

# FARMING OF THE FUTURE

The road to climate neutral farming 2050

Harverst Year

20  
23



 Lantmännen

## Sustainable cultivation according to Lantmännen

Sustainable cultivation rests on three pillars – all equally important in realizing Farming of the Future and making the transition by 2050 possible.



**The Planet** – That the cultivation stays within the planetary boundaries, in the long term.



**Productivity & Resource Efficiency** – That the cultivation is resource efficient and generates high yields in relation to the resources invested and the farmland available.



**Profit** – That the cultivation is profitable for the farmer and also affordable for the person buying the product.



# Farming of the Future

Farming of the Future is Lantmännen's vision and strategy for a sustainable and profitable Swedish agriculture. We can achieve climate-neutral farming by 2050 at the latest, while increasing harvests. Through our long-term work, we drive sustainable development in the value chain from field to fork - and get closer to reaching our goals.

Lantmännen has identified eleven critical areas within crop cultivation, and eleven critical areas in meat and dairy production that describe important efforts along the food value chain. In 2019, we launched Farming of the Future and marked out the road ahead and are now working systematically to take the steps required for a sustainable transition of farming. Every year, we report on the developments made in a yearbook based on the four areas in which we are driving the agenda forward: Knowledge, Proof, Offer and Collaboration.



## Knowledge

We develop and deepen knowledge of how farming can become more profitable and sustainable.



## Proof

We test and demonstrate the solutions of the future in practice at our three Farms of the Future.



## Offer

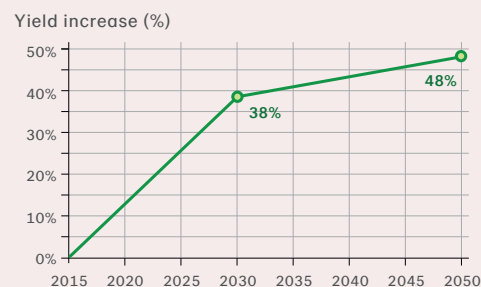
Based on our knowledge, we develop concrete offers for the market.



## Collaboration

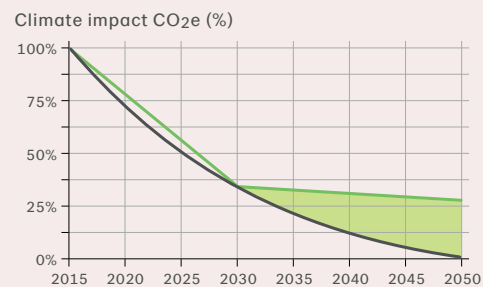
Together with our partners, we can meet the challenges ahead and close the innovation gap by 2050.

### Potential for yield increase



**Figure 1.** Potential for yield increase 2015-2050, calculated per hectare of winter wheat.

### Potential for reduced climate impact



**Figure 2.** Potential to reduce climate impact from farming, calculated per hectare of winter wheat, calculated per tonne of winter wheat, and gap to the Paris Agreement.

- Potential for reduced CO<sub>2</sub>e
- Innovation gap
- Reduction rate for climate impact, according to the Paris Agreement

Lantmännen's target is to create conditions for a sustainable primary production by halving climate impact every decade and achieving climate neutrality by 2050.



# Great progress despite turbulent times

Today, 26 harvests remain before achieving the goal of climate neutral, sustainable and profitable farming by 2050, according to Lantmännen's vision Farming of the Future. We look back on a harvest year where Lantmännen continued to take important steps forward. At the same time, the year was marked by highly variable weather conditions resulting in a grain harvest that was among the worst we've seen in 30 years. This season illustrates the new cultivation conditions we can expect with climate change and highlights the importance of continuing to work with climate transition and adaptation.

This year's weak harvest also poses challenges for many of Lantmännen's members, especially given that increase in inflation and rising market interest rates

mean that many farmers are already in a tough financial situation.

In this context, Lantmännen with our broad business portfolio plays an important role. The profits generated in our operations and portfolio companies ultimately benefit the members in the form of dividends. For example this year, when the grain harvest didn't meet the requirements of the food industry, we can instead use the grain for feed and energy production in our other operations. Despite the challenges, our company is developing positively and we are optimistic that we can continue to strengthen Swedish farming going forward.

Many advances in Farming of the Future were made during the year. Our sustainable cultivation program Climate & Nature

continues to grow with new partners, new markets and increasing volumes. During the year, the program introduced fossil-free fertilizer as a measure, which makes a fossil-free value chain for food possible – something we are the first in the world to do for large-scale food production. Alongside the long-term work for reduced climate impact, it is also important to focus on more short-term measures for climate adaptation. Large investments in irrigation and drainage will be required, as well as investments in plant breeding for more resilient crops.

