

What is an Evaluation? Fees and Schedule

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CDCB Genomic Nominator and Laboratory Workshop

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Overview

- What is an evaluation?
- Qualifying for an evaluation
- Current CDCB evaluation types



What is an evaluation?

- An evaluation is a report that contains traits and indexes for breeding selection for an animal
- Traditional evaluations utilize pedigree and phenotypic data (production, composite/type) + genotypic if available
- Genomic evaluations utilize pedigree, phenotypic, and genotypic data
- Pedigree and haplotype information are distributed with evaluations

What is a genomic evaluation?

- CDCB genomic evaluations are expressed as GPTAs – Genomic Predicted Transmitting Ability
- We evaluate for ~50 individual traits and 4 selection indexes — these combine individual traits weighted for their economic and genetic impact on farm profitability
- New traits being developed for August: Resistance to Diarrhea (DIA) and Resistance to Respiratory Problems (RSP) for calf health; First Service to Conception (FSC) for reproductive performance

What is a genomic evaluation?

- CDCB produces genomic evaluations for 5 dairy breeds:
 - Ayrshire (AY)
 - Brown Swiss (BS)
 - Guernsey (GU)
 - Holstein (HO)
 - Jersey (JE)
- CDCB also produces crossbred (XX) evaluations for mixed breed animals thanks to Breed Base Representation (BBR) calculations
- *Milking Shorthorn animals receive traditional evaluations*

Qualifying for a genomic evaluation:

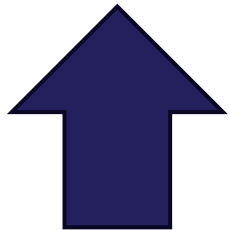
Nomination must be successful with a CDCB fee code assigned for the animal



The animal's genotype must pass a robust process to determine which genotypes qualify for an evaluation



Animal receives its preliminary, unofficial weekly genomic evaluation



Example of a Nomination:

This is an example of a Format 1G nomination:

0FHO840003307821404HO840003277629429HO840003269046412HAU1216550A-01 20251219B20251223G01199000000COLDSRINGS MOOMOO 15768-P 51040181L1N

- The “G” in position 88 indicates the record is a nomination

This is the piece of a nomination that is used for fee assignment:

51040181L1N

Pieces of a nomination:

In a [Format 1G](#) submitted via the SFTP or in a nomination submitted via WebConnect, there are 4 pieces of information unique to nominations:

- Herd Code/Group ID (@ 130-137 in Format 1G)
- Recipient Code (@ 138 in 1G)
- CDCB Fee Code (@ 139 in 1G)
- Herd Code Difference Reason Code (HRC, @ 140 in 1G)

Herd Code/Group ID in Nomination

- For U.S. animals on DHIA testing, the 8-digit herd code should be used in this field
 - This can be used in conjunction with an HRC=U if the 8-digit herd code is not currently being milk-tested
- For international animals, or U.S. animals without a DHIA testing code, the 3-character country code should be used in this field

Recipient Code in Nomination

- The [recipient code](#) informs CDCB if the genotype can be shared as part of genotype exchanges
 - Blank value in this field indicates that the animal should not be exchanged – this is the default
 - “L” value in this field indicates that the genotype can be exchanged with Lactanet; more information [here](#)
 - To delete a previously assigned recipient code, a “D” can be used in this field to remove all recipient codes associated with the animal

CDCB Fee Code

- Indicates the Fee assigned to the animal
- U.S. males and females can qualify for cooperator credits for yield, health, and type that are associated with the herd code
 - Credit contributions recalculated triannually
 - More information here: [CDCB Fee Schedule for Genomic Evaluation](#)
- International animals (excluding Canadian females) have no exemptions
- Animals can also be nominated for parentage verification only using fee code 8 (this excludes them from evaluation)

CDCB Fee Code

U.S. fees,
cooperator
credits

CAN F

International

Females		
Code	Fee amount	Description
1	\$0.00	US birth & yield & health & type records
2	\$1.00	US birth & yield & (health or type records)
3	\$2.00	US birth & yield records
4	\$3.00	US birth & (type or health records)
5	\$4.00	US birth
6	\$6.00	CAN birth
7	\$8.00	No exemptions
8	\$1.00	Parentage only

CDCB Fee Code

Males

Code	Fee amount	Description
P	\$0.00	International exchange partner (code P)
S	\$25.00	Controller is a collaborator stud
1	\$25.00	US herd providing yield & health & type
2	\$50.00	US herd providing yield and (health or type)
3	\$75.00	US herd providing yield
4	\$75.00	US herd providing type or health
5	\$100.00	US herd
7	\$200.00	No exemptions
8	\$1.00	Parentage only

