

Holstein Canada ConneXXion App Guide

The Holstein Canada ConneXXion App gives the ability to perform Holstein Animal Registrations and Genomic Test Submissions for and all supported dairy breeds (Tissue Sampling Unit only, no Hair submissions). Additionally, you can manage your Eartag and matched Eartag/TSU inventories.



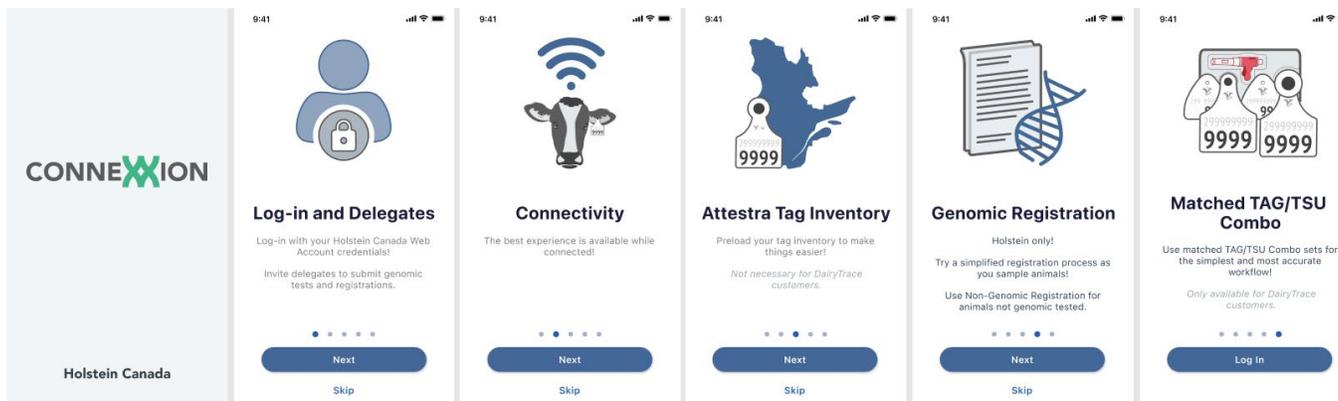
Throughout the app, there are several icons that you can click on, to obtain more information.

Contents

Onboarding for new users.....	2
My Farms management	3
Adding a Delegate	3
Herd Home Page.....	5
Collect Samples – Submit a genomic sample or a sample along with the animal’s genomic registration.....	6
Search Tag/TSU Combo	6
Add new TSU’s.....	7
TSU Inventory.....	7
Manage Samples – Review, edit and submit samples	9
Submission History	10
Non-genomic Registration (Regular animal registration)	11

Onboarding for new users

1. When first opening the app, a series of screens summarize the capabilities of the app. Review them all to understand the application better.



2. On the Login Page, enter your **Holstein Canada web account username and password**, click *Sign In*. If you don't have one, click *Create One* at the bottom. If you don't remember your username, contact Holstein Canada. If you forgot your password, click *Forgot Password*.



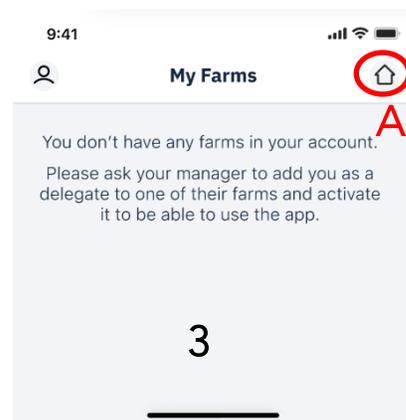
3. Once logged in, activate your account by clicking on *activate* under your farm's name. Then, you're prompted to enter some farm details, scroll down and click *save and activate*.



4. If you are not assigned to any farm account, the account holder of the herd you are looking to have access to must add you as a delegate user.

