

FORKFUL OF FACTS

Finnish Food Production Chain Statistics

2021



Ruokatielto

FOR THE READER

Forkful of Facts – Food Production Chain statistics from Finland contains an extensive setting of figures concerning Finnish agriculture, covering the entire food production chain, from farm to fork.

Forkful of Facts presents figures about food production chain practices and value-adding factors. The tables convey information how the Finnish high quality and safety in food production is built based on Finnish knowhow adding competitiveness in the international markets.

In the Forkful of Facts 2021 edition the tables follow the food production chain from consumers point of view from store to farms on land and in waters. The information is mainly from the pandemic year 2020 when Finland was ranked number one in Food security in Global Food Security Index. For comparison some information from earlier years as well as international data is included.

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

The mission of Ruokatieto Yhdistys ry (Finnish Food Information) is “for the love of food from our own country”. 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.

Published by: Ruokatieto Yhdistys ry – Finnish Food Information Association
Layout: Association of ProAgria Centers graphic services

Photo: Riitta Weijola/vastavallo.fi

Print: Painotalo Digital plus Oy, Lahti 2021



Painotuote
4041 0089



TABLE OF CONTENTS

FOOD

Production and consumption

Level of self-sufficiency in food products	4
Food Security	4
Food consumption per capita in Finland and in the EU	5
Marketshare of organic food by product category 2020	6
Market share of organic produce	6
Grocery shop sales	6
Vegetables and fruits	7
Fish consumption	8
Milk products and edible fats	8
Bread grain	9
Eggs	9
Meat	10
Berries and mushrooms	11
Game	12

Food economy

Food manufacturers by sector	13
Food and drink industry plants according to enterprise size	14
Food industry key sectors	15
Import and export of foodstuffs	16
Food exports by country	18
Food exports by country and product group, exports 2020	19
The share of food industry's R&D costs	20
Consumption expenditure	20
Food expenditure	21
Households consumption of food and non-alcoholic beverages	22
Real price development of food in Finland 2006–2020	23
Real price development of selected food items	23
Price indexes 2019	24

RETAIL TRADE AND PROFESSIONALS KITCHEN

Number of shops by shop type	25
Sales of consumer goods by shop type	25
Number of kitchens and units served by industry 2020	26
Share of organic products in public catering	26
Frequency of use of organic produce by catering providers	26

AGRICULTURE

Animals

Average number of animals in farms	27
Livestock density index	27
Livestock	27
Henneries	28
Barn types 2020	28
Grazing and time outdoors	28
Milking machines 2020	29
Average yield per cow and milk contents 2020	29
Protection of animals inspections based on sample	30
Prevention of cruelty to animals inspections in commercial animal deliveries	30
Farms receiving animal well-being subsidies	30
Implementation of animal welfare on pig and cow farms	31
Responsible production limit values in pork production	32
Use of antimicrobial agents in food-producing animals	32
The foodpad dermititis score that represents the well-being of broiler chickens	33
Beekeeping figures	33

Plants

Crop	34
Use of arable land	35
Finlands water stress-index	35
Volume of pesticides sales	36
Pesticide residue control 2019	36
Organic production area and number of organic farms	37
Number of organic producers	37
Use of arable land on organic farms	38
Orcanic production	39

Agricultural economy statistics

Number of agricultural and horticultural enterprises	40
Ownership of agricultural and horticultural enterprises	41
Agricultural labour force	41
Specialization in agricultural and horticultural enterprises	42
Income of agricultural and horticultural enterprises per production sector	42
Agricultural production costs	43
Agricultural gross return	44
Environmental aid	44
Profitability coefficient on the Finnish farms 2004–2020p	45
Entrepreneurial income	46
Producer prices	46

Substituting for agricultural entrepreneurs	47
Average age and number of agricultural entrepreneurs	47
Most important reasons for retirement on disability pension among agricultural entrepreneurs	47
FISHERY STATISTICS	
Fishery catch	48
Fisheries income	49
Fish farms	49
Fishermen	49
FOOD CONTROL	
Customs controls of food 2020	50
Causes of non-compliance 2020	51
Veterinary medicinal product residues and other substances in live animals and animal products	51
Food inspections under OIVIA-system 2020	52
Number of recalls	53
Reasons for product withdrawals 2020	53
Foodborne and waterborne outbreaks and number of persons affected 2020	53
Foodborne outbreaks by food vehicle 2020	54
GENERAL INFORMATION	
Households by size	55
The population of Finland	55
The population density of Finland	55
The average size of a household	55
Actual vitamin and mineral intake compared to the recommendations	56
Most important sources of energy and nutrients	57
Gross domestic product	58
Gross value of and value added to production by industry branch 2019	59
Labour force	60
Occupational diseases by industry 2017	61
Number of occupational accidents	61
Occupational accident frequency	61
Mean precipitation 1981–2019	62
Mean temperatures 1981–2019	62
Weather conditions during the growing season	62
Day lenght	62
Bioeconomy in 2019p	63

Explanation of symbols:

p = preliminary data .. = data not available

FOOD

Production and consumption

LEVEL OF SELF-SUFFICIENCY IN FOOD PRODUCTS

Ratio of production to consumption (%)	1994	2005	2018	2020
Bread grain	75	102	65	105
Dairy products, liquid milk	112	106	100	102
Beef and veal	111	89	81	84
Pork	113	116	95	107
Poultry meat	..	..	97	96
Eggs	130	119	117	111
Sugar	68	83	34	42
Tomato	..	62	61	63
Cucumber	..	74	88	93
Carrot and turnip	..	94	92 ²⁾	93
Strawberry	..	67	65 ²⁾	60
Raspberry	..	24	38 ²⁾	38
Apple ¹⁾	..	21	15 ²⁾	17
Currants	..	..	..	70

Sources: Kantar TNS Agri Ltd, Finnish Horticultural Products Society, Finnish Association of Fruit and Berry Growers, National Board of Customs, The Central Union of Agricultural Producers and Forest Owners, Natural Resources Institute Finland, Kasvistieto Oy

¹⁾ Numbers are estimates (do not include private gardening).

²⁾ Data from 2017.

FOOD SECURITY

Finland was ranked number one in Food security at 2020 by The Global Food Security Index, which considers the issues of food affordability, availability, quality and safety.

Source: The Economist Intelligence Unit

FOOD CONSUMPTION PER CAPITA IN FINLAND AND IN THE EU

Consumption kg/ capita/year	1995	2005	2011	2019	2020p	EU-28 ¹⁾
Grain	70	79	79	81	81	130
Meat, total	60	73	78	80	79	80
beef and veal	19	19	19	19	19	14
pork	32	34	36	31	30	39
poultry meat	9	16	18	26	28	23
other meat	1	5	4	..		3
Liquid milk products, total (litres)	203	188	182	144	140	188
milk	146	135	128	105	101	..
sour milk products	37	37	41	30	30	..
cream (incl. sour cream products)	7	7	9	9	9	4
Butter	6	3	4	3	3	4
Vegetable oils	4	5	6	..	..	17
Cheese ²⁾	15	17	21	25	25	18
Eggs	12	9	10	12	12	13
Sugar	35	32	30	28	32	34
Fruit ³⁾	44	55	59	66	65	88
Vegetables ⁴⁾	62	68	63	66	64	106
Fish (fillet/product weight)	14	14	15	15	15	13
Coffee (roasted)	8	10	10	10	9	5
Soft drinks (litres)	46	52	56	53	..	..
Beer (litres) ⁵⁾	83	84	85	72	68	69
Wine (litres) ⁵⁾	8	11	13	11	12	23
Spirits (litres) ⁵⁾	5	7	5	4	4	..

Source: Kantar TNS Agri Ltd, Natural Resources Institute Finland / Balance Sheet for Food Commodities, FAO - Statistics Division - Food Balance Sheet, Canadean, ICO (International Coffee Organization), The Finnish Food and Drink Industries' Federation, Federation of The Brewing and Soft Drinks Industry

¹⁾ In 2018.

²⁾ Includes non-flavoured curd and cottage cheese.

³⁾ Excluding fruit juices and berries.

⁴⁾ From 2011 onwards, no frozen or preserved vegetables.

⁵⁾ The numbers don't include private imports.

Production and consumption

MARKETSHARE OF ORGANIC FOOD BY PRODUCT CATEGORY 2020

	%
Baby foods	24
Eggs	21
Vegetable oils	18
Flakes and groats	14
Flours	9.5
Coffee and tea	8
Juice and fruit soups	8
Fruits	7
Vegetables	5.5
Milk	4.5
<u>Plant-based beverages</u>	<u>4.5</u>

Source: The Finnish Organic Food Association Pro Luomu

In 2020, the market share of organic produce (€) in grocery trade was 2.6 %.

Source: The Finnish Organic Food Association Pro Luomu

GROCERY SHOP SALES

	2020	%
Food items total	12 644	100
Milk products	2 409	19
Cereal products and bread	2 026	16
Meat	2 096	17
Vegetables	1 335	11
Fruits and berries	1 056	8
Others	3 721	29
<u>Alcohol free beverages</u>	<u>1 526</u>	

Source: Finnish Grocery Trade Association

VEGETABLES AND FRUITS

	1995	2005	2019	2020
Potato				
production	..	742 700	618 900	624 400
of which organic	..	..	12 500	15 600
exports	2 895	4 853	19 780	7 288
imports	3 909	19 304	3 775	8 771
domestic utilisation, total		680 300	590 800	616 100
Tomato				
production	..	..	40 447	41 247
of which organic	..	..	746	676
exports	2 368	58	421	612
imports	16 130	19 471	26 808	26 022
consumption per capita (kg/year)	9	11	12	12
Onions				
production	..	..	31 442	29 801
of which organic	..	..	388	476
exports	..	117	100	194
imports	..	8 264	17 727	14 378
Peas				
production	..	8 100	34 000	54 100
exports	..	1 500	3 200	1 900
imports	..	4 300	9 900	9 000
domestic utilisation, total	..	10 800	40 600	61 200
Citrus fruits				
exports	3 968	91	279	394
imports	62 100	63 749	79 034	80 345
consumption per capita (kg/year)	11	12	14	14
Apple				
production	..	..	8 094	7 165
of which organic	..	..	116	107
exports	11 480	100	273	278
imports	54 001	49 719	42 125	41 698
Berries				
production	..	..	21 473	18 221
of which organic	..	..	618	631
consumption per capita (kg/year)	11	15	12,9 ¹⁾	..
Berries and fruits				
exports	..	164	146	517
imports	..	6 869	14 399	14 917

Source: Natural Resources Institute Finland / Crop Production Statistics, Horticultural Statistics, Balance Sheet for Food Commodities, Custom statistics, The Finnish Organic Food Association Pro Luomu

¹⁾ Year 2016

Production and consumption

FISH CONSUMPTION

Domestic fish (kg/person)	2000	2005	2018	2019
Farmed rainbow trout (<i>Oncorhynchus mykiss</i>)	1.6	1.4	1.2	1.3
Baltic herring (<i>Clupea harengus membras</i>)	1.2	0.7	0.3	0.4
Pike (<i>Esox lucius</i>)	0.7	0.7	0.4	0.4
European perch (<i>Perca fluviatilis</i>)	0.7	0.6	0.4	0.4
Vendace (<i>Coregonus albula</i>)	0.7	0.7	0.5	0.3
European whitefish (<i>Coregonus lavaretus</i>)	0.4	0.3	0.2	0.2
Pikeperch (<i>Sander lucioperca</i>)	0.2	0.3	0.3	0.3
Other domestic fish	0.6	0.5	0.4	0.4
Imported fish (kg/person)				
Farmed rainbow trout (<i>Oncorhynchus mykiss</i>)	0.3	0.6	0.8	0.6
Farmed salmon (<i>Salmo salar</i>)	0.9	1.9	3.5	3.5
Tuna (<i>Thunnus thynnus</i>) (preserved and prepared)	1.2	1.6	1.3	1.7
Saithe (<i>Pollachius virens</i>) (frozen fillets)	0.6	0.4	0.4	0.4
Shrimps	0.4	0.5	0.4	0.5
Herring (<i>Clupea harengus</i>) and preserved herring	0.5	0.5	0.6	0.6
Other imported fish	2.3	2.4	2.2	2.2

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

	1995	2005	2019	2020
Milk (M litres)				
production	2 397	2 362	2 305	2 336
yield litres/cow	5 981	7 505	8 664	8 882
received at dairies	2 296	2 293	2 262	2 293
consumption of liquid milk products	1 012	995	819	810
Butter (M kg)				
production	45	50	51	53
consumption	27	14	18	18
exports	19	37	34	35
Cheese (M kg)				
production	96	97	84	86
consumption	78	98	142	142
exports	29	37	17	16
Milk powder, exports (M kg)	7	15	47	52

Source: Kantar TNS Agri Ltd, Natural Resources Institute Finland

BREAD GRAIN

Wheat	1995	2005	2019	2020
Total yield (M kg)	380	801	902	677
First grade product % ¹⁾	..	32	47	44
Imports (M kg)	132	146	219	214
Exports (M kg)	8	64	116	212
Consumption as food, M kg ²⁾	230	259	243	243
Annual consumption, kg/person	45	49	44	44
Rye				
Total yield (M kg)	58	32	183	67
First grade product % ³⁾	..	28	89	89
Imports (M kg)	61	82	8.7	4.5
Exports (M kg)	..	16	16	15
Consumption as food, M kg ²⁾	79	80	85	85
Annual consumption, kg/person	16	15	15	15
Oat				
Total yield (M kg)	1 097	1 073	1 170	1 195
First grade product % ³⁾	..	15	43	27
Imports (M kg)	2	0.2	13	1.2
Exports (M kg)	105	326	404	455
Consumption as food, M kg ²⁾	18	22	52	47
Annual consumption, kg/person	4	4	9	9

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.

