production	204	170	159
of which organic, %	..	0.4	0.4
consumption	176	162	157
exports	40	37	29
imports	15	27	24
Beef and veal			
production	87	85	85
of which organic, %	..	4.0	4.2
consumption	98	97	95
exports	2.0	7.2	8.5
imports	14	22	18
Poultry meat			
production	87	147	144
consumption	84	161	167
exports	10	14	9.3
imports	7.0	27	31
Mutton			
production	0.6	1.3	1.1
of which organic, %	..	21	20
consumption	1.9	3.0	2.8
imports	1.4	1.7	1.7
Horse meat			
production	0.1	0.2	0.2
consumption	1.2	1.5	1.0
imports	1.2	1.3	0.8
Reindeer meat			
production ¹⁾	2.9	1.6	1.7
consumption	3.1	2.1	2.2
exports	0.04	0.2	0.1
imports	0.2	0.7	0.5
Meat, total			
production	382	405	391
consumption	364	425	424
exports	52	58	47
imports	39	80	76
Edible offals			
exports	7.1	18	17
imports	0.1	2.2	1.8

Source: Natural Resources Institute Finland / Balance Sheet for Food Commodities, The Reindeer Herders' Association

¹⁾ Statistics are compiled for the reindeer husbandry year, from June 1st to May 31st.

Amount of meat expressed as carcass meat, incl. bones and spoilage. Amount of consumed meat is approx. half of carcass weight.

BERRIES AND MUSHROOMS

Total crops of garden berries, M kg	2005	2022	2023
Strawberry	10	16	14
of which organic, %	..	2.1	1.8
Black- and greencurrant	1.8	1.6	1.1
Red- and whitecurrant	0.5	0.4	0.3
Raspberry	0.6	1.5	1.4
of which organic, %	..	0.7	2.0
Gooseberry	0.03	0.07	0.03
Total	13	20	17
Supply of wild berries, 1 000 kg			
Bilberry	3 111	9 360	4 018
of which organic, %	..	46	61
Lingonberry	8 544	8 295	5 152
of which organic, %	..	17	..
Cloudberry	321	269	81
of which organic	..	63	..
Other wild berries	51	43	48
Total	12 027	17 968	9 298
Supply of wild mushrooms, 1 000 kg ¹⁾			
Chanterelle	16	36	85
Cep	181	41	99
Milk caps	152	5.5	35
Other wild mushrooms	77	31	..
Total	426	115	275

Source: Natural Resources Institute Finland / Horticultural Statistics, Finnish Food Authority

¹⁾ Fresh weight.

The numbers do not include direct sales to consumers and catering or gathering for own use.

GAME

Game catch by number and meat quantity

Number	2007	2022	2023
Hares	275 800	168 600	145 900
Moose	62 557	37 055	32 345
Deer ¹⁾	26 093	87 497	76 919
Wild boar	..	1 053	985
Waterfowl	469 200	238 200	191 300
Grouse	359 100	236 700	193 200
Other game birds	188 600	271 000	260 800
Total ²⁾	1 385 150	1 044 000	904 400
Quantity, 1 000 kg			
Hares	537	346	306
Moose	8 343	5 003	4 189
Deer ¹⁾	1 116	3 571	2 248
Wild boar	..	84	79
Waterfowl	262	146	108
Grouse	235	174	144
Other game birds	68	85	81
Total ²⁾	10 609	9 467	7 203

Source: Natural Resources Institute Finland / Hunting

¹⁾ White-tailed deer, Finnish forest reindeer, fallow deer and roe deer.

²⁾ Totals include also bears and beavers.

BEEKEEPING FIGURES

	2022	2023
The Finnish Beekeepers' Association members	2 441	2 359
Professional beekeepers ¹⁾	81	80
Organic beekeepers	60	57
Number of productive beehives	68 800	69 400
Number of organic beehives	4 618	5 086
Yield per beehive, kg	48	26
Honey production, tonnes	3 300	1 800
Imported honey, tonnes	1 900	2 000
Honey consumption, tonnes	4 600	3 200
Honey consumption, g/person	826	577
Winter beehive losses ²⁾ , %	19	11

Source: The Finnish Beekeepers' Association, Natural Resources Institute Finland / Balance Sheet for Food Commodities

¹⁾ Beekeepers with more than 100 hives according to hive grant statistics.

²⁾ Percentage of bees that died during the winter.

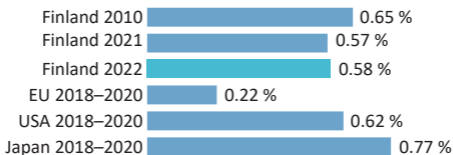
FOOD MANUFACTURERS BY SECTOR

Sector	2000	2017	2023	2023 organic operators
	Pcs	Pcs	Pcs	Pcs
Slaughter and meat processing	380	435	296	52
Fish processing	256	332	259	4
Processing of vegetables, berries and fruit	395	465	358	48
Dairy processing	150	111	98	24
Processing of cereal products	153	123	97	30
Bakeries	1 101	835	891	43
Production of beverages	99	116	171	27
Processing of other foodstuffs	378	442	459	87
Total	2 912	2 859	2 629	315