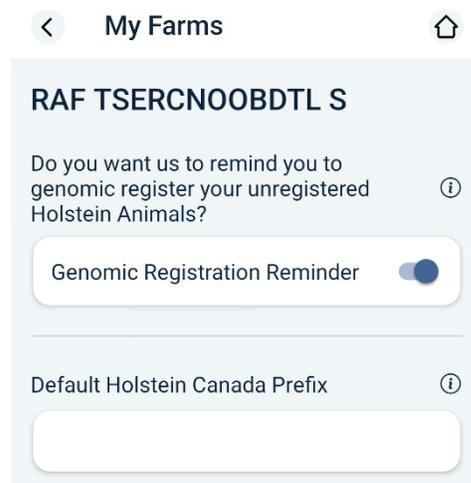
My Farms management

1. Under my farms, you have a list of the herds assigned to your account.
2. If you are an Account Holder, there will be one or more herds already assigned to your account. You can invite delegate users that are able to use the farm account on your behalf.
3. If you are not an account holder, you will see a message that you don't have any farms assigned, so you must contact the account holder to add you as a delegate.
4. To go to your herd's home screen, click on the home button in the top right corner (A).



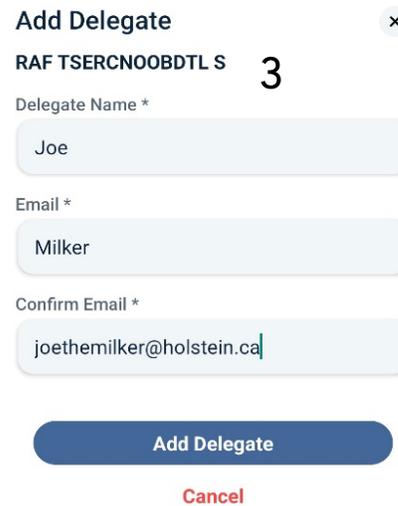
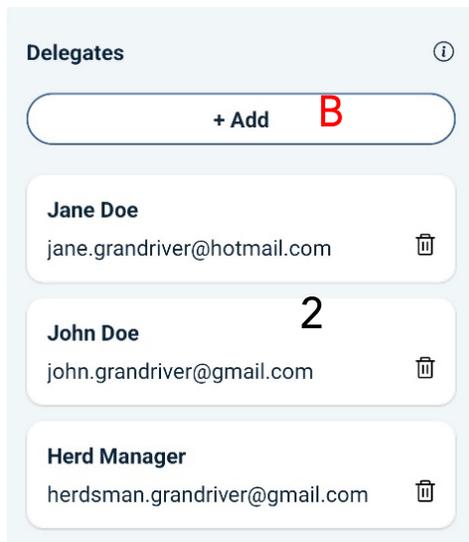
My Farms Details

1. Genomic Registration Reminder – Genomic Registration is a new, simplified Registration method. Toggle this to the activated position if you plan to genotype and register your calves through the app at birth. This will ensure you do not forget to complete a step at submission.
2. Default Holstein Canada Prefix – enter the Holstein Canada Prefix that you will most often register animals to in the application, we will use this to prefill forms whenever possible. You can always change it for specific animals when you are registering them.



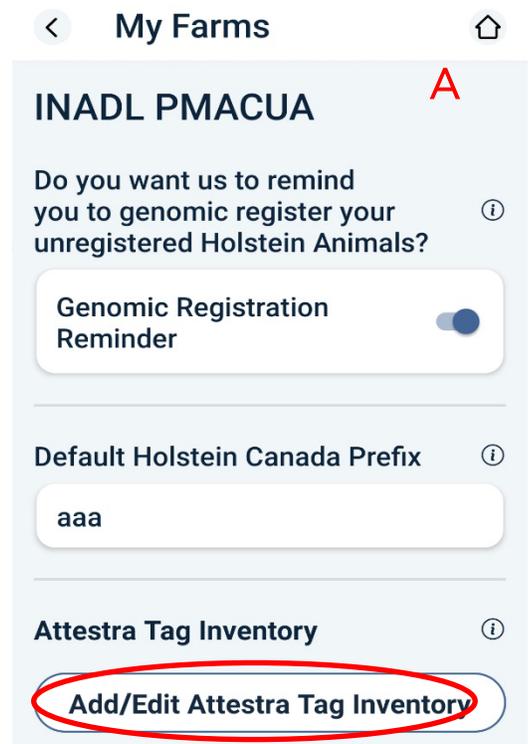
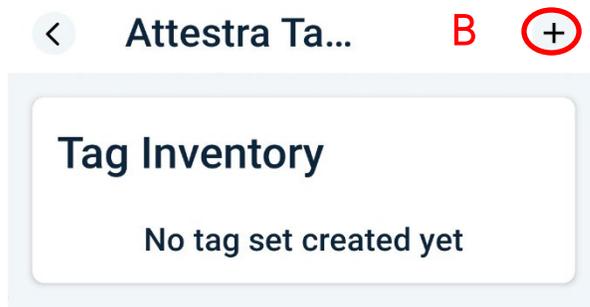
Adding a Delegate