U.S. fees,
cooperator
credits

International

CDCB Fee Code

Other non-paid Fee Codes

Code	Fee amount	Description
N	\$0.00	No fee paid
O	\$0.00	Old genotype (Only used by CDCB)
H	\$0.00	Historical (Only used by CDCB)
W	\$0.00	Waived (Only used by CDCB)

- Note that Fee Code = N does not qualify for evaluation
- CDCB can reassign a nomination to Fee Code = N if a conflict is detected to prevent double charges

CDCB Fee Code

- Cases where CDCB might assign a fee code = N:
 - A fee code wasn't assigned in the nomination
 - If an animal has a sex conflict between the pedigree and genotype after genotype loading
 - The animal has an abnormal/unreliable genotype, so the value changes to N and usability of genotype is set to U
 - The animal has a duplicate conflict with another genotype, and their genotype is Use=N, to prevent double billing when animals have been tested under different IDs

HRC in Nomination

- An [HRC](#) indicates to CDCB that the Herd ID provided in the nomination should be used to calculate the Fee Code
- Without an HRC, CDCB will attempt to assign the lowest fee code associated with the herd of an animal or that animal's dam
- There are four valid values for this field: P, M, N, and U

HRC in Nomination

- HRC=P, purchased; to be used when the animal being nominated was purchased and is therefore associated with a different herd code than the dam
- HRC=M, multiple; to be used when the owner of the animal being nominated has multiple herds
- HRC=N, herd not participating in calf program and dam is a donor not yet milking
- If using HRC = P, M, or N, the herd code provided in the nomination should be a valid DHIA herd code

HRC in Nomination

- HRC=U, U.S.; the animal is in a U.S. herd, but the herd code is not participating in DHIA testing or found at CDCB
- HRC=U will not be accepted for use on animals with foreign country codes in their ID
- A herd code can still be used as the group ID, or the country code USA

Checking Fee Codes on WebConnect

- Check individual animal IDs or Herd Codes (50 max):
 - Special Section > Get Fee: Search For “Animal ID (17 bytes)” or “Animal ID + Sex Code (18 bytes)”
 - Special Section > Get Fee: Search for “Herd Code”
- API Request: drop an ASCII Text File(.txt) to output CSV or JSON results
 - Data Exchange > Special Section: Search For: “Animal ID (17 byte)” or “Animal ID +Sex Code (18 byte)” + API Request: “Get Herd Code and CDCB Fee for Specified Animal ID”
 - Data Exchange > Special Section: Search for “Herd ID” + API Request “Get CDCB Fee From Herd Code”

GET FEE

The CDCB database is currently locked. Any submissions made will be processed automatically as soon as the database is unlocked.

INPUT: Breed, Country Code, Sex
Code, and ID Number.
E.g. HO124F000007890183

Maximum 50 items/once
Over 50 items: [Data Exchange](#)

Animal ID + Sex Code (18 bytes)

HO840F003307804620

Found 1/1 result sets

Run Query

Clear

EVAL DATE: April 2026

Get Fee by Animal ID + Sex Code (18 bytes)

Export CSV

ANIMAL					DAM		
Animal ID	Sex	Herd	Fee Code	Amount (\$)	Dam ID	Herd	Fee Code
HO840003307804620	F	00000000			HO840003247725249	93540648	3

GET FEE

INPUT: Herd ID Number(s).

E.g. 21080347

Maximum 50 items/once
Over 50 items: [Data Exchange](#)

Herd ID ▾

21080347

Found 1/1 result sets

Run Query

Clear

EVAL DATE: August 2025

Get Fee by Herd ID

Export CSV

Herd ▾	Fee Code	Yield	Health	Type
21080347	2	Yes	No	Yes

DATA EXCHANGE – SPECIAL SECTION

SEARCH FOR:

Animal ID (17 bytes) ▾

API REQUEST:

Get Herd Code and CDCB Fee for Specified Ani...



No File Chosen



Drag and Drop to UpLoad or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File(.txt) including Animal ID with one entry per line (E.g.

