

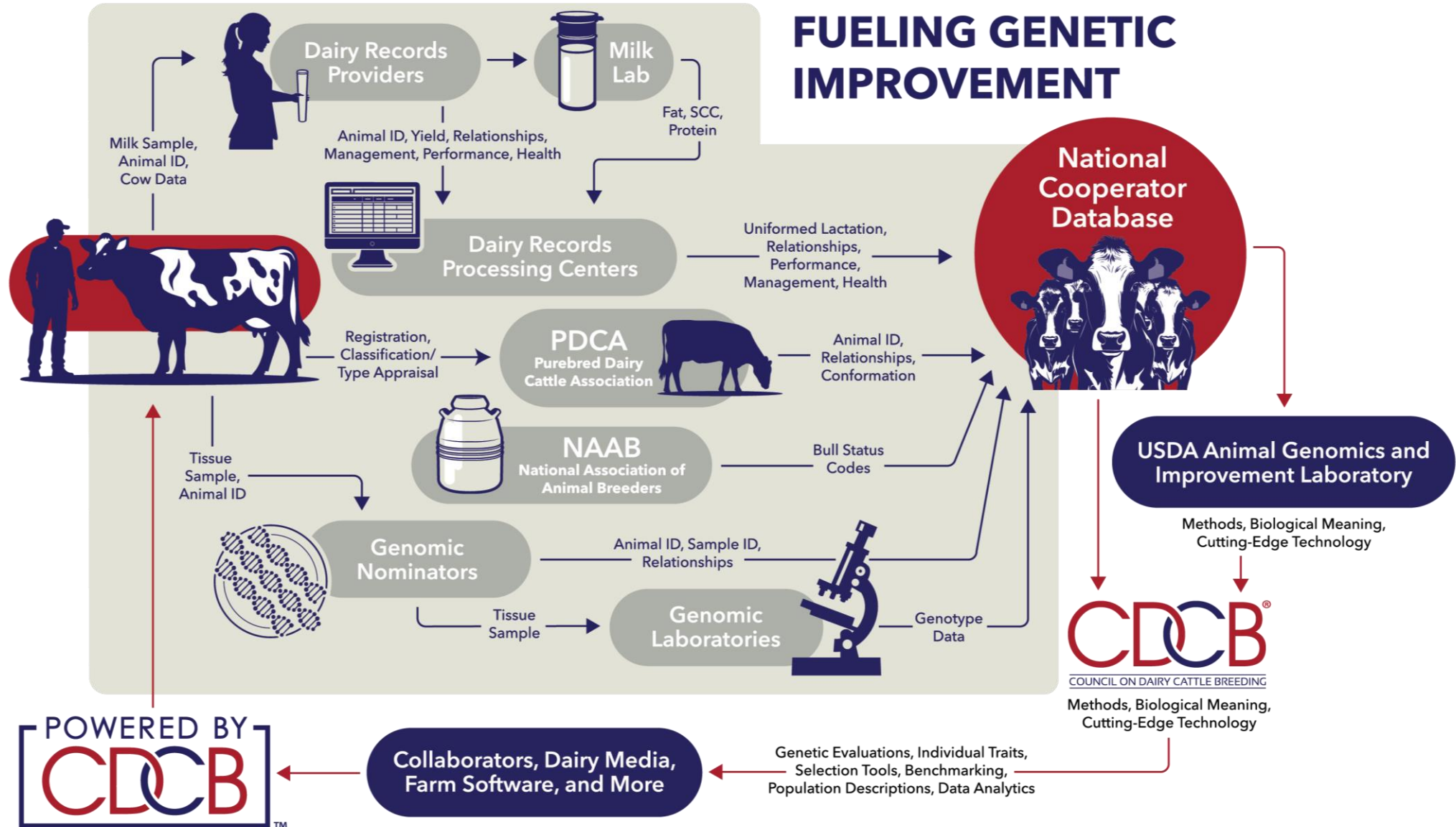
CDCB Data Flow and File Exchange

Hannah Templeton

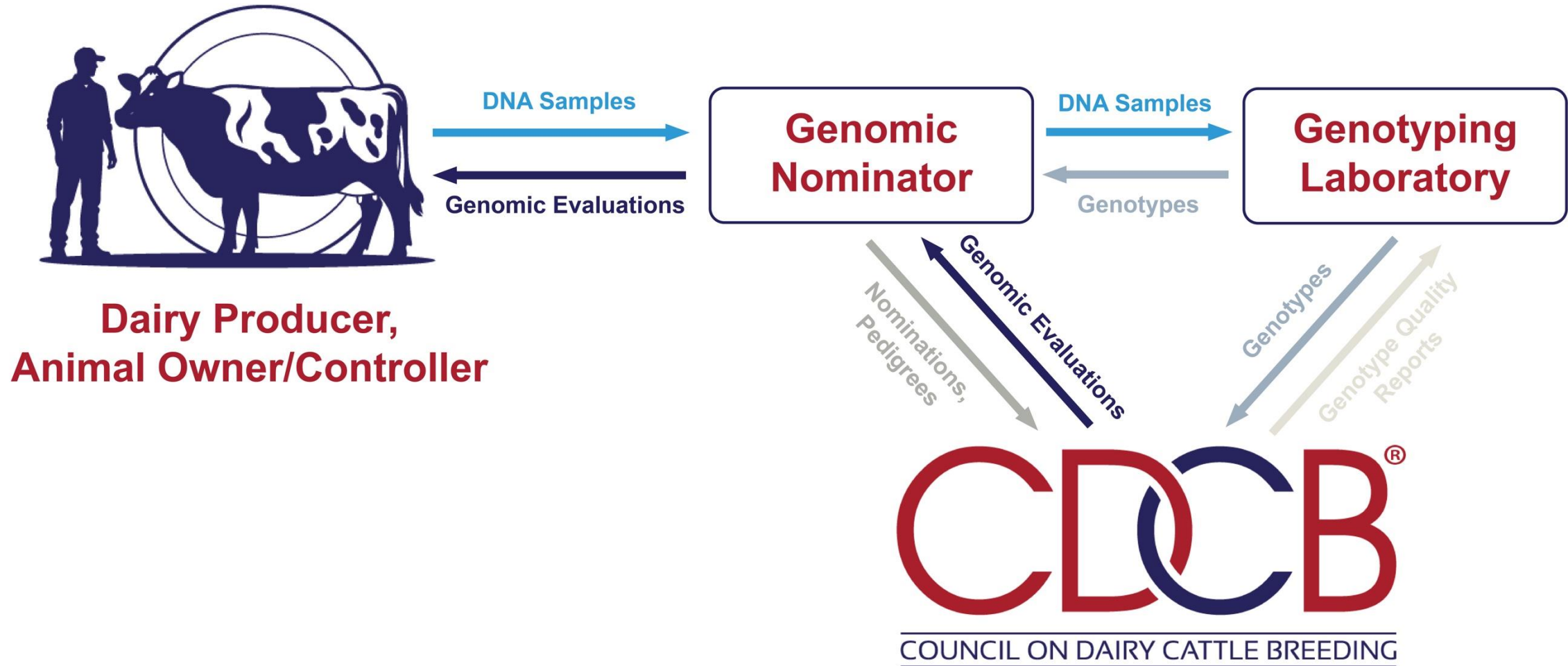
Data Support Specialist

05/20/2026

NATIONAL COOPERATOR DATABASE



How to Request a Genomic Evaluation



Data Submission

Nominators

Nomination + pedigree

- Submission of format1 (G,P) through SFTP
- Submission through WebConnect

Labs

Genotype Files (Sample Sheet + Final Report)

- Submission through SFTP ***ONLY***

Secure File Transfer Protocol (SFTP)

Nominator SFTP

```
dr-xr-sr-x 2 root ftpun 17 Mar 18 11:27 dev
drwsrwsr-x 2 1060 ftpun 6 May 12 13:29 in
dr-srwsr-x 2 1060 ftpun 61440 May 12 13:29 out
```

Lab SFTP

```
drwsrwsr-x 4 1030 ftpun 27 Jan 4 2021 QTurn
dr-xr-sr-x 2 root ftpun 17 Mar 18 11:27 dev
drwsrwsr-x 2 1030 ftpun 8192 May 3 17:17 check
drwsrwsr-x 2 1030 ftpun 6 May 12 10:52 in
dr-srwsr-x 2 1030 ftpun 12288 May 12 13:02 out
```