1. To add a delegate, click on the farm's name under *My Farms*.
2. You can review all the people with current access to the farm's account. To add a new person, click on *+ Add*(B)
3. Enter the name, email and confirm the email of the person. They will receive an invitation email to download the ConneXXion App and, once their account is set up, have the ability to use all the functionalities of the app on your behalf.

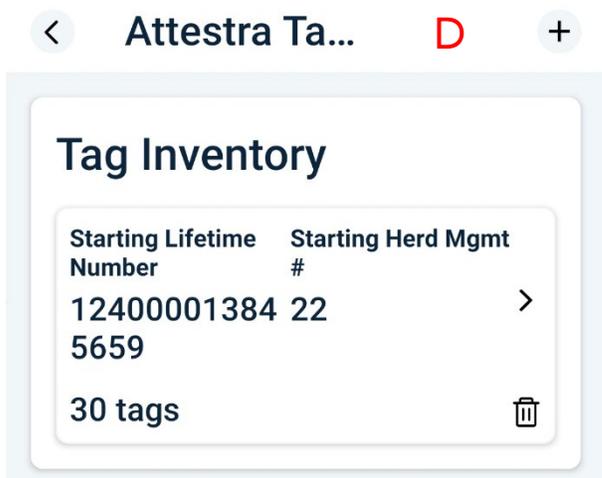


FOR HERDS LOCATED IN QUEBEC (ATTESTRA USERS)

1. There is an *Add/Edit Attestra Tag inventory* button below the prefix (A).
2. If you do not have any previously added tag set added in the app, click on the *+* button on the top right (B).



3. Add a new tag set to your tag inventory by entering the last 9 digits of the first (lowest) lifetime number in the tag set, what is the herd management number of this tag, and how many tags are in this set. Click save and the set will appear in your inventory (C and D).



Tag Inventory

Starting Lifetime Number	Starting Herd Mgmt #	
124000013845659	22	>
30 tags		🗑️

Add a Tag Set C ×

Add details from the first tag in this set and leave the rest to us.

What is the lifetime number on the first tag?

124000 013845659

Add the herd management number

22

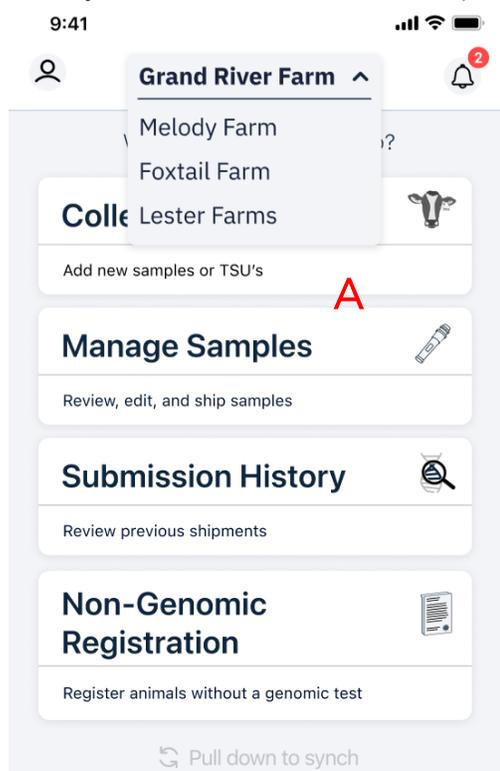
How many tags are in this set?

