

COUNCIL ON DAIRY CATTLE BREEDING

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Council on Dairy Cattle Breeding Fee Schedule for Genomic Evaluation Fees Effective March 22, 2013

**These fees apply to all animals whose genotype was received by CDCB-USDA March 1, 2013, or later and for genotypes received earlier for parentage only and then subsequently submitted for genetic evaluation.
(Updated December 17, 2013)**

The U.S. system is recognized as a leading genetic evaluation system and standard around the world. The Council on Dairy Cattle Breeding (CDCB) plan is to allow access to the system so that the U.S. genomic evaluations can be incorporated into genetic selection programs worldwide.

In the genomics era, the service required to prepare the dataset, run the genomic evaluations 12 times a year plus 3 official sire summaries in April, August and December, and distribute these genomic evaluations has increased exponentially. Furthermore, there is a need to grow the database to ensure there is sufficient type, production, health and fitness data to refresh the single-nucleotide polymorphisms (SNP) estimates every generation.

The genomic fees are structured in such a manner that those who are providing the most data or information of the greatest value to the cooperator database are rewarded for their contribution. The fee schedule encourages contributors to not only maintain but grow the amount and kinds of data they are contributing to the system to improve genomic estimates in the future. The CDCB board approved the fees in the following table at their February 18, 2013 board meeting.

Submitters or nominators can determine the appropriate genomic evaluation fee using a query system that will return a code from 1 to 3, based on the herd's previous data contribution to the cooperator database. Rate code 1 is associated with *Total Program*, rate code 2 is associated with *Member* and rate code 3 is associated with *Non-member*.

Some examples are:

- A rate code 1 is available to a submitter whose animals have supplied the most valuable and quality data into the cooperator database.
- A rate code 3 indicates there is limited contribution of data to the cooperator database.

After each official genetic evaluation (April, August and December), herds will qualify for rate code 1, 2 or 3, based on the herd's previous contribution to the cooperator database. The rate code assignments will take effect **on the release date of the official genetic evaluation.**

An animal or its dam must be in a herd that meets the criteria in footnote 5 and/or 6 to qualify for rate code 1 or 2. Rate code 3 is for all other animals in the United States seeking genomic evaluations.

For rate codes 1 (see footnote 5) and 2 (see footnote 6), the fee to be paid is established by the date the animal is nominated for genomic evaluation and the DHI herd inventory associated with the animal or its dam on that date. Therefore, a foreign-born animal can qualify for rate codes 1 or 2, based on its dam. For rate code 3 (see footnote 7), the fee to be paid is established by the date the animal is nominated and the DHI herd inventory associated with the animal. For rate codes 4 (see footnote 8), 5 (see footnote 9) or 6 (see footnote 11), the fee to be paid for an animal is based on the country where the animal resides at time of nomination.

All required *Female Fees* and *Initial Male Fees* will be collected by the nominator. *AI Service Fees* will be collected by NAAB. **All fees collected will be forwarded to CDCB.** The *Female Fee* and *Initial Male Fee* will be charged only on the first genotype submitted for that animal.

The *Female Fee* and *Initial Male Fee* for genomic evaluations will be charged for genotypes received by CDCB-USDA. There will be no refund of fees, even if the genomic test results do not work to the submitter's satisfaction or a male is not placed into service. The footnotes to the fee schedule provide explanations to help determine the appropriate codes.

For further information, please email: enquiry@cdcb.us or Tel: 301.525.2006

Council on Dairy Cattle Breeding (CDCB) Fee Schedule for Genomic Evaluation

Fees Effective March 22, 2013

These fees apply to all animals whose genotype was received by CDCB-USDA March 1, 2013, or later and for genotypes received earlier for parentage only and then subsequently submitted for genetic evaluation.

The following fees are in addition to lab and nominator fees.