EGGS

Million kilos	1995	2005	2019	2020
Production	75	58	76	76
Consumption	61	49	66	69
Exports	14	11	12	9

Source: Natural Resources Institute Finland / Balance sheet for food commodities

Production and consumption

MEAT

Million kg	1995	2005	2019	2020p
Pork				
total production	166	204	171	176
consumption	165	176	170	164
exports ¹⁾	9	40	35	41
imports ¹⁾	10	15	35	27
Beef and veal				
total production	95	87	88	87
consumption	96	98	104	103
exports ¹⁾	6	2	8	7
imports ¹⁾	8	14	23	22
Poultry meat				
production	43	87	139	145
consumption	45	84	146	152
exports ¹⁾	3	10	16	17
imports ¹⁾	0.3	7	23	21
Mutton				
production	2.0	0.6	1.5	1.4
consumption	2.0	1.9	3.6	3
exports ¹⁾	0.0	0.0	0	0
imports ¹⁾	1.0	1.4	2.1	1.6
Horse meat				
production	0.4	0.1	0.3	0.2
consumption	0.5	1.0	1.2	1.4
Reindeer meat				
production ²⁾	2.8	2.9	1.8	2.0
consumption	2.6	3.1	2.1	2.3
exports	..	0.04	0.3	0.2
imports	..	0.2	0.6	0.5
Meat total				
production	309	382	402	412
consumption	311	364	426	426
exports ¹⁾	18	52	60	65
imports ¹⁾	19	38	84	72
Edible offals export	..	7	16	18

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

¹⁾ Estimated meat in carcass, incl. bones and spoilage. Amount of meat eaten is approx. half of carcass weight.

²⁾ Statistics are compiled for the reindeer husbandry year, from 1st June to 31st May.

BERRIES AND MUSHROOMS

Total crops of garden berries, mill. kg	2005	2010	2019	2020
Strawberry	10.1	10.3	18.4	15.6
of which organic	..	0.2	0.4	0.4
Black- and greencurrant	1.8	1.0	1.5	1.1
Red- and whitecurrant	0.5	0.4	0.4	0.3
Raspberry	0.6	0.5	1.4	1.3
of which organic	..	0.01	0.02	0.03
Gooseberry	0.03	0.06	0.03	0.02
Total	13.1	12.5	22.1	18.3
Supply of wild berries, 1 000 kg				
Blueberry	3 111	2 780	4 239	4 736
of which organic	..	1 036	491	1 017
Lingonberry	8 544	6 057	5 913	7 715
of which organic	..	1 232	478	..
Cloudberry	321	152	64	94
of which organic	..	1	..	..
Other berries	51	108	25	52
Total	12 027	9 097	10 241	12 597
Supply of wild mushrooms, 1 000 kg¹⁾				
Chanterelle	16	5	17	39
Cep	181	747	103	461
Milk caps	152	98	18	66
Other wild mushrooms	77	5	31	44
Total	426	855	169	610

Source: Natural Resources Institute Finland / Horticultural Statistics, Finnish Food Authority, Kantar TNS Agri Ltd

¹⁾ Weighted fresh.

NOTE: The numbers do not include direct sales to the consumers and catering nor gathering for own use.

Production and consumption

GAME

Game catch by number and quantity

		2006	2010	2020
Number	Hares	268 800	248 200	169 200
	Moose	75 587	68 423	49 131
	Deer ¹⁾	25 777	29 113	91 606
	Wild boar	3	100	1210
	Waterfowl	586 000	533 800	307 800
	Grouse	459 200	306 200	218 000
	Other game birds	245 400	278 000	352 700
	Total ²⁾	1 664 867	1 470 315	1 195 498
Quantity (1,000kg)	Hares	525	501	346
	Moose	10 018	9 124	6 725
	Deer ¹⁾	1 086	1 227	3 673
	Wild boar	0	8	97
	Waterfowl	327	305	188
	Grouse	308	204	162
	Other game birds	84	97	113
	Total ²⁾	12 400	11 559	11 400

Source: The Natural Resources Institute Finland / Hunting

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

²⁾ Totals include bears and beavers.

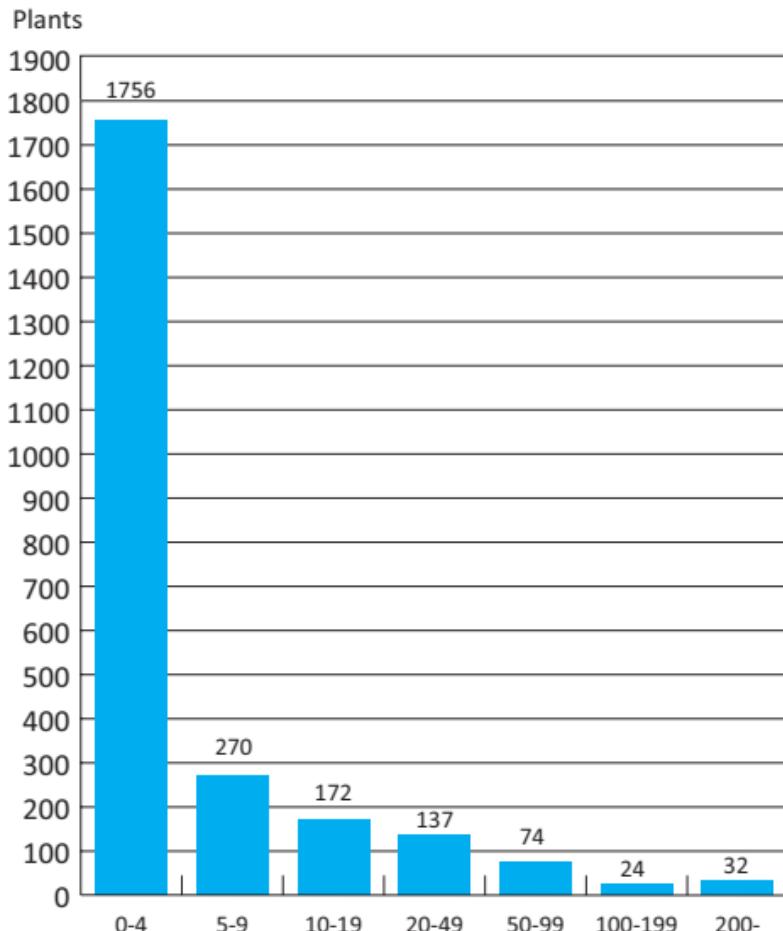
FOOD MANUFACTURERS BY SECTOR

Sector	2000		2017		2020 ¹⁾		2020 ¹⁾ organic %
	< 20 people	≥ 20 people	< 20 people	≥ 20 people	< 20 people	≥ 20 people	
Slaughter and meat processing	330	50	391	44	314	53	24
Fish processing	243	13	313	19	263	18	1
Processing of vegetables, berries and fruit	373	22	437	28	395	41	18
Dairy processing	108	42	87	24	84	23	5
Milling industry	145	8	114	9	102	9	10
Bakeries	991	110	770	65	871	78	12
Production of beverages	85	14	105	11	150	12	5
Processing of other foodstuffs	330	48	389	53	422	58	24
Total	2 605	307	2 606	253	2 601	292	100 %
All	2 912		2 859		2 893		388 pcs.

Source: aitojamakuja.fi Food Finland theme group

¹⁾ aitojamakuja.fi /statistics

FOOD AND DRINK INDUSTRY PLANTS ACCORDING TO ENTERPRISE SIZE



Source: Statistics Finland

Food and drink industry is SME-based.

FOOD INDUSTRY KEY SECTORS

Sector	Number of plants	Employees total ¹⁾		Turnover 1 000 €/employee	
		2018	2019	2018	2019
Slaughter and meat processing	229	221	8 175	8 148	2 515 374
Fish products	140	129	897	867	421 485
Fruit and vegetables	164	167	2 086	2 059	613 214
Processing and preserving of potatoes	42	40	384	388	134 964
Edible oils and fats	16	16	143	146	64 812
Dairy products and ice cream	84	87	4 734	4 498	2 099 750
Milling products and starch	65	65	805	854	401 899
Manufacture of bakery and farinaceous products	803	798	6 717	6 836	1 019 236
Manufacture of other food products	298	325	5 811	6 247	1 874 657
Sugar	4	5	245	252	238 848
Chocolate, cocoa and confection	51	59	1 517	1 510	377 391
Processing of tea and coffee	27	32	519	480	351 651
Convenience food	80	82	1 919	2 062	410 344
Food preparations and dietetic food	8	8	344	353	141 525
Soft drinks	203	214	2 875	2 936	1 336 009
Alcoholic beverages ²⁾	174	183	..	2 556	..
Food industry, total	2 089	2 110	33 208	33 552	11 102 358
					11 324 178
					334 ..
					338 ..

Source: Statistics Finland, regional and industrial statistics on manufacturing

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 INDUSTRIAL PRODUCTS	1995	Import MEUR			Export MEUR			Change 19/20 %
		2005	2019 ¹⁾	2020 ¹⁾	2005	2019 ¹⁾	2020 ¹⁾	
Drinks	..	2,2	469	463	-1	..	..	-21
Alcoholic beverages ²⁾	99	20	320	307	-4	40	73	-25
Beer	7	..	41	35	-15	20	11	-30
Soft drinks and mineral waters	4	7	94	110	18	7	5	18
Juices	9	13	81	80	-2	13	2	-3
Butter, fats and oils from milk	..	9	5	4	-17	..	5	-10
Canola oil	..	103	13	19	47	..	23	-3
Margarin	7	29	29	20	-33	31	33	-3
Fruit preserves	..	38	75	76	1	..	3	-3
Other vegetable preserves	..	18	79	86	8	..	5	-3
Sugar and honey	1	179	63	67	5	0	0	-16
Sugarchemical products	4	1,9	5	5	4	13	82	-18
Honey	..	123	7,8	8,2	5	..	0,00	0,04
Coffee (instant and roasted)	11	0,4	77	69	-11	22	8	32
Fish products	..	..	139	122	-12	..	..	9
Frozen fish products	..	..	7	31	30	-0,1	6	-7
Soups and tomato sauces	..	..	9	13	37	39	6	31
Babyfood	2	9	20	18	-7	7,4	5	32
Meat	57	103	334	280	-16	26	92	13
Pork	..	29	62	47	-25	..	69	34
Beef	..	..	38	71	66	-6	6	2
Poultry	..	..	18	28	23	-17	..	7
Dairy products	64	179	406	396	-3	162	303	4
Milk powder	..	1,9	4,2	4,5	7	..	29	122
Cheese	..	123	279	266	-5	..	120	56
Malt	1,7	0,4	..	1,1	-18	16	22	2

Frozen berries and vegetables	24	59	110	109	-1	9	18	23	27	18
Frozen potatoes	..	16	30	29	-4	..	0.2	0.39	0.43	9
Flour and milling industry products	1	3	124	118	-5	4	8	69	74	6
Rye flour	..	0.16	0.17	11	..	..	0.18	0.21	..	21
Animal feed products	84	147	344	337	-2	15	22	96	92	-4
Sweets	91	135	256	236	-8	95	86	110	100	-9
Chocolate	..	56	121	114	-5	..	47	68	59	-13
Starch	70	82	90	71	-20	8	16	16	14	-14
All industrial products total³⁾	860	1 782	3 371	3 398	1	609	962	1 451	1 440	-0.7
AGRICULTURAL PRODUCTS										
Tea	..	..	14	11	-18	..	..	0.4	0.1	-85
Raw coffee	124	116	190	170	-11	2.3	0	3	4	24
Fruits	147	220	366	393	7	13	1	6	7	12
Birds' eggs	0.1	0.0	4	6	42	7	6	12	10	-15
Fresh fish	14	66	310	294	-5	2	0	136	146	7
Berries	3	6	36	40	13	1	0	0.2	1.0	511
Blueberry	..	2	9	10	22	..	..	0.0	0.2	1366
Spices	4	7	19	20	4	1	2	10	9	-9
Nuts	7	10	30	32	7	0	0.0	0.4	0.6	31
Raw sugar ²⁾	18	27	15	15	-4	0	1	1.1	0.9	-19
Vegetables and potato	62	114	228	233	2	7	4	4	3	-23
Grain	37	29	41	35	-15	36	42	120	140	17
Oat	..	0.0	3.7	0.2	-94	..	36	83	80	-3
All agricultural products total³⁾	1 336	2 448	1 341	1 335	-0.5	683	1 023	303	327	8

Source: National Board of Customs, Finnish Food and Drink Industries' Federation

¹⁾ Compilation of statistics changed in 2015. The figures are not comparable with the previous figures.