Source: Aitojamakuja.fi / Yritystilastot

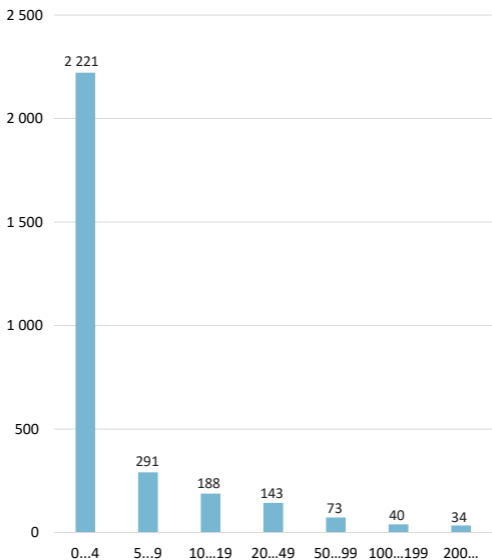
THE SHARE OF FOOD INDUSTRY'S R&D COSTS

% of the gross value of production



Source: Statistics Finland, FoodDrinkEurope

FOOD AND DRINK INDUSTRY PLANTS ACCORDING TO ENTERPRISE SIZE 2022



Source: Statistics Finland / Regional statistics on entrepreneurial activity

Food and drink industry is SME-based.

FOOD INDUSTRY KEY SECTORS

Sector	Number of plants		Employees total ¹⁾		Turnover, 1 000 €		Turnover, 1 000 €/employee	
	2021	2022	2021	2022	2021	2022	2021	2022
Slaughter and meat processing	258	261	7 825	7 844	2 673 792	3 014 334	342	384
Fish, crustacean and mollusc processing	170	169	872	946	406 602	440 184	466	465
Processing and preserving of fruits and vegetables	241	237	2 024	2 125	667 662	745 315	330	351
Processing and preserving of potatoes	47	46	391	395	147 072	157 030	376	398
Manufacture of vegetable and animal oils and fats	20	19	154	185	84 965	92 421	553	500
Manufacture of dairy products	101	104	4 445	4 634	2 099 827	2 513 912	472	543
Manufacture of bakery and farinaceous products	90	88	1 051	1 143	538 886	643 634	513	563
Manufacture of other food products, of which	1 087	1 153	6 851	7 092	1 255 733	1 368 271	183	193
Sugar	5	536	5 818	6 069	1 808 383	1 928 771	311	318
Cocoa, chocolate and confectionery	72	81	1 072	1 171	144 017	131 860	689	652
Tea and coffee	50	51	465	484	304 045	338 938	284	289
Prepared meals and dishes	104	126	2 177	2 399	342 217	301 537	735	623
Food preparations and dietetic food	15	14	342	325	475 916	543 496	219	227
Beverages	320	318	2 825	2 989	1 58 090	182 983	463	563
Alcoholic beverages ²⁾	255	249	2 540	2 687	1 369 550	1 518 445	485	508
Food industry, total	3 322	3 457	39 061	40 690	13 727 362	15 301 461	351	376

Source: Statistics Finland / Regional statistics on entrepreneurial activity

- ¹⁾ Includes paid employees and entrepreneurs. Employees are converted to annual full-time employees so that, for example, an employee working half-time represents one half of a person and two employees working half-time for one year represent one annual full-time employee.
- ²⁾ Distilling and mixing of alcoholic beverages: production of ethanol by fermentation as well as manufacture of cider and fruit and berry wines, other distilled fermented beverages and beer production.

IMPORT AND EXPORT OF FOODSTUFFS

Product group	Import, MEUR			Export, MEUR			Change 22/23 %
	2015	2022	2023	2015	2022	2023	
PROCESSED PRODUCTS							
Beverages	452	591	591	161	219	248	13
Alcoholic beverages ¹⁾	351	368	349	140	161	180	12
Beer	39	42	40	14	22	25	12
Soft drinks and mineral waters	50	168	188	7.3	35	42	20
Juices	74	92	101	4.8	6.6	5.0	-24
Canola oil	6.9	30	28	5.3	6.5	8.2	27
Margarine	31	31	27	5.3	9.7	11.4	18
Fruit preserves	78	97	90	3.1	5.7	4.5	-21
Vegetable preserves	70	113	123	4.3	3.7	3.9	7
Sugar and honey	53	88	115	96	107	145	35
Sugarchemical products	3.8	11	8.2	76	96	106	11
Honey	8.3	10	10	0.03	0.1	0.1	-4
Coffee (instant and roasted)	60	151	107	19	49	45	-8
Fish and crustacean products	130	148	151	5.1	13	11	-18
Frozen fish products	30	43	39	7.7	16	11	-28
Soups and tomato sauces	41	44	52	3.0	2.2	2.3	4
Babyfood	17	24	25	6.3	5.7	5.0	-12
Meat	325	384	382	123	196	181	-8
Pork	56	51	54	67	93	76	-19
Beef	63	94	76	11	36	40	12
Poultry	31	36	41	13	14	11	-21
Dairy products	407	451	484	380	511	455	-11
Milk powder	2.7	5.1	6.2	81	166	119	-28
Cheese	281	334	348	59	50	46	-8
Butter, fats and oils from milk	3.7	5.3	4.6	116	165	168	2

