

Descriptive Transcript for the Ontario Agri-Food Innovation Alliance Precision Feed Facility Video

(Background music: upbeat instrumental music playing. A drone flying over the buildings that houses the Precision Feed Facility in Elora, Ontario. There is a tractor driving from the building on the left to the building on the right. The narrator- a middle aged man with short, dirty blonde hair - is facing the camera. He is wearing a navy-blue golf shirt with a patch of the Guelph University Gryphon on the left side of his chest, and a patch of the words "Guelph University" on right side of his chest. In the background is the blurred out inside of one of the Precision Feed Facility buildings.)

Joe Parkinson:

From field to feed bunk, the Precision Feed Facility is the latest addition to a world-class platform.

(Scene transitions to an aerial view overlooking the Precision Feed Facility in the morning. There is a tractor with headlights on driving down towards the camera between the two buildings. There is white text overlaid saying "The Precision Feed Facility is in Elora, Ontario. It supports the Ontario Dairy Research Centre and the Ontario Beef Research Centre.")

(Scene transitions again to the inside of one of the Precision Feed Facility buildings where a tractor is backing up while carrying feed. White text is overlaid saying "The Precision Feed Facility supports research that will help farmers reduce costs." The words "reduce costs" are then highlighted in red after they drop down.)

(Scene transitions to cows in a rotary parlor being milked, with white text overlaid saying "Optimize animal productivity." This text becomes highlighted in red. The scene transitions again to a man with tan pants, a navy blue sweater, and a grey hat looking over the mechanism milking the cows. The text from the previous scene is still overlaid over this new scene.)

(Scene transitions to a close up shot of a cow's face with white text highlighted in red overlaid on top saying "Support animal welfare.")

(Scene transitions to an aerial shot of a combine harvester in a wheat field with white text highlighted in red saying "Enhance sustainability".)

(Scene transitions to an aerial view overlooking the Precision Feed Facility in the morning. There is a tractor with headlights on driving down towards the camera between the two buildings. There is white text overlaid saying: "Making the promise of precision agriculture an on-farm reality.")

(Scene transitions to a second narrator wearing a black gold shirt with the Dairy at Guelph logo and title on the upper right of his chest. He is facing to the right of the camera. At the bottom right corner has white text saying "Dr. Trevor Devries, Animal Biosciences, University of Guelph".)

Dr. Trevor Devries: Having consistency day in, day out, in terms of the diet that's fed to dairy cows will pay dividends in terms of greater intake, greater milk production, and greater efficiency.

(Scene transitions to a third narrator facing the camera. She is standing in front of a group of feed bins that are blurred out in the background. In the bottom right corner there is white text saying "Dr. Katherine Wood, Animal Bio Sciences, University of Guelph".)

Dr. Katie Wood:

Being able to have that level of precision to add that level of accuracy is really important for the new era of nutrition research.

(Scene transitions to a red tractor pulling a container of feed on a grey track with a yellow line running down the middle. There is background music as well as the narration playing.)

(Scene transitions to a scale house being zoomed in on by the camera.)

(Scene transitions to a the side view of a combine harvester driving through a wheat field with background music and narration playing in the background.)

(Scene transitions to an aerial and circling shot of the Precision Feed Facility at dusk while background music and narration plays in the background.)

Every ingredient is weighed into the Precision Feed Facility. All of our forages, which are grown locally on our own land, are stored in our 27 covered bunk silos.

(Scene transitions to a ground shot of a tractor driving between the covered bunks towards the camera. There is black text on the screen saying "Covered bunks protect the feed from weather such as sun, rain and snow".)

(Scene transitions to the same tractor driving into one of the covered bunks. There is white text on the bottom of the screen saying "This protection helps maintain a consistent, high-quality forage for research trials".)

(Scene transitions to the same tractor dumping the feed into the area under the covered bunks.)

Once it's at the feed facility, we know exactly what ration it went in and what cows it was fed to.

(Scene transitions to a zoom in shot of wheat in the field then wheat after being processed. There is background music and narration in the background.)