Our new plant breeding facility at Farm of the Future Svalöv has this year scaled up to full capacity with high-tech equipment and world-class expertise.

In May, the EU's CAP Directors visited Svalöv as part of the Swedish EU presidency. We showcased technology and methods that can make farming in the EU more productive and sustainable, including precision farming and the previously mentioned plant breeding. It was clear that Sweden and Swedish farming are at the forefront and can inspire other countries within the EU.

Farming of the Future is a powerful vision that is within reach, and Lantmännen continues to accelerate the work to create profitable business and thriving farming.



**Magnus Kagevik**  
Group president & CEO  
Lantmännen

# Research and Development

Lantmännen's work within Farming of the Future is based on extensive research. We are constantly developing our knowledge base to understand which areas require further development and which measures are most effective and can have the greatest impact. During the 2023 harvest year, Lantmännen invested SEK 430 million in research and development.

## + New collaboration for precision crop nutrition

Dataväxt, part-owned by Lantmännen, and the fertilizer company Yara, started a collaborative project for precision fertilization in 2023. The aim is to integrate Yara's fertilizer recommendations into Dataväxt's platform. In this way, tailored recommendations can be developed for the user. With precision crop nutrition, the harvest can increase and achieve better quality. Also, plant nutrient leakage is decreased, reducing the environmental and climate impact from farming.

## → The Foundation announces SEK 25 million for new research

During 2023, Lantmännen's Research Foundation announced SEK 25 million funding for practically applicable research. One of the projects that received funding is investigating whether recycled phosphorus, precipitated from ash, can function as an ingredient in animal feed. In this way, the recycling of nutrients in agriculture can increase. Another project concerns germination tests under stress to find out which factors can affect the germination of oats. With more knowledge in the field, we can contribute to increasing the productivity of oats grown in Swedish conditions.

## → Research projects to reduce nitrous oxide emissions

Nitrous oxide is a powerful greenhouse gas and there is currently a lack of knowledge on how emissions can be effectively reduced. Lantmännen is therefore investing in research in the area together with the University of Gothenburg, the Swedish University of Agricultural Sciences (SLU) and Yara. The project aims to investigate the extent to which nitrous oxide emissions from farmland can be minimized by using different fertilization strategies and soil improving additives. The field trials began in 2023 and monitoring of the emissions will continue until March 2025.



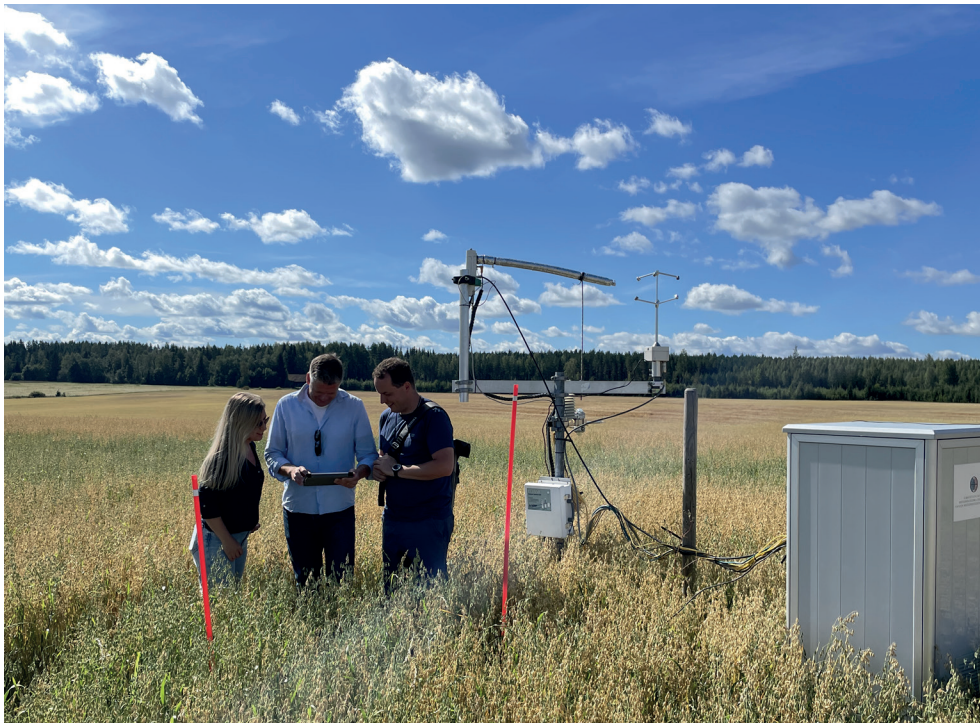
“Significant research investments are needed to enable climate-neutral food production and achieve our targets by 2050. By implementing today’s knowledge, we can get far but we won’t be able to go all the way. This is why it is absolutely crucial that we continue to build our knowledge base and develop new products and methods of working.”



