



NEW LOOK FOR ONLINE ACCOUNTS AND GENOMIC REPORTS

Holstein Canada's Business and Technology Solutions staff, along with our Research & Development Analyst, has been busy making some visual changes to online accounts and genomic reports.

For producers who do not have an Online Account, you can easily create one by visiting our website holstein.ca and clicking on the yellow Create Account link in the top right-hand corner of our home page.

When producers login to their online member accounts, they will now see user friendly, clickable icons instead of the previous clickable table (see Figure 1).

FIGURE 1

My Herdbook



Your genomic results can now be filtered to find the exact results you're looking for rather than every animal ever tested.

The Herd Trend report (not to be confused with the herd trend reports left on-farm after a classification visit) has traditionally been one large report. It is now separated into three smaller, targeted reports categorized as: Activity Report, Performance Trends, and Master Breeder Analysis. These will allow producers easy access to the desired information. If a report is unavailable, the icon will be shaded out.

These reports will vary depending on the herd's participation in breed improvement tools. For example, the performance trends report compares genotype (DNA) to phenotype (actual performance). If a herd does not participate in classification or milk recording, only the genetic trends will be available. Genetic trends are based on pedigree information obtained for registration.

All three reports benchmark your herd against the national average. Both the activity report and performance trends are updated quarterly, typically two to three weeks after the official proof run.

The Activity Report includes:

- Registration trends
- Inbreeding trends
- Registration Stats on gestation length, red colour %, CVC sire % and more.
- Award statistics
- Top sire use by registration
- Top ranked genetic/genomic animals within the herd

The Performance Trends include:

- Production trends (Genotype vs Phenotype)
- Average BCA trends
- Genetic trends for LPI, Pro\$, Mastitis Resistance, SCS, Herd Life, Calving Ability, Daughter Calving Ability, Daughter Fertility and Metabolic Disease Resistance (*new as of December proofs)
- Conformation trends (Genotype vs Phenotype)
- Active Herd Conformation Trends

Master Breeder Analysis

The Master Breeder Analysis is updated twice annually. Once in January when Master Breeder points are calculated based on the previous year end, and again in October when the preliminary stats are analyzed. This report indicates the producer's rank for Master Breeder award and information on points per registration.

Genomic Results

The other area of upgrade on the landing page includes the "Canadian and US genomic results". Similar to the other reports and trends, if the account does not have any genomic results these icons will be shaded out. The genomic result icons will bring producers to a filtering page rather than the full report for each animal ever tested. Filtering will allow producers to identify specific groups of animals rather than all animals. Producers who are still looking to have one large report still have that option as well.

The filtering is fairly self-explanatory and can be filtered based on release dates, birth dates, breed and sex, as well as by specific animal information (see Figure 2). Producers can select all release dates (interim and official) or specific dates depending on search preference. Please note, when "select all" is selected, it does not include the official releases. When an official release is selected, the display defaults to the most recent tested animals with the "Display new animals only" function. To generate a list of every animal ever tested, turn off this function by toggling "Yes" to "No" for "Display new animals only".

Once the filters have been applied, the table can be sorted by any of the headers (release date, registration number, name, Herd #, date of birth (D.O.B.), Pro\$ and GLPI.) This table can then download based on filters for PDF format and/or Excel format. Producers can also choose to download individual animal reports by simply clicking on the download icon ↓. For producers looking to download everything, select all in the filter, apply filters and then identify your preferred format for download. Download times for PDF format may vary depending on file size as a result of new formatting. For producers who have requested US genomic results, the same filtering options are available.