Rate Code	Kind of Participation	Female Fee ^{1, 2, 14}	Initial Male Fee ^{1, 3, 14}	AI Service Fee Males ^{1, 4, 14, 15, 16}
1	Total Program⁵	\$0.00	\$20.00¹⁰	\$800.00¹⁰
2	Member⁶	\$2.00	\$30.00	\$800.00
3	Non-member⁷	\$5.00	\$200.00	\$800.00
4	Canada⁸	\$8.00	\$200.00¹²	\$800.00¹²
5	Approved Partners⁹	\$10.00	\$20.00¹²	\$800.00¹²
6	All others¹¹	\$10.00	\$200.00¹³	\$1,600.00¹³

Footnotes

1. Each animal nominated must have a unique permanent ID.
2. Genotyped females will receive a genomic evaluation monthly. If a female is retested, there will be no additional CDCB fees for female genomic evaluations. Lab and nominator fees for secondary genotyping test(s) may apply.
3. Genotyped U.S. males (as defined in footnotes 5, 6, 7 and 10) will receive a genomic evaluation monthly. Foreign genotyped males will receive a genomic evaluation monthly up through 15 months of age with the genomic evaluation only provided to the nominator. Foreign males (as defined in footnotes 5, 6, and 8 through 13) must pay the AI Service Fee: 1) to get a genomic evaluation publically released past 15 months of age and 2) for use on pedigrees. If a male is retested, there will be no additional CDCB fees for initial male genomic evaluations, but male *AI Service Fees* will apply. Lab and nominator fees for secondary genotyping test(s) may apply.
4. Multiple-herd AI bulls or multiple-owner/syndicate bulls with a genomic evaluation and a first semen release date of March 1, 2013, or later must enroll in the NAAB Cross Reference Program and pay the designated one-time *AI Service Fee* if the US genomic evaluation is being used to sell semen. *AI Service Fee* is based on the controlling organization. NAAB will collect the *AI Service Fee* and forward the collected fees to CDCB. The requirement to pay an *AI Service Fee* should be part of the signed nomination form so the submitter is informed of the rules when paying the *Initial Male Fee*. If semen is only used in the owner's herd(s), an *AI*

Service Fee is not required and, in this case, the bull will not appear on any lists that are based on Cross Reference Status Codes.

5. Eligibility for *Total Program* rate requires that the animal or its dam must be in the herd inventory of a DHI herd that has contributed to the cooperator database by having at least 50% (or 100 animals) of the eligible first lactation animals calving in the prior 14 months receive official cow evaluations for milk yield and have at least 4 animals classified (appraised) in the previous 16 months that contribute to the breed association's genetic linear trait and type evaluations. Eligibility of animals is impacted by evaluation edits. An example would be in-progress lactations having <40 days in milk at run cutoff are not included in the genetic evaluations.
6. Eligibility for *Member* rate requires that the animal or its dam must be in the herd inventory of a DHI herd that has contributed to the cooperator database by having at least 20% (or 50 animals) of the eligible first lactation animals calving in the prior 14 months and receive official cow evaluations for milk yield. A herd that did not contribute production data to the cooperator database but classified all required first lactation females at least once in the 16-month period prior to the latest genetic evaluation may qualify for *Member* rates. The breed associations will need to provide information to CDCB so it can be determined which herds and/or animals meet the *Member* rate via the linear trait and type route.
7. *Non-member* rates are available for animals in a U.S. herd that does not qualify for *Total Program* or *Member* rates.
8. Females or males born and residing in Canada will be in the *Canada* rate (Code 4) due to the exchange of all genotypes between Canada and the United States. The fee will be collected by nominators on behalf of CDCB.
9. Males submitted by Approved Partners that are born in the USA will be subject to the *Approved Partners* rate (Code 5) due to an agreement to exchange male genotypes with the United States. Males submitted by Approved partners that are born outside of the USA will be subject to the initial fee of the home country of the Approved Partner. There will be no Initial Male Fee for these males to get a US genomic evaluation but the appropriate AI Service Fee will still apply if the US evaluation is used to market the bull. Males submitted by Approved Partners that are not an approved nominator of CDCB will be nominated by NAAB. Males from the Approved Partner countries that are submitted by individuals or organizations that are not Approved Partners will use the *All other rate* (code 6).
10. A U.S. citizen, regular NAAB member or CDDR member or organization with a parent company in the United States, which is in the semen selling business that has a signed contract to:
 - a) purchase a bull, or
 - b) purchase 1st choice of all the bulls in a flush, or
 - c) lease a bull with marketing rights in all or all but one (1) country, or
 - d) lease 1st choice of all bulls in a flush with marketing rights in all or all but one (1) country

are required to pay the *Initial Male Fee* of \$20.00 for each bull, regardless of the bull's