**Mikael Åstrand**  
Director R&D and Innovation  
Lantmännen

↓ **Finnish project to increase knowledge about carbon storage**

Lantmännen has started a three-year research collaboration with the Finnish Meteorological Institute to find out which cultivation methods are most effective at sequestering carbon in the soil. In the summer of 2023, the first measurements were made at Lantmännen's farm Hauho in Finland, and now five additional farms around the country will be linked to the project. The study, which is funded by the Lantmännen Research Foundation and our Finnish business units, is the first of its kind in the Nordic region and will be important to increase knowledge in this research area.



**Our reports**

Since Farming of the Future was launched in 2019, two reports have been published within the program. Based on research, they analyze how critical food value chains can become climate-neutral and at the same time more productive and profitable by 2050. We continue to use the reports as a knowledge base and guidance in the development of Farming of the Future.



↑ **Farming of the Future report: Crop Cultivation** was published in 2019 and was the starting point for Lantmännen's vision of Farming of the Future. The report presents Lantmännen's calculations, analyzes and conclusions for sustainable and profitable Swedish crop cultivation. The working group included employees from different parts of Lantmännen's organization, our members – Swedish farmers – and an external reference group consisting of experts and researchers.



↑ **Farming of the Future report: Beef & Dairy** was published in 2021 and shows the journey towards more sustainable and competitive beef and dairy production, with reduced climate emissions in line with the goals of the Paris Agreement. Livestock farming and crop cultivation are interlinked systems and the report aims to further strengthen synergies, increase sustainability and strengthen food supply in Sweden. The report is based on a collaboration between the Federation of Swedish Farmers (LRF), Arla, HKScan, Yara, DeLaval, Svenskt kött, Växa and Lantmännen.



# FARM OF THE FUTURE

BJERTORP | SVALÖV | VIKEN

At Lantmännen's Farms of the Future, new cultivation methods, plant breeding, new technology and data collection are tested and evaluated to realize the vision of Farming of the Future. On the farms, stakeholders in the agricultural and food industry can meet, be inspired and exchange knowledge with each other to create thriving farming together.

Together, our Farms of the Future provide a picture of how productivity, resource efficiency and measures for the environment can be developed in order for us to achieve sustainable and profitable farming of the future. Here, we also test research and theory in practice to develop new cultivation methods adapted to Nordic conditions.

During 2023, operations at the three Farms of the Future have been further developed, and more visitors than ever have visited them to see examples of Farming of the Future in practice.

“Bjertorp was launched in 2020 as the first of Lantmännen’s Farms of the Future, showcasing cutting edge methods in farming with regard to productivity, profitability and sustainability. Our Farms of the Future are receiving more attention, with more visitors coming to see what we have to offer on site. It is a unique opportunity to meet and create interest about the opportunities in Swedish agriculture.”



Elisabeth Ringdahl  
Executive Vice President  
Lantmännen Lantbruk



# BJERTORP

FARM OF THE FUTURE

At the Farm of the Future Bjertorp, crop cultivation is carried out with seed production and field trials. Here we strive to optimize cultivation systems, increase productivity, and reduce climate impact. On the farm, we use the latest methods and machinery and work to increase carbon storage and develop the soil organic matter.

## → Soil health and soil compaction

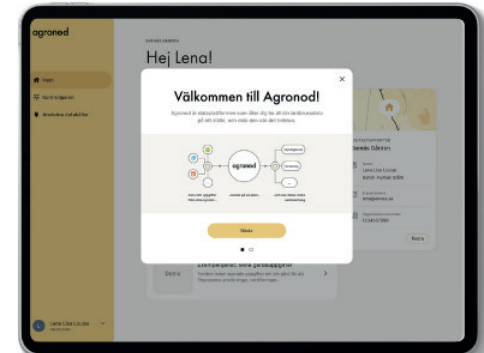
At Farm of the Future Bjertorp, a number of research projects with external partners are underway, including a project in partnership with the Swedish University of Agricultural Sciences (SLU) which is investigating how soil compaction affects soil health. Soil compaction, which has negative consequences for crop production, occurs when the pressure load from agricultural machines exceeds the strength of the soil. Soil moisture can be measured with the aid of water content sensors, and when combined with information about the soil type, the strength of the soil can be calculated. The results can form the basis for choosing the right machine at the right time and minimizing the risk of soil compaction. The results from the project will be presented in 2025.