30

Save

Herd Home Page

Once you have setup your farm(s) under your account, your home page will default to the one below (1), where you can select *Collect Samples*, *Manage Samples*, *Submission History* and



9:41

Grand River Farm ^

- Melody Farm
- Foxtail Farm
- Lester Farms

Collect Samples 🐄

Add new samples or TSU's

Manage Samples 📄

Review, edit, and ship samples

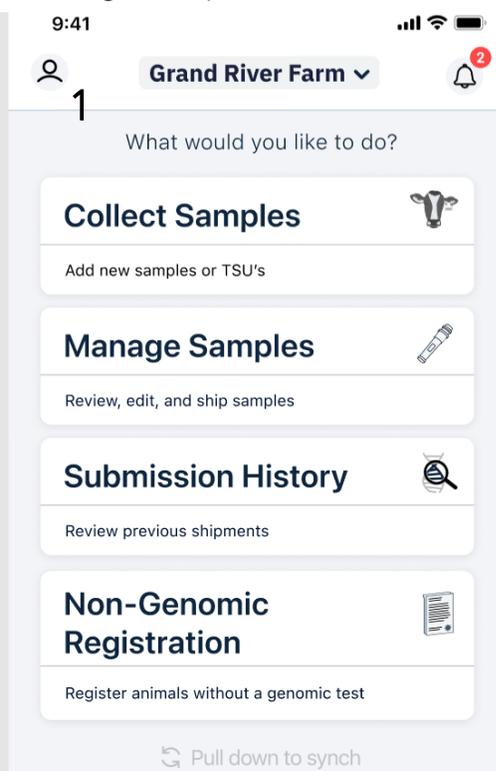
Submission History 🔍

Review previous shipments

Non-Genomic Registration 📄

Register animals without a genomic test

🔄 Pull down to synchron



9:41

Grand River Farm v

1

What would you like to do?

Collect Samples 🐄

Add new samples or TSU's

Manage Samples 📄

Review, edit, and ship samples

Submission History 🔍

Review previous shipments

Non-Genomic Registration 📄

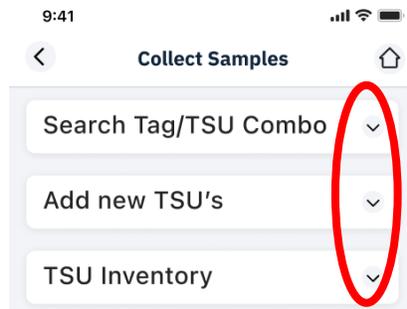
Register animals without a genomic test

🔄 Pull down to synchron

Non-Genomic Registration. You will see the farm account you are currently working with but can switch between herds (in case you have multiple herds under your account) by clicking on the farm's name and selecting the desired herd to work with (A).

Collect Samples – Submit a genomic sample or a sample along with the animal's genomic registration

Clicking on *Collect Samples* gives you the option to search for a tag number that is linked to a TSU (in case you use the recommended matched Eartag/TSU combos), add a new TSU unit or box, or use TSU from your inventory that were previously added. Notice that the tiles collapse by clicking on the up and down arrows. Note that you must submit a TSU sample to use this method; a hair sample is not accepted!