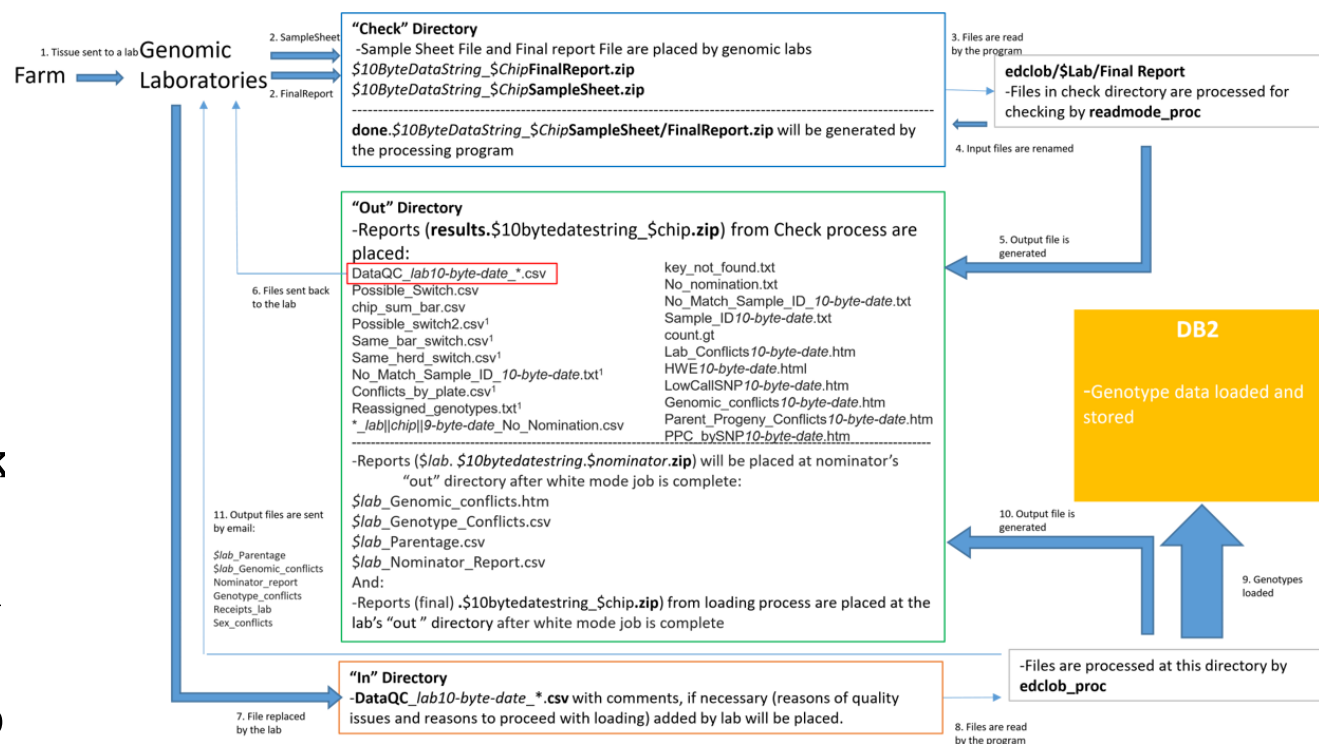
- Data exchanges via files happens in SFTP
- “in” folder for incoming files and “out” folder for outgoing files
- Lab gets additional folder called “check”
 - Genotypes can be loaded from SFTPs only
- Files get picked up by our automation if there is no pending job prior to your submission
- Some files in “out” directory are zipped after 24 hours to save storage (20240730.zip)

SFTP vs WebConenct

	SFTP	WebConnect
Ease of use	Required to follow format1 format	Graphical User Interface, user friendly
Number of records + submission	Batch submissions allowed	Limitation in number of submissions (Data exchange for batch is available for some data)
Record type flexibility	Most record types accepted (P, X, C, R, etc.)	Some record types not supported (such as C and D)
System	Some infrastructure might need to be built, but automation is possible	No system required, manual work involved

Genotype Submission

- Labs submit Sample Sheet files (contains sample info), and Final Report files (contains actual genotypes) in zipped files to “Check” directory for QC.
- Once QC is done, many QC report files are placed in “out” directory.
- Data QC** file contains pass/fail from QC check
 - Put a comment (if there are any failed metrics) after investigating the issue and still want to proceed
 - No comments are required for submission that pass QC check
- Placing **Data QC** file in “in” directory triggers the system to proceed with loading.