## → Arena for the agricultural and food sector

Farm of the Future Bjertorp, welcomes visitors who are interested in the latest in sustainable crop cultivation applied in practice. During the year, work on developing the premises and programs for visitors continued. This year, over 650 visitors came to the farm to experience the latest within Farming of the Future and Lantmännen's cultivation program Climate & Nature.

650+ visitors



## ↑ Climate calculation at a detailed level

In 2023, information and data were collected about the farm's fuel consumption, fuel type, amount of fertilizer used, energy use for threshing and drying and several other factors. With the help of the new climate calculation tool Agrosfär, carbon dioxide emissions are calculated based on actual data, rather than standard values that are often used for climate calculations. As part of the work, Lantmännen in partnership with Yara is carrying out a fertilization strategy project where the latest knowledge and technology in the field are tested and calculated to achieve the lowest possible climate impact on the farm.





# VIKEN

FARM OF THE FUTURE

Farm of the Future Viken, is Lantmännen's own dairy farm with 475 dairy cows, 450 heifers and calves, as well as 365 hectares used for crop cultivation, mainly grassland. On the farm, we test Farming of the Future in practice and drive the development toward sustainable and productive dairy production.

## + Feed trials to further reduce climate impact

During the spring, feed trials were carried out at Farm of the Future Viken, to see how different feed compositions can be used most effectively. The trials investigated which nutritional parameters should be considered, at what levels and in what amounts. This with the aim of reducing the climate impact further, without affecting the milk production or health of the animals. Since the launch of SMART feed in 2015, it has been possible to reduce the climate impact from the feed by between 5-20 percent, maintaining the same high quality and productivity. In addition to this, the SMART feed has other positive effects by utilising more domestically produced ingredients. This means both reduced transports in the value chain and Sweden being able to become more self-sufficient.



During the year, Farm of the Future Viken, has received many visitors who have seen how the farm uses the latest technology and methods in livestock farming, with good animal health and animal welfare.

New  
feed  
trials



# SVALÖV

FARM OF THE FUTURE

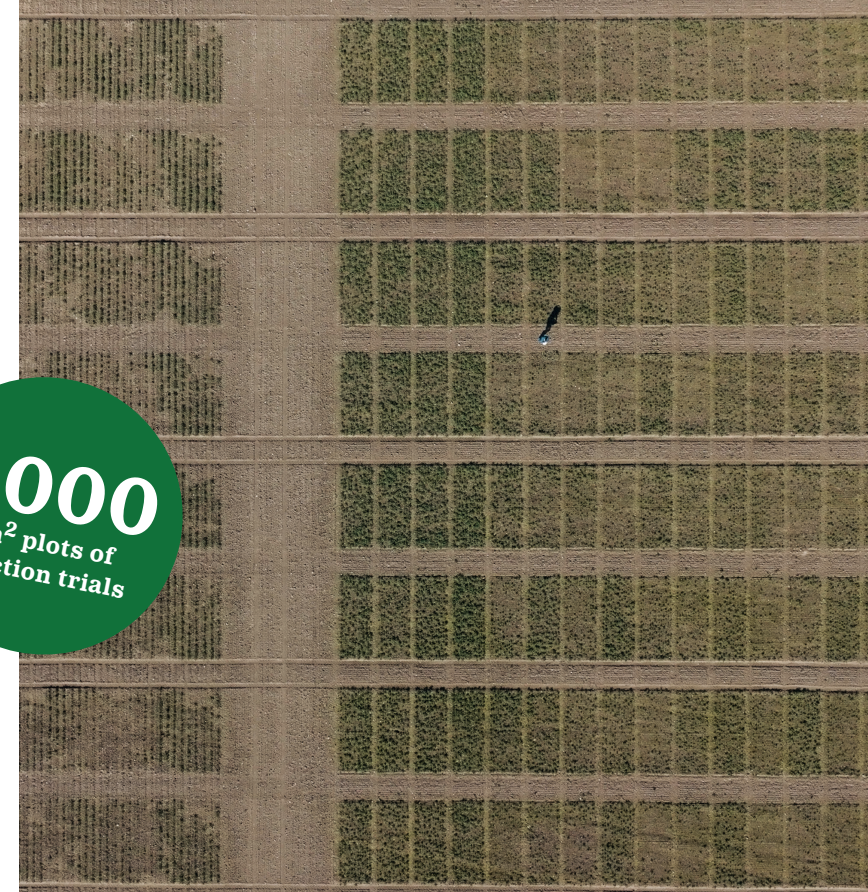
At Lantmännen's Farm of the Future Svalöv, plant breeding and multiplication of new plant varieties are carried out. The work at Svalöv has a long history, with Svalöv being Sweden's centre for cutting-edge plant breeding since 1886.