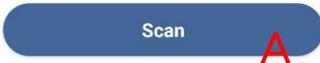


Search Tag/TSU Combo

1. Searching for a Tag/TSU combo requires you to have internet service. If not online, you can click on *Manual entry* and enter the serial/lifetime number (1240000XXXXXX).
2. To use this mode, you must have previously bought matched eartag/TSU combos, where the eartag and TSU share serial/lifetime numbers. For this reason, just searching for the tag number (management number, not the full registration) finds the animal or eartag you are sampling.
3. In this case, the registration number and tag number are pre-populated; still, you must enter other information such as the birth date (required) and, optionally, the registration details.
4. The test type is standardized to CLARIFIDE at Holstein Canada, which is the High-Density panel that includes complete milk proteins, coat colour, haplotypes, and full trait evaluations. You can find details on the tests and prices by clicking on *Learn more* (B).
5. If you would like to include additional tests (extra fees), check the boxes for the desired tests (C)

Scan new TSU box

Use your camera to scan the QR code on the bottom of your box



Enter First TSU manually

Please enter the complete serial number on the first TSU in your box of 10



Add single TSU

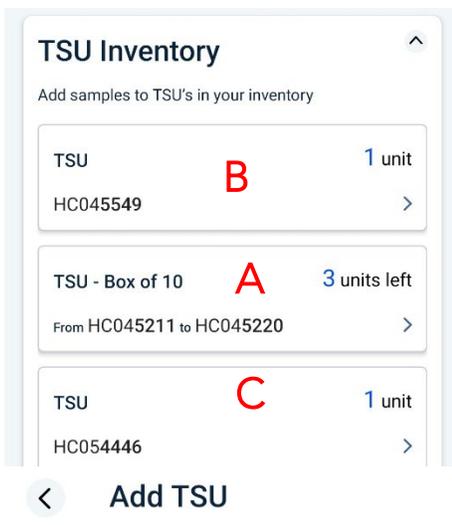
Please enter the TSU Serial Number



Cancel

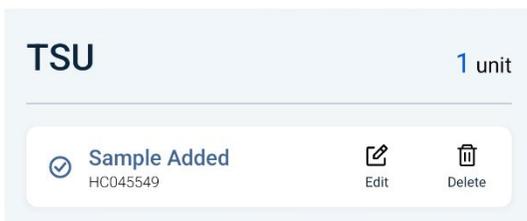
Add new TSU's

1. To add the full box of TSUs click on *New box*.
2. You have the option to either click on Scan and scan the QR code from the top of the box that you have on hands using your phone's camera (A). **Note: Only applies to TSU boxes purchased from Holstein Canada, with the QR code Label.**
3. Or you can enter the first TSU number (the lowest) of that series in the box. The system will automatically populate the next nine numbers from the box (B).
4. Then, you click on Add TSU box to inventory. This will automatically bring all the units to your inventory.
5. If you are adding a single TSU, click on *Single* and type the Serial number (HC00000). Click on *Add TSU to Inventory* to complete the process.
6. The added TSUs (boxes AND singles) will now appear under *TSU Inventory*.



TSU Inventory

1. After adding either full boxes or single TSU, they are going to in your TSU Inventory. In the example, there is one full box added (with just 3 units not used; A) and another two single units added (B and C).
2. Selecting the box or the single will bring up the units attached to those. If you have added a sample to that unit (and the animal information), it is going to show as *Sample Added*; if not, click on Add Sample.
3. In case there was a mistake entering the animal information, you can edit a sample; or if you decided to not send that sample anymore, you can click on delete.



TSU ID
HC045211

5240

5240
HOCANF14131681
D2 SUMEMRFEST SEQUEL
23 Apr 2021

Add to Sample

Add manually

4. You can search for an animal that is already in your herd by its tag number (Management Number), as long as it is registered. Note that you need internet connection for this. In this case, I searched for animal 5240; click on Add to Sample to link it to the TSU.

< Add TSU 🏠

TSU - Box of 10 5 units left

HC045211	Add Sample	Delete
HC045212	Add Sample	Delete
✓ Sample Added HC045213	Edit	Delete
✓ Sample Added HC045214	Edit	Delete
✓ Sample Added HC045215	Edit	Delete
✓ Sample Added HC045216	Edit	Delete
✓ Sample Added HC045217	Edit	Delete
HC045218	Add Sample	Delete

Manage Samples – Review, edit and submit samples

1. Once you have collected the samples and entered all the animals' information, you can go to manage samples to make sure everything is correct before you ship them.
2. Any sample with missing **required** information will show as not ready to ship. Those samples missing Genomic Registration details will have a yellow warning (A) but are still ready to ship (only for herds that have activated the Genomic Registration Reminder in their My Farms settings), while those with all the required information will have a green sign (B) and are cleared to ship.
 - a. At this point, you can make any adjustments or enter missing information. Once you fix any missing information, a sample that was previously not ready to ship will become ready.
 - b. You can also edit the information for samples that are ready to ship; for example, if you have switched tag numbers between two samples, you can fix it before shipping them.