Malt	2.0	4.9	4.7	-4	16	21	22	5
Frozen berries and vegetables	98	102	94	-8	29	32	23	-27
Frozen potatoes	26	39	49	27	0.58	0.59	0.51	-13
Flour and milling industry products	117	138	172	24	43	87	81	-7
Rye flour	0.15	0.19	0.18	-5	0.47	0.12	0.11	-7
Animal feed products	351	478	442	-8	53	143	105	-27
Sweets	222	312	360	16	103	130	136	5
Chocolate	98	147	162	10	62	75	78	4
Starch products	97	86	86	0	11	23	22	-4
Processed products total ²⁾	3 257	4 101	4 219	3	1 239	1 817	1 739	-4
AGRICULTURAL PRODUCTS	2015	2022	2023	22/23 %	2015	2022	2023	22/23 %
Tea	12	13	14	6	0.42	1.1	1.0	-10
Raw coffee	223	273	200	-27	30	44	4.0	-91
Fruits	342	344	340	-1	3.3	7.0	6.5	-7
Birds' eggs	3.8	6.6	7.9	19	15	30	26	-16
Fresh fish	183	451	356	-21	19	263	225	-14
Berries	17	45	46	2	3.3	1.8	1.2	-31
Blueberry	0.67	1.4	4.1	193	0.77	0.26	0.06	-78
Spices	13	22	21	-2	10	13	15	17
Nuts	37	32	34	7	0.49	0.91	0.65	-28
Raw sugar	32	30	30	1	1.0	0.64	0.56	-12
Vegetables and potato	205	257	253	-2	5.0	17	10	-42
Grains	35	141	67	-52	147	82	126	54
Oat	1.2	5.9	0.39	-93	62	60	98	62
Agricultural products total ²⁾	1 170	1 768	1 497	-15	235	463	417	-10

Source: Finnish Customs, Finnish Food and Drink Industries' Federation

¹⁾ Includes spirits and vinegar and vinegar substitutes made from acetic acid, in addition to weak and strong alcoholic beverages.

²⁾ The sum of processed and agricultural products is the total value of exports and imports.

FOOD EXPORTS BY COUNTRY

Percentage of the total value of exports

2015	%	2022	%
Sweden	20.4	Sweden	17.8
Estonia	8.8	Estonia	8.6
Russia	7.6	China	7.4
Germany	5.1	Germany	7
the Netherlands	4.5	France	5.1
Denmark	3.4	Poland	4.3
France	3.2	Denmark	4.3
USA	3	Russia	4.1
China	2.7	Norway	3.4
Poland	2.4	The Netherlands	3.3
Others	38.9	Others	34.7
Total	100	Total	100

Source: Finnish Customs, Finnish Food and Drink Industries' Federation

2023	%
Sweden	20.2
Estonia	10
Germany	6.4
Poland	5.1
Denmark	4.6
The Netherlands	4.6
China	4.2
France	4.2
Lithuania	3
Spain	2.8
Others	34.9
Total	100

FOOD EXPORTS BY COUNTRY AND PRODUCT GROUP 2023

China	€ thousand	EU	€ thousand	Other countries	€ thousand
Milk powder	38 099	Fish, fresh	222 982	Milk powder	53 307
Other dairy products	23 556	Alcoholic beverages	148 485	Pork	39 415
Other meat and animal parts	17 711	Butter and other milk fats	141 704	Alcoholic beverages	30 994
Pork	7 169	Oat	96 312	Butter and other milk fats	27 611
Frozen vegetables	1 159	Chocolate	66 781	Raw materials for animal feeds	19 966
Soft drinks and mineral waters	1 112	Animal feed compounds	62 507	Cheese	18 175
Frozen berries and fruits	658	Other dairy products	46 276	Other milk products	14 188
Other grain products	461	Beef	39 801	Malt	13 840
Baby foods, others	403	Other sweets	39 242	Animal feed compounds	13 839
Chocolate	377	Other grain products	37 025	Chocolate	11 026
Other milling industry products	166	Coffee, roasted	34 122	Soft drinks and mineral waters	9 449
Other	310	Other	558 976	Other	115 628
Total	91 181	Total	1 494 213	Total	367 437

Source: Finnish Customs, Finnish Food and Drink Industries' Federation

NUMBER OF SHOPS BY SHOP TYPE

Shop type	Total 1.1.2023	Total 1.1.2024
Hypermarkets	162	164
Department stores	89	91
Supermarkets, large	725	735
Supermarkets, small	527	543
Self-service shops, large	779	756
Self-service shops, small	269	256
Small shops	204	189
Specialty shops, market halls and online grocery shops ¹⁾	745	734
Discount stores, part of the convenience goods offering	421	460
Service station stores, part of the convenience goods offering	506	478
Total	4 427	4 406
Grocery buss / boat	5	4
Closed down	227	187

Source: NielsenIQ Convenience store register

¹⁾ Grocery shops operating online only.

SALES OF CONSUMER GOODS BY SHOP TYPE

MEUR	2022	2023
Hypermarkets ¹⁾	6 469	7 012
Department stores	431	436
Supermarkets, large	8 279	8 858
Supermarkets, small	2 631	2 758
Self-service shops, large	2 145	2 136
Self-service shops, small	377	369
Small shops	153	143
Specialty shops, market halls and online grocery shops ²⁾	345	321
Discount stores, part of the convenience goods offering	568	633
Service station stores, part of the convenience goods offering	135	129
Total	21 533	22 796
Grocery buss / boat	2	1
Closed down	101	133
Total	21 636	22 930

Source: NielsenIQ Convenience store register

¹⁾ Includes chains K-Citymarket, Prisma and Minimani.