Our FeedWatch software allows us real-time inventory management, allowing us to order ingredients just on time and predict our inventory levels for planning in future years.

(Scene transitions to a side shot of a man sitting at desk on the computer. He is looking at the monitor while background music and narration plays in the background.)

(Scene transitions to a close up of the same man's hand pressing the down key on a keyboard.)

(Scene transitions to behind the computer monitor. It is a front view of the same man's face while he is looking at the monitor.)

(Scene transitions to the combine harvester driving along a wheat field while cut up wheat is being dropped out of the harvester into a container being pulled by a red tractor driving alongside it. The camera drone is flying over slightly above the harvester as the scene continues. There is background music and narration playing in the background.)

(Scene transitions to an aerial view of the top of the combine harvester as it drives along a field of wheat. There is background music and narration playing on the background.

We have 2,400 acres where we grow all of our own crops. We can control the narrow harvest window to maximize quality and consistency, both key ingredients in a research program.

(Scene transitions to the narrator wearing a black gold shirt with the Dairy at Guelph logo and title on the upper right of his chest. He is facing a to the right of the camera.)

Dr. Trevor Devries:

To have a Precision Feed Center is hugely important from maintaining accuracy and precision in diets that we feed for the dairy cows. And one of our challenges is whether or not that diet that we put together on paper for those cows actually makes it to the cow, and that's where the Precision Feed Center comes into play in that if we can do a better job in terms of managing our feeds, the mixing of

those feeds, and the delivery of those feeds to the cows, we can ensure that those diets are put together accurately to that formulated diet.

(Scene transitions to the front view of a red tractor inside the Ontario Dairy Research Centre barn while it places feed in the feeders for the cows. There is a continuation of the previous narration during this scene.)

And one of our challenges is whether or not that diet that we put together on paper for those cows actually makes it to the cow, and that's where the Precision.

(Scene transitions to the feed bins closing themselves while a cow is eating out of the bin in front of it. There is a continuation of the previous narration during this scene.)

(Scene transitions to the red tractor driving out from under the bunk at the Precision Feed Facility.)

(Scene transitions to a close up of a pile of feed.)

(Scene transitions to a top view of a man mixing the large feed bin.)

(Scene transitions to the feed mixer delivering the feed to the cows in the feed bin.)

(Scene transitions to Dr. Devries walking up to the cows in the Ontario Dairy Research Centre, bending down, and picking up a handful of feed to inspect it.)

(Scene transitions to Dr. Katie Wood standing in the Ontario Beef Research Centre barn looking at the camera.)

Dr. Katie Wood:

As a ruminant nutritionist, certainly a lot of what I do is look at feeding animals. And so certainly when we think about formulating feed and designing those rations down to the third decimal place of inclusion rate, we need to have an accurate delivery of that ration that we formulate. And so the Precision Feed Center will help us get that ration that we formulate on paper and using our computer software to be as accurate as possible.

(Scene transitions to Dr. Wood walking to a stall in the barn, opening a gate and entering the pen with the cows. She bends down and picks up a handful of feed to inspect it. Upbeat instrumental music continues playing.)

(Scene transitions to a close up of a grey cow's head. There is white text on the screen that says, "Animal health is an important part of animal feeding.")

(Scene transitions to a close up of the feed being put in the feed bin from the tractor. There is white text on the screen that says, "The feed facility ensured consistency in the research trial.")

(Scene transitions to a black cow standing in a pen in the barn looking at the camera. There is white text on the screen that says, "Allowing researchers to focus on improvements in animal health and wellbeing.")

(Scene transitions back to Dr. Wood standing in the barn looking at the camera.)

Dr. Katie Wood:

Certainly this is unique within Canada and probably even in the world to have such high quality facilities for research.

(Scene transitions to aerial drone footage of the Precision Feed Facility with upbeat music playing.)

The research centres are owned by the Government of Ontario through its agency, the Agricultural Research Institute of Ontario, and managed by the University of Guelph through the Ontario Agri-Food Innovation Alliance.

The video ends with the University of Guelph and Ontario logos on the screen with upbeat music playing.