²⁾ Includes spirits and vinegar and vinegar substitutes made from acetic acid, in addition to weak and strong alcoholic beverages.

³⁾ The sum total of processed and agricultural products is the total value of exports and imports.

FOOD EXPORTS BY COUNTRY

Percentage of the total value of exports

	1995	%	2005	%	2019 ¹⁾	%	2020 ¹⁾	%
Russia	29.5	Russia	19.7	Sweden	19.1	Sweden	18.3	
Sweden	14.2	Sweden	15.4	Estonia	7.7	China	8.2	
Estonia	6.9	Estonia	9.2	Germany	6.6	Estonia	7.3	
Germany	5.1	U.S.	5.9	Russia	5.3	Germany	6.6	
Belgium	4.4	Germany	5.3	China	5.1	Russia	5.1	
Norway	3.7	UK	4.4	France	4.9	France	4.6	
U.S.	3.6	Poland	3.2	Denmark	4.7	The Netherlands	4.6	
UK	3.4	Norway	2.9	The Netherlands	4.4	Denmark	4.4	
Denmark	3.2	Denmark	2.8	Poland	3.6	Poland	3.4	
The Netherlands	2.8	France	2.8	Norway	3.3	Norway	2.9	
Others	23.2	Others	28.4	Others	35.3	Others	34.7	
Total	100	Total	100	Total	100	Total	100	

Source: National Board of Customs, Finnish Food and Drink Industries' Federation

¹⁾ Compilation of statistics changed from 2014. The figures are not comparable with the previous figures.

FOOD EXPORTS BY COUNTRY AND PRODUCT GROUP, EXPORTS 2020

	China	EU	Other countries	€ thousand
Milk products	79 865	Fish, fresh	Pork	34 395
Meat	58 918	Butter and other fats and oils derived from milk	Fish, fresh	31 394
Baby food	1 507	Alcoholic beverages	Milk powder	28 790
Conserves and juice	1 234	Oat	Alcoholic beverages	24 705
Frozen berry, potato and vegetables	923	Chocolate	Cheese	23 870
Flour and mill products	617	Other milk products	Butter and other fats and oils derived from milk	22 765
Sweets	452	Milk powder	Raw materials for animal feeds	
Alcoholic and non-alcoholic beverages	392	Cheese	Other milk products	18 854
Other grain mill products	147	Yoghurt	Wheat	
Fats	47	Beef	Oat	
Food preserves	21	Other sweets	Animal feed compounds	
Other	51	Other	Other	
Total	144 174	Total	Total	320 295

Source: National Board of Customs, Finnish Food and Drinks Industries' Federation

Food economy

THE SHARE OF FOOD INDUSTRY'S R&D COSTS (% of production)



Source: Statistics Finland, FoodDrinkEurope

CONSUMPTION EXPENDITURE

Private consumption expenditure at current prices, MEUR	1995	2005	2018p	2019p
Food and non-alcoholic beverages	7 411	9 381	13 627	13 667
Share of food and non-alcoholic beverages in consumption expenditure, %	15	12	12	11
Alcoholic beverages and tobacco	2 976	4 052	5 528	5 722
Clothing and footwear	2 218	3 771	4 412	4 495
Housing and energy	11 889	19 253	33 738	34 629
Household equipment	2 132	4 147	5 425	5 608
Health	1 631	3 367	5 718	5 951
Transport	5 924	10 438	14 010	13 970
Communications	780	2 185	2 760	2 826
Culture and leisure	5 087	9 094	12 021	12 194
Education	228	333	472	492
Hotels, cafés and restaurants	3 383	5 259	7 889	8 230
Other goods and services	4 709	7 074	11 882	12 085

Source: Statistics Finland / National Accounts

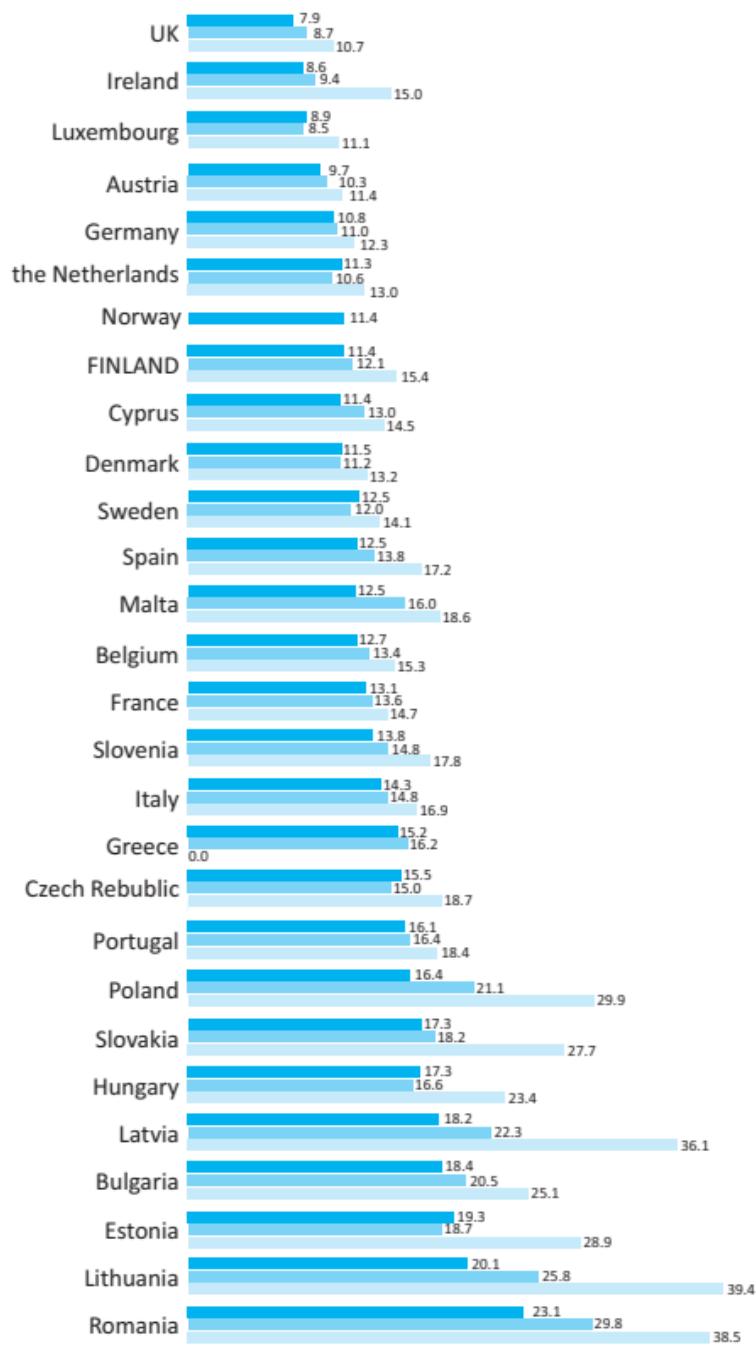
FOOD EXPENDITURE

Food expenditure of households, per capita	1995 €/y	%	2005 €/y	%	2017 €/y	%	2019p €/y	%
Bread and cereal products	229	17	280	17	342	15	349	15
Meat and meat products	263	19	311	19	385	17	386	17
Fish and fish products	47	3	69	4	110	5	118	5
Milk, cheese and eggs	246	18	307	18	403	18	401	17
Fats and oils	39	3	41	2	52	2	54	2
Fruit and berries	96	7	124	7	194	9	198	9
Vegetables	119	9	155	9	209	9	219	9
Potatoes and potato products	25	2	27	2	28	1	29	1
Sugar	13	1	10	1	7	0	7	0
Coffee, tea and cocoa	69	5	45	3	76	3	75	3
Other goods	217	16	302	18	468	21	487	21
Total	1 363	100	1 669	100	2 275	100	2 323	100

Source: Calculated from Statistics Finland / National Accounts

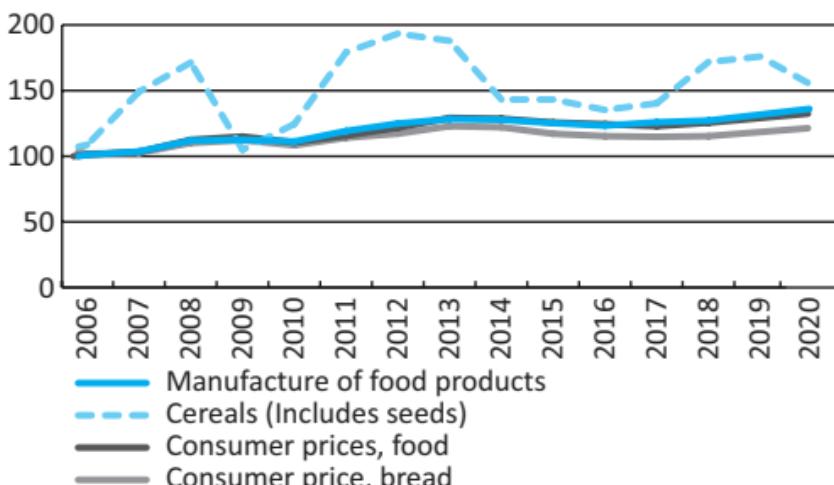
Food economy

HOUSEHOLDS CONSUMPTION OF FOOD AND NON-ALCOHOLIC BEVERAGES % from households total consumption



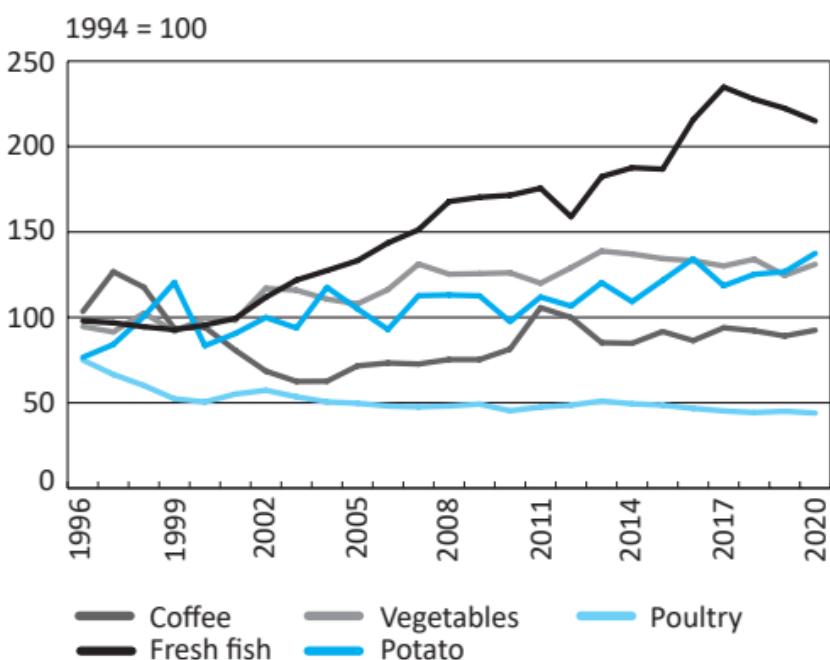
Source: Eurostat

REAL PRICE DEVELOPMENT OF FOOD IN FINLAND 2006–2020



Source: Statistics Finland

REAL PRICE DEVELOPMENT OF SELECTED FOOD ITEMS



Source: Statistics Finland, Consumer price index

PRICE INDEXES 2019 (EU15=100)

