

# Summary Stats

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## Description

- The Summary Stats feature consists of the following sections:
  - Genetic and Phenotypic Trend.
  - Merit Percentile Tables.
  - Breed Means, Bases, Heterosis, and Inbreeding Regressions.
  - Comparison of Active AI Bull Evaluations.
  - Comparison of Genomic and Traditional Evaluations.
  - Bull Statistics.
  - Elite Cow and Heifer Statistics.
  - Average Evaluations by Country of Most Daughters.
  - Source of Top/Bottom 100 Bulls on Each Country's Scale.
  - Inbreeding Information.
  - Genotype Counts.
  - Interbull Conversions

This guide describes the features of the Summary Stats and its supported functions.

**Note:** The features will be hidden/shown when the user access permission.

## Procedure 1: Access the Genetic and Phenotypic Trend page

**Step 1:** Login successfully on <https://40.142.54.172/>

Dashboard

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**Step 2:** Click on the **Genetic and Phenotypic Trend** on the **Summary Stats** Navigate menu

# QUERY

SEARCH FOR  Cattle  Goat

INPUT: Breed, Country Code, and ID Number.  
E.g. JEUSA00067106977  
Maximum 50 items/once  
Over 50 items: Data Exchange

Animal ID (17 bytes)  
Each value must be on a separate line.

- Genetic Trend
- Merit Percentile Tables
- Breed Means, Bases, Heterosis, and Inbreeding Regressions
- Comparison of AI Bull Evaluations
- Comparison of Genomic and Traditional Evaluations
- Bull Statistics
- Elite Cow and Heifer Statistics
- Average Evaluations by Country of Most Daughters
- Source of Top/Bottom 100 Bulls on Each Country's Scale

**Step 3:** This is a report that presents the line chart and Breeding Value data of a selected Trait. There are 2 areas in this report: Search Area & Result Area. Select items dropdown and click on the **Run Query** button

The system will trigger the query to run with selected inputs and the result will be returned



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# GENETIC TREND

BREED:

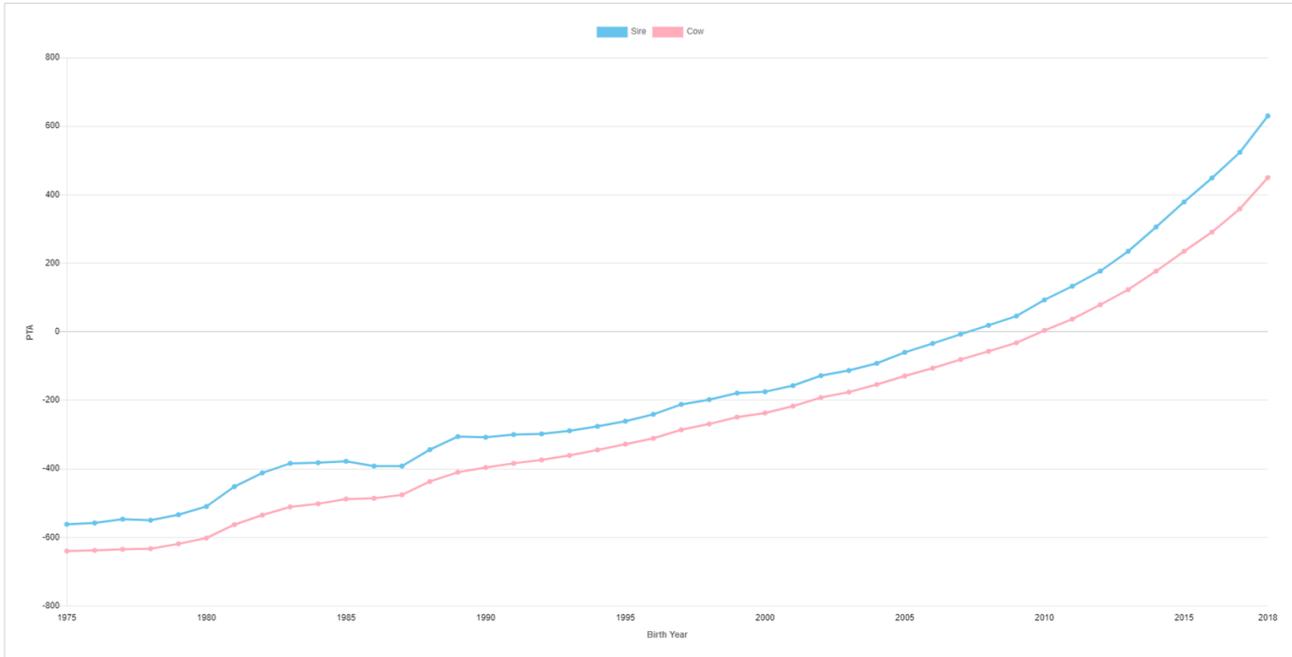
INDEXES & TRAITS:

Download button - Clicking on this, it will allow the user to select one from three following options: Chart, CSV, Chart and CSV

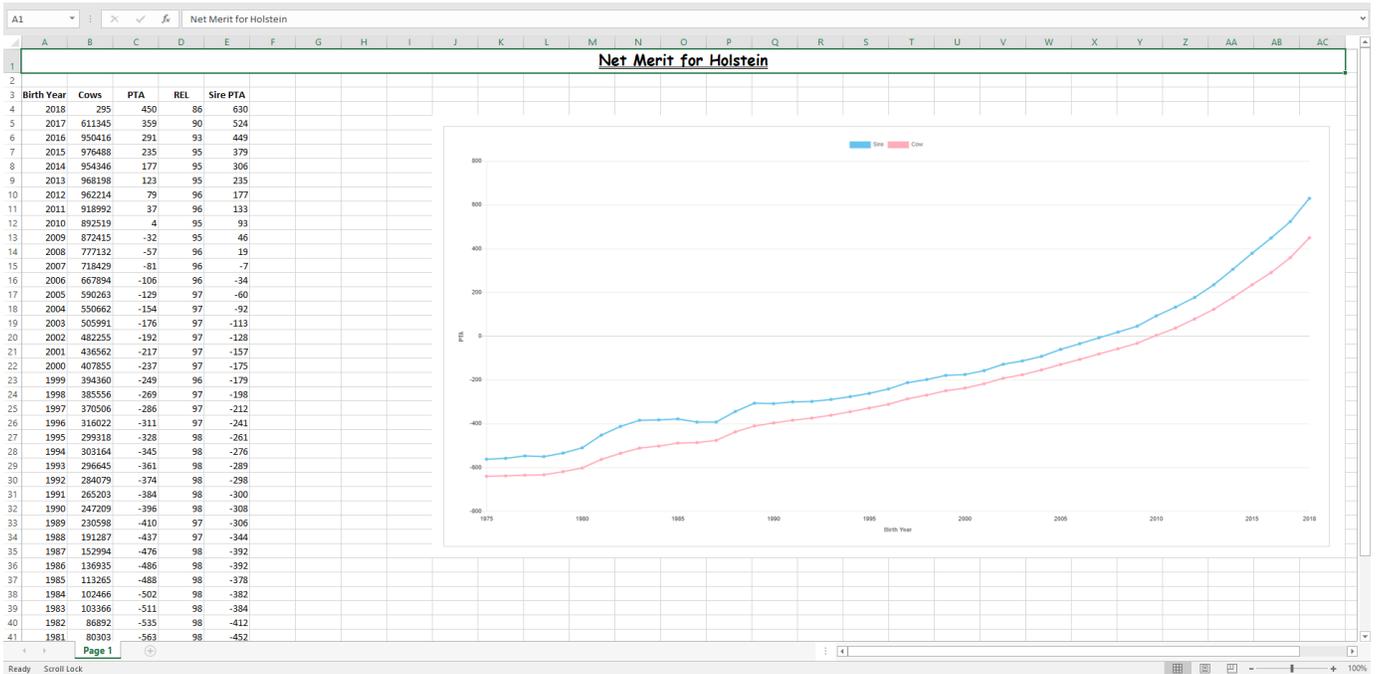
- Chart: Click on this, It will return the chart as an image file.

