

The phenological development of barnyardgrass

New grass works best

By Fran Johnson

December 8, 2025



Lead image caption.



Barnyardgrass can be a tough weed.

Knowing phenology can help.

A passion for collaboration, networking, and creating solutions for farmers are cornerstones of Aaron Breimer's career. As the incoming Chair of the ICCA board, Breimer is eager to leverage his experience and passions to strengthen the CCA program and enhance the interactions between local and international boards.

On the family farm in Ontario, Canada, Breimer's passion for agriculture grew naturally. Walking the fields with his father, crops towering over him, and riding through hay fields on the wagon blossomed into tossing hay bales onto the wagon and driving the tractor planting crops. Attending the University of Guelph, he expanded his agronomic knowledge in the classroom and gained more experience during a semester in New Zealand.

In 2001, Breimer entered the agriculture retail industry and began applying his knowledge to the everyday challenges farmers face. A year later, he sat for the CCA

exam and became an outspoken proponent for the program. "I see myself as a lifelong learner. The CCA program encourages new ways of thinking and problem solving."

Breimer spent ten years working in agricultural retail as a research assistant, sales representative, sales agronomist, and crop protection specialist. In 2011, he transitioned into consulting, first serving as an agronomy specialist, then as a precision ag specialist, and eventually as a general manager. When that company was acquired, Breimer became their vice president of data insights. "It was a fascinating role that offered a unique perspective on agricultural practices across North America," he said producers

Video.

A trip to Zambia in 2013, where Breimer visited with local farmers and supported subsistence farming communities, gave him the chance to reassess his thoughts about the broad world of agriculture. "I came away from that experience with increased objectivity and a commitment to reevaluate my ideas. It's easy to fall into the trap of thinking that we have all the answers. I learned things in Africa that I could incorporate at home, and the trip reinforced my desire to develop solutions based on collaboration."

For Breimer, collaboration isn't just working together to reach each person's individual goal. Instead, it's about achieving shared goals that are bigger than anything any one person could accomplish alone. "I see collaboration as a way to achieve shared audacious accomplishments."

Two years ago, Breimer began Moose Ag. The business name is a nod to his time in New Zealand and the nickname he received there. As a student eager to gain diverse experiences in a new country, he joined a local rugby team. His teammates knew little about Canada beyond it being cold, snowy, and having moose. The name stuck and followed him home.

With his chief morale officer, a border collie named Antler, by his side, Breimer enjoys the freedom of being an entrepreneur. "I am privileged to be a member of my clients' trusted inner network and work with others in their circle, creating solutions for the problems that keep my clients up at night."

Breimer credits much of his success to the CCA program, which he says "cultivates a perpetual cycle of improvement."

When Breimer has the chance to speak to audiences, he often quotes the seven most dangerous words uttered in any business: "We have always done it this way." He views the program and CCAs themselves as continually pushing forward, never satisfied with the status quo.

An aspect of the CCA program that Breimer finds especially helpful is the opportunities to



A C2 plant in the field.

interact with like-minded individuals who willingly share their experiences. "Networking enables us to benefit from the experiences of others, and just as important, if not more so, to be inspired by others."

"The number one tool in my toolbox is my list of cell phone contacts. I don't have all the answers, but I bet I know someone who does, or at least can point me in the right direction."

Service and inspiration go hand in hand

Serving on various CCA committees has enabled Breimer to help fellow CCAs succeed and be inspired by those he works alongside. He joined the Ontario board in 2018 and began serving on the executive board in 2020. Attending his first ICCA meeting in Virginia sparked his interest in participating on the international board. Working with international board members, Breimer connected with people who, like him, are deeply dedicated to making the CCA designation more recognizable and meaningful.

Breimer will begin serving as the incoming Chair of the ICCA board in January 2026, continuing the incredible work of past chairs. "Sandy Endicott pushed for multiple meetings, now we have virtual meetings enabling local boards to give their input and improve the ICCA. Karyl Wyant has incorporated speakers who share the creative ideas and solutions that have worked for local boards".

Table 2. Estimated N savings in the stable-low zones (SL) across Corn Belt states using fertilizer rate data from USDA and N uptake estimated in the stable-low zones.

	Fertilizer N	N uptake in	in Fertilizer loss in					
	rate	SL	SL	NUE	N saved with SL if N uptake			
State	lb/ac			(%)	applied (lb/ac)			
IL	163–170	96	46-54	57-59	67–74			
IN	156-186	88	47–78	47-57	68-98			

	Fertilizer N	N uptake in	Fertilizer loss in	ı	
State	rate lb/ac	SL	SL	NUE (%)	N saved with SL if N uptake applied (lb/ac)
State	ID/aC			(/0)	applied (10/ac)
IA	141–154	103	18-31	66-73	38-52
MI	135–147	85	29-42	58-63	50-62
MN	143-158	103	22-37	65-72	40-55
МО	176–194	76	82-100	39-43	100-118
ND	128-141	74	37-50	53-58	54-67
ОН	155–174	89	46-65	51-57	66-85
SD	123-136	79	26-38	59-64	44-56
WI	104-115	89	0	78-85	15-26
Average 143-158		88	36-50	57-63	54-70

Breimer plans to continue this effort of leaning into and seeking input from local boards while incorporating his passions for enhancing collaboration, increasing the number of CCAs and helping farmers understand the extensive expertise provided by CCAs.

His primary goal is to strengthen interactions and collaboration between local boards and the ICCA. "Local members may not have always felt the ICCA board was as supportive as it could be, I want to change that." He also wants to reverse the trend of declining numbers of CCAs. Breimer sees the solution, in part, as attracting more young agriculture–focused individuals to the program and ensuring the program provides significant value. Breimer also wants to explore farmers' thoughts and attitudes toward CCAs.

"Designing simple survey questions to examine if farmers value the certified crop advisor designation might be eye-opening," Breimer commented. "Asking farmers if they value continuing education and a code of ethics for their advisors, I believe they will say yes. However, we may find many farmers haven't connected the CCA designation with the foundational elements they value.

"My objective is to encourage farmers to consider the value their advisors bring to their operations. If farmers connect the dots between trusted, actionable advice and sustainability, demanding more CCAs, we will see renewed interest in the program."

"Continually working to bridge the gap between farmers, ag businesses, suppliers, CCAs, and the ICCA board, and supporting producers and ag businesses with data, ideas, and recommendations will lead to success for us, the CCA program, and farmers," Breimer said.

"By imagining what is possible, continually expanding our network and collaborating to achieve audacious goals, there is no limit to what we can achieve."

Dig deeper

Input content here

"It opened this year with a new program orientation session, where students had an opportunity to meet the team."

The Students of Agronomy, Soils, and Environmental Sciences program opened this year with a new program orientation session, where students had an opportunity to meet the SASES National Officers, hear an overview of events planned for the week, and meet Society staff.

Text © . The authors. CC BY-NC-ND 4.0. Except where otherwise noted, images are subject to copyright. Any reuse without express permission from the copyright owner is prohibited.