	Household consumpti- on expen- iture	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, vegetab- les and potatoes	Other foods- tuffs	Non- alcoholic beverages
The Netherlands	108	98	98	87	116	102	103	98	96	87	100
Belgium	106	107	107	107	114	106	109	115	99	101	112
Spain	87	90	90	101	81	86	93	79	93	97	89
Ireland	124	111	109	110	93	103	116	105	115	128	130
UK	111	90	88	82	85	79	90	96	92	95	109
Italy	93	104	106	110	108	103	112	97	100	108	90
Austria	107	118	119	128	133	138	105	126	114	108	110
Greece	75	98	97	105	83	103	131	112	78	127	115
Luxembourg	132	119	120	120	129	116	128	122	110	114	113
Portugal	77	93	91	92	76	93	104	106	84	122	118
France	99	110	11	105	120	114	99	115	120	104	100
Sweden	118	109	110	115	106	109	107	120	116	109	105
Germany	97	97	97	96	98	126	93	99	98	92	97
Finland	114	113	112	120	114	108	114	99	116	108	121
Denmark	127	123	123	144	110	125	116	116	108	157	128
EU	90	96	95	96	92	100	98	100	95	95	97

Source: Kantar TNS Agri Ltd / Eurostat

RETAIL TRADE AND PROFESSIONALS KITCHEN

NUMBER OF SHOPS BY SHOP TYPE

Shop type	Total 1.1.2020	Total 1.1.2021
Hypermarkets	154	157
Department stores	87	86
Supermarkets, large	699	703
Supermarkets, small	483	501
Self-service shops, large	836	806
Self-service shops, small	293	284
Small shops	237	226
Speciality shops / market halls	774	764
Discount stores, part of the convenience goods offering	353	361
Service station stores, part of the convenience goods offering	591	573
Total	4 507	4 461
Grocery buss / boat	11	11
Closed down	202	198

Source: Nielsen Convenience store register

SALES OF CONSUMER GOODS BY SHOP TYPE

MEUR	2019	2020
Hypermarkets ¹⁾	5 303	5 928
Department stores	352	396
Supermarkets, large	7 169	7 715
Supermarkets, small	2 183	2 437
Self-service shops, large	2 126	2 204
Self-service shops, small	368	384
Small shops	172	169
Speciality shops / market halls	249	267
Discount stores, part of the convenience goods offering	417	474
Service station stores, part of the convenience goods offering	180	155
Total	18 520	20 130
Grocery buss / boat	3	3
Closed down	125	98
Total	18 647	20 231
e-commerce	110	395

Source: Nielsen Convenience store register

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

Retail Trade and professional kitchens

NUMBER OF KITCHENS AND UNITS SERVED BY INDUSTRY 2020

	Number, pieces ¹⁾	Servings, million
Licenced restaurants ²⁾	2 707	115
Cafés	1 030	34
Other restaurants	1 350	56
Primary, secondary and upper secondary schools	955	124
Hamburger and kebab restaurants, pizzerias	1 037	58
Care homes and children's homes, other care facilities	675	61
Staff restaurants	616	36
Nursery schools	583	24
Hotels and other accommodation providers	627	27
Cafés and restaurants operating in connection with other operations	422	19
Service stations	465	29
Vocational schools, colleges and universities	308	33
Catering and meal services	376	15
Hospitals	155	52
Other mass caterers	115	64
Total	11 421	747

Source: Taloustutkimus Oy, Horeca register 2020

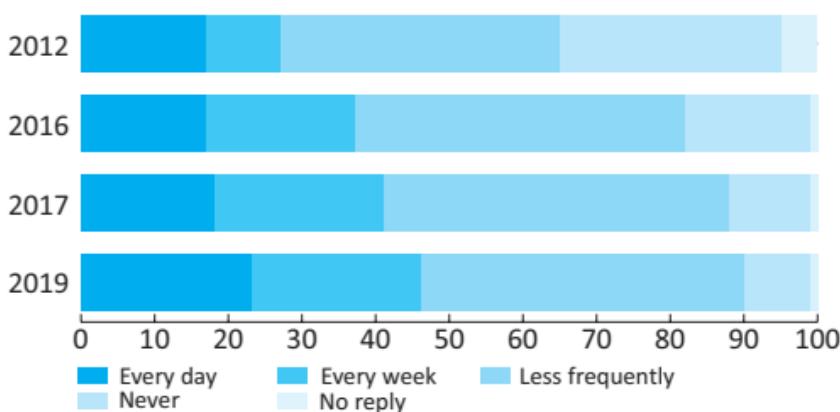
¹⁾ Does not include cafeterias.

²⁾ All licensed cafés and restaurants.

In 2019, the share of organic products in public catering services was approx. 12 % (in kg).

Source: The Joint Authority of Education in Savo,
The Finnish Organic Food Association Pro Luomu

FREQUENCY OF USE OF ORGANIC PRODUCE BY CATERING PROVIDERS, %



Source: The Finnish Organic Food Association Pro Luomu, Taloustutkimus Oy

AVERAGE NUMBER OF ANIMALS IN FARMS

Animals pcs/farms	2014	2018	2019	2020
Pigs	838	1 060	1 114	1 184
Cattle	71	84	87	91
Poultry	9 682	11 376	12 252	11 305

Source: Natural Resources Institute Finland

LIVESTOCK DENSITY INDEX

	2005	2016
Livestock density index ¹⁾	0.51	0.48

Source: EuroStat

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

LIVESTOCK

In thousands	1995	2005	2019	2020
Horses	50	64	74	74
Cattle	1 148	959	858	846
dairy cows	399	319	262	260
suckler cows	29	35	60	62
Sheep ¹⁾	159	87	145	140
ewes	69	52	72	70
lambs and rams	90	35	72	71
Pigs ²⁾	1 400	1 401	1 072	1 087
sows	161	177	82	82
fattening pigs	451	460	495	496
piglets	476	451	475	491
Poultry ³⁾	10 358	10 538	14 360	13 577
hens	4 179	3 128	3 900	3 812
broilers	4 276	5 472	9 112	8 507
turkeys	80	495	263	268
Goats	6	7	6	6
Reindeer ⁴⁾	208	207	185	195

Source: Natural Resources Institute Finland, Statistics Finland, 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 with previous year.
- ³⁾ From 2016 onwards, the number of poultry is not directly comparable to the previous years.
- ⁴⁾ Living reindeer over 1 year old + calves.

Animals

HENNERIES

Hennery type	% of egg production		
	2010	2019	2020
Enriched cage	89	58	51
Floor	9	32	39
Outdoor ¹⁾	..	2	2
Organic	2	8	8

Source: Finnish Poultry Association

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

BARN TYPES 2020

	Number of barns	%	Cows	%	Average number of cows/ farm
Tie stall barn	2 216	55	66 923	32	30
Free stall barn	1 822	45	143 144	68	79
Total	4 038 ¹⁾	100	210 067	100	52

Source: ProAgria

¹⁾ All cows are not included.

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

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

Cattle	2010 no.	%	2020	
			no.	%
Graze in the summer, time outdoors in the winter	455	7.9	390	10
Graze in the summer, indoors in the winter	3 895	67.8	2 329	59
Fenced walking area in the sum- mer, time outdoors in the winter	103	1.8	96	2
Fenced walking area in the sum- mer, indoors in the winter	347	6	223	6
Indoors in the summer and in the winter	946	16.5	903	23
Total	5 746	100	3 941	100

Source: ProAgria

MILKING MACHINES 2020

Milking machine type	Farms	%
Pipeline milking	2 243	54
Robotic milking	1 114	27
Milking station	761	18
Bucket milking machine	25	1
Total	4 143	100

Source: ProAgria

AVERAGE YIELD PER COW AND MILK CONTENTS 2020

Breed	Cows number	Average output kg/cow	Milk contents %				Cells ²⁾
			Pro- tein	Fat	ECM ¹⁾	Cells ²⁾	
Ayrshire	77 574	9 550	3.64	4.48	10 308	177	
Holstein	93 756	10 760	3.53	4.21	11 228	181	
Finn cattle	1 477	6 465	3.47	4.39	6 864	198	
Eastern							
Finn cattle	175	4 256	3.43	4.36	4 553	179	
Western							
Finn cattle	986	7 204	3.48	4.41	7 661	199	
Northern							
Finn cattle	316	5 381	3.45	4.32	5 654	203	
Jersey	1 018	8 253	3.91	5.22	9 868	198	
Other	631	9 785	3.59	4.3	10 364	165	
All	174 457	10 168	3.58	4.33	10 771	180	

Source: ProAgria

¹⁾ Energy-corrected milk output (milk's butterfat, protein and lactose content is taken into account).²⁾ Somatic cell count, geometric mean 1 000 pcs/ml.

Animals

PROTECTION OF ANIMALS INSPECTIONS BASED ON SAMPLE

Item	Inspections			Cases of neglect		
	2011	2019	2020	2011	2019	2020
Pigs	52	32	20	13	13	5
Cattle	362	171	200	97	58	60
Poultry	26	0	0	5	0	0
Broiler chickens	..	7	6	..	0	2
Goats	12	5	1	0	0	0
Ducks and geese ¹⁾	8	..	..	0	..	..
Sheep	32	99	49	8	20	8

Source: Finnish Food Authority

¹⁾ No inspections since 2015.

PREVENTION OF CRUELTY TO ANIMALS INSPECTIONS IN COMMERCIAL ANIMAL DELIVERIES

	2005	2011	2019	2020
Inspections (no.)	451	387	424	432
Cases of neglect (%)	24	16	12	8

Source: Finnish Food Authority

FARMS RECEIVING ANIMAL WELL-BEING SUBSIDIES ¹⁾

Number of farms	2018	% of farms	2019	% of farms	2020	% of farms
Beef farms	4 787	53	4 619	54	4 510	56
Pork farms	746	73	708	73	703	76
Sheep/goat farms	311	47	314	50	317	51
Poultry farms	358	75	345	75	343	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

	Health care agreement with a vet	Coverage %	At special level ¹⁾	At national level ²⁾	At basic level ³⁾	Passive ⁴⁾	Health care visits
	2019	2020	2019	2020	2019	2020	2019
Pig farms (places of keeping pigs)	1 080	1 036	98	87	37	35	919
Cow farms	7 357	7 763	75	83	..	..	872

Source: ETT (the Association for Prevention of Animal Diseases), 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 www.sikava.fi.

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

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

⁴⁾ Empty pens.

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

RESPONSIBLE PRODUCTION LIMIT VALUES IN PORK PRODUCTION

Year	Farms num	Farms ¹⁾		RPI exceeded ²⁾ . fattening pigs			RPI exceeded ²⁾ . sows	
		RPI sub-ceeded	RPI ex-ceeded	whole carcass	part- carcase	mortality	whole carcass	mor-tality
2019	1 051	91.5	8.5	2.2	2.4	2.8	1.6	1.0
2020	963	91.7	8.3	3.5	2.9	2.6	5.2	3.7

Source: Animal Health ETT, Sikava (Health classification register for pig farms)

RPI (responsible production indicator) is part of the national pork production criteria (sikava.fi/terveysluokitus). The values are inspected every six months. The limit for whole carcass condemnation: sows 7 % and fattening pigs 1.1 %. The limit for part-carcass condemnation: fattening pigs 12 %. The limit for mortality: sows 16 % and fattening pigs 4 %.

¹⁾ percentage of farms in proportion to all farms. The number of missing values is not specified.

²⁾ percentage of the farms with information about RPI. Calculation method has changed in 2020.

USE OF ANTIMICROBIAL AGENTS IN FOOD-PRODUCING ANIMALS

mg/PCU ¹⁾	EU/EEA, average			Finland		
	2010 ²⁾	2015 ³⁾	2018 ³⁾	2010	2015	2018
	131	136	103.2	25	20	18.7

Source: The European Medicines Agency EMA, ESVAC

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 were 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

THE FOODPAD DERMITITIS SCORE THAT REPRESENTS THE WELL-BEING OF BROILER CHICKENS

	2012	2018	2020
Share of flocks, %, with a score of less than 40	94.5	98.50	99.7
Share of flocks, %, with a score of 40–80	4.91	1.28	0.28
Share of flocks, %, with a score of more than 80	0.62	0.18	0.03

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.

BEEKEEPING FIGURES

	2019	2020
The Finnish Beekeepers' Association members	2 595	2 500
Professional beekeepers ¹⁾	88	90
Organic beekeepers	63	75
Number of productive beehives	83 900	82 200
Number of organic beehives	5 083	6 190
Yield per beehive, kg	52	32
Honey production, tonnes	3 330	2 206
Imported honey, tonnes	1 800 ^{*)}	1 900 ^{*)}
Honey consumption, tonnes	4 200 ^{*)}	4 400 ^{*)}
Honey consumption, g/person	800 ^{*)}	600 ^{*)}
Winter beehive losses ²⁾ , %	10	20

Source: Suomen Mehiläishoitajain Liitto SML ry (The Finnish Beekeepers' Association)

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

²⁾ Percentage of bees that died during the winter.