country of origin, except for bulls from Approved Partners countries in which case Footnote 9 applies to both initial and service fees. The *AI Service Fee* will be \$800.00 for any male owned or leased under the situation described above. Other males will require the higher designated *Initial Male Fee* and/or *AI Service Fee*. If a bull receives a U.S. genomic evaluation after March 5, 2013, and it is determined there was not a signed purchase contract or the lease did not conform to the above conditions, the person or organization marketing the bull will be subject to a \$10,000.00 penalty collected by CDCB for each bull and may lose the privilege of genomic testing males for up to 1 year. Please be aware that any bull with a foreign country code will be limited to the publication requirements in footnote 3 above, even those receiving the \$20.00 *Initial Male Fee*. Note: The submitter is responsible for verifying to the nominator the origin of citizenship or U.S. corporate status at the time of nomination.

11. Those not qualifying for Codes 1 to 5 rates will pay the *All others* rate.
12. If bulls nominated by Canada or approved partners from the United Kingdom or Italy (currently DairyCo or ANAFI) are older than 15 months of age, an *Initial Male Fee* of \$800.00 is required at the time of nomination and the *AI Service Fee* is waived.
13. If bulls nominated by *All others* are older than 15 months of age, an *Initial Male Fee* of \$1,600.00 is required at the time of nomination and the *AI Service Fee* is waived.
14. Fees are determined by the DHI herd code or country of origin. Therefore, when nominating an animal, the DHI herd code associated with the animal or its dam in the herd inventory, or the 3-letter country (e.g. CAN, ITA, USA, etc.) of the animal must be supplied.
15. Marketed AI bulls (those with Cross Reference Status Codes of P, G, A, F, L and I) will only receive a genetic evaluation 3 times a year in the official evaluations. (See acronyms.)
16. If it is discovered that semen has been sold using a US genomic evaluation on a bull with a semen release date of March 1, 2013, or later and notice of the intent or payment of *AI Service Fee* have not been paid at the time the first semen was sold, the appropriate fee must be paid plus a \$1,000.00 late fee. In addition, the owner(s) may lose the right to genotype males for an indefinite period, at minimum, until all fees due on all bulls are paid.

AVAILABILITY OF U.S. GENOMIC PREDICTIONS TO COOPERATING ORGANIZATIONS IN ITALY AND THE UNITED KINGDOM:

Genomic predictions for males controlled by approved partners in Italy and the United Kingdom (Approved Partners) will be provided to those organizations and will not be included in the U.S. files past 15 months of age unless *AI Service Fee* is paid.

Please be aware that other males with a foreign country code will be limited to the publication requirements in footnote 3, even those males qualifying for the \$20.00 *Initial Male Fee*.

Acronyms and Definitions

Approved Partners = members of CDDR, DairyCo in UK and ANAFI in Italy.

CDCB = Council on Dairy Cattle Breeding

NAAB = National Association of Animal Breeders

CDDR = Cooperator Dairy DNA Repository

DHI = Dairy Herd Information or Dairy Records Providers

Cross Reference Status Codes

Progeny-test (P) = A dairy bull with no USDA-CDCB published genetic evaluation, but semen has been distributed in 10 or more herds for progeny test.

Genomically tested (G) = A dairy bull which has been genotyped and is being actively marketed based on information from fewer than 10 daughters and is at least 12 months of age.

Active AI Sire (A) = A dairy bull, progeny tested in the United States, with a USDA-CDCB published genetic evaluation, or a dairy bull progeny tested outside the United States, with an official USDA-CDCB evaluation, must be listed as an active AI sire, provided the bull's semen is routinely available in the U.S. AI domestic market. It is further provided that for a Holstein bull to be eligible as an Active AI sire, at least 750 units of semen must have been sold from central inventory during the immediate six months, or his semen is being made available for the first time.

Foreign (F) = A dairy bull which does not qualify for the Active status but has an Interbull genetic evaluation and his semen is routinely available in the United States at the current published price.

Limited (L) = A dairy bull with a USDA-CDCB published genetic evaluation and semen is available in limited amounts (less than the requirement for Active status). The bull may be either alive or dead.

Inactive (I) = A dairy bull which has had semen released, but semen is no longer available for sale. This status includes bulls which have died and no longer have semen available, or bulls which are alive but semen is not available.