Kane County
KC Agriculture Committee
Agenda

Government Center
719 S. Batavia Ave., Bldg. A
Geneva, IL 60134

JUBY, Roth, Allan, Lenert, Penesis, Sanchez, Williams and ex-officio Pierog (County Chair)

Thursday, January 22, 2026 **10:30 AM** **County Board Room**

2026 Committee Goals

1. Farmland Protection
Oversee the implementation of Kane County's Farmland Protection Program, working in concert with the Farmland Protection Commission, with a focus on increasing total acreage preserved for farming, improving access to farmland for future generations, and exploring new conservation strategies.

2. Growing for Kane
Direct activities aligned with the Growing for Kane Program that support Kane County's food growers with funding, technical expertise, and policy improvements to make healthy, locally grown foods more accessible.

3. Funding Advocacy
Advocate for funding to advance initiatives that support farm businesses and farm practices that strengthen Kane County's agricultural sector.

4. Staff Oversight
Provide oversight of County staff administering projects and programs that address the needs of farmland preservationists, agricultural businesses, food assistance organizations, and residents with limited access to fresh grown foods.

5. Raising Awareness of Agriculture
Raise community awareness of the value of agriculture in Kane County for providing economic benefits, opportunities for land stewardship, a sustainable source of healthy foods, and maintaining a historic rural heritage.

---

1. **Call To Order**
2. **Roll Call**
3. **Remote Attendance Requests**
4. **Approval of Minutes: December 18, 2025**
5. **Public Comment**
6. **Partners**

A. Kane County Farm Bureau Updates (Steve Arnold, Manager)

B. Kane-DuPage Soil and Water Conservation District Updates (Kat Gerdts, Administrative Coordinator)

C. Northern Illinois Food Bank Updates

7. Presentations/Announcements

A. Farmland Protection Program Update (Sarahy Castro, Farmland Preservation Administrator)

B. Growing for Kane Project Summary and Consultant RFQ (Matt Tansley, Planner)

8. New Business

A. Chicago Tribune: Livestock Methane Article, Author- Adriana Perez

9. Reports Placed On File

10. Executive Session (if needed)

11. Adjournment

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

PRESENTATION/DISCUSSION NO. TMP-26-101

KANE COUNTY FARM BUREAU UPDATES (STEVE ARNOLD, MANAGER)

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

PRESENTATION/DISCUSSION NO. TMP-26-102

KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT UPDATES (KAT GERDTS, ADMINISTRATIVE COORDINATOR)

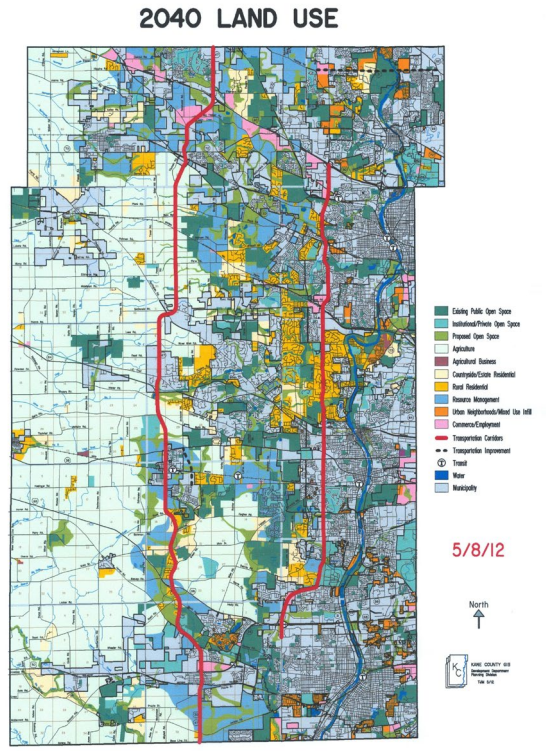
Kane-DuPage Soil & Water Conservation District

Kane County Ag Update

January 2026

Natural Resource Inventories *last month*

Proposed land use changes with acres of disturbance



- Solar Farms
  - Ag to Solar: Francis Rd, Maple Park = 45 acres
  - Ag to Solar: Brier Hill Rd, Hampshire = 10 acres
  - Ag to Solar: Read Rd, Maple Park = 15 acres
  - Ag to Solar: Powers Rd, Huntley = 30 acres
  - Ag to Solar: Jericho Rd, Sugar Grove = 79.07 acres
  - Ag to Solar: Norris Rd, Aurora = 34.46 acres
- Data Centers
- Residential
  - Ag to Single Family: Chandolin Ln & Amarillo Blvd, Elgin = 87 acres
- Commercial
  - Vacant to Storage Depot: Rt 20, Pingree Grove = 8.6 acres