Note: complete, and accurate information will speed your results!

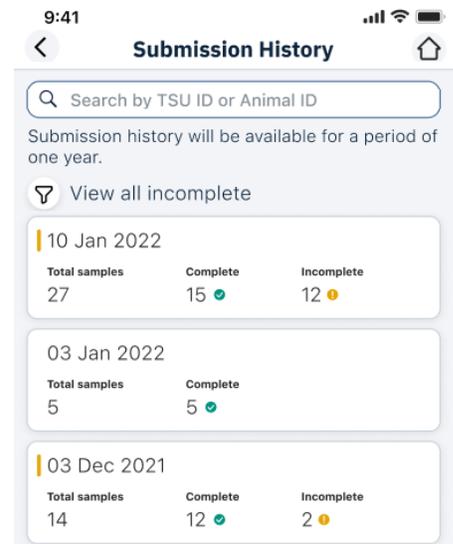
3. Whenever you are ready to mail the samples, you can select those that you are mailing on the checkbox, or check *select all* (C) in case you are mailing all the samples listed below; then click on *Submit* (D) to send the information through. Make sure you mail the samples as soon as possible to avoid Late Registration fees, and to expediate your results.

The screenshot shows the 'Manage Samples' interface. At the top, there is a back arrow, the title 'Manage Samples', and a home icon. Below this is a 'Select Samples' section with an information icon. A message reads: 'Please review samples with warnings before selecting them to be included in this shipment.' A 'Submit' button (D) is on the left, and '4 samples selected' is on the right. Below this is a 'Sort by TSU ID' dropdown and a 'Select all' checkbox (C). The list contains four sample entries, each with a 'TSU ID', 'Lifetime No.', and 'Herd MGMT #'. The first entry (TSU ID: HC045549) has a yellow warning icon (A) and an unchecked checkbox. The second (TSU ID: HC045217) has a green checkmark icon (B) and a checked checkbox. The third (TSU ID: HC045216) has a green checkmark icon (B) and a checked checkbox. The fourth (TSU ID: HC045215) has a green checkmark icon (B) and a checked checkbox.

TSU ID	Lifetime No.	Herd MGMT #	Status	Selection
HC045549	12588566	52	Warning (A)	<input type="checkbox"/>
HC045217	14131682	5241	Ready (B)	<input checked="" type="checkbox"/>
HC045216	14131686	5245	Ready (B)	<input checked="" type="checkbox"/>
HC045215			Ready (B)	<input checked="" type="checkbox"/>

Submission History

1. This option allows you to review all batches of samples that have been previously submitted.
 - a. If all samples are complete, the batch doesn't require attention
 - b. If any sample of the batch is incomplete, or is stopped requiring more information, it is going to show a yellow "!", while a **yellow bar** shows beside the date. Please review these frequently to track progress.



Non-genomic Registration (Regular animal registration)

This section allows you to register an animal without submitting their respective genomic sample. The process is very similar to registering on your web account, with the added convenience of being able to do it anywhere. Follow the steps to register an animal on the app.

1. Clicking on *Add new registration* will open a window for you to confirm that you wish to complete a form for an animal that you do not wish to sample.

Complete the registration form for animals you are not sampling for genomic testing. For animals you are genomic testing, use the simplified 'Genomic Registration' under sample details.

