

Change in agriculture

A structural change has been ongoing in agriculture for the past 25 years. Number of farms has decreased to a half. Farm size has increased: the farmed arable land area of an average farm has about doubled.

kk051 5. What should the future of Finnish agriculture and food production be 30 years from now? What is your opinion on the following statements?

	Totally agree	Somewhat agree	Do not agree or disagree	Somewhat disagree	Totally disagree	Cannot say
It is enough that a half of food sold in Finland is domestic.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The same farm should have both plant production and production animals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Finland could export more food than currently.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Agriculture should specialize in producing specific products in specific areas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large-scale production would be suitable for Finnish agriculture.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A part of arable land could be reforested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

kk52 5. What should the future of Finnish agriculture and food production be 30 years from now? What is your opinion on the following statements?

	Totally agree	Somewhat agree	Do not agree or disagree	Somewhat disagree	Totally disagree	Cannot say
Most of food could be industrially produced in production facilities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Animal-based production (meat, dairy, eggs) should be considerably decreased and the focus should be mostly on plant-based products.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rural areas remain viable even without agriculture.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I gain other benefits from agriculture than just food production.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is possible to cope crisis situations even though a part of food should be imported to Finland.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Agri-environmental issues

Agriculture has an impact on the environment. Fields are a part of landscape, and fields and their adjacent areas are habitats for many living organisms. Nutrients from manure and artificial fertilizers can end up in waterways, which causes eutrophication. Arable farming and livestock rearing also have climatic impacts. Currently, farmers receive *agri-environmental payments*. They can be paid, for example, for preventing nutrient run-offs. In addition, farmers can be paid for measures which mitigate climate change, improve landscape or promote biodiversity.

kk06 6. What is your opinion on the following statements?

	Totally agree	Somewhat agree	Do not agree or disagree	Somewhat disagree	Totally disagree	Cannot say
It is acceptable that food production causes environmental impacts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Some farms can focus on improving the quality of the environment supported by the society.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The farmer should be paid if farming does not have environmental impacts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Food can be more expensive if its production has no environmental impacts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Whoever causes environmental impacts in agriculture must pay for damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is difficult to decrease environmental impacts of agriculture by developing farming practices.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

kk07 7. Agriculture is subsidized by tax funds. How tax funds should be directed is a matter of opinion. How important are the following themes to you personally when allocating funding to Finnish agriculture? Think of your total valuation as 100 points and divide your points between the following themes according to your own valuations. Not every theme needs to be given points. That is, if you do not care about a particular theme, you can allocate it 0 points. The combined score should be 100.

- _____ Agricultural income and farm economic resilience
- _____ Competitiveness of Finnish agriculture compared to other countries
- _____ Self-sufficiency in food production
- _____ Climate change mitigation and adaptation
- _____ Condition of soil
- _____ Quality of surface waters
- _____ Biodiversity and landscape
- _____ Entrepreneurship, livelihoods and services in rural areas
- _____ Production of healthy nutrition
- _____ Farm animal welfare
- _____ Other aspects not mentioned

If other (please specify)

Financing of agriculture
 Farms gain income from selling their products. This income is still not enough to cover the production costs. Therefore, agricultural payments are very important in the income formation of farms. About one third of the total return of farms comes from payments.

kk08 8. What is your opinion on agricultural payments and on different means to finance the payments?

	Totally agree	Somewhat agree	Do not agree or disagree	Somewhat disagree	Totally disagree	Cannot say
Agriculture should be supported from tax revenues.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
There is no need for agricultural payments because all the costs could be included in the prices of domestic agricultural products.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Citizens could take part in supporting agriculture voluntarily, for example, by buying farm shares.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The whole food chain should have economic responsibility for the future of agriculture.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The farmer should gain a larger share of the price of food.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The Finnish agricultural payments should be in line with payments in other countries in order for Finnish production to be competitive.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Agriculture should not be supported, even though it would lead to a decrease in Finnish food production.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
International private equity investment companies could invest in Finnish agriculture.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Amount of payments

Agriculture is supported by a sum of approximately EUR 2 billion from the Finnish State budget. The support is directed towards safeguarding the viability of farms, the quality of the environment and the welfare of farm animals. This equates to about 4% of the state budget. This is more than, for example, the shares allocated to culture, development cooperation or the police and rescue services in the state budget, but less than, for example, the cost of land defence or education.

kk09y 9. Please assess whether you think agriculture's share of the state budget is currently too small, adequate or too large.

- 1 Far too large
- 2 Somewhat too large
- 3 A little too large
- 4 Adequate
- 5 A little too small
- 6 Somewhat too small
- 7 Far too small
- 8 I cannot say

kk09a 9. Please assess whether you think agriculture's share of the state budget is currently too small, adequate or too large.