FIGURE 2

Genomic Results

Date	Registration #	Name	Herd #	D.O.B.	Pro\$	LPI Code	GLPI
09 Aug 2016	HOCANF1015889598	STE ODILE NADINE ASTRE	9598	2009	-070	OFFICIAL	1435
09 Aug 2016	HOCANF103344800	MADYSTAR BESSE DUPLEX	4800	2006	-556	OFFICIAL	1598
09 Aug 2016	HOCANF103344805	MADYSTAR MADISON STORMATIC	4805	2006	-273	OFFICIAL	1666
09 Aug 2016	HOCANF105265158	LEHOUX BAXTER REBEKA	5158	2008	1143	OFFICIAL	2346
09 Aug 2016	HOCANF105276985	GERVILLE OSSETIE JOYRIDE	6985	2008	-504	OFFICIAL	1555



Not only has our landing page received a facelift, but so have the genomic reports (see Figure 3). The reports contain the exact same information as the previous reports, with the addition of Metabolic Disease Resistance, a newly added trait as of December proof. The new layout is visually appealing and will allow producers to quickly identify the animal's deviation from breed average using standard deviations. 🐄

FIGURE 3



HOCANF103344800 | Herd No: 4800
MADYSTAR BESSE DUPLEX
Date of Birth: 22 Jul 2006 ET BW

21 Nov 2016
OFFICIAL GENOMIC VALUES
Panel Density: LD

09 Aug 2016	GEBV	Rel.	Differences From Breed Avg (SD)					Breed Avg	Diff.	Rel+	DGV	
GLPI	1596	78%						1862	-121	+27	1540	
Production	474	81%						757	38	+14	506	
Durability	845	78%						757	-141	+33	757	
Health & Fertility	277	72%						378	-18	+38	277	
PRO\$	\$-556							\$185	-132		\$-597	
PRODUCTION	GEBV	Rel.	Differences From Breed Avg (SD)					Breed Avg	Diff.	Rel+	DGV	
Milk (kg)	-264	81%						214	-55	+13	-310	
Fat (kg)	-35	81%						8	10	+11	-27	
Fat (% Dev)	-0.24	81%						0.00	0.11	+11	-0.14	
Protein (kg)	-15	81%						8	1	+15	-14	
Protein (% Dev)	-0.05	81%						0.00	0.02	+15	-0.03	
CONFORMATION	GEBV	%RK	-15	-10	-5	0	5	10	15	Diff.	Rel+	DGV
Conformation	4	79%								-3	+31	2
Mammary System	-1	79%								-3	+29	-3
Feet & Legs	4	76%								-2	+34	3
Dairy Strength	9	79%								-2	+30	7
Rump	8	76%								-2	+27	7
Udder Depth	4 D									Deep		6 D
Udder Texture	0									Fleshy		-2
Median Suspensory	1									Weak		0
Fore Attachment	0									Weak		-2
Front Teat Placement	2 C									Wide		3 C
Rear Attachment Height	-3									Low		-4
Rear Attachment Width	5									Narrow		4
Rear Teat Placement	1 C									Wide		2 C
Teat Length	2 L									Short		2 L
Foot Angle	0									Short		0
Heel Depth	2									Low		2
Bone Quality	0									Coarse		0
Rear Legs-Side View	1 C									Shallow		1 C
Rear Legs-Rear View	4									Non-angular		4
Stature	2									Short		1
Height at Front End	3									Low		2
Chest Width	11									Narrow		11
Body Depth	8									Shallow		9
Angularity	4									Non-angular		2
Rump Angle	5 L									High		7 L
Pin Width	7									Narrow		6
Loin Strength	7									Weak		7
Thurl Placement	7 A									Back		8 A
FUNCTIONAL	Rating	Rel.	Differences From Breed Avg (SD)					Breed Avg	Diff.	Rel+	DGV	
Herd Life	99 GPA	78%						100	-2	+45	98	
Somatic Cell Score	3.28 GEBV	80%						3.00	0.07	+25	3.32	
Mastitis Resistance	97 GPA	63%						100	0	+24	97	
Lactation Persistence	95 GPA	73%						100	0	+40	95	
Daughter Fertility	96 GPA	75%						100	-1	+42	96	
Milking Speed	99 GPA	74%						100	1	+41	100	
Milking Temperament	93 GPA	71%						100	-6	+38	91	
Calving Ability	99 GPA	75%						100	2	+42	100	
Daughter Calving Ability	104 GPA	72%						100	0	+39	104	
Body Condition Score	104 GPA	78%						100	3	+45	105	

Diff. - Difference (GPA-PA)

Rel+ - Reliability Increase with Genomics