^{*)} Source: Natural Resources Institute Finland / Balance sheet for food commodities

Plants

CROP

	1995	2005	2019	2020
Wheat				
area (in 1 000 ha)	101	215	198	199
total yield (M kg)	380	801	902	677
yield kg/ha	3 770	3 730	4 560	3 410
Rye				
area (in 1 000 ha)	21	14	38	19
total yield (M kg)	58	32	183	67
yield kg/ha	2 770	2 290	4 820	3 600
Barley				
area (in 1 000 ha)	516	594	398	392
total yield (M kg)	1 764	2 103	1 170	1 382
yield kg/ha	3 420	3 540	4 230	3 520
Oats				
area (in 1 000 ha)	329	345	298	325
total yield (M kg)	1 097	1 073	1 170	1 195
yield kg/ha	3 330	3 110	3 930	3 680
Sugar-beets				
area (in 1 000 ha)	35	31	11	11
total yield (M kg)	1 110	1 181	501	422
yield kg/ha	31 900	37 870	47 640	38 460
Oil plants				
area (in 1 000 ha)	85	77	32	25
total yield (M kg)	128	106	42	31
yield kg/ha	1 500	1 380	1 330	1 270
Peas				
area (in 1 000 ha)	5	4	12	21
total yield (M kg)	11	8	34	54
yield kg/ha	2 420	93	2 860	2 590
Broad bean				
area (in 1 000 ha)	..	16 ¹⁾	15	14
total yield (M kg)	..	40 ¹⁾	30	23
yield kg/ha	..	2 500 ¹⁾	1 980	1 720
Potatoes				
area (in 1 000 ha)	36	29	21	21
total yield (M kg)	798	743	619	624
yield kg/ha	22 110	25 700	28 930	30 230
Tomatoes M kg	31	38	40	41
Cucumber (greenhouse) M kg	24	32	48	54
Carrots M kg	61	67	77	81
Onions M kg	17	21	31	30
Potted vegetables (M pcs)	30	64	102	104

Source: Natural Resources Institute Finland / Crop production statistics

¹⁾ Data from 2016.

USE OF ARABLE LAND

	1995 1 000 ha	2005 1 000 ha	2019 ¹⁾ 1 000 ha	2020 ¹⁾ 1 000 ha	2021 1 000 ha
Grassland	755	620	786	781	797
Cereals, total	978	1 188	1 066	1 084	1 063
wheat	101	215	206	210	218
rye	21	14	38	20	18
barley	516	595	455	457	448
oats	329	346	319	348	332
mixed grain	11	16	41	43	41
other cereals	0.5	1.1	3.5	4.8	4.7
Oil plants	85	77	37	30	38
Sugar-beets	35	31	11	11	11
Pea	..	4	14	25	23
Broad bean	..	..	18	18	13
Potatoes	36	29	22	21	21
Other crops	29	49	101	171	172
Area in production	1 918	1 993	2 023	2 036	2 032
Fallow	223	241	222	207	213
Cultivated area	2 141	2 235	2 245	2 243	2 245

Source: Natural Resources Institute Finland

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

	1995 ha	2005 ha	2019 ha	2020 ha	2021 ha
Mean arable land	22	33	49	50	..

Source: Natural Resources Institute Finland

Finlands water stress -index ¹⁾ in low < 10 %.¹⁾ Baseline water stress measures the ratio of total water withdrawals to available renewable surface and groundwater supplies.

Source: World Resources Institute

VOLUME OF PESTICIDES SALES

	1995	2005	2018	2019
Active ingredient sales (tonnes)				
fungicides	114	255	171	127
agricultural insecticides	57	47	22	40
agricultural herbicides	791	1 077	982	1 107
growth regulations	73	52	68	56
Product sales (tonnes)				
fungicides	236	718	665	946
agricultural insecticides	160	147	169	182
agricultural herbicides	1 768	2 639	2 697	3 514
growth regulations	131	107	156	159

Source: Finnish Safety and Chemicals Agency, Eurostat

PESTICIDE RESIDUE CONTROL 2019¹⁾

Source of sample	Random samples	Non-compliant %
Domestic	689	0.0
EU	983	1.42
Outside of EU	357	5.32
Total	2 029	1.7

Source: Finnish Food Authority

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

ORGANIC PRODUCTION AREA AND NUMBER OF ORGANIC FARMS

<u>Area, ha</u>	1995	2005	2019	2020
Certified organic area, ha	23 139	135 223	257 650	281 144
In-conversion area, ha	21 557	12 364	49 106	33 968
Total organically farmed area, ha	44 696	147 588	306 756	315 112
Percentage of organically farmed area of the total area of production %	..	6,7	13,5	13,9
Organic farm size, ha/farm	20	34	61	62,9
Organic farms, number	2 793	4 296	5 129	5 102
Percentage of organically farmed area of the total area of production % EU 27	..	3,6	8,5 ¹⁾	..
Total organically farmed area, EU 27	..	6 475 828	13 793 665 ¹⁾	..

Source: Finnish Food Authority, Eurostat

¹⁾ The 2019 figure is for the EU 28.

NUMBER OF ORGANIC PRODUCERS

	2008	2011	2019	2020
Organic primary production ¹⁾ of which organic animal farms	3 758	3 975	4 990	4 962
511	643	1 036	1 126	
Organic foodstuff producers	401	487	784 ²⁾	789 ²⁾
Organic feedstuff producers	16	33	39	39
Organic seed packing plants	..	31	31	31
Total	4 175	4 526	6 012	5 911
Organic primary production EU 28	..	..	297 442 ³⁾	..

Source: Finnish Food Authority, Eurostat

¹⁾ Includes, in addition to farms, also greenhouse, mushroom farms and beekeepers.

²⁾ This figure includes subcontractors.

³⁾ In 2018.

USE OF ARABLE LAND ON ORGANIC FARMS

Certified organic area, ha	1995 ¹⁾	2005	2019	2020
Grass	11 431	60 195	162 316	169 299
Cereals	8 158	46 362	67 053	80 164
Wheat	724	6 629	6 950	8 447
Rye	1 616	4 594	4 731	4 696
Barley	2 118	6 760	7 548	10 986
Oats	2 447	23 134	33 408	40 758
Mixed : straw grains	302	2 798	3 456 ²⁾	4 226 ¹⁾
Mixed: legumes+straw grains	927	1 842	10 040	11 028
Peas	120	1 289	2 949	4 876
Buckwheat	23	185	512	343
Broad bean	..	..	3 286 ²⁾	3 839 ²⁾
Caraway	9	355	322 ²⁾	287 ¹⁾
Flax	22	277	43 ²⁾	55
Turnip rape	64	2 419	2 246	2 566
Potatoes	423	440	757	866
Vegetables, open land	197	211	1 140	1 234
Greenhouse vegetables	2	9	8	8
Leafherbs	17	16	55 ²⁾	12 ¹⁾
Berries and fruits	256	800	811	845
Fallow	2 022	19 178	4 323	4 935
Total	23 139	135 223	257 650	280 688

Source: Finnish Food Authority

¹⁾ Åland's data not included.²⁾ No production in Åland.

Figures for the traditional use of arable land are on page 35.

ORGANIC PRODUCTION

	2007 million kg	% of total production	2019 million kg	% of total production	2020 million kg	% of total production
Beef	..	..	2.7	3.0	3.4	3.9
Pork	..	..	0.8	0.4	0.7	0.4
Lamb	..	..	0.3	22.8	0.3	23.6
Poultry	..	..	..	..	..	..
Eggs	1.1	2	5.2	6.9	5.2	6.8
Wheat	9.7	1.2	18.1	2.0	17.9	2.6
Rye	8.5	9.8	9.9	5.4	9.5	14.1
Oat	41.0	3.4	76.3	6.5	83.4	7.0
Potato	3.7	0.5	12.5	2.0	15.6	2.5
Peas	1.2	11.5	3	14.7	7.7	14.2
Broad bean	..	..	5.2	17.3	4.5	19.3
Milk, mil- lion litres	26.8	1.2	74	3.2	79	3.4

Source: The Finnish Organic Food Association Pro Luomu,
Natural Resources Institute Finland / Organic production statistics

NUMBER OF AGRICULTURAL AND HORTICULTURAL ENTERPRISES

Farm size Hectares of arable land	1995 pcs	2005 pcs	2019 ¹⁾ pcs	2020 ¹⁾ pcs	% of farms
0–5	9 988	5 228	1 392	1 383	3
5–10	17 049	8 765	6 274	6 196	14
10–15	16 918	8 481	4 888	4 742	10
15–25	25 634	13 989	7 791	7 445	16
25–50	23 870	19 660	11 258	10 723	23
50–75	4 508	7 549	5 972	5 800	13
75–100	1 209	3 116	3 525	3 435	8
100–150	622	1 990	3 347	3 371	7
150–	166	739	2 380	2 535	6
Total	99 964	69 517	46 827	45 630	100

Source: Natural Resources Institute Finland

In 1995 farms with over 1 ha arable land.

¹⁾ The definition of an agricultural and horticultural enterprise was revised.
The figures cannot be compared with figures from previous years.

OWNERSHIP OF AGRICULTURAL AND HORTICULTURAL ENTERPRISES

Category	1995 ¹⁾ pcs	2005 pcs	2019 ²⁾ pcs	2020 ²⁾ pcs	% of farms
Private individuals	86 933	61 477	40 212	39 068	86
Heirs	12 468	7 297	5 190	5 074	11
State, communes etc.	563	743	1 425	1 488	3
Total	99 964	69 517	46 827	45 630	100
Change from previous year %	..	..	-1.7	-2.6	

Source: Natural Resources Institute Finland

¹⁾ Only farms with over 1 ha of arable land.

²⁾ After the definition reform in 2013, agricultural and horticultural enterprises include estates whose economic size is more than EUR 2 000.

AGRICULTURAL LABOUR FORCE

Labour force in thousands	1995	2005	2019	2020
Farmers ¹⁾	116	73	56	50
of which women	37	22	15	13
Permanent employees	25	20	14	16
of which women	12	9	7	8
Total	141	93	70	66

Source: Statistics Finland, Year 2020 Labour Force classification, Standard industrial classification TOL 2008

¹⁾ Farmers and farmer family members total.

SPECIALIZATION IN AGRICULTURAL AND HORTICULTURAL ENTERPRISES

Number of farms	1995	2010	2019	2020	%
Dairy farms	32 480	10 205	5 727	5 361	11.7
Other cattle husbandry	9 394	1 270 ²⁾	450	382	0.8
Beef farms	..	3 080	2 809	2 725	6.0
Pig farms	6 249	1 355	526	504	1.1
Poultry farms	2 239	375	419	410	0.9
Other grazing livestock ³⁾	..	3 544	2 107	2 005	4.4
Plant production	42 287	..	..	..	..
of which grain growing	..	20 927	14 926	14 657	32.1
Other plant production	..	13 092	15 788	15 564	34.1
Others	7 315	..	..	..	..
Greenhouse production	..	1 371	714	701	1.5
Outdoor horticultural production	..	1 696	1 346	1 271	2.8
Mixed production	..	2 568	2 015	2 050	4.5
Total	99 964	58 213	46 827	45 630	100

Source: Natural Resources Institute Finland

¹⁾ The figures cannot be compared with figures from 1995.

²⁾ Includes combined suckler cow production and cattle fattening.

³⁾ Includes sheep, goat and horse production.