- 1 Far too small
- 2 Somewhat too small
- 3 A little too small
- 4 Adequate
- 5 A little too large
- 6 Somewhat too large
- 7 Far too large
- 8 I cannot say

[Questions for a choice experiment without figures:]

Future agriculture is described in this survey by means of the following characteristics. Please study the characteristics and their present situation:

Figure

Agricultural alternatives

Data based on the following selection cases will help decision-makers to reform agriculture and agricultural policy measures. The aim is that agriculture produces the best possible benefits for all Finns in relation to money spent.

Agricultural income consists of product sales revenue and payments. If production methods are changed, production costs on farms can increase or decrease. This can have an effect on the price of Finnish food.

Payments come from tax revenues, whereby every tax payer takes part in their payment. The amount of payments can be increased or decreased depending on the willingness to invest in agriculture.

Please consider the following six selection cases and state which future is most agreeable to you. Please note that the alternatives cause a cost to you. If you select an alternative with a cost, you cannot use the sum for consumption. The cost would be caused annually for the next 10 years. Please consider each selection case separately. The current situation always stays the same.

Figure 1

kuva1 10. Please select the most agreeable one of future farms. Think about the next 10 years.

- 1 Current state
- 2 Alternative X
- 3 Alternative Y

Figure 2

kuva2 10. Please select the most agreeable one of future farms. Think about the next 10 years.

- 1 Current state
- 2 Alternative X
- 3 Alternative Y

Figure 3

kuva3 10. Please select the most agreeable one of future farms. Think about the next 10 years.

- 1 Current state
- 2 Alternative X
- 3 Alternative Y

Figure 4

kuva4 10. Please select the most agreeable one of future farms. Think about the next 10 years.

- 1 Current state
- 2 Alternative X
- 3 Alternative Y

Figure 5

kuva5 10. Please select the most agreeable one of future farms. Think about the next 10 years.

- 1 Current state
- 2 Alternative X
- 3 Alternative Y

Figure 6

kuva6 10. Please select the most agreeable one of future farms. Think about the next 10 years.

- 1 Current state
- 2 Alternative X
- 3 Alternative Y

Figure 7

kk11a_c 11c. How much at most would you be willing to pay for the following future situation of agriculture annually for the next 10 years?

kk11 11. When making the choices, how much did you pay attention to the following?

	Very much	Quite much	Not much nor little	Quite little	Very little	Cannot say
Number of viable farms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Domestic origin of food	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental emissions of agriculture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Share of diverse arable area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change in taxes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change in prices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

kk12 12. In each choice question, you selected the first alternative (current situation). Please choose one to three most important reasons for your selection (1= most important, 2 = second important, 3= third important).

(12 maximum responses)

- 1 Current situation of agriculture is good enough
- 2 Other alternatives were too expensive
- 3 Other alternatives were not good enough
- 4 I can't afford paying for any change
- 5 Other problems are more important
- 6 I'm against more taxes
- 7 I'm against price increases
- 8 I don't think that the situation of agriculture can be changed
- 9 I don't care about the situation of agriculture
- 10 Selecting was difficult for me
- 11 Issues described in the question were new to me.
- 12 Other reason, please specify (fixed)

please specify

[The choice experiment ends here]

kk13 13. In your opinion, who should be responsible for securing the income of agricultural entrepreneurs in the following crisis situations? Please select one to three most important responsible parties (1= most important, 2 = second important, 3= third important).
kriisit13

	Farmer	Society	Consumer	Farmer's insurance	Trade
Pest or disease epidemic which prevents production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crop loss due to extreme weather conditions or wild animals (such as migratory birds)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Farmer's or workers' serious illness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rapid changes in prices: sharp rise in fuel or fertilizer prices or steep drop in agricultural product prices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental disaster, such as chemical accident or fallout, starting outside the farm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

kk14 14. What is your opinion on the following general statements about agricultural policy?

	Totally agree	Somewhat agree	Do not agree or disagree	Somewhat disagree	Totally disagree	Cannot say
The society has the right to regulate farmers' operations with agricultural policy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is right that decisions which bind farmers are made in agricultural policy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It is right to demand that farmers comply with provisions of agricultural policy related to matters such as food safety, animal welfare and the environment in order to receive payments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Farmers must comply with the provisions of agricultural policy even though they disagree with the provisions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I'm confident that good decisions are made in agricultural policy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

kk15 15. What is your opinion on the following statements?