## Net Merit for Holstein

EVAL DATE: December 2019



- CSV: Click on this, it will return a CSV file with the following information.
- Chart and CSV: Click on this, it will return an excel file that includes both chart and data set.



## Procedure 2: Merit Percentile Tables

**Step 1:** Click on the **Merit Percentile Tables** on the **Summary Stats** Navigate menu

# MERIT PERCENTILE TABLES

SEX  Male  Female BREED

- Genetic Trend
- Merit Percentile Tables**
- Breed Means, Bases, Heterosis, and Inbreeding Regressions
- Comparison of AI Bull Evaluations
- Comparison of Genomic and Traditional Evaluations
- Bull Statistics
- Elite Cow and Heifer Statistics
- Average Evaluations by Country of Most Daughters
- Source of Top/Bottom 100 Bulls on Each Country's Scale

**Step 2:** This is a report that presents the information for NM\$, FM\$, CM\$ and GM\$. There are 2 areas in this report: Search Area & Result Area. Select items dropdown and click on the **Run Query** button

The system will trigger the query to run with selected inputs and the result will be returned

- At **Standalone view mode:** In the case of hovering over a value in the result table, it is expected to be highlighted with a blue background and horizontal/vertical lines associating with that value

## MERIT PERCENTILE TABLES

SEX  Male  Female BREED

**Based on 612119 AI Holstein Bulls with Active (A) Status in The Previous Evaluation**

EVAL DATE: August 2020

NMS - Net Merit

		Percentile									
		0	1	2	3	4	5	6	7	8	9
Decile	100	1120									
	90	473	488	504	522	541	563	588	619	659	719
	80	363	372	381	391	401	412	423	434	446	459
	70	284	291	299	306	314	322	329	338	346	354
	60	216	222	229	236	242	249	256	263	270	277
	50	151	157	163	170	177	183	190	196	203	209
	40	82	89	96	103	110	117	124	131	137	144
	30	3	11	20	28	36	44	52	59	67	75
	20	-99	-87	-76	-65	-55	-44	-34	-25	-15	-6
	10	-243	-226	-209	-193	-178	-164	-150	-137	-124	-111

- Mode view **Standalone:** This would have four tables associated with each INDEX such as NM\$, FM\$, CM\$, GM\$.



NMS – Net Merit

Export CSV

		Percentile										
Decile		0	1	2	3	4	5	6	7	8	9	
	100	1120										
	90	473	488	504	522	541	563	588	619	659	719	
	80	363	372	381	391	401	412	423	434	446	459	
	70	284	291	299	306	314	322	329	338	346	354	
	60	216	222	229	236	242	249	256	263	270	277	
	50	151	157	163	170	177	183	190	196	203	209	
	40	82	89	96	103	110	117	124	131	137	144	
	30	3	11	20	28	36	44	52	59	67	75	
	20	-99	-87	-76	-65	-55	-44	-34	-25	-15	-6	
	10	-243	-226	-209	-193	-178	-164	-150	-137	-124	-111	
0	-1123	-525	-458	-414	-380	-350	-325	-301	-281	-261		

FMS – Fluid Merit

Export CSV

Percentile										
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Export CSV – Clicking on this button, it will export all the data as a CSV file

- Mode view **Combination**



Combined Merit Table

Export CSV

Percentile	NMS – Net Merit	FMS – Fluid Merit	CMS – Cheese Merit	GMS – Grazing Merit
100	1120	991	1024	1095
99	719	925	981	937
98	659	888	918	878
97	619	862	879	852
96	588	829	868	825
95	563	818	849	806
94	541	801	840	789
93	522	778	819	778
92	504	762	798	760
91	488	747	786	749
90	473	737	773	741
89	459	724	766	727
88	446	715	757	717
87	434	707	747	697
86	423	695	736	689
85	412	689	719	684

Export CSV – Clicking on this button, it will export all the data as a CSV file

### Procedure 3: Breed Means, Bases, Heterosis, and Inbreeding Regressions

**Step 1:** Click on the **Breed Means, Bases, Heterosis, and Inbreeding Regressions** on the **Summary Stats** menu

# BREED MEANS, BASES, HETEROSIS, AND INBREEDING REGRESSIONS

BREED:  INDEXES & TRAITS:  EVAL DATE:

- Genetic Trend
- Merit Percentile Tables
- Breed Means, Bases, Heterosis, and Inbreeding Regressions**
- Comparison of AI Bull Evaluations
- Comparison of Genomic and Traditional Evaluations
- Bull Statistics
- Elite Cow and Heifer Statistics
- Average Evaluations by Country of Most Daughters
- Source of Top/Bottom 100 Bulls on Each Country's Scale

**Step 2:** This is a report that presents the information for Breed Means, Bases, Heterosis and Inbreeding Regressions. There are 2 areas in this report: Search Area & Result Area.

Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

**Traits column:** These are shown based on the selections

EVAL DATE: December 2015

**PTA Differences from Holstein**

Breed	Mik	Fat	Pro	PL	SCS	DPR	HCR	CCR	LIV	GL	MFV	DAB	KET	MAS	MET	RPL	EFC
Ayrshire	-2937	-96	-83	-1.8	0.03	0.8	-4.5	0.1	11	2.2	0.0	0.0	-0.2	0.8	-2.0	-0.4	-21.3
Brown Swiss	-2350	-65	-49	-1.8	0.09	-0.9	-5.0	-3.1	-0.3	5.0	-0.1	0.5	0.0	0.0	-1.2	-0.5	-15.7
Guernsey	-3381	-66	-89	-4.5	0.18	-0.1	-5.8	-3.8	-6.3	4.9	0.1	-0.2	-1.4	0.4	-1.1	-0.2	-11.3
Jersey	-2780	-29	-48	1.0	0.18	1.9	-0.3	1.4	0.6	2.0	-0.1	0.3	0.1	0.8	1.2	0.7	1.9
Milking Shorthorn	-3250	-128	-101	-1.7	0.14	1.7	-1.5	0.7	2.0	2.4	0.1	0.1	-0.2	1.6	0.1	0.1	-10.1

**Breed Means and Bases**

Result – This area includes the following information:

- PTA Differences from Holstein

PTA Differences from Holstein

Breed	Milk	Fat	Pro	PL	SCS	DPR	HCR	CCR	LIV	GL	MFV	DAB	KET	MAS	MET	RPL	EFC
Ayrshire	-2937	-96	-83	-1.8	0.03	0.8	-4.5	0.1	1.1	2.2	0.0	0.0	-0.2	0.8	-2.0	-0.4	-21.3
Brown Swiss	-2350	-65	-49	-1.8	0.09	-0.9	-5.0	-3.1	-0.3	5.0	-0.1	0.5	0.0	0.0	-1.2	-0.5	-15.7
Guernsey	-3381	-66	-89	-4.5	0.18	-0.1	-5.8	-3.8	-6.3	4.9	0.1	-0.2	-1.4	0.4	-1.1	-0.2	-11.3
Jersey	-2780	-29	-48	1.0	0.18	1.9	-0.3	1.4	0.6	2.0	-0.1	0.3	0.1	0.8	1.2	0.7	1.9
Milking Shorthorn	-3250	-128	-101	-1.7	0.14	1.7	-1.5	0.7	2.0	2.4	0.1	0.1	-0.2	1.6	0.1	0.1	-10.1

Export CSV – Clicking on this button, it will export all the data as a CSV file

- Breed Means and Bases

Breed Means and Bases

Breed	Milk		Fat		Pro		PL		SCS		DPR		HCR		CCR		Mean
	Mean	SD Ratio	Mean	SD Ratio	Mean	SD Ratio	Mean	SD Ratio	Mean	SD Ratio	Mean	SD Ratio	Mean	SD Ratio	Mean	SD Ratio	
Ayrshire	19250	0.92	769	0.92	613	0.92	25.8	1.00	2.51	1.06	26.6	1.00	44.8	1.00	40.7	1.00	88.4
Brown Swiss	23056	0.89	943	0.89	774	0.89	25.2	1.00	2.51	1.02	24.5	1.00	45.9	1.00	30.7	1.00	83.3
Guernsey	17607	0.94	807	0.94	585	0.94	25.0	1.00	3.01	1.13	23.5	1.00	40.8	1.00	29.4	1.00	74.3
Holstein	28071	1.00	1077	1.00	871	1.00	26.4	1.00	2.31	1.00	31.2	1.00	55.4	1.00	38.6	1.00	85.7
Jersey	21271	0.98	1030	0.98	780	0.98	27.8	1.00	2.90	0.88	34.4	1.00	49.6	1.00	39.2	1.00	84.7
Milking Shorthorn	19114	0.75	730	0.75	597	0.75	26.3	1.00	2.88	1.16	28.6	1.00	51.8	1.00	41.8	1.00	85.1

Export CSV – Clicking on this button, it will export all the data as a CSV file

- Heterosis and Inbreeding

Heterosis and Inbreeding

Regression	Milk	Fat	Pro	PL	SCS	DPR	HCR	CCR	LIV	GL	MFV	DAB	KET	MAS	MET	RPL	EFC	HLV
Heterosis	-35	20	8	0.96	0.03	1.99	1.14	1.94	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91	0.92
Inbreeding	-66.2	-2.48	-1.97	-0.27	0.01	-0.19	-0.19	-0.25	-0.10	0.00	0.00	0.03	0.04	0.00	-0.05	-0.01	-0.61	-0.15

Export CSV – Clicking on this button, it will export all the data as a CSV file

- Expected Future Inbreeding (EFI)

Expected Future Inbreeding (EFI)	
Breed	EFI
Ayrshire	6.05
Brown Swiss	6.58
Guernsey	7.29
Holstein	6.14
Jersey	7.04
Milking Shorthorn	4.16

Export CSV – Clicking on this button, it will export all the data as a CSV file

#### Procedure 4: Comparison of Active AI Bull Evaluations

Step 1: Click on the **Comparison of Active AI Bull Evaluations** on the **Summary Stats** Navigate menu

The screenshot shows the CDCB website interface for the 'COMPARISON OF AI BULL EVALUATIONS' report. The navigation menu includes 'Queries', 'Data Exchange', 'Special Section', 'Top Animal Listing', 'Summary Stats', 'Administration', and 'National Performance Metrics'. The 'Summary Stats' menu is open, showing options like 'Genetic Trend', 'Merit Percentile Tables', 'Breed Means, Bases, Heterosis, and Inbreeding Regressions', 'Comparison of AI Bull Evaluations', 'Comparison of Genomic and Traditional Evaluations', 'Bull Statistics', 'Elite Cow and Heifer Statistics', 'Average Evaluations by Country of Most Daughters', and 'Source of Top/Bottom 100 Bulls on Each Country's Scale'. The 'Comparison of AI Bull Evaluations' option is selected. Below the menu, there are search filters for 'BREED' and 'INDEXES & TRAITS', both currently set to 'All Item(s)'. A 'Run Query' button is located at the bottom of the search area. The footer of the page includes 'Dashboard', 'Copyright © CDCB Ltd. 2020. All Right Reserved', and 'Privacy & Cookie Policy'.

Step 2: This is a report that presents the information for Comparison of Active AI Bull Evaluations. There are 2 areas in this report: Search Area & Result Area. Select items dropdown and click on the **Run Query** button

The system will trigger the query to run with selected inputs and the result will be returned

# COMPARISON OF AI BULL EVALUATIONS

BREED:  INDEXES & TRAITS:  SUBSET:

August 2020 vs December 2019

Comparison of Current and Previous Evaluations

Breed	Number of Bulls	NMS			FMS			CMS			GMS			Mik			Current
		Current	Previous	Change													
Ayrshire	26	444.9	362.1	82.8	400.6	329.5	71.1	449.4	377.2	72.3	457.4	341.3	116.1	976.0	984.1	-8.2	47.9
Brown Swiss	31	153.5	118.6	34.9	156.4	121.3	35.1	153.5	117.9	35.6	130.7	94.7	36.1	547.9	537.1	10.8	12.8
Guernsey	17	80.9	57.4	23.5	60.2	42.7	17.5	84.2	64.2	19.9	60.2	41.2	19.0	76.9	69.8	7.1	4.6
Holstein	688	419.2	350.9	68.2	385.7	324.4	61.3	424.9	364.0	60.8	388.7	303.3	85.5	702.0	699.4	2.6	39.5
Jersey	156	227.7	202.6	25.1	194.9	175.2	19.7	231.4	215.1	16.3	196.9	171.1	25.8	309.3	302.2	7.1	20.9
Milking Shorthorn	11	-40.9	-12.0	-28.9	-54.2	-20.1	-34.1	-38.7	-8.0	-30.7	-59.6	-12.4	-47.3	-316.3	-251.7	-64.5	-5.9

[Export CSV](#)

**CRITERIA USED:**

- "Breed" is referred to "Breed of evaluation" and not necessarily the breed in the ID of the animal.
- All statuses from the previous triannual evaluation are used to identify eligible animals for this comparison.

Export CSV – Clicking on this, it's will export all the data as a CSV file

## Procedure 5: Comparison of Genomic and Traditional Evaluations

Step 1: Click on the **Comparison of Genomic and Traditional Evaluations** on the **Summary Stats** Navigate menu

Step 2: This is a report that presents the information for Comparison of Genomic and Traditional Evaluations. There are 2 areas in this report: Search Area & Result Area.

Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

# COMPARISON OF GENOMIC AND TRADITIONAL EVALUATIONS

SEX  Male  Female

BREED

SUBSET

EVAL DATE: December 2019

836 Holstein Active Bulls (A, F) with Both Traditional and Genomic Evaluations

Export CSV

Indexes and Traits	Unit	PTA				Reliability (%)		
		Traditional	Genomic	Difference	Standard Deviation	Traditional	Genomic	Difference
Net Merit	US\$	461	474	+13	231	80	90	+10
Fluid Merit	US\$	428	441	+13	227	80	90	+10
Cheese Merit	US\$	478	491	+13	236	80	90	+10
Grazing Merit	US\$	408	418	+10	220	80	90	+10
Milk	lbs							
Fat	lbs							
Protein	lbs							
Productive Life	months	3.0	3.2	+0.2	2.1	71.1	86.5	+15
Somatic Cell Score	log2	2.84	2.83	-0.01	0.17	84.25	91.42	+7

Export CSV – Clicking on this, it's will export all the data as a CSV file

## Procedure 6: Bull Statistics

Step 1: Click on the Bull Statistics on the Summary Stats Navigate menu

# BULL STAT

- Genetic Trend
- Merit Percentile Tables
- Breed Means, Bases, Heterosis, and Inbreeding Regressions
- Comparison of AI Bull Evaluations
- Comparison of Genomic and Traditional Evaluations
- Bull Statistics**
- Elite Cow and Heifer Statistics
- Average Evaluations by Country of Most Daughters
- Source of Top/Bottom 100 Bulls on Each Country's Scale

BREED

INDEXES & TRAITS

Run Query

Clear

## BULL STATISTICS

BREED:  INDEXES & TRAITS:  SUBSET:

- Select All
- Active AI Bulls (A, F)
- Genomic AI bulls (G)
- AI Bulls Born in Last 8 Years
- Non-AI Bulls Born in Last 8 Years
- First-Evaluation AI Bulls

**Step 2:** This is a report that presents the information for Bull statistics. There are 2 areas in this report: Search Area & Result Area.

Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

## BULL STATISTICS

BREED:  INDEXES & TRAITS:  SUBSET:

EVAL DATE: December 2019

Mean & Standard Deviations of Predicted Transmitting Abilities (PTAs)

[Export CSV](#)

Breed	Number of Bulls	NMS		FMS		CMS		GMS		Mik		Fat		Fat%		Pro		Pro%		PL	
		Mean	Std Dev																		
<b>Active AI Bulls</b>																					
Ayrshire	18	182	246	163	228	190	255	153	247	531	750	26	28	0.00	0.00	21	26	0.00	0.00	0.0	1.9
Brown Swiss	21	203	147	191	142	209	153	146	150	792	613	27	15	0.00	0.00	26	15	0.00	0.00	0.0	1.7
Guernsey	9	133	126	121	116	139	132	103	142	273	410	13	21	0.00	0.00	11	13	0.00	0.00	1.0	1.3
Holstein	497	573	250	542	241	589	256	511	238	1140	788	56	31	0.00	0.00	41	22	0.00	0.00	3.0	2.1
Jersey	111	376	185	334	176	395	192	298	173	684	746	45	28	0.00	0.00	31	23	0.00	0.00	2.0	1.9
Milking Shorthorn	4	-1	85	-9	68	1	94	-27	87	-168	250	-14	18	0.00	0.00	-2	11	0.00	0.00	2.0	0.4
<b>Genomically Tested Young Bulls Being Marketed</b>																					
Ayrshire	19	383	177	348	166	399	183	322	163	1081	548	56	27	0.00	0.00	41	19	0.00	0.00	0.0	0.9
Brown Swiss	45	300	133	282	127	309	137	254	128	866	530	31	17	0.00	0.00	30	13	0.00	0.00	1.0	1.6
Guernsey	9	195	51	183	61	202	47	174	50	156	341	15	11	0.00	0.00	7	8	0.00	0.00	2.0	1.9
Holstein	1998	789	190	733	181	816	196	715	180	1315	548	76	24	0.00	0.00	53	16	0.00	0.00	5.0	1.9
Jersey	370	470	131	424	123	492	136	388	120	941	535	52	19	0.00	0.00	40	16	0.00	0.00	3.0	1.5

Export CSV – Clicking on this, it's will export all the data as a CSV file

**Procedure 7: Elite Cow and Heifer Statistics**

**Step 1:** Click on the **Elite Cow and Heifer Statistics** on the **Summary Stats** Navigate menu

# ELITE COW AND HEIFER

BREED:

- Genetic Trend
- Merit Percentile Tables
- Breed Means, Bases, Heterosis, and Inbreeding Regressions
- Comparison of AI Bull Evaluations
- Comparison of Genomic and Traditional Evaluations
- Bull Statistics
- Elite Cow and Heifer Statistics
- Average Evaluations by Country of Most Daughters
- Source of Top/Bottom 100 Bulls on Each Country's Scale

**Step 2:** This is a report that presents the information for Elite Cow and Heifer statistics. There are 2 areas in this report: Search Area & Result Area.

Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

# ELITE COW AND HEIFER STATISTICS

BREED:  INDEXES & TRAITS:

EVAL DATE: August 2020

**Mean & Standard Deviations of Predicted Transmitting Abilities (PTAs)**

[Export CSV](#)

Breed	Number of Cows	NMS		Milk		Fat		Pro		PL		SCS		DPR		HCR	
		Mean	Std Dev	Mean	Std Dev	Mean	Std Dev										
Ayrshire	5056	59	189	101	501	6.1	20.5	3.7	15.9	0.4	1.3	2.99	0.12	0.04	1.12		
Brown Swiss	21542	89	180	163	485	6.2	18.2	6.3	15.1	0.8	1.6	2.97	0.13	0.08	1.44		
Guernsey	7313	68	177	55	469	3.9	18.6	2.4	13.3	0.8	1.7	2.97	0.14	0.08	1.40		
Holstein	1197205	176	328	258	694	17.5	32.2	11.2	21.4	1.2	2.2	2.95	0.15	-0.36	1.51		
Jersey	179636	57	243	-132	691	0.7	26.5	-0.6	21.7	1.1	1.7	2.99	0.11	0.25	1.60		
Milking Shorthorn	1874	-6	201	-224	500	-5.4	23.7	-5.4	15.9	0.8	1.4	3.03	0.15	0.99	1.17		

**Percentiles and Corresponding NMS for Elite Cow and Numbers by Breed**

Result table – There are two tables with the following information:

- Mean & Standard Deviations of Predicted Transmitting Abilities (PTAs)

Mean & Standard Deviations of Predicted Transmitting Abilities (PTAs)

[Export CSV](#)

Breed	Number of Cows	NMS		Milk		Fat		Pro		PL		SCS		DPR		HCR	
		Mean	Std Dev	Mean	Std Dev	Mean	Std Dev										
Ayrshire	5056	59	189	101	501	6.1	20.5	3.7	15.9	0.4	1.3	2.99	0.12	0.04	1.12		
Brown Swiss	21542	89	180	163	485	6.2	18.2	6.3	15.1	0.8	1.6	2.97	0.13	0.08	1.44		
Guernsey	7313	68	177	55	469	3.9	18.6	2.4	13.3	0.8	1.7	2.97	0.14	0.08	1.40		
Holstein	1197205	176	328	258	694	17.5	32.2	11.2	21.4	1.2	2.2	2.95	0.15	-0.36	1.51		
Jersey	179636	57	243	-132	691	0.7	26.5	-0.6	21.7	1.1	1.7	2.99	0.11	0.25	1.60		
Milking Shorthorn	1874	-6	201	-224	500	-5.4	23.7	-5.4	15.9	0.8	1.4	3.03	0.15	0.99	1.17		

Export CSV – Clicking on this button, will export all the data as a CSV file.