INCOME OF AGRICULTURAL AND HORTICULTURAL ENTERPRISES PER PRODUCTION SECTOR

	Taxable income total spouses together			Farm economy's income spouses together			
	2000		2018	2019	2000		2019
	€	€	€	€	€	€	€
Dairy farms	31 746	63 478	63 909	24 812	48 978	48 976	
Other cattle farms	30 129	67 886	72 606	15 878	36 599	37 250	
Poultry farms	45 752	127 393	107 362	28 624	63 599	63 200	
Pig farms	41 644	79 931	82 569	28 421	50 094	53 758	
Sheep, goats, horses	29 434	58 353	57 704	3 704	12 864	13 222	
Crop farms (grain)	38 623	70 458	71 831	10 999	19 122	19 716	
Other crop farms	35 760	63 243	71 266	11 695	18 936	18 917	
Other farms	28 901	58 705	60 736	6 524	15 360	14 761	
Average	35 235	67 755	70 671	16 324	25 578	25 701	

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

AGRICULTURAL PRODUCTION COSTS

	2002 MEUR	2005 MEUR	2018 MEUR	2019 MEUR
Material costs	1 572	1 569	2 054	2 320
Fertilizer, lime	194	186	222	250
Other crop production costs	256	309	435	484
Fuel and lubricants	176	209	298	338
Electricity	117	115	248	316
Forage costs	516	438	484	560
Livestock costs	313	322	367	372
Farm operating costs ¹⁾	368	312	412	427
Machinery cost	844	875	1 027	1 047
Depreciation of machines	502	543	498	527
Other machinery costs	342	332	529	520
Building costs	316	317	346	372
Depreciation of buildings	256	258	284	304
Other building costs	60	58	63	68
Other cost	693	731	952	960
Insurance cost paid	241	255	312	312
Fixed rents paid	102	101	163	147
Other depreciations	45	46	44	47
Other costs	305	328	432	453
Wages costs	1 835	1 775	1 391	1 409
Wages paid	166	185	305	386
Wages claim	1 669	1 590	1 085	1 022
Interest costs	597	621	562	609
Interest paid	127	112	119	110
Interest claim of equity	470	509	443	499
Total costs	6 226	6 199	6 744	7 143

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

Data: Natural Resources Institute Finland / Profitability bookkeeping results

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

AGRICULTURAL GROSS RETURN

Income from	2002 MEUR	2005 MEUR	2018 MEUR	2019 MEUR
Crop revenues total	814	671	1 057	1 033
Rye and wheat	86	72	119	143
Barley	158	158	286	212
Oats and other cereals	148	82	190	178
Oilseeds	20	20	28	22
Grass crops	239	213	318	378
Potato and sugar beet	140	110	79	62
Pulses and other crops	23	15	37	37
Livestock revenues total	1 808	1 652	1 729	1 828
Cattle revenue	1 243	1 097	1 270	1 206
Pig production	348	348	242	259
Poultry revenues	212	175	191	324
Sheep, goat and horse revenues	5	5	26	40
Glasshouse and outdoor horticultural revenues total	464	523	910	1 233
Financial yields	17	13	16	9
Other income	155	170	243	247
The sum of subsidies	1 846	1 922	1 832	1 829
CAP subsidies	434	499	561	..
LFA- and environmental subsidies	714	738	837	..
National and investment subsidies	697	684	400	..
Gross return total	5 104	4 924	5 787	6 178

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

Data: Natural Resources Institute Finland / Profitability bookkeeping results

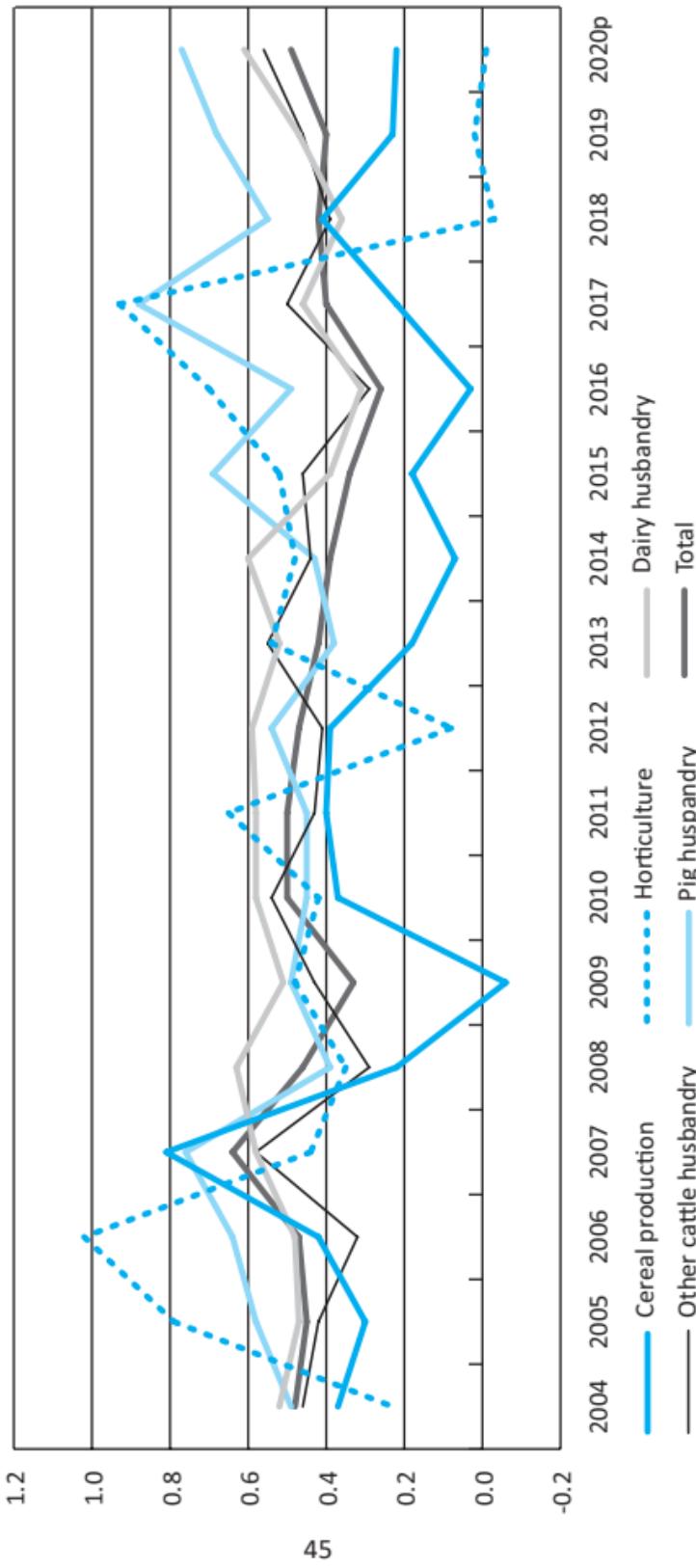
The value of feedstuff and seeds produced and used on the farm is included in the calculation.

ENVIRONMENTAL AID

Farms committed to environmental aid	2012	2021
Number	56 143	39 233
% of farms	91	83
% of areable area	90	88

Source: Finnish Food Authority

PROFITABILITY COEFFICIENT ON THE FINNISH FARMS 2004–2020p



Source: Natural Resources Institute Finland/Economydoctor. Agriculture and Horticulture

ENTREPRENEURIAL INCOME

	2000 MEUR	2010 MEUR	2015 MEUR	2019 MEUR	2020p MEUR
Farm Net Income	1 114	932	465	536	593

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

Data: Natural Resources Institute Finland / Profitability bookkeeping results

PRODUCER PRICES

Annual average		1995	2005	2019	2020	Change 19/20 %
Milk	c/ltr					
producer price ¹⁾		31.3	31.5	32.95	32.90	-0.2
surplus payment		1.5	2.2	0.9	..	..
Meat	€/kg					
beef		2.4	2.1	3.16	3.16	-0.1
pork		1.3	1.3	1.58	1.62	2.3
chicken		1.1	1.1	1.36	1.31	-3.7
lamb		1.9	2.6	3.77	3.83	1.5
Eggs	€/kg	0.5	0.6	1.04	1.05	0.7
Grain and vegetables						
wheat ²⁾	€/tn	147	106	178	166	-7
rye ²⁾	€/tn	150	118	168	157	-7
barley ²⁾	€/tn	122	100	156	140	-11
oats ²⁾	€/tn	118	87	171	153	-11
malt ²⁾	€/tn	142	115	193	161	-20
food potatoes ³⁾	€/100 kg	..	..	20	19	-2
oil plants ²⁾	€/tn	..	200	366	391	6
cucumber ⁴⁾	€/kg	..	0.99	1.26	1.24	-1.6
tomato ⁴⁾	€/kg	..	1.16	1.84	1.64	-12.2
apple ⁴⁾	€/kg	..	0.87	1.59	1.66	4.2

Source: Natural Resources Institute Finland, Kasvistieto Oy

¹⁾ 1st class milk 4.3/3.3 %, without production aid.

²⁾ The basic price paid to farmers, including transportation to the first reception point.

³⁾ The price paid to farmers per 100 kg net, delivered to the packing facilities. Does not include early potatoes.

⁴⁾ Prices include class 1 Finnish vegetables, packaged and unpackaged in different ways, delivered from the packing station to the wholesaler's pier.

SUBSTITUTING FOR AGRICULTURAL ENTREPRENEURS

	2000	2005	2019	2020
MYEL ¹⁾ -insured agricultural entrepreneurs	105 993	90 007	55 241	53 571
Those using annual leave ²⁾	45 254	34 719	14 945	14 119
Those using substitutes	14 934	14 624	4 929	4 343
Those using substituting subject to subsidised charge	10 995	13 521	7 983	7 145
Those using substituting subject to total charge	643	314	293	245

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

	1995		2005		2020	
	aver. age	num- ber	aver. age	num- ber	aver. age	num- ber
Agricultural entrepreneurs	45	142 000	48	90 000	49	54 000
Start-up entrepren.	30	70	30	760 ¹⁾	35	1 200
Retiring entrepren. ²⁾	60	6 600	61	3 900	62	1 200
Recipients of farmers' early retirement aid ³⁾	58	560	59	1 420	..	..

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.

³⁾ Those giving up farming through succession within the farmers' early retirement aid scheme prior 2018.

MOST IMPORTANT REASONS FOR RETIREMENT ON DISABILITY PENSION AMONG AGRICULTURAL ENTREPRENEURS

%	1995	2005	2019	2020
Respiratory diseases	7	3	2	2
Mental illnesses	14	20	23	27
Musculoskeletal disorders	46	47	39	39
Injuries, poisonings, etc.	6	9	7	9
Cardiovascular diseases	15	8	8	7
Tumours	..	..	10	9
Nervous system disorders	..	..	7	7

Source: Farmers' Social Insurance Institution Mela

% = share of the entire year's disability pensions among agricultural entrepreneurs.

FISHERY STATISTICS

FISHERY CATCH

Catch / 1 000 kg	Commercial		Recreational	
	Marine	Inland	Marine	Inland
Baltic herring				
1995	94 612	0	1 285	0
2005	66 457	0	520	0
2015	131 444	0	271	0
2019	112 722	0	391 ¹⁾	0
Vendace				
1995	92	1 974	43	2 200
2005	151	2 533	26	1 890
2015	200	2 805	36	1 079
2019	508	2 618	10 ¹⁾	717 ¹⁾
European whitefish				
1995	1 161	615	979	3 399
2005	765	208	357	1 573
2015	570	101	339	718
2019	416	193	315 ¹⁾	709 ¹⁾
Salmon				
1995	1 160	9	139	374
2005	461	8	103	231
2015	192	1	62	308
2019	228	14	40 ¹⁾	270 ¹⁾
Rainbow trout				
1995	47	0	205	782
2005	17	0	43	559
2015	2	0	15	359
2019	3	0	29 ¹⁾	348 ¹⁾
Perch				
1995	663	251	3 185	12 777
2005	860	498	2 556	9 190
2015	726	308	1 786	6 582
2019	721	315	1 423 ¹⁾	5 054 ¹⁾
Pikeperch				
1995	532	57	820	937
2005	440	99	383	1 883
2015	295	444	366	2 981
2019	198	879	605 ¹⁾	2 773 ¹⁾

Source: Natural Resources Institute Finland / Fishery and game statistics

¹⁾ Year 2018.

FISHERIES INCOME

	2008 MEUR	2013 MEUR	2018 MEUR	2019 MEUR
Commercial marine fishery	29	45	38	37
Aquaculture	51	65	82	78
Fish processing ¹⁾	160	358	397	404
Fish wholesale trade ¹⁾	222	282	330	314
Fish retail trade ¹⁾	117	169	117	98

Source: Natural Resources Institute Finland / Fishery and Game statistics

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

FISH FARMS

	1993	2008	2018	2019
Total ¹⁾	744	508	388	381
Food fish farms	340	198	151	148
Fry farms	170	102	95	92
Natural food ponds farmers	337	220	167	160
Sea				
Total ¹⁾	201	145	120	119
Food fish farms	194	135	99	98
Fry farms	24	17	24	23
Natural food ponds farmers	1	0	0	0
Inland				
Total ¹⁾	543	363	268	262
Food fish farms	146	63	52	50
Fry farms	146	85	71	69
Natural food ponds farmers	336	220	167	160

Source: Natural Resources Institute Finland / Fishery and game statistics

¹⁾ More than one production lines in some enterprises.