## → World-leading technology for plant breeding

During the year, a new ground-breaking plant breeding facility was put into full operation, where world-leading technology is used for fast and precise development of crops. Nine new growth chambers have been installed, where environmental factors such as temperature, day length and light are controlled to breed new plant varieties. In a state-of-the-art lab, large amounts of genomic data are tested and analyzed. New varieties with desirable characteristics are selected, tested and then multiplied on 200 hectares with more than 100,000 test plots. For example, characteristics that result in higher yields with less inputs, more drought-resistant crops and increased disease resistance.



8 000  
1 m<sup>2</sup> plots of  
selection trials



At Farm of the Future, Svalöv, there are 500 populations in selection plots, between 45,000 to 50,000 ear rows of grain, 8,000 small parcels of 1m<sup>2</sup> and around 1,200 lines in yield trials.

## + Precision farming of peas

Farm of the Future Svalöv is a modern farm using the latest precision farming technology. During 2023, "Project Svalöv" has focused on precision farming of peas. Since 2019, the project has evaluated various precision cultivation strategies for a number of different crops. Through films people can take part in the different steps, from planning to follow-up after harvest. The aim is to provide farmers support and tools for a more resource-efficient and productive cultivation. The results from the cultivation of peas will be evaluated and presented in 2024.



Plant breeding has been taking place at Svalöv since 1886.

# Offers throughout the value chain

Reducing climate impact while simultaneously strengthening profitability and productivity is ongoing in every part of Lantmännen's operations. The more Lantmännen makes sustainable products and services more accessible, the easier the transition will be for farmers, other companies in the value chain and consumers.



## ← Increased share of recycled plastic

Together with our supplier, Trioworld, we have now increased the number of products containing 30 percent agricultural recycled plastic\*. In 2023, recycled plastic has been used in more than one million bale wraps all over Sweden. Lantmännen will be taking a further step on the joint journey next season when even more products will contain at least 30% recycled material, resulting in a reduced climate impact on the farms and an increase in the recirculation of resources.

\*Read more about plastic bale wraps on Trioworld's website.



Lantmännen's chairman of the board Per Lindahl, the Minister for Rural Affairs Peter Kullgen and Östergötland's Governor Carl Fredrik Graf taste wheat protein at the inauguration in Norrköping.

## → Green proteins of the future

In 2023, Lantmännen Biorefineries inaugurated its new production facility for extraction of wheat protein in Norrköping, Sweden. With a marked increase in production capacity, Swedish food production is strengthened and the industry's increasing demand for ingredients for green protein alternatives can be met. The production facility has involved an investment of SEK 800 million.

## + Transition to renewable fuels

During the year, Lantmännen held several machine meetings and offered test drives to increase knowledge among farmers who want to change their machinery. Renewable fuels have been a focus area during 2023 and now work in many machines in Lantmännen Machine's product portfolio.



## + A more SMART Farming

Lantmännen has further developed the initiative SMART Farming during the year, where we work to make new technology and knowledge available to strengthen productivity and resource efficiency on our members' farms.

## + More sustainable feed for pigs

Lantmännen has this year launched a new piglet feed range with a higher content of vitamins and even more amino acids. We have also started work on replacing fish meal in our feeds, which will reduce the impact on the environment and climate.



**CLIMATE  
& NATURE**

**Lantmännen's program  
for farming of the future**

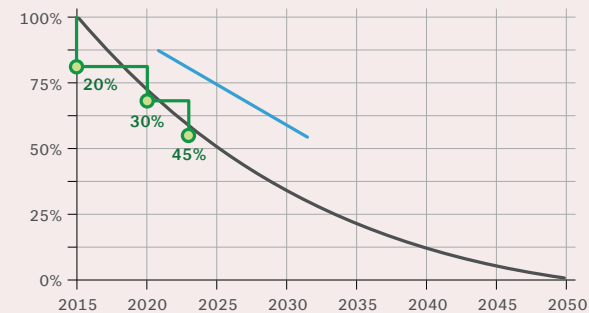
## Climate & Nature is Lantmännen's cultivation program for Farming of the Future containing concrete measures that reduce climate impact and benefit biodiversity.