²⁾ Grocery shops operating online only.

ONLINE GROCERY SHOPPING

	2019	2020	2021	2022	2023
Online grocery sales, MEUR	110	395	536	586	626
Online grocery's share of the grocery market, %	0.6	2	2.6	2.7	2.7

Source: NielsenIQ Convenience store register

The numbers include sales via domestic stores operating online only and sales via physical stores' online shops.

GROCERY SHOP SALES

	2023	
	MEUR	%
Food items total	16 517	100
Milk products and eggs	2 777	19
Cereal products and bread	2 485	17
Meat	2 334	16
Vegetables	1 419	9,7
Fruits and berries	1 080	7,4
Others	4 536	31
Alcohol-free beverages	1 887	13

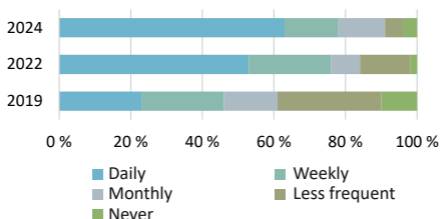
Source: Finnish Grocery Trade Association

MARKET SHARE OF ORGANIC FOOD BY PRODUCT CATEGORY

%	2017	2022	2023
Baby foods	15	23	23
Eggs	17	16	13
Vegetable oils	20	14	13
Flakes and groats	14	12	11
Flours	8	8	7
Juice and fruit soups	..	8	7
Coffee, tea and cocoa	6	7	7
Fruits	6	6	6
Milk	4	4	3
Vegetables	..	3	2

Source: Finnish Organic Food Association Pro Luomu

FREQUENCY OF USE OF ORGANIC PRODUCE BY CATERING PROVIDERS, %



Source: The Finnish Organic Food Association Pro Luomu 2024 / Project Luomutetaan ruokapalvelut

NUMBER OF RESTAURANT BUSINESSES AND ESTABLISHMENTS

	2018	2019	2020	2021	2022
Number of enterprises	12 221	12 568	12 580	12 584	12 864
Establishments of enterprises	15 322	15 961	16 433	15 821	16 167

Source: Statistics Finland

CONSUMPTION EXPENDITURE

Private consumption expenditure at current prices, MEUR	2005	2022p	2023p
Food and non-alcoholic beverages	9 381	15 757	16 861
Share of food and non-alcoholic beverages in consumption expenditure, %	12	12	12
Alcoholic beverages, tobacco and narcotics	4 135	5 918	6 064
Clothing and footwear	3 771	4 568	4 673
Housing, water, electricity, gas and other fuels	18 980	39 127	40 255
Furnishings, household equipment and household maintenance	4 147	6 670	6 362
Health	3 367	6 555	6 567
Transport	10 438	14 656	15 099
Communications	2 185	3 093	3 232
Culture and leisure	9 094	12 180	12 269
Education	333	454	473
Hotels, cafés and restaurants	5 259	8 624	9 449
Other goods and services	7 118	14 433	16 169

Source: Statistics Finland / National Accounts

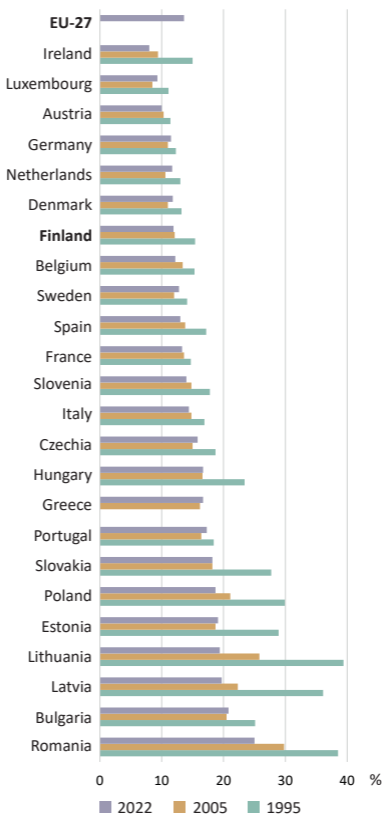
FOOD EXPENDITURE

Food expenditure of households, per capita	2005		2022p		2023p	
	€/y	%	€/y	%	€/y	%
Bread and cereal products	280	16	401	16	436	16
Meat and meat products	311	17	428	17	449	17
Fish and seafood	69	4	122	5	122	4
Milk, cheese and eggs	307	17	447	18	481	18
Oils and fats	41	2	62	2	68	2
Fruit and berries	124	7	211	8	216	8
Vegetables	155	9	248	10	254	9
Potatoes	27	1	33	1	36	1
Sugar, jam, honey, chocolate and confectionery	137	8	215	8	240	9
Coffee, tea and cocoa	45	3	97	4	90	3
Other goods	317	18	286	11	328	12
Food and non-alcoholic beverages total	1 785	100	2 551	100	2 720	100