General Files Distributed for Labs

- Zip files generated from **check** process:
results.YYYYMMDDXX_ZZZ.zip
- Zip file generated from **write mode** process:
final.results.YYYMMDDXX_ZZZ.zip

YYYY = Year (2024)

MM= Month (07)

DD = Day (30)

XX = Number of submission

ZZZ = Chip type (ex. 50K for Illumina
BovineSNP50 BeadChip. V1)

- DataQC_lab10-byte-date_*.csv
- Possible_Switch.csv
- chip_sum_bar.csv
- Conflicts_by_plate.csv
- Reassigned_genotypes.txt
- key_not_found.txt
- No_nomination.txt
- No_Match_Sample_ID_10-byte-date.txt
- Sample_ID10-byte-date.txt
- count.gt
- Lab_Conflicts10-byte-date.htm
- HWE10-byte-date.html
- Parent_Progeny_Conflicts10-byte-date.htm
- PPC_bySNP10-byte-date.htm
- LowCallSNP10-byte-date.htm
- Genomic_conflicts10-byte-date.htm (Check_Errors_20200911.csv)
- GE1k_progeny.csv
- Existing_genotype_negative_key.csv
- Excessive_Homozygous_LABYYYYMMDD.csv (upon loading)

General Files Distributed for Nominators

- Files are generated on 5 occasions: weekly, monthly, triannual, upon data submission, and daily processing (-o job)
- Files include information like: evaluation, notifications, QC, and updates
- Notify files might be the file that you check most frequently

```

85981 May 12 00:01 20260510.zip
2252 May 12 04:26 Semex_Genomic_Errors_20260512_04:25:48.csv
1539 May 12 04:36 Semex_Ped_changes_20260512_04:26:24.csv
864 May 12 04:36 Semex_ID_changes_20260512_04:26:24.csv
257 May 12 04:36 Semex_Name_Change_20260512_04:26:24.csv
2860 May 12 04:38 Semex_Parentage_20260512_03:30:09.csv
531 May 12 06:11 notify_VAL.20260512.1G.22318
531 May 12 06:12 notify_VAL.20260512.1G.22319
531 May 12 06:12 notify_VAL.20260512.1G.22321
531 May 12 06:12 notify_VAL.20260512.1G.22323
531 May 12 06:12 notify_VAL.20260512.1G.22324
531 May 12 06:12 notify_VAL.20260512.1G.22326
531 May 12 06:12 notify_VAL.20260512.1G.22328
531 May 12 06:22 notify_VAL.20260512.1G.22330
531 May 12 06:22 notify_VAL.20260512.1G.22931
531 May 12 06:22 notify_VAL.20260512.1G.22933
531 May 12 06:22 notify_VAL.20260512.1G.22934
531 May 12 06:22 notify_VAL.20260512.1G.22936
531 May 12 06:22 notify_VAL.20260512.1G.22937
531 May 12 06:22 notify_VAL.20260512.1G.22939
531 May 12 06:22 notify_VAL.20260512.1G.22940
531 May 12 06:22 notify_VAL.20260512.1G.22942
531 May 12 06:22 notify_VAL.20260512.1G.22944
531 May 12 06:22 notify_VAL.20260512.1G.22945
531 May 12 06:22 notify_VAL.20260512.1G.22947
531 May 12 06:22 notify_VAL.20260512.1G.22948
531 May 12 06:22 notify_VAL.20260512.1G.22950
531 May 12 06:22 notify_VAL.20260512.1G.22952
136999 May 12 06:48 notify.20260512.1b
93912 May 12 06:48 20260512.1be
415 May 12 07:00 Semex_chgfee_20260511.csv
25878 May 12 07:46 CDDR_CHEeval_Semex_2605_2.csv
2292524 May 12 07:55 stud200_20260510.zip
531 May 12 08:25 notify.20260512.1G.30307
531 May 12 09:06 notify.20260512.1c
364 May 12 09:06 20260512.1ce
2061 May 12 09:47 notify.20260512.10
1456 May 12 09:47 20260512.10e
531 May 12 10:00 notify_VAL.20260512.1G.36006
531 May 12 10:00 notify_VAL.20260512.1G.36007
531 May 12 10:00 notify_VAL.20260512.1G.36009
531 May 12 10:00 notify.20260512.1G.36011
531 May 12 10:00 notify.20260512.1G.36014
531 May 12 10:00 notify.20260512.1G.36018
7390 May 12 12:47 Semex_Parentage_20260512_12:00:08.csv
103 May 12 12:49 Semex_to_not_usable_20260512_12.csv
1041 May 12 13:29 notify.20260512.11
728 May 12 13:29 20260512.11e

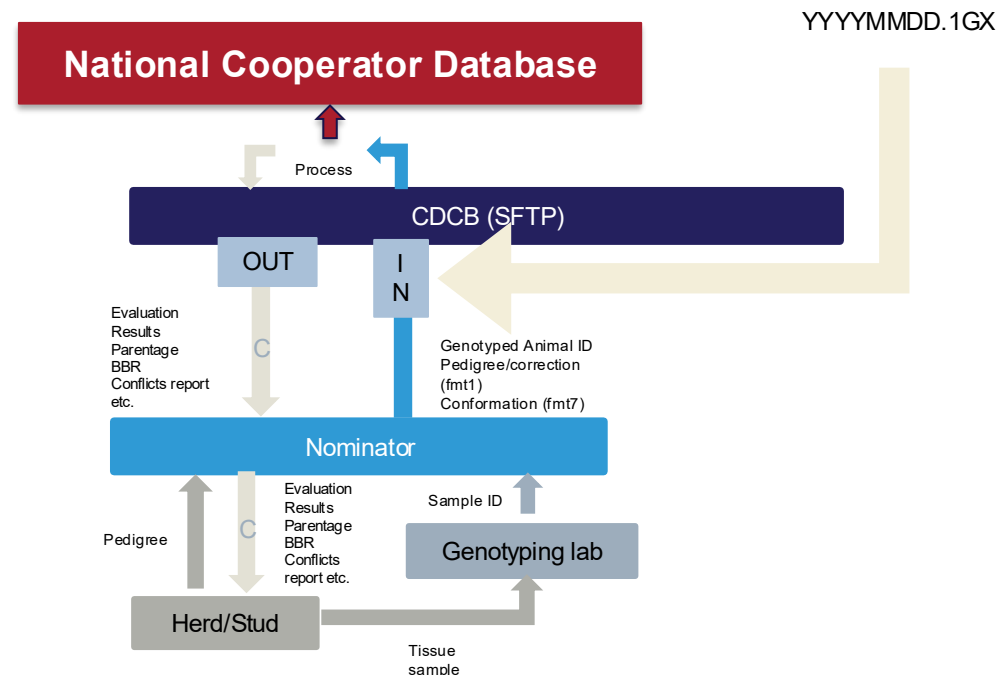
```