Okay

Non-Genomic Registration

Enter Herd MGMT # to Search **A**

Lifetime Number * **B**

Herd Management Number * **B**

Breed
HO

Country
CAN

Sex
Select **C**

Date of Birth
Select **D**

Coat Colour
Select **E**

Birth Type
1 **F**

Polled **G**

ET Calf **H**

2. Click *Okay* to reach the "Non-Genomic Registration" form.

3. Here you can search for the herd management number (A) of the animal to be registered or manually enter all the requested information (B) exactly as you would on the web account.

Input the sex of the calf (C), birth date (D), calf's coat colour (E), birth type (single or twins, F), if the calf is polled (G), and if the calf was originated from embryo transfer (H). If the registration is for twins or embryo transfer, fill up the required information.

Birth Type

2

Multi Birth Mixed Sex

ET Calf Details

Manipulation Type

Select

Frozen Embryo ID *

Recipient Dam *

Date of Recovery *

Select

Date of Transplant *

Select

4. You will then be asked for information about the calf's dam. You can either search for it by entering the Dam's management number (A) for animals in your herd or toggle from "My Herd" to "Global" to search for any Dam outside of your herd by Registration Number or Full Animal Name.

The screenshot shows the 'Dam Details' form. At the top left is the title 'Dam Details *' with an information icon. To its right is a 'Search By' dropdown menu currently set to 'My Herd'. Below the title is a search input field with a magnifying glass icon and the placeholder text 'Enter Herd MGMT #'. Below this is a blue link labeled 'Manual entry'. To the right of the search field is a 'Dam not known' checkbox. Red annotations are present: a red 'A' above the search field, a red 'B' below the 'Manual entry' link, and a red 'C' above the 'Dam not known' checkbox.

At any time you may skip the search and manually enter the information (B). If you don't know the dam, check "Dam not known" (C).

If you select "Manual Entry" (B), fill up the required information.

This screenshot shows the 'Dam Details' form with various input fields. At the top left is the title 'Dam Details *' with an information icon. To its right is a 'Search By' dropdown menu currently set to 'My Herd'. Below the title is a search input field with a magnifying glass icon and the placeholder text 'Enter Herd MGMT #'. Below this is a blue link labeled 'Search by MGMT #' and a 'Dam not known' checkbox. Below the search field is a message: 'At least one mandatory (*) field is required.' The form contains several input fields: 'Lifetime No.', 'Herd mgmt #', 'Breed' (a dropdown menu currently set to 'HO'), 'Country' (a dropdown menu currently set to 'CAN'), 'Full Animal Name', 'Date of Birth' (a dropdown menu currently set to 'Select'), and 'Coat Colour' (a dropdown menu currently set to 'Select').

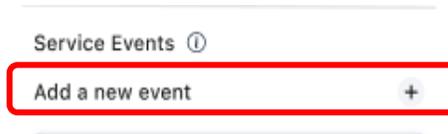
This screenshot shows the 'Dam Search' results page. At the top left is the title 'TSU ID — AFO1451161' and 'Herd # — 5906'. Below this is the 'Dam Search' title and a 'Back' link. Below the title is a search input field with a magnifying glass icon and the placeholder text '5906'. Below the search field is a result card for the dam with the number '5906' and a cow icon. The card contains the following information: 'HOCANF1234567890', '[Animal Prefix + Name]', and '01 Jan 2021'.

This screenshot shows the 'Sire Details' form. At the top left is the title 'Sire Details *' with an information icon. Below the title is a search input field with a magnifying glass icon and the placeholder text 'Search'. Below the search field is a blue link labeled 'Manual entry' and a 'Sire not known' checkbox. Below the search field is a section titled 'Recently used sires' with five buttons: 'KINGDOM', 'RAM', 'JANON', 'DANOIS', 'LAURIZON', and 'ALTAVIPER'.

5. Similarly, enter information about the sire of the animal to be registered. You can select one of your 5 most recently used bulls or search by full registration number, Semen Code (NAAB Code), or Full Animal Name. Just like for the dam, you can also enter information manually by clicking on "Manual Entry".