- Percentiles and Corresponding NM\$ for Elite Cow and Numbers by Breed

Percentiles and Corresponding NM\$ for Elite Cow and Numbers by Breed

[Export CSV](#)

Evaluation Breed	Minimum Percentile	Minimum NMS	Number of Elite Cows	Number of High-ranking Grade Cows
Ayrshire	98	368	305	10404
Brown Swiss	98	448	528	2147
Guernsey	98	418	144	387
Holstein	99	719	60070	60293
Jersey	99	447	16912	52651
Milking Shorthorn	97	503	35	761

Export CSV - Clicking on this button, will export all the data as a CSV file.

### Procedure 8: Average Evaluations by Country of Most Daughters.

**Step 1:** Click on the **Average Evaluations by Country of Most Daughters** on the **Summary Stats** Navigate menu

The screenshot shows the CDCB website interface. At the top right, it says 'Welcome, Admin!'. The navigation menu includes 'Queries', 'Data Exchange', 'Special Section', 'Top Animal Listing', 'Summary Stats', 'Administration', and 'National Performance Metrics'. The 'Summary Stats' menu is open, showing options like 'Genetic Trend', 'Merit Percentile Tables', 'Breed Means, Bases, Heterosis, and Inbreeding Regressions', 'Comparison of AI Bull Evaluations', 'Comparison of Genomic and Traditional Evaluations', 'Bull Statistics', 'Elite Cow and Heifer Statistics', 'Average Evaluations by Country of Most Daughters' (which is highlighted), and 'Source of Top/Bottom 100 Bulls on Each Country's Scale'. Below the menu, there is a 'Breed' dropdown menu set to 'HO - Holstein'. At the bottom of the interface, there are 'Run Query' and 'Clear' buttons. The footer contains 'Dashboard', 'Copyright © CDCB Ltd. 2020. All Right Reserved', and 'Privacy & Cookie Policy'.

**Step 2:** This is a report that presents the information for Average Evaluations by Country of Most Daughters underneath of Release Day category.

There are 2 areas in this report: Search Area & Result Area. Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

# AVERAGE EVALUATIONS BY COUNTRY OF MOST DAUGHTERS

BREED

COUNTRY

EVAL DATE: December 2019

Average PTA for Recently Progeny - Tested Bulls by Country of Most Daughters

Country	Number of Bulls	Yield						SCS		Longevity		Type				Calving Ease			
		Daus	NMS	NMS Rel	Milk	Fat	Pro	Number of Bulls	SCS	Number of Bulls	PL	Number of Bulls	Size	Udder	Feet Legs	SCE Number of Bulls	Size %DBH	DCE Number of Bulls	Daus %DBH
BEL	1	344	214	84	786	23	19	1	2.88	1	1.5					1	6.90	1	6.40
LTU	2	807	448	86	160	50	30	1	2.81										
KOR								1	2.77										
HRV	2	553	339	88	216	34	30	2	2.81										
SVN	2	193	2	82	-130	-10	-5	2	2.88	2	1.1								
URY	1	614	235	90	785	25	32	2	3.08										
NZL	3	333	304	86	348	40	20	5	2.91	4	1.6				1	8.70			
EST	7	112	267	82	1186	33	36	7	2.91										
JPN	6	1757	269	92	502	17	18	8	2.83	8	2.5								
PRT	7	620	326	86	902	26	18	10	2.93										
IRL	10	969	379	88	-7	34	24	11	2.77	12	2.9				6	6.70			
SVK	12	1924	394	86	712	40	28	11	2.82						4	6.15	4	5.38	

Export CSV - Clicking on this, will export all the data as a CSV file.

## Procedure 9: Source of Top/Bottom 100 Bulls on Each Country's Scale.

**Step 1:** Click on the **Source of Top/Bottom 100 Bulls on Each Country's Scale** on the **Summary Stats** Navigate menu

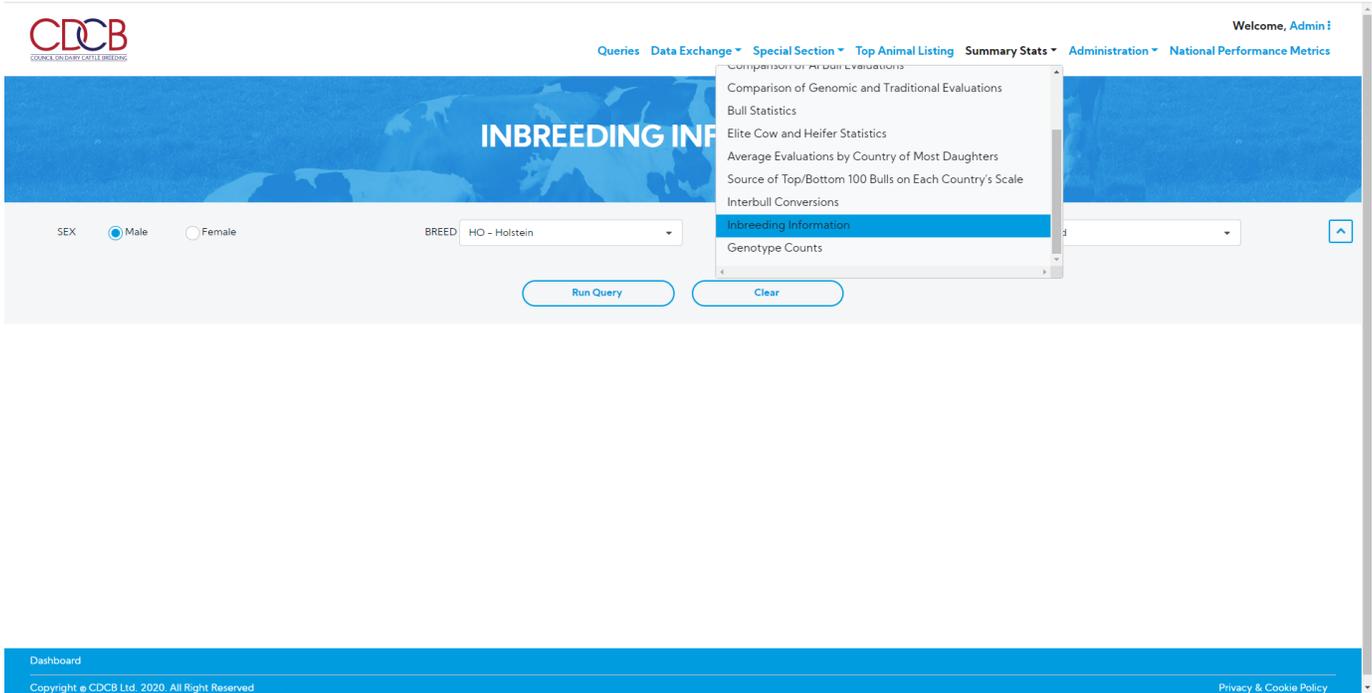
**Step 2:** This is a report that presents the information Source of Top/Bottom 100 Bulls on Each Country's Scale underneath of Release Day category.

