



GETTING THE MOST FOR YOUR INVESTMENT

HOW TO READ AN OFFICIAL HOLSTEIN PEDIGREE



OFFICIAL HOLSTEIN PEDIGREE



U.S. Registered Holsteins FOR MAXIMUM PROFIT

Holstein Association USA, Inc.
www.holsteinusa.com

100% Registered Holstein Ancestry (RHA-NA)

COOKIECUTTER DELTA HABIT-ET 13K GTPI 85%R 2545 FEMALE
840003126700264 100%RHA-NA PO +2550 G 01/28/2015

4-00 90 EE+VE

PTA	+1206M	+66F	+38P	86%R	4/2023
PTA	+501NM	+07%F	+00%P		
PTA	+0.4PL	3.08SCS	-2.4DPR	2.6%DCE	
PTA	+2.00T	+1.83UDC	+2.8FLC	84%R	4/2023
PTA	+180FE	-1.6FI	2.1%SCE		

AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
1-10	3	305	30170	81	3.9	1162	3.1	931	81
			344	32930	81	3.9	1272	3.1	1022
3-10	3	305	32070	100	4.3	1378	3.4	1079	90
			351	35490	100	4.3	1528	3.4	1196

COOKIECUTTER HOLSTEINS, LLC
DENISE DICKINSON
1 HOLSTEIN LN
BRATTLEBORO, VT 05302-0808
800/952-5200

MOUNTFIELD SSI DCY MOGUL-ET A1/A2 AE 50K GTPI 99%R +2291 G
840003006972816 100%RHA-NA TR TP TC TY 06/22/2010
7-00 93 EEVE GM 8/15

PTA	+460M	+42F	+14P	99%R	4/2023
PTA	+328NM	+09%F	+00%P	51%US	
PTA	+0.0PL	3.13SCS	-3.1DPR	1.6%DCE	
PTA	+1.29T	+2.09UDC	+1.07FLC	99%R	4/2023

MISS OCD ROBST DELICIOUS-ET 50K GTPI 97%R +2653 G
840003006989479 100%RHA-NA 01/28/2011
3-05 87 +EV+V GMD DOM

PTA	+1880M	+48F	+61P	97%R	4/2023
PTA	+814NM	-08%F	+01%P		
PTA	+4.0PL	2.95SCS	-1.6DPR	2.3%DCE	
PTA	+5.7T	+1.53UDC	-3.0FLC	97%R	4/2023



The laptop screen shows the official website of the Holstein Association USA, Inc. The page features a navigation menu, a header with the organization's name and logo, and a main content area with various links and information related to Holstein pedigrees and breeding programs.



A standard computer keyboard and mouse are positioned in front of the monitor, indicating a desktop computer setup.



A printed document, likely a pedigree chart, is shown on the right side of the desk. It contains detailed information about a Holstein cow's lineage and performance metrics, similar to the data displayed on the monitor.



HOLSTEIN ASSOCIATION USA, INC.
1 HOLSTEIN PLACE, PO BOX 808 • BRATTLEBORO, VT 05302-0808
800.952.5200 • WWW.HOLSTEINUSA.COM

A trusted source for accurate genetic information

Official Holstein Pedigrees combine ancestry, performance and genetic information all into one easy-to-use document. Whether you are making mating decisions or trying to decide which sale animal might have a place on your operation, Official Holstein Pedigrees give you the information and details you need on the animals you are working with.

Official Holstein Pedigrees also serve as a verified source of genetic, production and ancestry information when you are selling animals, allowing you to provide trusted documentation to potential buyers; the first step to satisfied, repeat customers!

Read with ease, evaluate with confidence

Official Holstein Pedigrees contain a wealth of important information on a single page. While each animal is different, their information is all presented in the same format, making it easy to evaluate and compare animals.

Official Holstein Pedigrees provide multi-generation details and performance information on Registered Holsteins of all ages.