Nomination

- Nomination is a process of providing pedigree, assigning a fee code, and indicating what service you would like to receive
- Notify file will report any nomination related errors
- Nominations can be made on WebConnect through Bulk Nomination under the Special Section tab or under the Genotype Tab
- Nomination should be done before the genotype submission

https://redmine.uscdcb.com/projects/cdcb-customer-service/wiki/Create_a_format1G

https://redmine.uscdcb.com/projects/cdcb-customer-service/wiki/Format_1



ANIMAL: BSUSA000068174286

1 Update Information

2 Review Changes and Submit

Nom. Date	Requester	Group/Herd	Herd Code Difference Reason Code	Fee	Fee Assigned Date	Mod Date	
2016-03-02	BS	35051162		2	2016-03-02	2016-03-12 12:00	
2024-06-04	ABS			1			✓ ✗

Cancel Next

Final Step

Please make sure the nomination/pedigree was processed successfully by looking at notify files in your **out** directory!

- **notify_VAL.YYYYMMDD.1GX**

Notify whether the animal was nominated successfully or not regardless of existence of errors.

- **notify_ERR.YYYYMMDD.1[G]X**

Notify only if error/change needs to be informed.

Data Submission Deadlines

July 2026 genomic evaluations

June 22, 2026	International genotype exchange data due (for CDDR exchange partners)
June 26, 2026	Genomic data due
July 7, 2026	Evaluation release (8 a.m. ET)

August 2026 official evaluations

July 3, 2026	Calving ease data [format CES] (12 a.m. ET)
July 9, 2026	Pedigree [format 1], lactation [formats 4 and 14], reproductive-event [format 5], health-event [format 6], milking-speed [format 8], bull-owner [format 2], herd-owner [format 2], type [format 7] for breeds other than Holstein, recessive codes [format REC], and AI-update [format 395] data due at CDCB (12 a.m. ET)
July 21, 2026	Type evaluations for breeds other than Holstein available for downloading to respective breed associations
August 7, 2026	Password-protected CDCB official evaluation files [formats 38 and 105] and herd-owner ID file [format 2] available for downloading (target 1 p.m. ET)
August 11, 2026	Evaluation release (password 7 a.m. ET; web queries shortly after password release)
August 13, 2026	Active A.I., foreign, and sorted lists and updated bull status codes posted (target 1 p.m. ET)

<https://uscdcb.com/genetic-evaluation-schedule/2026/>

Summary

- Due to the variety and complexity of the data we exchange, CDCB outputs many kinds of files with different information (confirmation, error/conflicts, results, notification, etc.)
- Utilizing CDCB documentation, as well as your own internal documentation, should help with understanding these files

Thank you!