USDA FSA Accepting Applications for 2nd Stage of Crop Disaster, Milk Loss and On-Farm Stored Commodity Loss Assistance **OPEN**

USDA's Farm Service Agency (FSA) is now accepting applications for assistance through the 2nd stage of the Supplemental Disaster Relief Program (SDRP) as approved by Congress, from agricultural producers who, due to qualifying natural disasters in 2023 and 2024, suffered eligible:

- non-indemnified, uncovered or quality crop losses
- dump or remove milk
- losses of farm stored commodities

Deadline April 30, 2026

I-Cover RCPP – OPEN SOON

The Bureau of Land & Water (BLWR) online state-wide sign up for cover crop implementation

- 3-year commitment will be required for seeding cover crops in 2026, 2027 and 2028
- Only fields never planted with a cover crop (unless a new technique or method for earlier establishment is utilized) will be eligible
- The selection and approval process will be completed by IDOA
- SWCDs will work with selected applicants to confirm program eligibility, plan, implement, verify and provide financial payments for completed cover crop practices
- Additional guidance and details coming soon

IDOA Climate Pollution Reduction Grant (CPRG) **CLOSED**

- $430 million to reduce greenhouse gas emissions
- $67 million for No-Till / Strip Till Practices
- Funds distribute June/July
- 300 applicants state wide for approx. 644,000 acres
- 3 Kane County applicants
- Awaiting participant announcement

Cover Crop Premium Discount Program
CLOSED

- Approved applicants will receive a $5/acre insurance premium discount on the following year's crop insurance invoice for every acre of cover crop enrolled and accepted in the program

USDA NRCS Regenerative Ag Pilot Program

Highlights regenerative practices within the EQIP ($400M) and CSP ($300M) programs

Requirements:

- Whole Farm Assessment – complete assessment of all resource concerns with the goal of establishing a whole farm plan
- Primary Practices – at least one primary regenerative management practice must be included in the contract
- Soil Testing – participants must agree to perform soil testing in the first and last years of the contract (at minimum) to establish a starting baseline and to record resulting changes.
- Minimum contract length – 5 years
- Land uses: crop, pasture and forest

Practices:

- Conservation Crop Rotation
- Contour Farming
- Contour Orchard & other perennial crop
- Cover Crop
- Drainage Water Management
- Forage Harvest Management
- Forest Stand Improvement
- Irrigation Water Management
- Mulching
- Nutrient Management
- Pest Management Conservation System
- Prescribed Grazing
- Residue & Tillage Management, no till
- Residue & Tillage Management, reduced
- Stripcropping

CLOSED

Illinois Healthy Soils Initiative

- Public Act 103-0494/SB 1701 passed in 2023
- Framework for IDOA and SWCDs to
  - promote farmer adoption of healthy soil methods through technical assistance and cost-share, not mandates
  - use assessment tools (digital: STAR Tool, Web Soil Survey & physical measurements)
- Aligns with the Nutrient Loss Reduction Strategy (NLRS) to improve water quality and farm resilience
- District soil assessment reports due to IDOA annually starting September 2026

KANE COUNTY, ILLINOIS
ESTABLISHED JANUARY 16, 1836

Farm Weatherization Rebate

<u>Rebates Issued as of 1/5/26</u>

$500 = 1

$800 = 2

TONIGHT

5pm @ Emerald Acres

Keynote Speaker:

Jim Stute

farmer & independent research agronomist

"Rural Mythbusters:

conservation practices *can* have a positive ROI

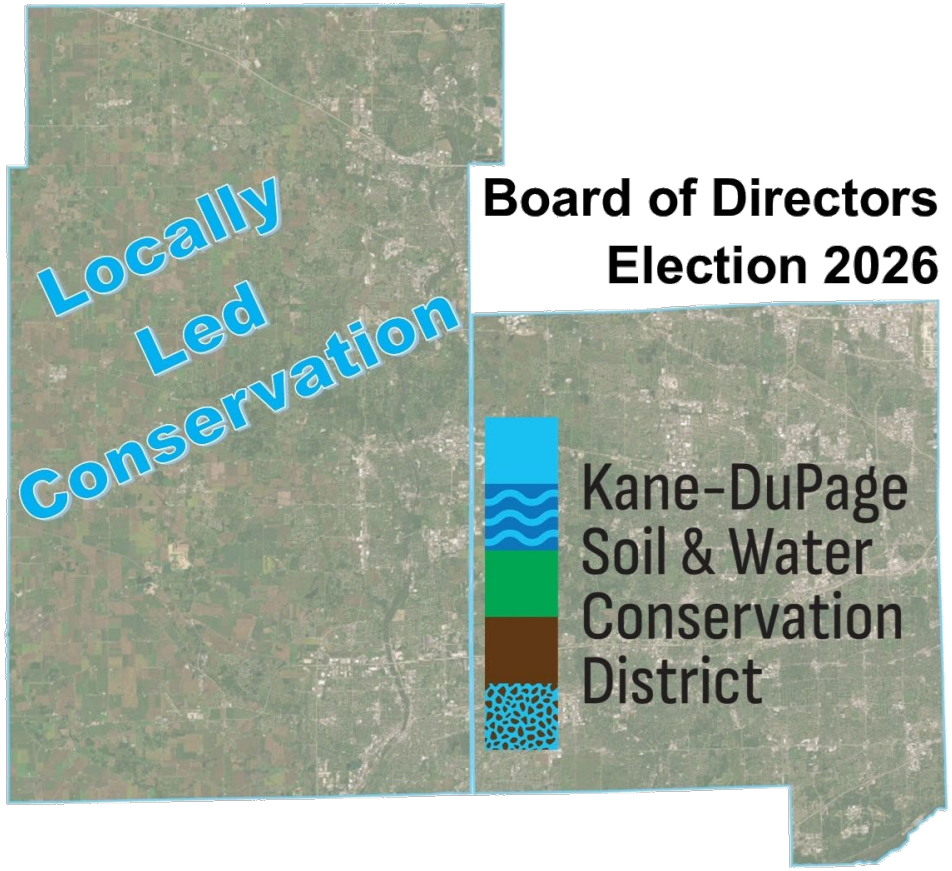
BBQ dinner included

Complimentary

32 registered as of 1/16/26

Election Day = Tuesday, February 10

- 3 seats
- Polling places:
  - KDSWCD office 2315 Dean Street, Suite 100, St Charles, 7am – 5:30 pm
  - DuPage County Farm Bureau, 245 S. Gary Avenue, Carol Stream, 8am – 4pm
- Voters must be of legal age & own/occupy land within KDSWCD boundaries



STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

PRESENTATION/DISCUSSION NO. TMP-26-103

NORTHERN ILLINOIS FOOD BANK UPDATES

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

PRESENTATION/DISCUSSION NO. TMP-26-105

FARMLAND PROTECTION PROGRAM UPDATE (SARAHY CASTRO, FARMLAND PRESERVATION ADMINISTRATOR)

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

PRESENTATION/DISCUSSION NO. TMP-26-106

GROWING FOR KANE PROJECT SUMMARY AND CONSULTANT RFQ (MATT TANSLEY, PLANNER)

Growing for Kane

Program Update & Consulting RFQ

Kane County Agriculture Committee
January 22, 2026
Matt Tansley, Planner

Growing for Kane Projects & Services

(supported by contractors)

Active & Ongoing

- Soil Health & Economic Impact Assessment (**NVA**)
- Farming with Pollinators (**EK**)
- Land Transfer Navigator (**EK**)
- Grant Writing (**EK**)
- Georgetown Consulting Project (**EK**)

Wrapping up / Completed

- USDA Urban Agriculture Grant Program (**U of I Ext.**)
- Food & Farm Resiliency Grant Program (ARPA funded) (**EK**)
- FPP Training & Transition (**EK**)