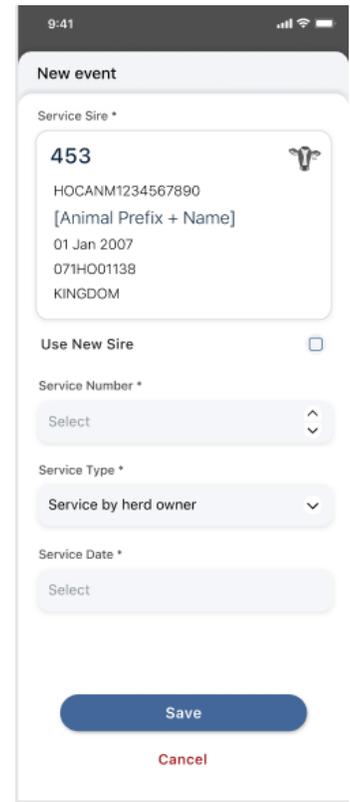
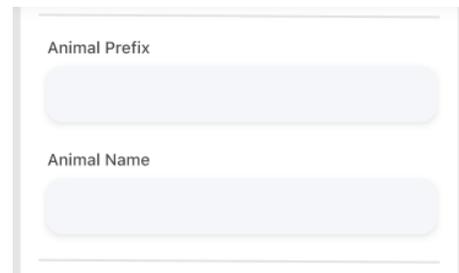
6. You will then need to enter the information for a service event by clicking on *Add a new event*.

Enter all breeding (services) information the dam had, as well as all services within 30 days.



You can use the same sire you just entered or a new one if other breeding has been made previously with a different sire. Fill up the boxes properly, and don't forget to save between each one of the services.

7. Scrolling down, you will see your default prefix filled in, with the option to edit it if needed. The name of the animal will be defaulted to Sire Short name and Animal Management Number, with the ability to edit. Same as on the web account, name and prefix cannot exceed 30 characters, space included.

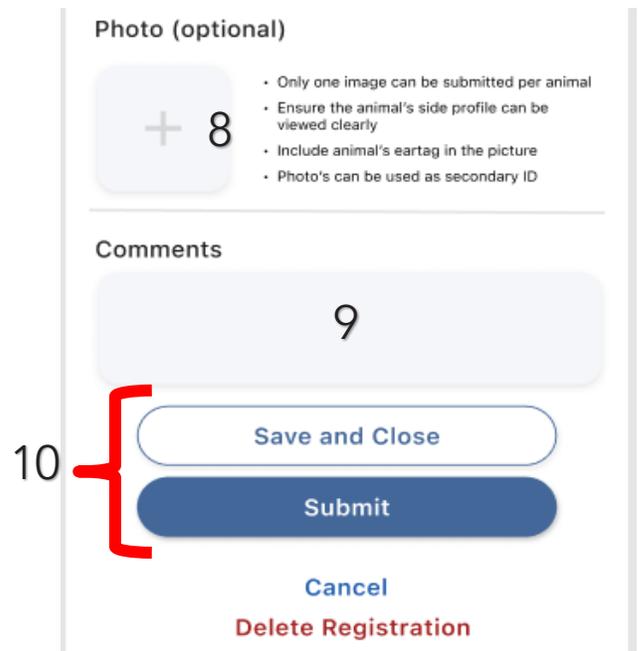


8. You have the option to attach a photo. To do so, click on the "+" and select the photo in your library or directly take one the animal. Remember that **only one photo can be submitted and it must include the eartag**.

9. You always have the opportunity to add comments to your request in the *Comments* box.

10. You can then click on *Save and close* in case there is any incomplete information, or you would like to wait before completing the registration. Click on *Submit* to send it right away. *Cancel* ignores the last modifications and close the window, while *Delete Registration* completely delete the current form. Keep in mind that clicking on *Save and Close* does not submit a registration.

11. The animals that have not been submitted will sit under "Complete and submit the registrations below". You can submit them at any point.





11

Non-Genomic Registration ⓘ

Add new registration

Complete and submit the registrations below:

25



HOCANF13233564

O MAN 25

10 Dec 2022