Source: Calculated from Statistics Finland / National Accounts

HOUSEHOLDS CONSUMPTION OF FOOD AND
NON-ALCOHOLIC BEVERAGES

% of households' total expenditure



Source: Eurostat

FOOD CONSUMPTION PER CAPITA
IN FINLAND AND IN THE EU

Consumption, kg/capita/year	2005	2011	2022	2023p	EU-27 ¹⁾
Grains, total	79	79	85	86	102
Meat, total	73	78	78	78	79
Beef	19	19	17	17	14
Pork	34	36	29	28	40
Poultry meat	16	18	29	30	23
Fish (fillet/product weight)	14	15	15	14	17
Liquid milk products, total	188	182	135	133	218 ²⁾
Milk	143	134	93	89	..
Sour milk products	39	40	28	29	..
Cream (incl. sour cream products)	7	9	10	9	5
Butter	3	4	3	3	5
Vegetable oils	5	6	..	..	22
Cheese ³⁾	17	21	26	26	..
Eggs	9	10	11	11	14
Sugar	32	30	31	23	35
Fruit	55	59	56	52	110
Vegetables ⁴⁾	55	63	64	57	142
Coffee (roasted)	10	10	9	9	6
Soft drinks	52	56	..	..	..
Beer ⁵⁾	84	85	66	..	71
Wine ⁵⁾	11	13	11	..	24
Spirits ⁵⁾	7	5	4	..	..

Source: Natural Resources Institute Finland / Balance Sheet for Food Commodities, FAOSTAT / Food Balance Sheet, Finnish Coffee Roasters Association, The Finnish Food and Drink Industries' Federation, Federation of The Brewing and Soft Drinks Industry, Kantar Agri Oy

¹⁾ In 2022.

²⁾ All milk products excluding butter.

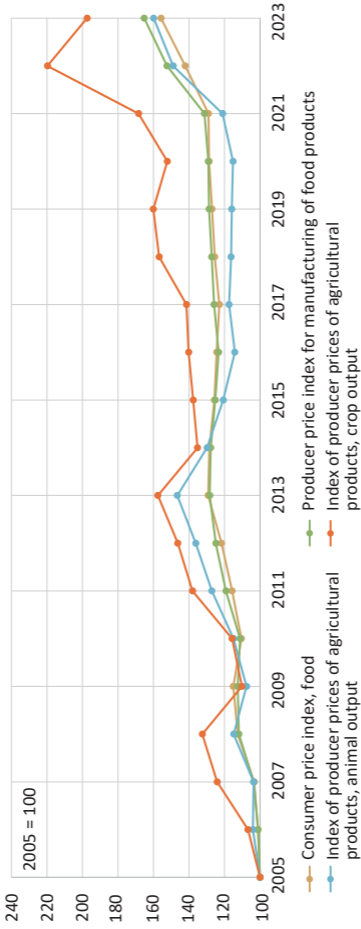
³⁾ Includes also natural quark and cottage cheese.

⁴⁾ The numbers for Finland include fresh vegetables. The number for EU is vegetables total.

⁵⁾ The numbers don't include private imports.

The numbers for Finland and EU are not directly comparable. The source for EU numbers is FAOSTAT.

DEVELOPMENT OF CONSUMER AND PRODUCER PRICE IN FINLAND 2005–2023



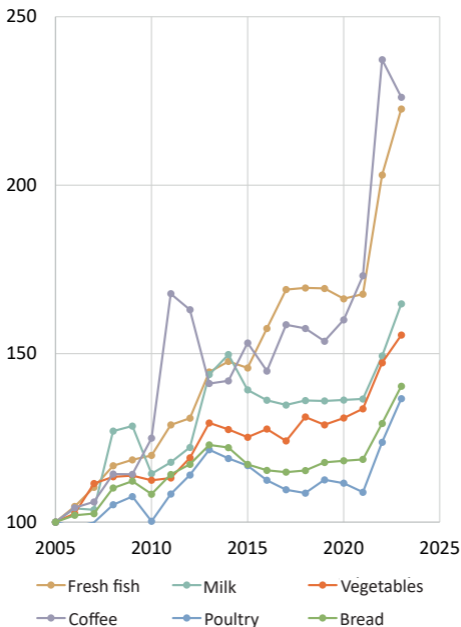
Source: Statistics Finland

The consumer price index describes the price development of products purchased by households in Finland

The producer price indices measure the development of commodity prices from the perspective of enterprises.

The index of producer prices of agricultural products measures developments in producer prices for plant-based and animal products from farmers' perspective.

REAL PRICE DEVELOPMENT OF SELECTED FOOD ITEMS



Source: Statistics Finland / Consumer price index

PRICE INDEXES 2023
(EU27_2020=100)

	Household consumption expenditure	Food and non-alcoholic beverages	Food	Bread and grain products	Meat and meat products	Fish and fish products	Milk, cheese and eggs	Fats and oils	Fruit, vegetables and potatoes	Other food-stuffs	Non-alcoholic beverages
The Netherlands	122.2	97.3	95.4	88.0	105.5	90.6	96.3	113.0	93.5	95.2	118.0
Belgium	118.4	105.6	105.1	104.0	117.9	108.7	100.0	110.2	98.6	100.7	110.5
Spain	94.2	98.4	97.8	105.7	89.8	90.1	101.4	108.2	96.7	111.0	104.8
Ireland	146.4	113.1	110.9	114.2	105.4	91.5	117.3	110.6	105.8	131.6	135.0
Italy	99.3	102.3	104.7	110.7	109.3	94.0	101.0	86.7	105.5	107.0	82.2
Austria	118.1	105.7	105.8	111.5	120.2	123.3	94.9	93.3	98.9	103.1	106.0
Greece	84.2	105.7	104.7	109.5	93.7	101.7	138.0	126.3	85.9	124.5	118.8
Luxembourg	152.3	118.9	120.3	117.3	134.4	109.6	119.5	112.4	120.4	113.7	110.2
Portugal	85.6	101.8	100.0	98.5	89.2	92.0	112.4	101.0	96.5	140.3	127.0
France	107.1	106.7	107.8	101.1	126.6	107.9	91.7	106.0	117.4	95.8	96.4
Sweden	54.1	73.5	72.7	63.4	64.9	86.5	102.4	108.5	63.8	81.7	82.6
Germany	109.7	106.2	107.5	109.6	117.9	125.1	102.7	94.3	110.5	94.9	98.0
Finland	127.8	110.4	108.8	120.6	107.5	121.2	104.9	106.3	109.2	108.1	126.9
Denmark	143.2	116.4	114.7	142.0	90.6	120.0	116.9	123.0	104.9	146.4	133.5
EU-27	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Eurostat