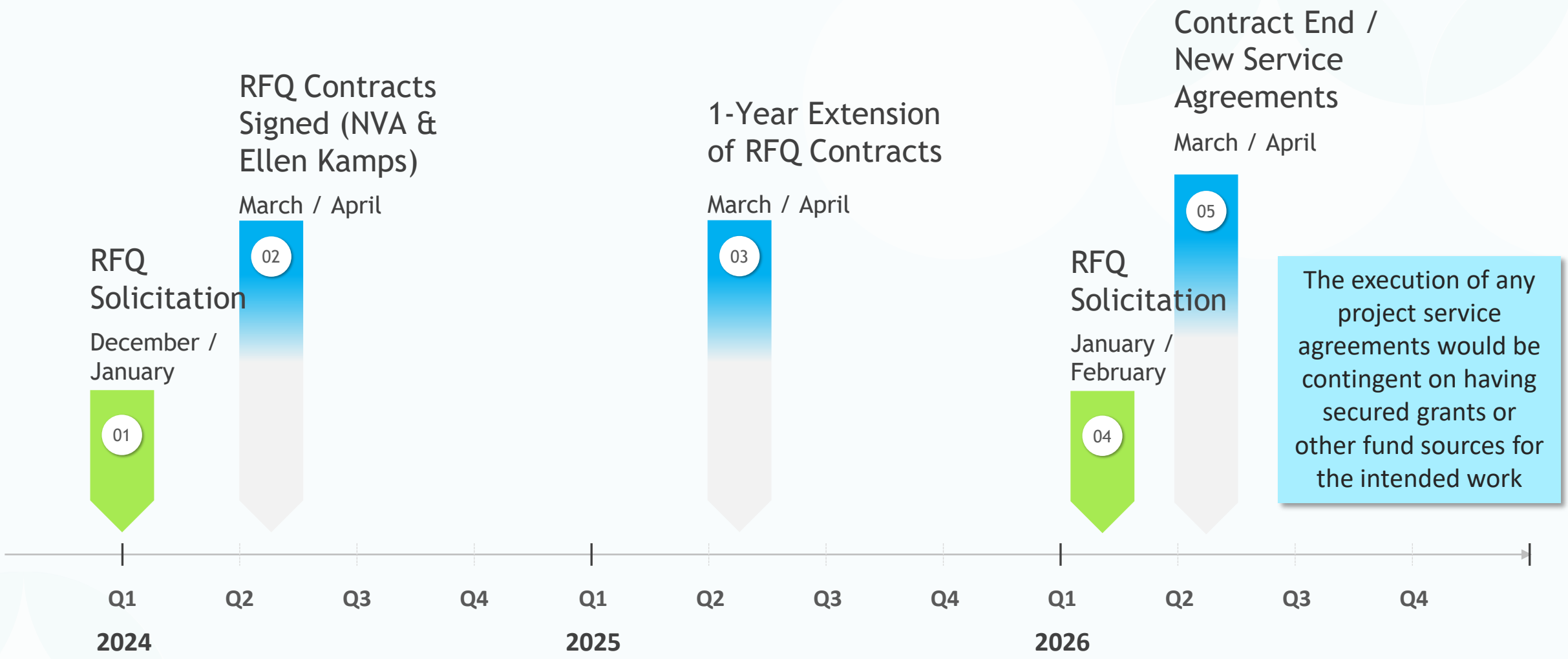
Consulting Teams: Ellen Kamps (**EK**), New Venture Advisors (**NVA**), University of Illinois Extension (**U of I Ext.**)

Consulting Team Contract Status

Ellen Kamps	Contract end date: March 28, 2026 (includes 1-year extension)
New Venture Advisors	Contract end date: April 2, 2026 (includes 1-year extension)
University of Illinois Extension	Contract end date: June 30, 2026

Consultant Request for Qualifications

Schedule of RFQ Openings And Contract Activity



STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

PRESENTATION/DISCUSSION NO. TMP-26-107

CHICAGO TRIBUNE: LIVESTOCK METHANE ARTICLE, AUTHOR- ADRIANA PEREZ

Even methane-belching cows can be part of climate solution

Sustainable, innovative practices can offer wins in fight against warming

Abigail, left, and oldest sister Lexi and Dean in a shower of confetti after the Lakeside Holsteins were named the All-American Junior Dairy Herd at the World Dairy Expo in Madison, Wis. on Aug. 29. The Lakeside's 180 Holstein cows are housed in a free-stall barn with automated milking machines. (Jeffrey Phelps/The Associated Press)

Cows can spend over eight hours a day regurgitating their cud and digesting it to chew again. As bacteria break down food in a cow's stomach, they produce methane, a greenhouse gas that is 28 times more potent than the pair of a natural cycle as the gas is returned to the atmosphere. Scientists say that's why the carbon dioxide after 12 years in the atmosphere.