FISHERMEN

	1998	2008	2018	2019
Commercial inland fishermen				
Registered operators	..	..	1 935	1 598
Group 1	..	..	318	306
Group 2	..	..	1 617	1 292
Active fishers group 1	..	..	273	333
Active fishers group 2	..	..	831	1 221
Marine fishermen	2 948	2 079	2 499	2 276 ¹⁾
Group 1	1 071	667	414	399 ¹⁾
Group 2	1 877	1 412	2 085	1 877 ¹⁾
Recreational fishermen	2 057 000	1 780 000	1 461 000	..

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.

FOOD CONTROL

CUSTOMS CONTROLS OF FOOD 2020

Inspected foods	Inspected batches, number	Non compliant batches, number	Fail in labelling, number
Foodstuff for people with special diet (incl. dietary supplements)	69	33	25
Sweets and chocolate	115	39	35
Alcoholic beverages	30	9	7
Foodstuff for children	50	11	10
Compiled dishes	87	19	17
Water, water-based soft drinks etc.	69	15	11
Products imitating meat and dairy products	35	7	6
Cereal dough based products	151	30	30
Leguminous plant seeds and leguminous products	47	9	7
Purified and isolated ingredients	28	5	5
Seasoning products and sauces	114	16	12
Oil seeds and fruit	75	8	3
Grain and cereal products	127	13	4
Food contact materials	394	38	4
Nuts and nut products	70	6	3
Hot drinks (coffee-, cacao-, tea- and herb drinks)	11	1	1
Fruit, vegetable and plant juices, drinks and spreads etc.	86	8	7
Starchy roots and tubers	28	2	0
Ingredients for hot drinks and groats	110	7	3
Herbs, spices etc.	145	9	1
Vegetables and vegetable products	523	25	3
Fruit and fruit products	609	24	4
Fish and fish products	27	1	0
In total	3 000		

Source: Customs, Finnish Food Authority / Food safety in Finland 2020 publication

CAUSES OF NON-COMPLIANCE 2020

Cause of non-compliance	Number of batches	%
Labelling	208	59
Other contamination	58	16
Microbiological causes incl. salmonella	10	3
Composition	24	7
Other	55	15
Total	355	100

Source: Customs, Finnish Food Authority / Food safety in Finland 2020 publication

VETERINARY MEDICINAL PRODUCT RESIDUES AND OTHER SUBSTANCES IN LIVE ANIMALS AND ANIMAL PRODUCTS

	EU-27 average		Finland		
	2010	2017	2010	2017	2020
Number of targeted samples	418 081	360 293	4 344	4 218	4 110
Non-compliant samples %	0.33	0.35	0.00	0.28	0.27

Source: EFSA and Finnish Food Authority

Contaminants are prohibited substances, permissible medicinal products and contaminants from the environment. The EU results include all samples examined in the programme, including contaminants from the environment. The results for Finland take into account the residues of prohibited substances and permissible medicinal products but not all results that exceed the limit, such as heavy metals found in game.

FOOD INSPECTIONS UNDER OIVA -SYSTEM¹⁾ 2020

Category	Number of registered facilities	Number of facilities inspected	Number of inspections	OIVA A/B %
Food transport	1 464	118	131	99
Retail sales	12 530	3 052	3 560	87
Service sector	33 658	9 694	11 127	87
Storing including freezer	807	151	185	86
Manufacturing				
Fish sector	370	216	412	84
Meat sector	343	204	626	84
Milk sector	123	85	200	93
Egg sector	73	43	55	93
Mill and vegetable sector	2 356	576	613	86
Other sectors	862	197	224	83
Export and import	777	84	139	71

Source: Finnish Food Authority / Food safety in Finland 2020 publication

¹⁾ Oliva is a system for reporting food control report information coordinated by the Finnish Food Authority.

NUMBER OF RECALLS

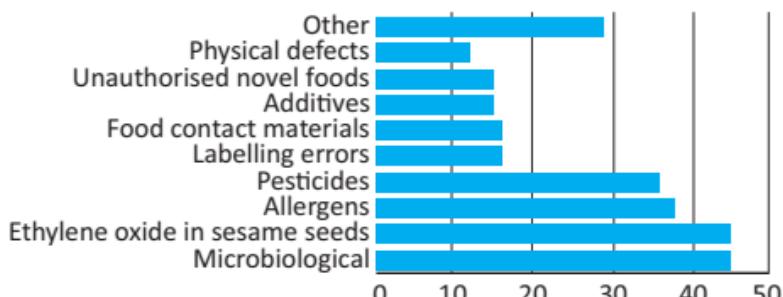
	2005	2010	2019	2020
Recalls ¹⁾ , number	28	84	200	267

Source: Finnish Food Authority

¹⁾ Incl. both retailer and mass caterer recalls. The statistics for different years are not fully comparable, as recording methods have been defined.

Includes even incidents where products did not become available to the consumers.

REASONS FOR PRODUCT WITHDRAWALS 2020, pcs



Source: Finnish Food Authority

FOODBORNE AND WATERBORNE OUTBREAKS AND NUMBER OF PERSONS AFFECTED 2020

Disease-causing agent	Number of outbreaks N=36	Number of persons affected	
		N=594	%
Food borne			
Bacillus cereus	1	8	1
Clostridium perfringens	1	42	8
EHEC	1	10	2
Campylobacter	3	21	4
Listeria monocytogenes	2	37	7
Salmonella	3	21	4
Staphylococcus aureus	1	5	1
Norovirus	9	96	18
Sapovirus	1	124	23
Unknown	12	179	33
Total	34	543	100
Waterborne			
Campylobacter	1	43	84
Norovirus	1	8	16
Total	2	51	100

Source: Finnish Food Authority

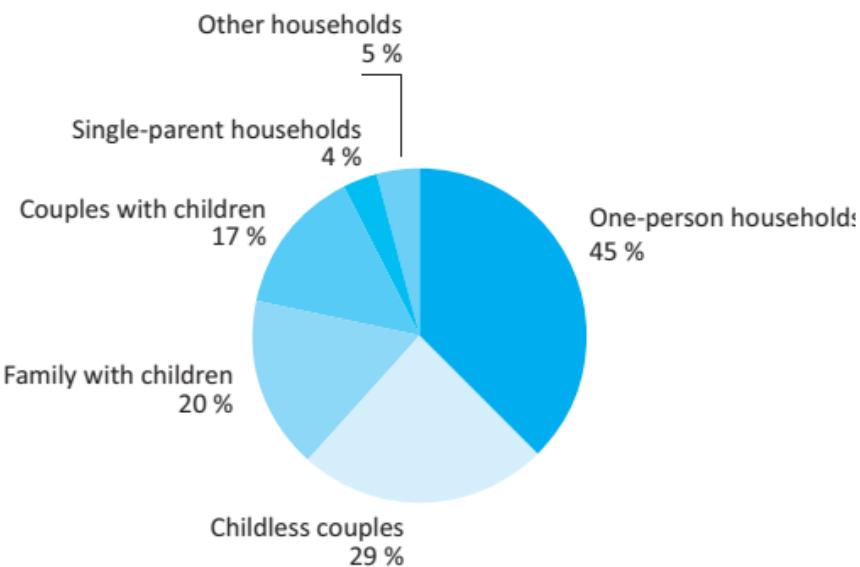
FOODBORNE OUTBREAKS BY FOOD VEHICLE 2020

Food vehicle	Unknown / several foodstuffs / buffet	Meat and meat products	Vegetables and vegetable products	Fish and fish products, shelffish	Milk and milkproducts	Bakery products	Total
Cause							
Bacillus cereus	1					1	
Clostridium perfringens	1					1	
EHEC			1			1	
Campylobacter	3					3	
Listeria monocytogenes		2				2	
Salmonella	2	1				3	
Staphylococcus aureus		1				1	
Norovirus	6		2			9	
Sapovirus	1					1	
Unknown	9		2	1		12	
Total	17	9	3	3	1	1	34
%	50	26	9	9	3	3	100

Source: Finnish Food Authority

HOUSEHOLDS BY SIZE

In 2020 there were 2 783 000 households in Finland.



Source: Statistics Finland

On January 1st 2021 the population of Finland was 5 533 793.

On January 1st 2021 the population density of Finland was approximately 18.2 people per square kilometer.

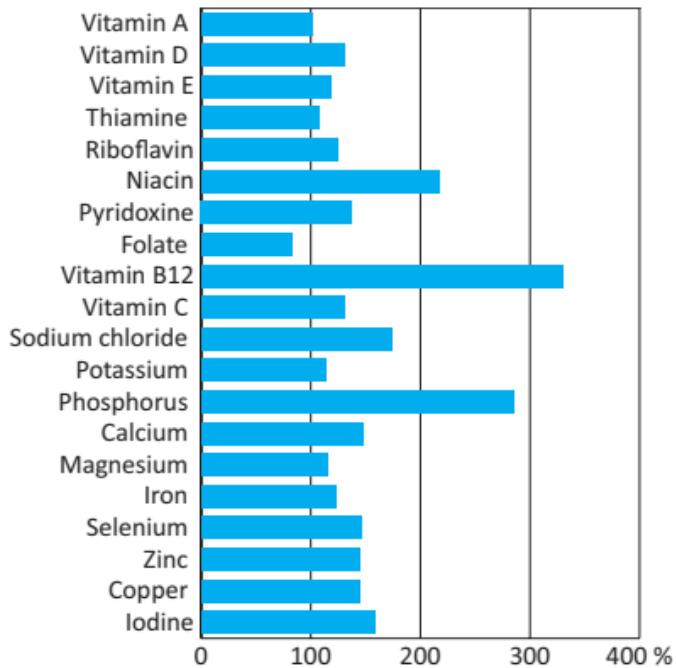
In 2019 the average size of a household was approximately 1.95 people.

Source: Statistics Finland

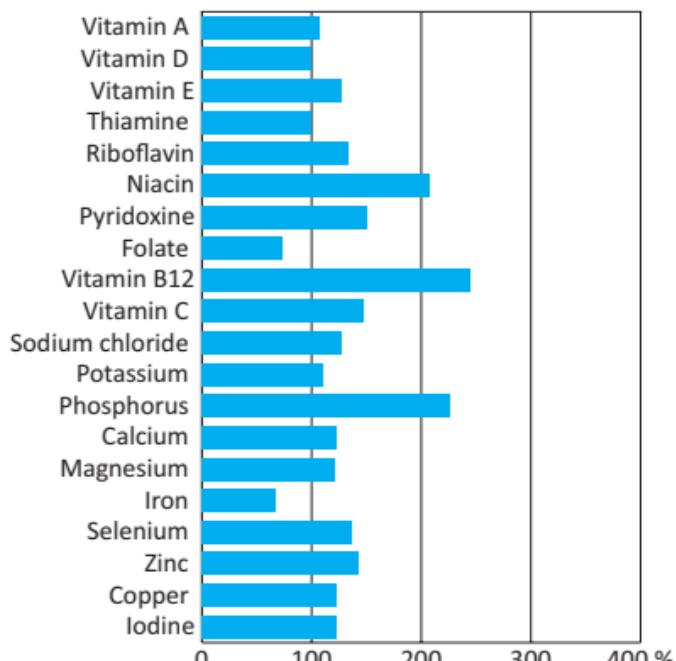
General information

ACTUAL VITAMIN AND MINERAL INTAKE COMPARED TO THE RECOMMENDATIONS (% of recommendations)