RESPONSIBLE PROCEDURES

Environment

ENVIRONMENTAL AID

Farms committed to environmental aid	2012	2023	2024
Number	56 143	33 605	32 901
% of farms	91	77	78
% of arable area	90	89	91

Source: Finnish Food Authority

GREENHOUSE GAS EMISSIONS OF AGRICULTURE

GHG emissions, thousand tonnes of CO ₂ -eq.	2000	2010	2022	2023e	EU-27 ¹⁾
Agriculture total	6 386	6 421	6 075	5 994	365 719
Enteric fermentation	2 363	2 347	2 175	2 111	180 808
Manure management	693	773	677	660	62 210
Agricultural soils	2 975	3 021	2 965	2 965	108 227
Other	355	280	258	258	14 473

Source: Statistics Finland, Eurostat

¹⁾ In 2022. Includes the total emissions of all EU-27 countries.

SALES VOLUMES OF PLANT PROTECTION PRODUCTS

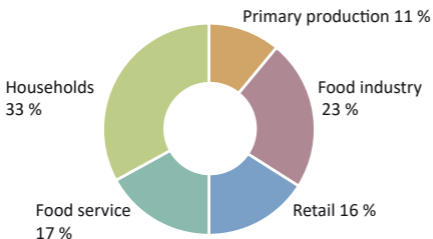
Sales, tonnes	2005	2010	2021	2022
Products				
fungicides	718	607	577	523
insecticides	147	232	238	213
herbicides	2 639	3 833	2 843	2 853
plant growth regulators	107	95	120	118
Active substances				
fungicides	255	149	127	117
insecticides	47	34	26	30
herbicides	1 077	1 515	1 033	1 252
plant growth regulators	52	49	49	55

Source: Finnish Safety and Chemicals Agency

FOOD WASTE

The amount of food waste in Finland is approximately 351–376 million kg per year. Food waste refers to originally edible food, which is not utilized as food, feed or part of new products.

Food waste along the food chain ¹⁾



Source: Natural Resources Institute Finland / Elintarvikejätteen ja ruokahävikinseurantajärjestelmän rakentaminen ja ruokahävikkitiekartta

¹⁾ The results from different parts of the food chain are not directly comparable as the estimations are based on different kinds of methods, data and sample representativeness.

ANIMAL WELFARE INSPECTIONS BASED ON SAMPLING

	Inspections, no.			Cases of neglect, %		
	2011	2022	2023	2011	2022	2023
Pigs	52	34	34	25	38	21
Cattle	362	176	172	27	32	30
Laying hens	26	31	2	19	23	0
Broilers	..	9	45	..	22	18
Goats	12	5	6	0	20	50
Sheep	32	50	37	25	28	27
Commercial animal transport	387	401	412	16	6	6

Source: Finnish Food Authority

FARMS RECEIVING ANIMAL WELL-BEING SUBSIDIES ¹⁾

Farms, no.	2020	% of farms	2022	% of farms	2023	% of farms
Beef farms	4 510	56	4 293	61	4 215	63
Pork farms	703	76	651	80	584	79
Sheep/goat farms	317	51	285	56	261	57
Poultry farms	343	77	331	76	320	77

Source: Finnish Food Authority

¹⁾ Subsidised farms.

% of farms that are able to apply for well-being allowance (sufficient number of animals).

IMPLEMENTATION OF ANIMAL WELFARE ON PIG AND COW FARMS

	Healthcare agreement with a vet		Coverage, %		At special level ¹⁾		At national level ²⁾		At basic level ³⁾		Empty ⁴⁾		Healthcare visits	
	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023	2022	2023
Pig farms (pens)	970	852	90	83	26	21	712	641	66	48	162	141	4 232	3 496
Cow farms	7 152	6 954	83	83	..	..	..	..	..	..	..	..	14 374	14 229

Source: Animal Health ETT / Sikava (Health Classification Register for Pig Farms) and Naseva (Health Classification Register for Cow Farms), Finnish Food Authority

¹⁾ Meets the voluntary special requirements set by the industry for pig breeding farms, sikava.fi.

²⁾ Meets the voluntary health care requirements set by the industry.

³⁾ Some of the voluntary national requirements are not met.

⁴⁾ Includes also temporarily empty pens.

Amount of pens at different healthcare levels at end of each year.