Get JSON/CSV
File(s)

Clear



☐ Select All

☒ Get Herd Code and CDCB Fee for Specified
Animal ID

☐ History of Genotypes

☐ Sample ID Lookup

☐ Suggested Dam

Qualifying for an evaluation:

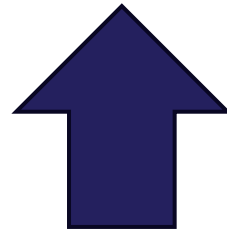
Nomination must be successful with a CDCB fee code assigned for the animal



The animal's genotype must pass a robust process to determine which genotypes qualify for an evaluation



Animal receives its preliminary, unofficial weekly genomic evaluation



Usable Genotypes for Evaluation

- Once a genotype is loaded for the nominated animal, the genotype must pass usability checks and have a Use Weekly Timestamp applied to enter its first evaluation
- Usable genotypes (with usability = Y):
 1. Have passed quality control checks
 2. Do not have a sex conflict with the animal's pedigree
 3. Do not have genomic conflicts with close relatives that make the animal's pedigree appear unreliable

Usable Genotypes for Evaluation

- Usable Genotype \neq Use Weekly Timestamp!
- Common Causes:
 - Fee Code = N
 - Maternal Grandsire (MGS) Unlikely
 - Animal's BBR breed does not agree with the animal's ID breed
- Some additional considerations for animal sex may determine if an animal is in an evaluation...

Female Qualifications

- At least one usable genotype
- A Use Weekly Timestamp has been applied
- Animal must meet *all* of the criteria before evaluation deadlines!
- Requester of genotype and requester on nomination should match (unless a share file for results has been submitted)

Male Qualifications

- Must meet the female qualifications plus additional requirements around NAAB status and domestic vs foreign
 - Easier to explain what would prevent an evaluation:
 - Foreign bull* over 16 months of age without enrollment with NAAB
 - Bulls with certain NAAB A.I. Status Codes (P/G/A/F/I) only receive triannual evaluations
- *Foreign bulls do not have *public* evaluations unless they are enrolled with NAAB

Qualifying for an evaluation:

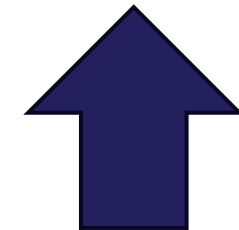
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Current Evaluation Types

- **Weekly:** Preliminary genomic evaluations released every Tuesday
- **Monthly:** Genomic evaluations released on the first Tuesday of a month
- **Triannual:** Genomic and traditional evaluations released three times a year in April, August, and December

Current Triannual Evaluations

- Incorporate updates to trait and index calculations
- Inclusion of latest phenotypic data
- Have an earlier cutoff date than monthly evaluations to allow inclusion of traditional evaluations and evaluations from Interbull
- Files are password protected and published on WebConnect and the following HTTPS link:
<https://webconnect.uscdcb.com/base/ftp/pub/>

Bull Reminders for Triannuals

- Evaluations for bulls in NAAB A.I. Status codes P/G/A/F/I only released in the triannual
- Foreign bulls that are not enrolled with NAAB do not have *public* evaluations
- Foreign bulls over 16 months of age no longer have evaluations generated unless enrolled with NAAB

Current Monthly Evaluations

- SNP effects are updated each month
- No new phenotypic data is applied to monthlies
- All animals (except for some bulls) receive updated evaluations each month
- Qualify as official evaluations

Current Weekly Evaluations

- Preliminary because new SNP effects are not applied
- Intended to be used for quick herd management decisions: culling and breeding
- Includes all usable genotypes that have a Use Weekly Timestamp from 6PM EST of the preceding Sunday
- Limited to one weekly evaluation per animal
- After inclusion in the first weekly extraction, the fee code cannot be reverted to N and genotype can no longer be withdrawn

Checking an Animal on WebConnect

- Queries: Search for “Animal ID (17 bytes)” or “Animal ID + Sex Code (18 bytes)” > Genotype Tab
- Data Exchange > Genotype: Search for Animal ID (17 bytes)” or “Animal ID + Sex Code (18 bytes)” + API Request “Genotype Nomination Status”

Summary

- Successful nomination and genotype usability determine an animal's eligibility for evaluation
- Evaluation and publication rules are different between male and female animals
- CDCB currently produces three types of evaluations: Weekly, Monthly, and Triannual evaluations that have different characteristics

Coming Soon...

- Today's presentation discusses the 2026 CDCB evaluation schedule and publication rules
- With the implementation of single-step in 2027:
 - New phenotypes will be included monthly instead of triannually
 - Base changes will occur yearly instead of every five years
 - Publication rules for evaluations will be updated and documented

Questions?

Thank you!