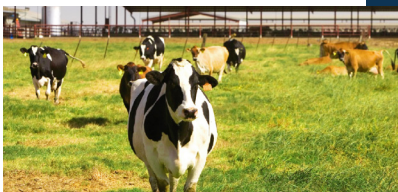




COUNCIL ON DAIRY CATTLE BREEDING



HOW DOES THE COUNCIL ON DAIRY CATTLE BREEDING SUPPORT DAIRY PRODUCERS?

- **Provides premier dairy genetic information services**, genetic and genomic evaluations, and management performance benchmarks
- **Manages the national cooperator database** of U.S. dairy phenotypic and genomic data, the world's largest cattle database
- **Leverages cutting-edge research**, working with USDA AGIL*, to produce quality evaluations and genetic indexes as Net Merit \$
- **Expands the foundation** of more than a century of recorded U.S. dairy cattle performance and research
- **Supports genetic progress** and continuous improvement in dairy herds worldwide

**United States Department of Agriculture, Animal Genomics and Improvement Lab*

WHAT'S NEW AT CDCB?

NEW TRAITS RECENTLY LAUNCHED

Feed Saved (2020)

Heifer Livability (2020)

Early First Calving (2019)

Disease resistance (2018 Holsteins, 2020 Jerseys)

- Displaced abomasum
- Mastitis
- Hypocalcemia
- Metritis
- Ketosis
- Retained placenta

Cow Livability (2017)

NET MERIT MAXIMIZES EFFICIENCY, PROFIT

The Net Merit genetic index was revised in August 2021 to incorporate new, economically important traits. Learn more at www.uscdcb.com/net-merit-2021-2/.



CDCB aims to add value to U.S. dairy and expand data pipelines, via automated systems, on-farm sensors and software, novel milk analyses and other evolving technologies. CDCB and collaborators are currently working on solutions to improve hoof health and mobility.



COUNCIL ON DAIRY CATTLE BREEDING

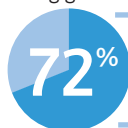
CDCB MISSION

To drive global dairy cattle improvement by using a collaborative database to deliver state-of-the-art genetic merit and performance assessments for the herd decision making.



2009
Year **genomic**
evaluations
available in U.S.

Young genomic sires account for

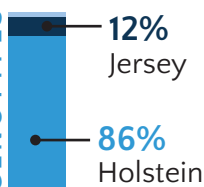


all A.I.
breedings
in U.S. (2020)



5.6 million
genotypes in world's
largest cattle database.

GENOTYPES



9% of genotypes
are male



91% of genotypes
are female

1.09M animals genotyped in recent 12 months
10.1.20 to 9.30.21

6 annual
DHI summaries
produced

4.08M cows
in **11,691** herds enrolled in
DHI test plans (2021)

10%
of DHI herds
are **multi-breed**



50 traits calculated by CDCB

◦ **4** selection
indexes

◦ **5** production
traits

◦ **21** health, fertility
& calving traits

◦ **22** conformation
traits

◦ **25** official genetic
conditions & haplotypes

Weekly genomic
predictions for new
genotyped animals

Monthly
genomic
evaluations

Triannual evaluations
conventional, genomic
& Interbull (in APR, AUG & DEC)

13M Lactation, calving, breeding and
health records added for each
triannual genetic evaluation

7.5M DHI records in CDCB
health evaluations,
Holstein & Jersey

WHO DOES CDCB COLLABORATE WITH?

- Dairy producers
- Dairy Records Providers (DRP)
- Dairy Records Processing Centers (DRPC)
- National Association of Animal Breeders (NAAB)
- Purebred Dairy Cattle Association (PDCA)
- Genotyping labs
- Genomic nominators
- International partners
- Universities
- USDA Animal Genomics and Improvement Laboratory (AGIL)



CDCB is a non-profit dairy driven company that provides pre-competitive services and products in an independent and transparent framework to improve the genetics and management of dairy herds worldwide.