Men

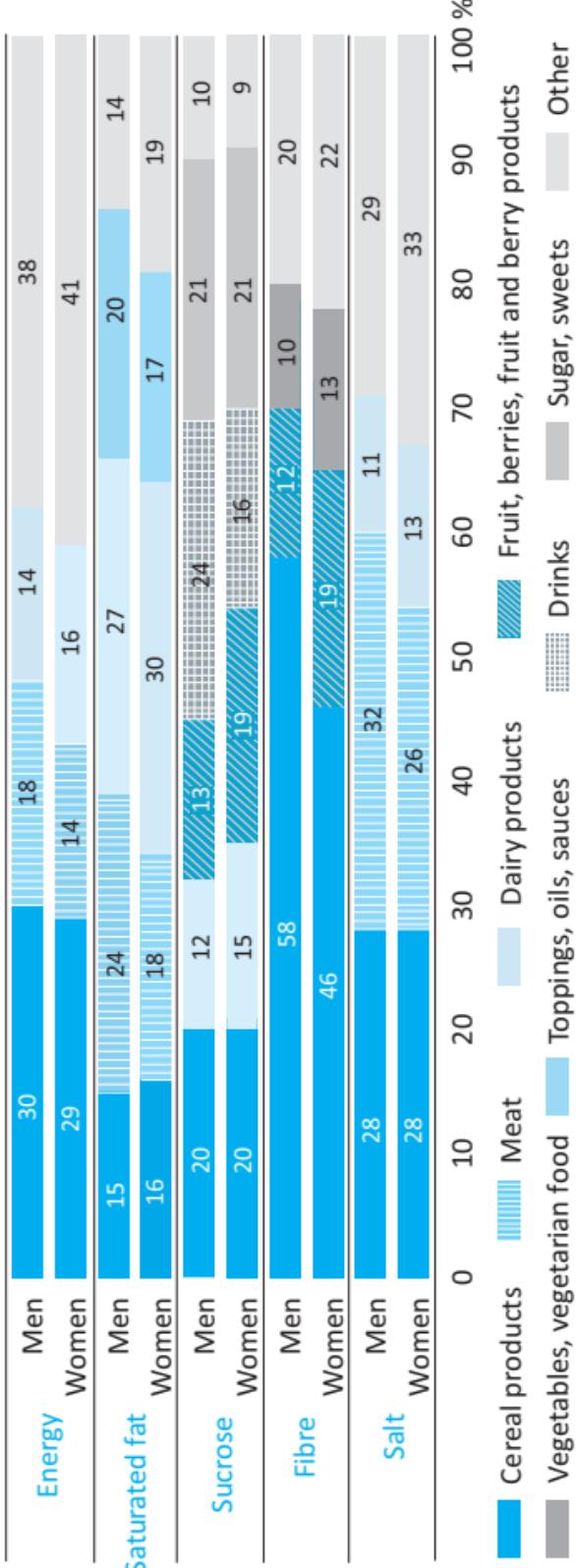


Women



Source: The National FinDiet 2017 Survey
25–64 years old

MOST IMPORTANT SOURCES OF ENERGY AND NUTRIENTS



Source: The National FinDiet 2017 Survey
25–64 years old

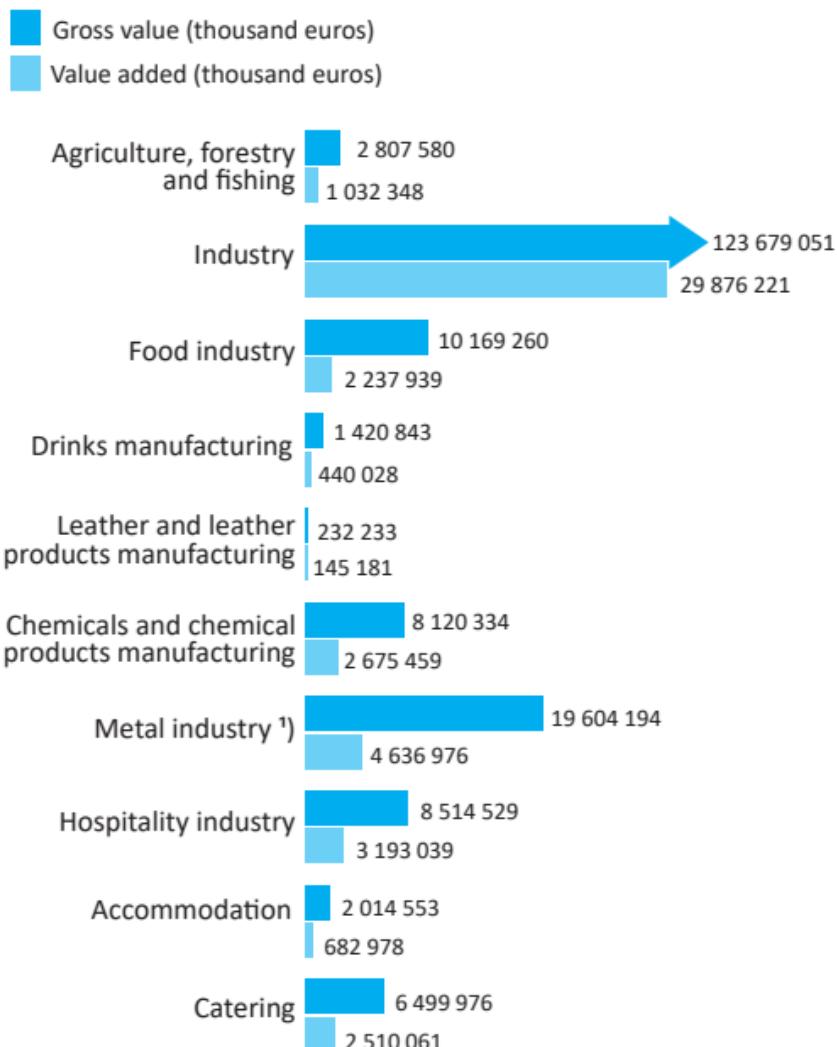
General information

GROSS DOMESTIC PRODUCT

Distribution by field of activity % ¹⁾	2005	2010	2019p	2020p
Agriculture, forestry and fishing	2.6	2.8	2.8	2.8
of which agriculture	1.1	0.9	0.7	..
Manufacturing	24.3	19.4	16.7	16.7
of which food industry	1.7	1.6	1.4	1.4
Construction	6.4	6.5	7.4	7.5
Wholesale and retail trade ¹⁾	9.8	9.4	7.2	7.4
Transportation and storage	5.7	5.1	4.7	3.8
Accommodation and food service activities	1.6	1.6	1.9	1.3
of which food service activies	1.2	1.3	1.5	..
Information and communication	5.0	5.0	6.0	6.3
Financial and insurance activities	2.9	2.8	2.9	3.0
Real estate activities	10.2	11.2	12.8	13.3
Human health and social work activities	8.2	9.3	9.4	9.6
¹⁾ Selected fields of activity included in the gross domestic product.				
Gross value added at basic prices, billion EUR	143.9	164.7	207.5	204.2
GDP in purchasers' values, billion EUR	164.7	188.1	240.1	236.2

Source: Statistics Finland / National Accounts

GROSS VALUE OF AND VALUE ADDED TO PRODUCTION BY INDUSTRY BRANCH 2019



Source: Statistics Finland, Standard industrial classification TOL 2008

¹⁾ The metal industry includes metal refining and manufacture of metal products (excl. machines and equipment).

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 the 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.

LABOUR FORCE

Field of activity	2000	2005	2018	2019	2019
	%	%	%	%	1 000 persons
Agriculture, forestry, fishing, mining and quarrying	6	5	4	4	99
of which agriculture	5	4	3	3	66
of which forestry	1	1	3	1	24
Industry ¹⁾	20	18	14	13	329
of which food and beverage industry	2	2	1	1	35
Construction	6	7	8	7	188
Wholesale and retail trade ²⁾	12	12		11	270
Transport and storage	7	6	6	5	134
Accommodation and food service activities	3	3	3	3	78
Other services and fields of activity	45	49	54	56	1 423
Unknown field of activity	0.3	0.2	0.3	0.3	7
Employed total	100 %	100 %	100 %	100 %	
in thousands	2 335	2 401	2 566	2 528	2 528
Total labour force in thousands	2 589	2 621	2 750	2 741	2 741
of which unemployed %	9.8	8.4	6.7	7.8	7.8

Source: Statistics Finland, Year 2020 Labour Force classification, Standard industrial classification TOL 2008

¹⁾ Including electricity, water supply, waste management etc.

²⁾ Including repair of motor vehicles and motorcycles.

OCCUPATIONAL DISEASES BY INDUSTRY 2017

Occupational diseases	pcs	per 10 000 employed
Crop farming, animal husbandry, game husbandry	127	20.1
Production of foodstuff	31	9.7
Beverage industry	0	0
Food service activities	31	4.5

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

NUMBER OF OCCUPATIONAL ACCIDENTS

Occupational accidents¹⁾ per 100,000 working in the industry	2005	2010	2018	2019
Agricultural entrepreneurs	5 962	4 882	4 868	3 990
Food and drink industry employees	7 696	6 919	2 292	1 908
All occupations ²⁾	2 581	2 103	1 610	1 576

Source: Statistics Finland, 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.

OCCUPATIONAL ACCIDENT FREQUENCY

Occupational accident frequency¹⁾	2018–2020
Market gardeners and crop growers	44
Animal producers and related workers	73
All occupations	28

Source: Workers' Compensation Center

¹⁾ Accidents at work per million working hours.

General information

MEAN PRECIPITATION 1981–2019, mm

	spring	summer	autumn	winter
Helsinki	105	202	203	150
Jyväskylä	114	225	177	127
Oulu	84	192	134	95
Sodankylä	100	194	138	102

Source: Finnish Meteorological Institute

MEAN TEMPERATURES 1981–2019, °C

	spring	summer	autumn	winter
Helsinki	4.5	16.4	6.9	-3.2
Jyväskylä	2.6	14.9	3.8	-7.2
Oulu	1.7	14.8	3.4	-8.1
Sodankylä	-0.9	12.8	0.1	-12.3

Source: Finnish Meteorological Institute

WEATHER CONDITIONS DURING THE GROWING SEASON

	Effective temperature comparative period			Precipitation comparative period		
	2019	2018	1981–2010	2019	2018	1981–2010
	1 417	1 727	1 307	310	263	341
Jokioinen	1 266	1 531	1 185	241	211	286
Kauhava	1 130	1 448	1 170	242	259	257
Oulu	841	1 147	795	182	252	227
Sodankylä						

Source: Finnish Meteorological Institute

DAY LENGTH, hours

	spring	summer	autumn	winter
Helsinki	14.5	17.5	10.2	7.2
Kauhava	14.9	18.4	9.9	6.4
Oulu	15.3	19.1	9.7	5.8
Sodankylä	15.8	21.1	9.3	4.3

Source: Finnish Meteorological Institute

BIOECONOMY IN 2019p

	Output. MEUR	Value added. MEUR	Emp- loyed, 1 000 persons	Export of goods MEUR
Agriculture	4 767	1 422	64.3	343
Food industry	11 602	2 840	38.2	1 540
Forestry	28 080	9 041	63.3	13 305
Chemical industry	4 008	1 231	4.8	1 900
Water treatment and distribution	799	457	2.6	..
Bioeconomy services	4 030	1 852	37.2	..
of which nature tourism	3 859	1 681	37.2	..
of which hunting	97	97	0	..
of which fishing	74	74	0	..
Bioeconomy total	74 380	26 012	301.8	18 836
National economy total	452 871	208 049	2 670.10	64 897
Share of bioeconomy. %	16	13	11	29

Source: Natural Resources Institute Finland / Bioeconomy calculations

Output, value added and export expressed in current prices.



**The Hyvää Suomesta – Produce of Finland label of origin
is used in Finnish packaged food products
manufactured using Finnish ingredients.**

hyvaasuomesta.fi/english

 @RuokaaOmastaMaasta

 @HyvaaSuomesta

 @HyvaaSuomesta

#HyvääSuomesta

#ProduceOfFinland

The online publication of Forkful of Facts (ISSN 2737–1565), also in Finnish and Swedish, is available free of charge at ruokatieto.fi/tietohaarukka.

The printed publication can be ordered by e-mail: ruokatieto@ruokatieto.fi. The publication is free, but 10 € handling costs + shipping are charged.

Forkful of Facts 2021 – Food Production Chain statistics -publication is produced by Finnish Food Information Association in collaboration with the Finnish Association of Academic Agronomists, Central Union of Agricultural Producers, Association of ProAgria Centers, the Central Union of Swedish-speaking Agricultural Producers in Finland and Natural Resources Institute Finland.

Valuable expert help has been provided also by Finnish Food Authority, Farmers' Social Insurance Institution Mela, Finnish Institute of Occupational Health, Animal Health ETT, Finnish Poultry Association, The Finnish Beekeepers' Association, Finnish Grocery Trade Association, The Finnish Food and Drink Industries' Federation (ETL), Finnish Horticultural Products Society, Kasvistieto Oy, Statistics Finland, Kantar TNS Agri Ltd, Taloustutkimus, Customs Statistics Service, Reindeer herders' Association, Hippolis – The National Equine Competence Association of Finland, and Finnish Workers' Compensation Center, and Finnish Cereal Committee. Finnish Food Information would like to extend warm thank you to all those who have provided assistance.

Managing editor Maarit Laurinen and content creator Ebba Snellman
Finnish Food Information
Helsinki 2021

FINNISH FOOD INFORMATION

tel. +358 40 710 4170

www.ruokatieto.fi



Finnish Association of
Academic Agronomists
tel. +358 9 251 1160
www.agronomiliitto.fi



Natural Resources
Institute Finland (Luke)
tel. +358 29 532 6000
www.luke.fi



Central Union of
Agricultural Producers
and Forest Owners
tel. +358 20 4131
www.mtk.fi



Central Union of Swedish-
speaking Agricultural
Producers in Finland
tel. +358 9 586 0460
www.slc.fi



Association of ProAgria
Centres
tel. +358 20 747 2400
www.proagria.fi