This means the greenhouse gas is "created, and destroyed on a decadal, if called a relatively, similar rate," said Rob McCann, associate professor of agricultural economics at the University of Illinois Chicago, who has done research into nutrition for beef cattle. "And yet, our methane emissions from cattle are not going down. It is increasing very quickly."

"That cycle doesn't exist in a bubble. And that we know a lot about methane and how significantly increases," said John Terrell, director of sustainability at Cargill, a leading methane-reducing feed supplement Bovaer to feed. These other sources include land used to grow feed, as well as fuels and cultures, as well as waste from landfills and wastewater treatment.

Another source that requires methane-laying cows is the fuel used to grow their feed. Cutting down a forest to clear cropland, Tarasi said, which people use to grow "as long as the methane coming into the atmosphere is equal to the methane coming out of the atmosphere," he said. "And so that's the ballpark — we're all on the world is five."

"The problem is, we don't have an issue from cow [methane] coming into the world, [as the] cow is a natural part of the carbon cycle," said Terrell. "It's not that we're adding to the global budget, the global outcome of methane, it's not increasing. We have way too much."

Atmospheric methane concentrations have more than doubled since the Industrial Revolution, contributing to a third of global temperature increases since the Industrial Revolution. Most of the methane in the atmosphere — about 50% is from agriculture, 35% from oil and gas production and 20% from landfill waste.

President Donald Trump's U.S. Environmental Protection Agency announced last November it would repeal the Biden-era rule that limited oil and gas industry methane emissions. Earlier in September, the agency proposed a new rule to roll back requirements that companies find and repair methane leaks, which it says are a prohibitive greenhouse for more waste.

At a time when the federal government is loosening regulations across methane-emitting industries, Terrell said, it's important to look at practical solutions in agriculture.

It's not that cows are the issue, McCann said. But dairy and beef cattle are among the biggest methane emitters because they're ruminants, which means they digest their food in a unique way.

A global pledge to reduce methane emissions from livestock by at least 30% from 2020 levels over the next decade was signed by more than 150 countries at a COP26 climate conference — which is the aim of carbon neutrality — and discussed ensuring the world by 2030 to 2050.

"We can't wait for goals of reducing methane if we don't have practical approaches to the methane," Tarasi said.

Some dairy and beef producers are finding that committing to more sustainable practices that reduce methane or capture other additional gases, like carbon dioxide, can be profitable. Some of activities on their land, making cattle as pastures and affording diverse diets are inter- and intra-species interactions that can be profitable and make their animals happier.

For instance, a rotational grazing method offers Doug Hansen's cows a variety of food throughout the year. A fourth-generation beef producer from Hansen, Ill., about 200 kilometres south of Chicago, Hansen has been employing the method for 20 years. It earned him the Bayer Corteva Seeds 2021 Environmental Steward of the Year award.

On a recent weekday, his herd quietly grazed on a paddock of perennial grasses, some of which he planted a couple of years ago, orchard grass and fescue. Hansen's cows are Angus, Angus-Simmental and Angus-Hereford crosses. Each day, he interspersed with seasonal ones that has cover crops. The cows are moved to a new paddock every 12 hours, and he says they're happier.

"As we move through there, you'll see that they are all different," he said, plotting a utility vehicle past a pasture planted recently with alfalfa. "Cows are like humans, they don't like to be in a pasture."

Instead of feeding the animals grain, he feeds the cows a diet of grass, which he says is better for grazing, directly feeds to the cow and produces high-quality meat, which Hansen's family sells to the Whole Foods Market Global Meats Division, under a brand.

"I've had a lot of customers like, 'This is the best meat we've ever had.' Or like, that no other [farm] can possess," he said.

Hansen also spreads his cattle's manure as fertilizer. Alongside the cover crops and the rotational grazing, it helps to build the soil and nutrient availability across all his pastures, compared with that of filled, single-crop farmland or overgrazed, rich grassland.

"You can go to most of what Mother Nature already put in the ground," he said.

By nature, cows are going to do what they're going to do, and produce methane, Tarasi said. But he approaches the Holsteins and Jerk's cohorts in the ground, offering that environmental impact — and the ones that are raised in feedlots, where the biology experiment in between feedings, which improves fertility and water retention.

To make up the part of the solution to greenhouse gases, experts say, industry and governments must also look at other ways to manage fossil-fuel production.

Fighting methane with feed and poop

At a state-of-the-art dairy farm in Charlotte, Mich. — about 400 kilometres from Hansen's — the cows have names like "Kiara" that she does.