THE FOOTPAD DERMATITIS SCORE THAT REPRESENTS THE WELL-BEING OF BROILER CHICKENS

	2012	2022	2023
Share of flocks, %, with a score of less than 40	94.5	99.11	99.19
Share of flocks, %, with a score of 40–80	4.91	0.86	0.71
Share of flocks, %, with a score of more than 80	0.62	0.03	0.1

Source: Animal Health ETT

At least one footpad of a hundred chickens in every flock is analysed at the slaughterhouse. The seriousness of dermatitis is classified on a three-stage scale: 0, 1 and 2, where 0 refers to healthy footpad. Less than 40 points/flock is considered acceptable.

USE OF ANTIMICROBIAL AGENTS IN FOOD-PRODUCING ANIMALS

	EU/EEA, average			Finland		
	2010 ²⁾	2020 ³⁾	2022 ³⁾	2010	2020	2022
mg/PCU ¹⁾	131	89.0	73.9	25	16.2	14.9

Source: The European Medicines Agency EMA / ESVAC report

¹⁾ The sales in mg active ingredient sold per population correction (PCU, population correction unit, calculated by taking into consideration the most common food-producing animal species). Results for EU/EEA are calculated by dividing the total sales of veterinary antimicrobials in all participating countries by the combined PCU of these countries.

²⁾ Number of participating countries: 19

³⁾ Number of participating countries: 31

LEVEL OF SELF-SUFFICIENCY IN FOOD PRODUCTS

Ratio of production to consumption, %	2005	2022	2023
Milk and milk products (liquid)	112	96	94
Beef	89	88	90
Pork	116	106	101
Poultry meat	103	92	86
Eggs	120	125	118
Bread grain	102	119	117
Wheat	105	126	118
Rye	37	71	112
Oat ¹⁾	128 ²⁾	156	143
Sugar	92	35	56
Tomato	62	63	59
Cucumber	74	90	94
Strawberry	67	64	61
Apple ³⁾	21	23	21
Raspberry	24	37	36
Currants	..	71	73

Source: Kantar Agri Oy, Natural Resources Institute Finland, Finnish Glasshouse Growers' Association, Finnish Association of Fruit and Berry Growers

¹⁾ The level of self-sufficiency in oats is calculated by dividing domestic oat production by consumption. Domestic production is the sum of usage in the food industry and use for food on farms.

²⁾ In 2010.

³⁾ Numbers are estimates (do not include private gardening).

FOOD SECURITY

Finland was ranked number one in food security in 2022 by The Global Food Security Index, which considers the issues of food affordability, availability, quality and safety.

Source: The Economist Intelligence Unit

CUSTOMS CONTROLS OF FOOD 2023

Product category	Inspected batches, no.	Notified, %	Non-compliant samples, %
Foods for people with special diet (incl. dietary supplements)	115	24	41
Water, water-based soft drinks etc.	82	29	40
Leguminous plant seeds and leguminous products	50	6	36
Ingredients for hot drinks and groats	177	16	23
Products imitating meat and dairy products	51	35	22
Sweets and chocolate	93	41	18
Hot drinks (coffee, cocoa and herb drinks)	22	32	18
Purified and isolated ingredients	37	19	16
Compiled dishes	126	33	15
Oil seeds and fruit	67	39	15
Food contact materials	376	14	14
Alcoholic beverages	45	44	13
Fruit, vegetable and plant juices, drinks and spreads etc.	62	24	13
Seasoning products and sauces	92	30	10
Grains and cereal products	173	28	10
Herbs, spices etc.	181	15	10
Foods for children	54	20	9
Cereal dough based products	116	32	9
Fruit and fruit products	638	7	5
Vegetables and vegetable products	511	11	3
Nuts and nut products	88	55	2
Starchy roots and tubers	22	5	0
Fish and fish products	30	20	0
Total	3 208	19	12

Source: Finnish Customs

CAUSES OF NON-COMPLIANCE 2023

Cause of non-compliance ¹⁾	No.	%
Labelling	170	44
Pesticide residues	88	23
Food additives	64	17
Mycotoxins	26	7
Microbiological contamination	8	2
Cadmium	2	1
Other	27	7
Total	385	100

Source: Finnish Customs

¹⁾ In foods inspected by Finnish Customs.

PESTICIDE RESIDUE CONTROL 2023 ¹⁾

Source of sample	Studied samples, no.	Non-compliant, %
Domestic	139	0
EU	1 204	3.2
Outside of EU	475	9.1
Total	1 818	4.5

Source: Finnish Food Authority

¹⁾ Samples from fruits, plants, grains, processed foodstuffs, baby food and products of animal origin.

CONTROL FOR RESIDUES OF VETERINARY MEDICINAL PRODUCTS

	EU-27 average		Finland		
	2014	2022	2014	2022	2023
Targeted samples, no.	425 232	342 850	4 324	4 076	3 186
Non-compliant samples, % ¹⁾	0,37	0,27	0	0	0

Source: EFSA, Finnish Food Authority

¹⁾ The EU results include contaminants. The results for Finland include only residues of veterinary medicinal products.

FOOD INSPECTIONS UNDER OIVA SYSTEM 2023

Category	Registered facilities, no.	Inspected facilities, no.	Number of inspections ¹⁾	OIVA A/B, % ²⁾
Food transport	1 074	121	131	92
Food sales	11 990	3 828	4 448	82
Food service	30 941	11 949	14 201	83
Food storing and freezing	751	226	283	87
Food manufacturing				
Fish sector	334	267	591	85
Meat sector	306	235	790	85
Milk sector	105	94	221	91
Egg sector	62	48	72	100
Cereal and vegetable sector	2 228	817	962	86
Other food manufacturing	860	301	366	84
Export and import	1 126	332	413	75

Source: Finnish Food Authority / Food safety in Finland 2023 publication

¹⁾ Including follow-up inspections.