	Totally agree	Somewhat agree	Do not agree or disagree	Somewhat disagree	Totally disagree	Cannot say
The sensitive balance of nature is easily disturbed by human actions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The globe only has limited space and resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plants and animals do not exist primarily for people.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Altering the environment to be used by people rarely causes serious issues.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Economic growth has no limits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The humans have the right to control nature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Lastly, please give us some background information about you:

kk16 16. What was your childhood environment?

- 1 Rural area
- 2 City or city-like area

kk17 17. What is your occupation (previous occupation if you are retired or unemployed)?

- 1 Agricultural or forestry entrepreneur
- 2 Other entrepreneur
- 3 Upper-level office worker / managerial position
- 4 Lower-level office worker
- 5 Worker
- 6 Student/pupil
- 7 At-home mother/father
- 8 Other

kk18 18. Do you work currently?

- 1 Yes
- 2 Yes, but I'm laid off at the moment
- 3 No

kk19 19. What is your line of work (previous if retired, future if student)? You can select more than one alternative.

(7 maximum responses)

- 1 Forestry
- 2 Food industry
- 3 Agriculture
- 4 Protection of the environment
- 5 Other field related to the environment
- 6 Property
- 7 Other line of work

kk20 20. How many persons over 18 years old are there in your household yourself included?

- 1 1
- 2 2
- 3 3 or more

kk21 21. What is your postal code?

kk22 22. Please state your personal monthly income before taxes (gross income)

- 1 No income
- 2 Less than €500
- 3 €500–999
- 4 €1,000–1,499
- 5 €1,500–1,999
- 6 €2,000–2,999
- 7 €3,000–3,999
- 8 €4,000–4,999
- 9 €5,000–6,999
- 10 More than €7,000

kk23 23. Please state the total monthly income of your household before taxes (gross income)

- 1 No income
- 2 Less than €1,000
- 3 €1,000–1,999
- 4 €2,000–2,999
- 5 €3,000–3,999
- 6 €4,000–5,999
- 7 €6,000–7,999
- 8 €8,000–9,999
- 9 €10,000–14,999
- 10 More than €15,000

kk24 24. Do you eat the following food at least sometimes?

- 1 Vegetables
- 2 Red meat (beef or mutton)
- 3 Pork (always follow previous)
- 4 Chicken
- 5 Game
- 6 Fish
- 7 Dairy products
- 8 Eggs
- 9 Gluten-free cereals
- 10 All cereals (always follow previous)

kk25 25. Are you (or have you been) involved in the following organizations?

	Yes	No
Agricultural producers' interest group	<input type="checkbox"/>	<input type="checkbox"/>
Nature conservation organization	<input type="checkbox"/>	<input type="checkbox"/>
Hunting club	<input type="checkbox"/>	<input type="checkbox"/>

kk26 26. Have you done the following?

	Yes	No
Written about agriculture to Letters to the Editor or social media	<input type="checkbox"/>	<input type="checkbox"/>
Voted in the election of the parliament in April 2019	<input type="checkbox"/>	<input type="checkbox"/>
Selected your parliament candidate based on agricultural matters	<input type="checkbox"/>	<input type="checkbox"/>

Kk27 27. Which party did you vote for in the election of the parliament in April 2019?

- 1 Left Alliance
- 2 Social Democratic Party
- 3 Green League
- 4 Centre Party
- 5 Swedish People's Party
- 6 National Coalition Party
- 7 Christian Democrats
- 8 Finns Party
- 9 Other (fixed)
- 10 I don't remember or I don't wish to answer (fixed)

[Farmland owners based on kk03 3:]

kk28a 28. Are you

- 1 Owner of arable land
- 2 Arable land owner's spouse
- 3 Arable land owner's other family member
- 4 Party in arable land owning company or estate
- 5 Other owner

kk28b 28. How much arable land do you own? If you cannot remember the exact number, an estimate is enough.

kk29 29. Is the arable land you own

	No	Yes, partially	Yes, totally
farmed by you	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
rented to an outsider	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
tended open without payments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
left uncultivated and untended	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

kk30 30. What is the main production line of the farm?

(4 maximum responses)

- 1 Crop production
- 2 Dairy production
- 3 Beef production
- 4 Pork or poultry production
- Other (please specify)

kk31 31. Is the farm under organic farming?

- 1 No
- 2 Yes

kk32 32. Postal code of farm

kk33 33. Do you live on the farm?

- 1 No
- 2 Yes

All persons who completed this survey will participate in a price draw of 5 gift vouchers. The value of the voucher is €40 and the winner can select if they want an S Group or a K Group voucher. If you are one of the winners, do you want the voucher for...

- 1 S Group
- 2 K Group
- 3 I don't wish to participate in the price draw

The winners of the price draw will be contacted by e-mail to check their postal address. Please give your e-mail here.

If you want to, please give feedback on this survey here.