As is industry standard by now, the Lakeside Dairy's herd is outfitted with a nutritious rich with the farm every month to ensure the best, most balanced diet. Each cow wears a collar with a tag, a pedometer, backup and optional ones, each complemented by jacks and its episodes to learn. Automated milking machines, which are cleaned, robot-refuelled, and scraped every 12. In contrast, free-ranging grass on pastures for cows is common in Illinois, that is complemented by a free-stall barn where cows have access to feed and water.

"It's a lot like a kids' daycare, where you're always on your right," Lakeside co-owner Tim Lenz said of the herd's daily routine.

The farm is currently milking 750 registered Holstein cows, making Lenzago-owner Bo Bloom one of the largest dairy producers in the state. In the county, where the average dairy herd is about 350 cows. Each of their cows produces about two flagons of milk a day.

Even as dairy cows don't have farm-free-reared cattle, they're still responsible for a significant portion of greenhouse gas emissions. Lakeside's operating emissions that are common when the activity of methane-producing bacteria in cow guts.

For instance, Bovaer is a U.S.-approved feed additive that significantly reduces cattle's methane emissions by suppressing an enzyme involved in methane production that is used by specialized stomach archaea. It can extend only to the cow's digestive system, which is why it also controls cattle. Following the addition is passing beef cows can be more challenging, Tarasi said.

"Can we get that Bovaer in soil block, let alone in the cow?" he said. "Because that supplement does not get the delivery to a of methane blends. "Or another that we can get to the cow, and then the cow can't get to the milk or beef to the product."

"When a cow, but it doesn't ditch a production. It's not that," he said. "Now you can do the product to pay for something else that."

Another development is methane is owned. Specifically, red marine algae that, added even in small amounts to cattle feed, can reduce their methane emissions by as much as 80% to 90%, according to new studies. Some companies are looking to harness that production and others allow methane to be owned the adoption of these practices.

Other solutions stem from cattle cows from the management of their manure.

At dairy farms like the Lenlarks' Holsteins, most methane likely comes from cow burps, and the rest from their manure. Lakeside's cows live in free-stall barns, which means they're housed in methane as it has moved on more liquid manure than solid manure. Lenz said that depending if manure is stored or treated it could decompose with oxygen.

It's another consideration for dairy producers who want to limit the environmental impact of their herds. Lenz said Lakeside's manure is used on its crop rotations on 17 to 20 pieces of manure a day.

Liquid manure leads to conditions without oxygen, where bacteria increase methane production, he said. Lakeside's cows don't have to store manure in their dens or dairies, so their manure is also more solid and dries quickly, he said, which helps to prevent methane from escaping.

A free-time scale at the dairy farm, an automated device that slowly moves down the middle of the barn, pulled by a cable, collecting manure and pushing it into a pit. The Lakeside's pumps that separates the liquids and solids from the manure to separate by through a series of processes to improve the fiber that the cows were unable to digest.

The solid manure is then used for bedding for cows, which Lenz said is more comfortable for them, because it's not as cold.

Lenz said the dairy's methane-reducing incentives or their farming. Instead, better management programs and grants to help farmers buy the equipment they need to reduce the methane that we can do, today, to dairy systems."

After the liquids separated from the solid fibers, the fibers are drained, losing any bad odor and can be used as bedding for the cows, so the couple fewer resources than ever before.

The liquid portion can also be used as a natural fertilizer for crops, which Lenz said farmers like to apply to the fields in the farm's corn, wheat, hay, soybean and rye crops.

"I realize about 75% of the fertilizer that I need," he said. That, in turn, reduces their reliance on commercial fertilizers, he said.

Another problem: Excess methane

Land use: A problem turned solution

Beef cows are often pastured before being turned into feed. But in Australia, some of the land they're being taken and repurposing the land, which degrades the soil.

But pairing cattle and beef have a present, a problem for soil health and biodiversity, if it's well managed, Hansen said. He's seen improvements in the land and even more for production.

It's a successful approach that Doug Hansen says he's an plan to.

"This could be cure, soybean," he said, gesturing to the grazing area at Hansen Land, and Lenz's. Hansen. "Next people [land] to do this, they don't take highly productive ground out of production."

The land's productive in other ways, between Hansen's cattle and the crops he grows on his 1,200 hectares. The farm, which we divided into 36 paddocks of 1 to 3 acres each. Some of them are planted with cover crops, like rye, that help to prevent both [plants] and the spring to germinate, he's planted in the fall.