With the program's measures, the climate impact from the cultivation of winter wheat has decreased by up to 45 percent compared with conventional cultivation 2015, while creating more favourable conditions for both skylarks and insects. Oats, rye and barley are also grown within the program with the same positive results. The program is dynamic and continuously developed in order to apply the latest knowledge and technology.

With more and more food companies joining the Science Based Target initiative (SBTi), the cultivation program means a great opportunity for Swedish farming. The climate impact from wheat cultivated within the program is already in line with the scientific climate targets for 2030 – minus 36 percent between 2020 and 2030 for wheat according to SBTi FLAG (Guidance for Forest, Land & Agriculture).

### Climate & Nature is reducing emissions in line with the Paris Agreement and SBTi

Climate impact CO<sub>2</sub>e (%)



- Reduction rate for climate impact, according to the Paris Agreement
- Reduced climate impact from wheat cultivated, according to Climate & Nature
- Reduction rate of climate impact for farming, according to SBTi FLAG

**Figure 3.** Reduced climate impact from Climate & Nature cultivation, calculated per tonne of winter wheat.

↓ **We are now establishing a fossil-free value chain for food**

Fossil energy use within the cultivation has gradually decreased since the cultivation program Climate & Nature started in 2015. We are now adding a crucial piece of the puzzle – fossil-free mineral fertilizer – and enabling what is likely to be the world's first, large-scale, fossil-free production of food.

**Our measures**

**Fossil-free plant nutrition:** From 2023, fossil-free fertilizer was introduced as a measure within Climate & Nature – a result of the collaboration with the world-leading fertilizer company Yara.

**Fossil-free field work:** Fossil fuels in tractors and combine harvesters have been replaced with renewable fuels. This has been a measure in the Climate & Nature cultivation programme since 2020.

**Fossil-free transport, drying and milling of grain:** Lantmännen has long worked to phase out fossil energy sources throughout the grain value chain, from field to fork.



Lantmännen på plats i Porsgrunn i Norge, där Yaras fossil-fria gödsel produceras.

→ **Record-breaking rye harvest in Finland**

The Climate & Nature cultivation program has also been rolled out in Finland and this year's Finnish rye harvest hit a new record. Since August 2023, the first rye bread from the program has been available in Finnish stores. All crispbread and the soft Ruispalat bread from Lantmännen now have less climate impact from the cultivation.

↓ **Chicken feed part of Climate & Nature**

Lantmännen's product brand Pullfor, feed for chickens, is now joining Climate & Nature. Grain grown according to the program is now becoming part of our feed, which is a composition of high-quality ingredients. As before, KRAAFT's horse feed also has the Climate & Nature labelling.



→ **Spendrups increases their volumes**

Spendrups has been a partner in Climate & Nature since 2022. In 2023, the volume grown for Spendrups within the program increased to 8,500 tonnes. In addition to the brand Spendrup's Signature, the entire volume of the Mariestads brand is now also part of the program, which includes approximately 50 million litres of Mariestads beer annually.



Foto: Mariestads

“With the cultivation program Climate & Nature, we can create an even more sustainable food production together with our contracted rye farmers. Rye is in the DNA of every Finn, and rye bread has been named Finland's national dish. Therefore, we are very happy to now be able to offer a more sustainable rye bread for Finnish consumers.”



**Tuomas Mantere**  
Chief Operation Officer  
Lantmännen Unibake Fresh BA



Since 2015, Lantmännen's own consumer brands have gradually converted to Climate & Nature-grown grain. Today, approximately 73 percent of all flour and approximately 44 percent of all oats from Lantmännen Cerealia are labelled with Climate & Nature. This corresponds to a volume of around 20,000 tonnes of wheat and 8,000 tonnes of oats.



### ↑ Semper new partner in the program

In 2023, the baby food company Semper joined Climate & Nature. Lantmännen Cerealia has been a supplier of grain to Semper for a long time. For example, their gruel and porridge contain oats, wheat and rye. During 2023 we have grown the three types of grain according to Climate & Nature together with Semper. Semper has thus been able to raise two entire product ranges to a more sustainable level.

### ↓ Stjärnäggs new feed partner in the program

Stjärnagg, Sweden's biggest egg supplier, has now joined Climate & Nature. Fossil-free grain cultivation and concrete measures to benefit biodiversity will contribute strongly to their ambitious sustainability goals. Stjärnagg is a driving force in the sustainable transition of the egg industry.