There are 2 areas in this report: Search Area & Result Area. Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

Export CSV - Clicking on this, will export all the data as a CSV file.

## Procedure 10: Inbreeding Information.

**Step 1:** Click on the **Inbreeding Information** on the **Summary Stats** Navigate menu



**Step 2:** This is a report that presents the Inbreeding Trend underneath of Post Release category. There are 2 areas in this report: Search Area & Result Area.

Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

NOTE:

In case of Sex is Male, the INFORMATION DISPLAYED list will be

- Genotyped Proven Bulls Trend – Default.
- Young Genomic Bulls Trend
- Sire of Sons Highly Related to Breed Listing of Bulls
- Active Sires Highly Related to Breed Listing of Bulls
- Outcrosses Listing of Bulls

In case of Sex is Female, no option list will be displayed

- INFORMATION DISPLAYED is **“Cow”** and disable

In case of the **BREED** is **“MS - Milking Shorthorn**, the INFORMATION DISPLAYED list will be

- Sire of Sons Highly Related to Breed Listing of Bulls
- Active Sires Highly Related to Breed Listing of Bulls
- Outcrosses Listing of Bulls

# INBREEDING INFORMATION

SEX  Male  Female

BREED HO - Holstein

INFORMATION DISPLAYED Sire of Sons Highly Related to Breed Listing of Bulls

EVAL DATE: December 2019

Sire of Sons Highly Related to Breed Listing of Bulls

Bull	Name	Birth Year	Pedigree			Genomic	
			Inbreeding	Daughters Inbreeding	Future Inbreeding	Inbreeding	Future Inbreeding
HOUSA000072850448	WEBB-VUE SPARK 2060-ET	2013	6.9	7.2	8.4	7.0	8.6
HOUSA000001773417	WALKWAY CHIEF MARK	1978	0.0	2.7	6.9	3.2	7.0
HOUSA000001929410	TO-MAR BLACKSTAR-ET	1983	4.7	3.9	7.7	0.9	6.8
HOCAN000000392457	RONNYBROOK PRELUDE ET	1986	0.0	3.8	6.8	0.0	7.1
HOUSA000002103297	MAIZEFIELD BELLWOOD-ET	1989	0.1	3.9	5.8	0.3	6.2
HOUSA000002290977	MARA-THON BW MARSHALL-ET	1995	5.8	4.7	7.1	8.8	7.4
HOCAN000005470579	STARTMORE RUDOLPH	1991	1.0	4.2	6.8	3.4	8.4
HOUSA000017349617	STOUDER MORTY-ET	1997	4.8	6.2	6.8	3.1	6.6
HOUSA000120780521	OPSAL FINLEY-ET	1997	6.9	5.9	6.3	6.9	6.0
HOUSA000122358313	O-BEE MANFRED JUSTICE-ET	1998	4.3	5.4	9.9	5.2	10.6

- INFORMATION DISPLAYED – A dropdown list – single selection - An option list will be reflected based on Sex. Sex is Male, the options list will be:
  - Genotyped Proven Bulls Trend – Default.

SEX  Male  Female

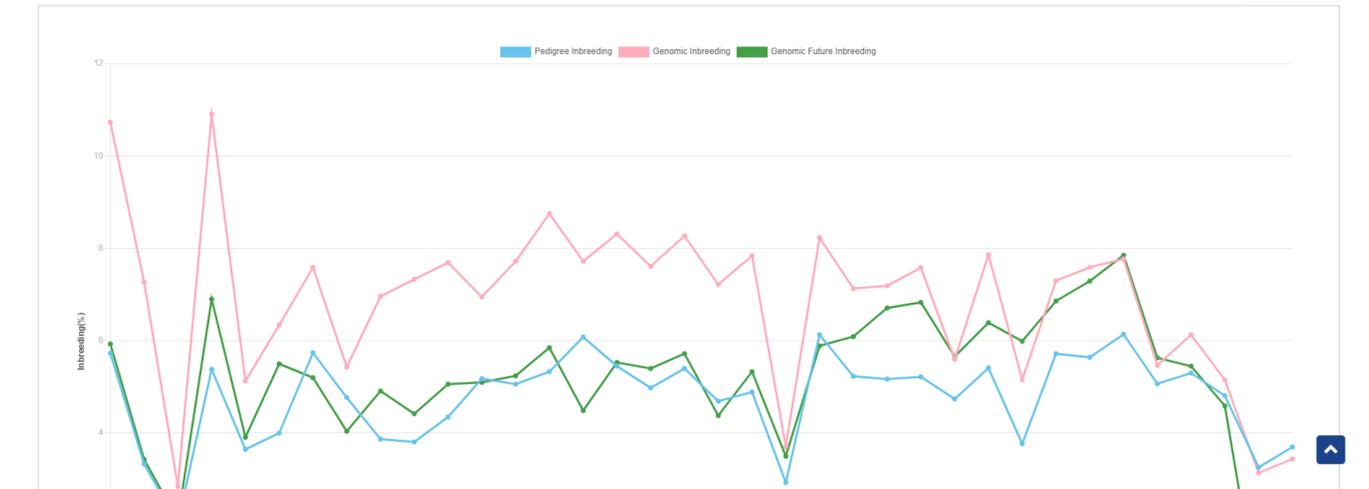
BREED AY - Ayrshire

INFORMATION DISPLAYED Genotyped Proven Bulls Trend

### Inbreeding Trend for Ayrshire Genotyped Proven Bulls Trend

EVAL DATE: December 2019

Download



Download button - Clicking on this, it will allow the user to select one from three following options:

1. Chart: It will return the chart as an image file.
2. CSV: It will return a CSV file with the following information:
3. Chart and CSV: It will return an excel file that includes both chart and data set.

- Young Genomic Bulls Trend

# INBREEDING INFORMATION

SEX  Male  Female

BREED AY - Ayrshire

INFORMATION DISPLAYED Young Genomic Bulls Trend

## Inbreeding Trend for Ayrshire Young Genomic Bulls Trend

EVAL DATE: December 2019  
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- Sire of Sons Highly Related to Breed Listing of Bulls



[Queries](#) [Data Exchange](#) [Special Section](#) [Top Animal Listing](#) [Summary Stats](#) [Administration](#) [Logout](#)

# INBREEDING INFORMATION

SEX  Male  Female

BREED HO - Holstein

INFORMATION DISPLAYED Sire of Sons Highly Related to Breed Listing of Bulls

EVAL DATE: December 2019

## Sire of Sons Highly Related to Breed Listing of Bulls

Export CSV

Bull	Name	Birth Year	Pedigree			Genomic	
			Inbreeding	Daughters Inbreeding	Future Inbreeding	Inbreeding	Future Inbreeding
HOUSA000072850448	WEBB-VUE SPARK 2060-ET	2013	6.9	7.2	8.4	7.0	8.6
HOUSA000001773417	WALKWAY CHIEF MARK	1978	0.0	2.7	6.9	3.2	7.0
HOUSA000001929410	TO-MAR BLACKSTAR-ET	1983	4.7	3.9	7.7	0.9	6.8
HOCAN000000392457	RONNYBROOK PRELUDE ET	1986	0.0	3.8	6.8	0.0	7.1
HOUSA000002103297	MAIZEFIELD BELLWOOD-ET	1989	0.1	3.9	5.8	0.3	6.2
HOUSA000002290977	MARA-THON BW MARSHALL-ET	1995	5.8	4.7	7.1	8.8	7.4
HOCAN000005470579	STARTMORE RUDOLPH	1991	1.0	4.2	6.8	3.4	8.4
HOUSA000017349617	STOUDER MORTY-ET	1997	4.8	6.2	6.8	3.1	6.6
HOUSA000120780521	OPSAL FINLEY-ET	1997	6.9	5.9	6.3	6.9	6.0
HOUSA000122358313	O-BEE MANFRED JUSTICE-ET	1998	4.3	5.4	9.9	5.2	10.6

Export CSV - Clicking on this, will export all the data as a CSV file.