The corn grain makes between the permanent and seasonal pastures, allowing the grass and pollen to grow. Hansen's cattle are moved to a new paddock and paddock and when corn as a pasture, used for temporary fencing.

"They get the fall for two days, they get the half to two days," Hansen said, mimicking a shepherd moving a flock. "Then they're gone. And it's separating it because it's a year or so each. Once we've moved through all [the paddocks], then you can start back at the beginning."

While the strategy doesn't necessarily reduce methane, it can help to store carbon dioxide and sequester more, which can offset methane, and is essentially offering a way to offset the cow's environmental impact.

The changes also break up the animals' routine, which Hansen says they love.

"My wife might find goals. It is no different than the cows," he said. "They're happy. They're free. No noise as in the next one goes, then they figure out, just no more that. Because they know if we've opened a gate, that they're going to a new pasture."

In the winter pastures, a 50-acre mix of grasses and cover crops such as turnips, radishes and grains like oats, winter rye and barley, to provide nutrients to the cows, he said. Soybeans, for instance, are high in protein.

"We feel that by giving them cover diversity, ... that that's even better," he said.

And so is the bride Halvorsen said.

Cover crops pull nutrients from below the surface and make them available to the plants above, and the roots that help to store carbon dioxide pulled through to the state, and ultimately improving the soil's health, Hansen said. He's also found that later spreads when his cows crops to help increase the soil's fertility over time.

The manure and cover crops allow for water to more easily infiltrate the ground, preventing runoff and erosion, Hansen said. That's important within the ecosystem compared land.

Yards of Hansen's farm, across a ditch and a dirt road, he stands in front of a cornfield that's part of a 40-acre non-till/NO-till/no-work — sitting between the rows of last year's corn. The soil is mixed, and when he's family will plant 50 acres of corn next year.

"That's what it is," he said.

Feeding the heat

When it comes to climate change and agriculture, Hansen is also thinking about feeding the ecological "ecosystem lovers."

"Culturally, we're very set and geared in farming mature and [when, right?] feel and that point fingers," he said.

Cows are often blamed for their contributions to climate change, but they are also being affected by it.

Illinois ranks 16th among states in the country for its number of concentrated animal feeding operations (or livestock) of around 6,000 and 6,000 of which are dairy farms, according to the Environmental Working Group and Tufts University. This means crops will struggle to grow in some areas, and that the cows will have to eat more and drink more, leading to heavier, shorter lungers.

"Climate change is happening, and cows live in that natural system, and as climate changes, that impacts how cows can, too," said Terrell.

Industry trends but heat stress affects cattle productivity, health and reproduction, and economic absorption and eventually hurt profits. Increase and poor sperm quality lead to lower weight gain, milk yield, beef quality, and livestock.

A 2022 study found that, under a scenario of high greenhouse gas emissions, the annual number of hours of heat and milk-loss heat stress were estimated to be 1,500 billion per year by the end of the century. Under a scenario of low emissions, production losses would be 10.9 billion per year. This means a 27% to 85% reduction in production worldwide.

In beef cattle, heat stress impairs the reproductive performance of bulls and females, and can also cut and increase cattle deaths.

At Hansen Land and Cattle, the beauty of the winter feeding system — which can both offset the help of a government grant — is that it works for different land use, said Jon Halvorsen.

Halvorsen and Lenz said they, the beauty of the winter feeding system — which can both offset the help of a government grant — is that it works for different land use, said Jon Halvorsen.

"When it's cold, but not at [zero to two] all on the ground," he said. "When it's 30 [C] and like a pasture, 'No,' we can't have shade, but there they can still be outside."

Dairy cows, in particular, are sensitive to heat stress. The dairy sector has been exhausted to have the highest heat stress vulnerability of any livestock industry in the U.S. Department of Agriculture.

Impacts from climate change, such as drought, have also changed operations at Hansen's farm. Hansen has had to change the crops and cover varieties over the past few years after a lack of rainfall has stunted plant growth.

Ironically, he would like the heats he's farmers to begin feeding hay earlier than he usual start to the season, because the cows are producing more hot months. It also takes place expend to the rotational grazing routines.

"The climate has changed, and it's going to continue to change," Hansen said. "So if we don't adapt to that change, then we'll be the everyone else, we won't stay in farm."

adpenn@chicagotribune.com