#### More partners



## Climate & Nature effect:

Harvest:	2023	Since 2015
Grain in the cultivation programme in total	145 500 tonnes*	713 600 tonnes
<b>Climate benefit:</b>		
CO <sub>2</sub> e saved	11 400 tonnes	49 200 tonnes
Equivalent round-the-world flights	5 190	22 360
<b>Biodiversity:</b>		
Sky lark plots	24 700	
Flowering zones	4 128 840 m <sup>2</sup>	
Together equivalent number of football pitches	650	

\* Volume calculated by contracted hectares, 22,000 hectares, and average yield per hectare.

“Climate & Nature is for me, as a farmer and a member of Lantmännen, an important contribution to more sustainable farming. Those of us who grow according to the program, the companies who choose to join and all the consumers who choose the products all contribute to a positive change in Swedish farming.”



Anna Danielsson  
Head of Agriculture  
Högstads gods

# Collaboration drive the transition

More sustainable and profitable farming can only be achieved through collaboration throughout the entire food value chain. Lantmännen has established numerous partnerships where the aim is to develop knowledge, new methods and new offers together with other companies, researchers and societal actors. Here we describe some collaborations in 2023.

## → EU's CAP Directors at Farm of the Future, Svalöv

On the 30th of May, the EU's CAP Directors visited Farm of the Future Svalöv, as part of the EU meeting in Malmö during the Swedish presidency. The CAP-Directors are responsible for the national implementation of the EU's agricultural policy in each Member State.

During the visit, Lantmännen demonstrated how modern agriculture with the latest precision farming technology can meet sustainability challenges with high productivity, profitability and reduced climate impact. The world-leading plant breeding facility and the possibilities it opens up for the future, as well as the historical role of plant breeding, were also highlighted.

In a panel discussion during the afternoon, speakers from Sweden participated - such as the Swedish Board of Agriculture, the Federation of Swedish Farmers (LRF) and the Swedish University of Agricultural Sciences (SLU), as well as representatives from the European Commission, the upcoming Spanish Presidency and Lantmännen's partner Yara.

Some of the issues that were raised in the panel discussion were plant breeding, the implementation of new technology as well as skills provision and young people's engagement and interest in agricultural issues. The farm visit was very much appreciated and creates the conditions for Lantmännen and Sweden to push forward important agricultural issues within the EU.



EU's CAP-Directors visit Farm of the Future Svalöv.



Panel discussion about Farming of the Future.



### ➔ Tillväxtbolaget invests in Swedish agriculture

During 2023, Tillväxtbolaget expanded its operations. A total of SEK 220 million has been lent to nearly 80 customers for sustainable investments on farms in Sweden. Tillväxtbolaget offers loans to Swedish agricultural companies that want to make sustainable investments. Through top-up funding that complements other investments, future investments on the farm become possible, for example investments in livestock production and crop cultivation.



### + Dataväxt collaboration with Bayer

The company Dataväxt, in which Lantmännen is a part-owner, offers digital crop cultivation services. With a solution that combines satellite images with advanced algorithms, their tools can advise on exactly what the crops need. Now, Dataväxt and the crop protection producer Bayer have started a collaboration based on a common vision to further develop farming of the future. Together, they will bring new solutions and tools in precision farming to the Nordic market.



### + Partnership for Swedish production of mineral fertilizer

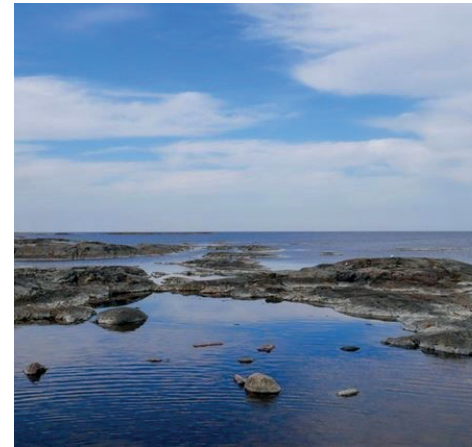
Fossil-free production of fertilizer is a prerequisite for making farming climate-neutral. At the same time, fertilizer is a commodity that is imported to Sweden in large quantities. Therefore, Lantmännen is a partner in a project with the Spanish fertilizer producer Fertiberia, which plans to build a facility with a production volume of approximately one million tonnes of mineral fertilizer annually. This roughly corresponds to the total amount needed in Sweden. With a Swedish production of fossil-free fertilizer, a sustainable transition is made possible and the Swedish degree of self-sufficiency increases.