- Active Sires Highly Related to Breed Listing of Bulls

SEX  Male  Female BREED HO - Holstein INFORMATION DISPLAYED Active Sires Highly Related to Breed Listing of Bulls

EVAL DATE: December 2019

Active Sires Highly Related to Breed Listing of Bulls

Bull	Name	Birth Year	Pedigree			Genomic	
			Inbreeding	Daughters Inbreeding	Future Inbreeding	Inbreeding	Future Inbreeding
HO840003000540481	COOKIECUTTER MOM HUNTER-ET	2010	4.2	6.5	8.5	7.4	10.5
HO840003006972816	MOUNTFIELD SSI DCY MOGUL-ET	2010	6.8	6.0	9.5	5.6	9.1
HO840003006989495	MR OCD ROBUST DONATELLO-ET	2011	6.1	6.6	8.4	7.8	9.5
HO840003007411983	GREEN-MEADOW DREW 15933	2010	5.9	6.0	6.6	6.7	7.7
HO840003008167883	SULLY MUNITION-ET	2011	7.4	7.0	8.9	8.4	9.7
HO840003008328673	S-S-I BOOKEM MORGAN-ET	2011	5.0	6.5	8.6	6.3	9.9
HO840003008461593	ST GENOMICPRO DOC-ET	2012	5.6	6.9	8.0	2.3	8.4
HO840003008461866	ST GENOMICPRO EZRA-ET	2012	8.1	7.0	7.9	7.2	9.2
HO840003008897582	S-S-I SNOWMAN MAYFLOWER-ET	2011	11.7	6.8	8.3	14.9	9.7
HO840003009533223	MR OCD EPIC DRAGONHEART-ET	2012	6.7	6.7	8.3	11.7	9.4
HO840003009554689	S-S-I EPIC MIDNIGHT-ET	2012	9.5	7.0	8.2	15.2	9.7
HO840003010353051	MR NOM DECKER 54304-ET	2014	6.2	7.9	8.1	10.6	9.8
HO840003010354192	MR BRASH-ET	2014	9.0	8.3	8.5	11.2	10.3
HO840003010354319	IHG VICTORY-ET	2014	7.6	7.2	7.9	9.6	10.1
HO840003010356026	MR OAK DELCO 57279-ET	2013	6.3	5.5	7.6	12.5	8.7

Export CSV - Clicking on this, will export all the data as a CSV file.

- Outcrosses Listing of Bulls

INFORMATION DISPLAYED – A dropdown list – single selection - An option list will be reflected based on Sex is Female, no options list will be displayed.

## INBREEDING INFORMATION

SEX  Male  Female BREED AY - Ayrshire INFORMATION DISPLAYED Cows

### Inbreeding Trend for Ayrshire Cows

EVAL DATE: December 2019

[Download](#)



Export CSV - Clicking on this, will export all the data as a CSV file.

## Procedure 11: Genotype Counts

This is the main report that presents information on Genotype Counts with three sub-reports underneath of Post Release category.

There are three tabs in Genotype Counts. For each tab, different search options will be shown:

1. Evaluation Run

2. Chip Type
3. Country

Click on the **Genotype Counts** on the **Summary Stats** Navigate menu

**Evaluation Run:** This is a sub-report that presents Genotype Counts of Evaluation Run. There are 2 areas: Search & Result.

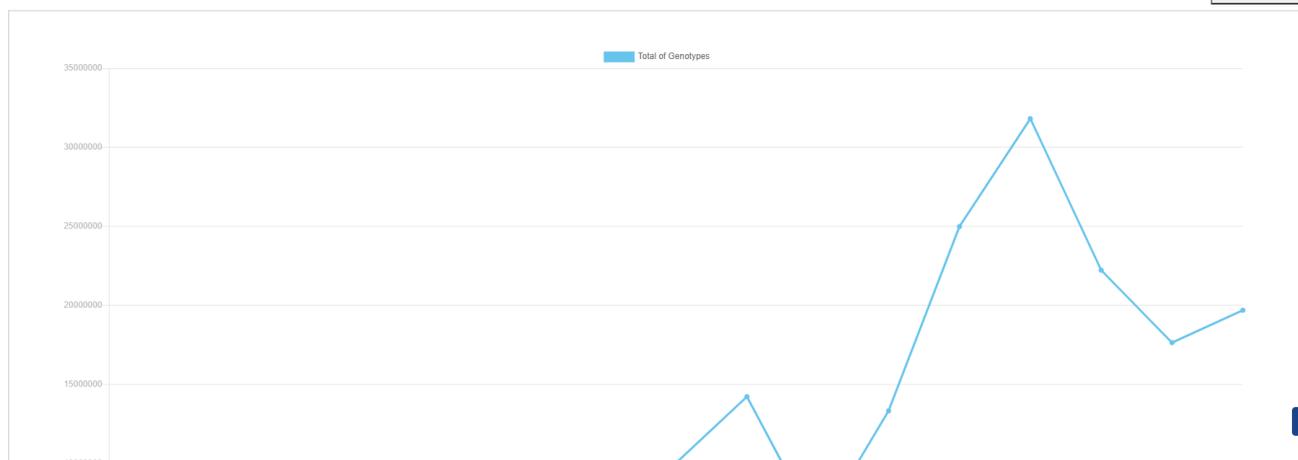
Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