²⁾ The result of Oiva inspection is excellent or good.

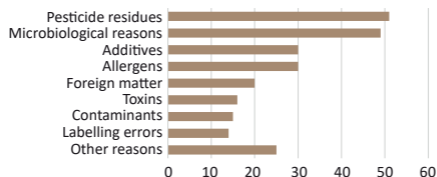
NUMBER OF RECALLS

	2015	2018	2022	2023
Recalls ¹⁾ , no.	111	168	288	250

Source: Finnish Food Authority / Food safety in Finland 2023 publication

¹⁾ Includes both retailer and mass caterer recalls. Includes even cases where products did not become available to consumers. The statistics for different years are not directly comparable, as recording methods have been defined.

REASONS FOR PRODUCT WITHDRAWALS 2023, pcs



Source: Finnish Food Authority / Food safety in Finland 2023 publication

FOOD AND WATER BORNE OUTBREAKS 2023

Cause of disease	Outbreaks, no.	Persons affected, no.	% of persons affected
Foodborne			
Calcium propionate	1	812	49
Norovirus	17	516	31
Unknown	16	135	8
<i>Clostridium perfringens</i>	2	59	4
<i>Salmonella</i>	1	75	4
<i>Staphylococcus aureus</i>	1	16	1
Unknown toxin producer ¹⁾	3	17	1
Inulin	1	24	1
<i>Bacillus cereus</i>	1	2	0
EHEC	1	8	0
Copper	1	7	0
Total	45	1 671	100
Waterborne			
Unknown	1	90	59
Norovirus	2	62	41
Total	3	152	100

Source: Finnish Food Authority / Food safety in Finland 2023 publication

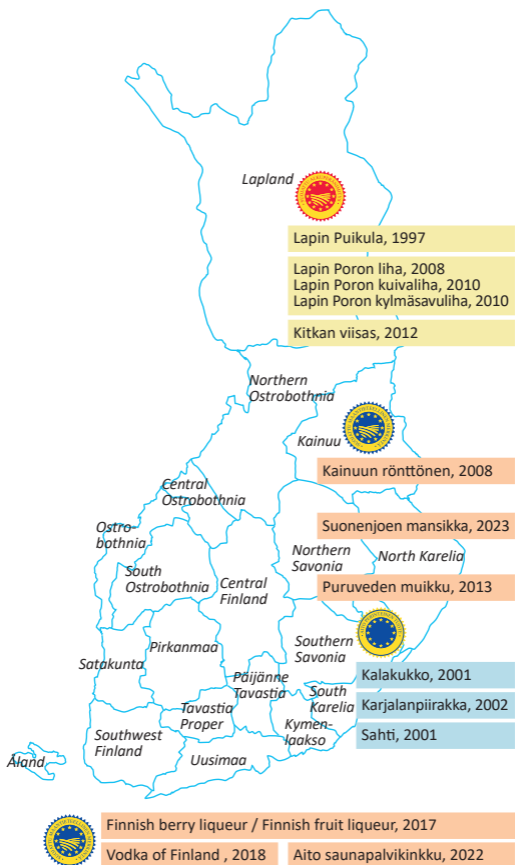
¹⁾ Toxin producer has been concluded to be the cause based on the symptoms and the incubation period of the disease, even though the cause could not be confirmed through laboratory tests.

FOODBORNE OUTBREAKS BY FOOD VEHICLE 2023

Food vehicle	Outbreaks, no.	Persons affected, no.
Vegetables and vegetable products	6	214
Bakery and cereal products, cereals	1	812
Meat and meat products	3	62
Fish and fish products, shellfish	3	170
Milk and milk products	1	16
Unknown or several foods	30	390
Total	44	1 664

Source: Finnish Food Authority

FINNISH PRODUCTS PROTECTED BY EU QUALITY SCHEMES



EU has developed three quality schemes to protect the names of agricultural products and foodstuff: Protected designation of origin (PDO), Protected geographical indication (PGI), and Traditional speciality guaranteed (TSG). Quality schemes guarantee that the product's origin and method of production is known.



Protected designation of origin (PDO) can be granted to a product for which all stages of production take place in a specific geographical region.



Protected geographical indication (PGI) can be granted to a product if at least one stage of production, processing, or preparation takes place in a specific geographical region.



Traditional speciality guaranteed (TSG) can be granted to a product that has a traditional production method or composition, but is not linked to a specific geographical area.

Source: Aitojamakuja, Finnish Food Authority



Hyvää Suomesta -label guarantees the Finnish origin of the ingredients and labor.

The label is granted for food products that are manufactured in Finland using Finnish ingredients. The label is owned and administered by Ruokatieto Yhdistys ry (Finnish Food Information association).

Ruokatieto also promotes food production and culture by raising awareness of Finnish consumers about the food chain and producing food education materials.

Ruokatieto

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#hyväasuomesta #ruokaaomastamaasta
#valitsekotimaista

The online publication of Forkful of Facts, also in Finnish and Swedish, is available free of charge at ruokatieto.fi/tietohaarukka. The printed Forkful of Facts can be ordered by e-mail at ruokatieto@ruokatieto.fi.

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