### ← Agronod collects climate data from the farm

In 2023, Agronod launched the tool Agrosfär which enables farm-specific, detailed climate calculation. Agronod has also grown with new employees and more owners during the year. Agronod's data platform contributes to simple and secure sharing of Swedish agricultural data with the aim of strengthening profitability, sustainability and growth within Swedish farming and food production. Lantmännen is one of the owners.

### ↓ Baltic Stewardship Initiative

WWF, the Federation of Swedish Farmers (LRF) and Lantmännen have been running the joint project Baltic Stewardship Initiative and this year have put together the final report for the multi-year collaboration. Together, the actors have worked to promote more sustainable methods in agriculture that reduce nutrient leakage into waterways, lakes and oceans and increase the circulation of plant nutrients.



### ↑ The food industry agrees on a roadmap for sustainability

The fifteen companies that are members of Hållbar Livsmedelskedja [Sustainable Food Chain] have collaborated with WWF to set common goals for climate, biodiversity, resource efficiency, animal welfare and human rights. This year, the results of the work were presented in the roadmap **The Swedish handshake for a sustainable food chain** with the aim of a joint change in the industry as early as 2030. Lantmännen has been a driving partner in the work.

“With The Swedish handshake for a sustainable food chain, there is now a consensus among leading food companies in Sweden on how the transition to sustainable production should take place. It is unique and provides very good conditions for the future. The fact that we cooperate is absolutely crucial for our success.”



Martin Thilander  
Country Managing Director Sweden  
Lantmännen Cerealia

# More partnerships in the value chain

HKSCAN

FORMAS



SWEDEN  
FOOD  
ARENA

NitroCapt



agroned  
LANDBRUKETS DATAPLATFÖRM



Fossilfritt  
Sverige



Svensk  
Kolinlagring

VÄXA

Jordbruks  
verket

Hushållnings  
sällskapet



Nordic Oats

energifabriken





# On the road to Science Based Business - time to scale up

In 2023, the food industry is more united than ever on the issue of sustainable food production. There is now a consensus on what is required in the joint roadmap – The Swedish handshake for a sustainable food chain – signed at CEO level by several of Sweden's largest food companies. Many food companies have also had their goals approved according to Science Based Targets, which means that they undertake to work together with the climate challenge throughout the value chain. At the time of writing, an updated Food Strategy is on the way from politicians. This is definitely welcome news.

We are also seeing more examples of initiatives from various actors that are enabling the green transition of farming. There are also powerful tools for transition that work in practice. During the year, Lantmännen launched a fossil-free value chain for food production when green

mineral fertilizer was introduced into the cultivation program Climate & Nature.

We have been actively working on defining the term fossil-free through guidelines for the industry, coordinated by the Sigill quality system. The conditions for a large-scale implementation of a fossil-free food chain are starting to fall into place. In the Yearbook, you can read about many other examples of progress in Farming of the Future.

But the transition of food production is currently too slow and time is critical. Decisions made now determine how close we will be to reach the goals for 2030. A rapid upscaling of the fossil-free opportunities available on the market is needed, something that requires courageous decisions from leaders in the food industry. Lantmännen calls it the implementation gap – solutions are

available, but not implemented. Mostly because the business conditions are lacking.

We live in challenging times. This year's food inflation and, at the same time, weather conditions that have adversely impacted the harvest negatively, create problems in various parts of the value chain. It is a tough situation for both consumers and farmers. It is important that, while we now manage and parry short-term challenges, we still remain on course towards the long-term goals.

Another area to work on going forward is the innovation gap. We know what the solutions look like for the transition to 2030, but to achieve full-scale climate neutrality by 2050, more research and development is required. As we have shown in this yearbook, Lantmännen is working in many ways to address this.

Farming of the Future is in constant development. More value chains are being included, new projects are launched and new collaborations are being initiated. Within the cultivation program Climate & Nature, we are welcoming more partners while also developing new criteria in a toolbox that creates flexibility for how farms can benefit biodiversity, with increased consideration of the local context. We hope that 2024 is the year when good intentions based on scientifically based targets are translated into scientifically based actions. Cooperation throughout the value chain is necessary to create the conditions for Farming of the Future.



**Claes Johansson**  
Director Sustainable Development  
Lantmännen



### **About Lantmännen**

Lantmännen is an agricultural cooperative founded on the in-depth knowledge built up through generations of farmers. Based on farmland and operations throughout the value chain, we are there all the way - from sowing to harvest to the food on our tables, feed for our animals and climate efficient biofuels.

Together we take responsibility from field to fork.