- “COMPARE BY” dropdown is “None” =>A line chart will be shown

### Genotypes included in Evaluations by Holstein

EVAL DATE: December 2019

Download

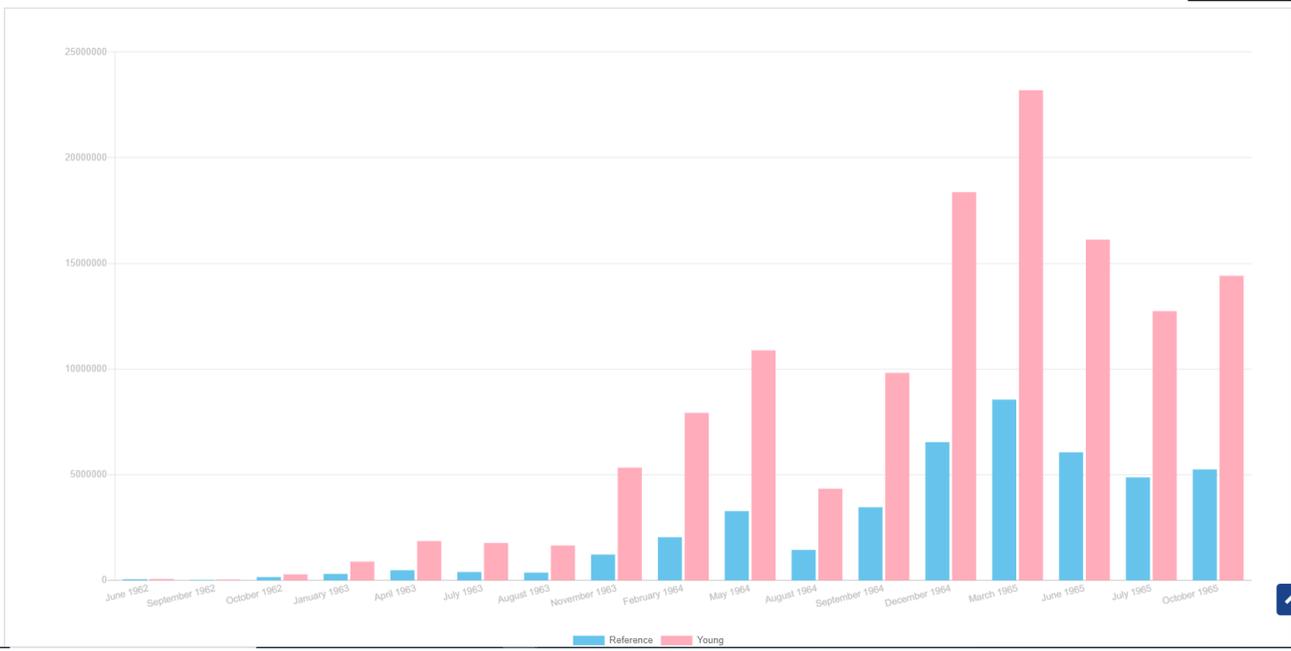


Download button - Clicking on this, it will allow the user to select one from three following options:

1. Chart: It will return the chart as an image file.
  2. CSV: It will return a CSV file with the following information:
  3. Chart and CSV: It will return an excel file that includes both chart and data set.
- “COMPARE BY” dropdown is another option =>A bar chart will be shown for Numbers of Genotypes.

Comparison of Reference vs Young

Download



**Chip Type:** Click on the **Genotype Counts** on the **Summary Stats** Navigate menu, select **Chip Type** tab

This is a sub-report that presents Genotype Counts of Chip Type underneath of Genotype Counts. There are 2 areas: Search & Result.

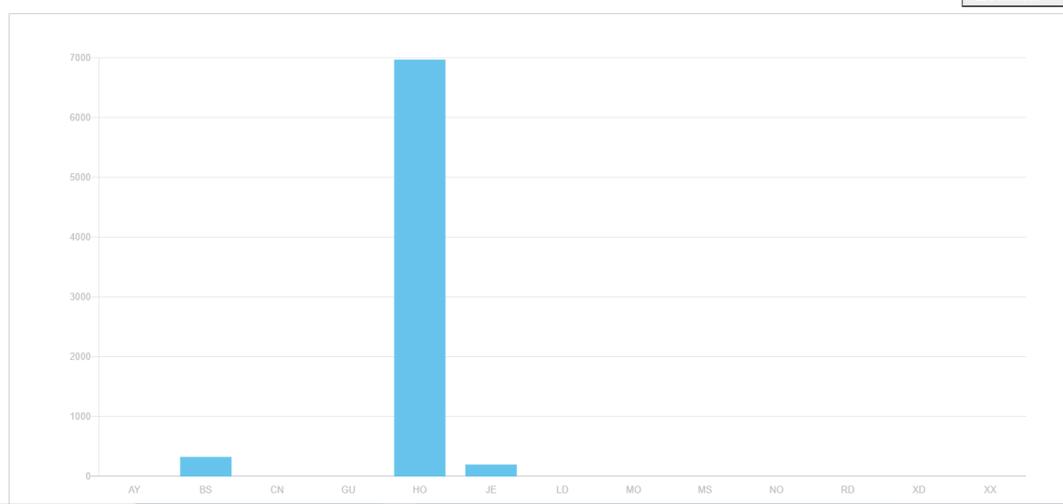
Select items dropdown and click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned

BREED:     CHIP TYPE:     SUBSET:     SEX:

**Genotype Counts by Chip 50K, AY, BS, CN, GU, HO, JE, LD, MO, MS, NO, RD, XD, XX, and Sex Code**

In database as of 2010-06-07

Download





## Procedure 12: Interbull Conversions

Interbull Conversions page is a public page that is designed to help customers calculate their own values by converting non-US (foreign) country's evaluation values to US values.

The Interbull Conversions page can be accessed by clicking on the "Interbull conversions" link under the **Summary Stats** menu.

# INTERBULL CONVERSION

The coefficients in Interbull conversion equations are based on international predicted genetic merits of artificial-insemination bulls that are progeny tested only in 1 country (country of the original evaluation) born in the last 11 years for Holsteins or last 12 years for other breeds, and have a predicted genetic merit based on a minimum of 20 herds and with an international reliability/repeatability of 75%. A minimum of 20 bulls is required. For details on conversion equations for country combinations that do not fulfill these requirements, see the Interbull Code of Practice, Section 5: [Method of International Evaluation](#).

**NOTE:** Several countries publish relative breeding values nationally but send estimated breeding values to Interbull for some traits. Conversion equations distributed by Interbull cannot be used in those cases, but the Animal Improvement Programs Laboratory has no way of determining which country/trait combinations are affected.

Converted proofs should only be used to provide an indication of scale of foreign evaluations in US. These values are not to be considered publishable or accurate, as they are a rough approximation (a simple linear regression).

COUNTRY: AUS BREED: HOL - Holstein TRAIT: MIL - Milk Yield

INPUT: Please enter values with decimals with only a "."  
E.g. 3.1

Each value must be on a separate line.

Run Query Clear

**Step 2:** Select options search and Enter values with decimals into the textbox, click on the **Run Query** button, the system will trigger the query to run with selected inputs and the result will be returned.

# INTERBULL CONVERSION

The coefficients in Interbull conversion equations are based on international predicted genetic merits of artificial-insemination bulls that are progeny tested only in 1 country (country of the original evaluation) born in the last 11 years for Holsteins or last 12 years for other breeds, and have a predicted genetic merit based on a minimum of 20 herds and with an international reliability/repeatability of 75%. A minimum of 20 bulls is required. For details on conversion equations for country combinations that do not fulfill these requirements, see the Interbull Code of Practice, Section 5: [Method of International Evaluation](#).

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Converted proofs should only be used to provide an indication of scale of foreign evaluations in US. These values are not to be considered publishable or accurate, as they are a rough approximation (a simple linear regression).

COUNTRY: AUS BREED: HOL - Holstein TRAIT: MIL - Milk Yield

LATEST EVAL DATE: December 2021

Interbull Equation Converter (conversion to USA scale)

Interbull conversion (AUS,HOL,MIL - 'based on 926 bulls in AUS') =  $-924.1913 + (1.3565 * 5) = -917$   
Interbull conversion (AUS,HOL,MIL - 'based on 926 bulls in AUS') =  $-924.1913 + (1.3565 * 17) = -901$   
Interbull conversion (AUS,HOL,MIL - 'based on 926 bulls in AUS') =  $-924.1913 + (1.3565 * 6.7) = -915$