How to Read an Official Holstein Pedigree

OFFICIAL HOLSTEIN PEDIGREE

Holstein Association USA, Inc. www.holsteinusa.com

1 100% Registered Holstein Ancestry (RHA-NA) 3368

2 **COOKIECUTTER DTA HABITAN-ET** 19K GTPI 93%R

5 840003134739087 100%RHA-NA +2826 G

5-06 90 EVVVE DOM

PTA +1075M +79F +39P 95%R 4/2023

PTA +739NM +.13%F +.02%P

PTA +3.3PL 2.93SCS +.0DPR 2.5%DCE

PTA +2.73T +2.54UDC +.39FLC 95%R 4/2023

PTA +203PE +0.4PI 2.3%SCS

6 AGE X DAYS MILK DCRM % FAT % PRT DCR

*** 2-04 3 305 30820 94 4.7 1438 3.1 961 88X

*** 5-05 3 131 9920 4.7 470 2.9 289

7 MR MOGUL DELTA 1427-ET Al/A2 BE 75K GTPI 99%R

USA 72128216 100%RHA-NA TR TC TY TV TL +2622 G

GM 8/20 01/31/2013

PTA +883M +56F +32P 99%R 4/2023

PTA +748NM +.08%F +.02%P 92%US

PTA +4.3PL 3.03SCS +.1DPR 2.1%DCE

PTA +1.13T +1.77UDC +4.0FLC 99%R 4/2023

PTA +197PE +0.3PI 1.8%SCS

COOKIECUTTER DAY HALEY-ET 9K GTPI 92%R

840003011584606 100%RHA-NA +2413 G

3-09 88 VEVVE DOM 04/14/2013

PTA +1387M +49F +34P 93%R 4/2023

PTA +284NM -.01%F -.03%P

PTA -.8PL 2.95SCS -2.3DPR 2.5%DCE

PTA +2.16T +1.63UDC +.09FLC 92%R 4/2023

PTA +121FE -1.7FI 2.4%SCS

AGE X DAYS MILK DCRM % FAT % PRT DCR

** 2-00 3 305 29920 90 3.8 1335 3.2 943 90

365 35140 90 3.9 1379 3.2 1126 90

** 3-03 3 305 28160 91 4.3 1217 3.2 900 91

365 31900 91 4.4 1401 3.2 1031 91

3 AOT GENETICS 02/06/2016

4 THOMAS KUGLER FEMALE

1 HOLSTEIN LN

BRATTLEBORO, VT 05302-0808

800/952-5200

MOUNTFIELD SSI DCY MOGUL-ET Al/A2 AE 50K GTPI 99%R

840003006972816 100%RHA-NA TR TP TC TY +2291 G

7-00 93 EEVE GM 8/15 06/22/2010

PTA +460M +42F +14P 99%R 4/2023

PTA +328NM +.09%F +.00%P 51%US

PTA +.0PL 3.13SCS -3.1DPR 1.6%DCE

PTA +1.29T +2.09UDC +1.07FLC 99%R 4/2023

MISS OCD ROBST DELICIOUS-ET 50K GTPI 97%R

840003006989479 100%RHA-NA +2653 G

3-05 87 +EV+V GMD DOM 01/28/2011

PTA +1880M +48F +61P 97%R 4/2023

PTA +814NM -.08%F +.01%P

PTA +4.0PL 2.95SCS -1.6DPR 2.3%DCE

PTA +.57T +1.53UDC -.30FLC 97%R 4/2023

AGE X DAYS MILK DCRM % FAT % PRT DCR

* 2-05 2 305 25780 89 3.5 908 3.1 793 89

365 33780 89 3.3 1121 3.1 1047 89

MINNIGAN-HILLS DAY-ET Al/A1 AA 50K GTPI 99%R

USA 69774730 100%RHA-NA TP TC TY TV TL +2313 G

GM 8/15 08/06/2010

PTA +1102M +18F +27P 99%R 4/2023

PTA +318NM -.08%F -.02%P 49%US

PTA +2.2PL 2.79SCS -.6DPR 2.3%DCE

PTA +1.03T +.91UDC -.03FLC 99%R 4/2023

COOKIECUTTER MOM HALO-ET 50K GTPI 97%R

840003007069733 100%RHA-NA +2290 G

2-09 88 VV+VE DOM 04/22/2010

PTA +294M +41F +21P 97%R 4/2023

PTA +207NM +.10%F +.04%P

PTA -.8PL 2.95SCS -.6DPR 2.3%DCE

PTA +1.34T +1.45UDC -.74FLC 96%R 4/2023

AGE X DAYS MILK DCRM % FAT % PRT DCR

** 2-00 3 305 31070 90 5.2 1608 3.4 1066 90X

365 35280 90 5.2 1819 3.5 1237 90X

Protein reported is true protein. 006235209 3342285 7/20/2023

©2021 HOLSTEIN ASSOCIATION USA, INC. BRATTLEBORO VERMONT 05302-0808 TELEPHONE 802-254-4551 TOLL-FREE WITHIN USA AND CANADA 800-952-5200 2121778

Information included on an Official Holstein Pedigree:

1. 100% Registered Holstein Ancestry (RHA-NA)

The first line, centered on a pedigree, shows the **percentage Registered Holstein Ancestry (RHA)** and whether the animal is of an entirely North American (RHA-NA) blood-line or has some International ancestors (RHA-I).

2. **COOKIECUTTER DTA HABITAN-ET** 840003134739087 100%RHA-NA 5-06 90 EVVVE DOM

The first information block on the left side of a pedigree provides you the animal's complete **identification and classification information**. You will see the animal's name, country of origin of the identification, registration number, %RHA information and any genetic condition codes that are on file with the Holstein Association.

Genetic Codes

BD Bulldog¹
 BL Bovine Leukocyte Adhesion Deficiency (BLAD)¹
 TL Tested free of BLAD
 BY Brachyspina¹
 TY Tested free of Brachyspina
 CD Cholesterol Deficiency¹
 TC Tested free of Cholesterol Deficiency
 CV Complex Vertebral Malformation (CVM)¹
 TV Tested Free of CVM
 DP Deficiency of Uridine Monophosphate Synthase (DUMPS)¹
 TD Tested free of DUMPS
 MF Mule-Foot¹
 TM Tested free of Mule-Foot
 PO Observed Polled²
 PC Tested Heterozygous Polled²
 PP Tested Homozygous Polled²
 TP Tested free of the Polled Condition (horned)
 RC Recessive Red Carrier¹
 B/R Black/Red Coat Color¹
 TR Tested free of Recessive Red
 DR1 Tested Heterozygous Dominant Red²
 DR2 Tested Homozygous Dominant Red²

¹Recessive gene carrier ²Dominant gene carrier

Classification information is found under the animal's registration number. It includes the age of the animal at classification, final score and major classification categories. The five categories are Front End/Capacity, Dairy Strength, Rump, Feet & Legs, and Udder. Cows with classification scores that were received prior to December 2004 are underlined, and represent the following categories: Frame, Dairy Character, Body Capacity, Feet & Legs, and Udder. If an animal has been classified Excellent in more than one age category, a multiple E designation may appear on this line after major category designations. Recognition as a Gold Medal Sire (GM), Gold Medal Dam (GMD) or Dam of Merit (DOM) will be found on this line as well.

3. A1/A2 BE 75K GTPI 99%R
 +2622 G

TPI® (Total Performance Index) values appear on the same line as the name. TPI is a selection index based on a balance of traits to assist Holstein breeders by sorting out animals that possess genes which will enhance the overall quality of the Holstein breed. There are different types of TPIs you will find on pedigrees:

The TPI value is preceded by a percentile ranking of P5 through P9 for the top 50% of animals born within a given year of birth, for animals less than three years old. For example, P9 animals are in the 90th percentile for the birth year, P8s are in the 80th percentile, etc.

For genomic-tested animals, you will find an indicator of which SNP density chip they were tested on (ex: 19k). After the TPI indicator is the TPI reliability value. If an animal has genetic test results for Beta Casein or Kappa Casein milk proteins, they will appear on this line, to the left of the genomic chip density indicator. Examples of these labels can be seen on the paternal ancestors on this pedigree.

3368
 FEMALE
 02/06/2016

AOT GENETICS
 THOMAS KUGLER
 1 HOLSTEIN LN
 BRATTLEBORO, VT 05302-0808
 800/952-5200

4. The information block in the upper right corner reflects **ownership information and the birth date of the animal**. This block also designates whether the animal is male or female and the animal's barn ID or short name for AI bulls.

5. PTA	+1075M	+79F	+39P	95%R	4/2023
PTA	+739NM	+ .13%F	+ .02%P		
PTA	+3.3PL	2.93SCS	+ .0DPR	2.5%DCE	
PTA	+2.73T	+2.54UDC	+ .39FLC	95%R	4/2023
PTA	+203FE	+0.4FI	2.3%SCE		

Predicted Transmitting Ability (PTA) information follows the animal's identification and classification information. PTAs express the level of genetic superiority or inferiority an animal is expected to transmit to its offspring for a given production or type trait. These values are used to rank animals based on their genetic merit.

Line one indicates the Predicted Transmitting Ability for Milk (M), Fat (F), Protein (P), and Reliability (R) for production information. The date of the PTA for production calculation is also shown on this line. For animals that have a PTPI, the PTA values are estimated by averaging the parents' PTAs. This is denoted with #.

Line two indicates the PTA for Net Merit (NM) and the PTA% for Fat and Protein. For males this line will also include the percent of U.S. daughters in the evaluation.

Line three shows PTAs for Productive Life (PL), Somatic Cell Score (SCS), Daughter Pregnancy Rate (DPR), and Daughter Calving Ease (DCE).

Line four provides the animal's Predicted Transmitting Ability for Type (T), Udder Composite (UDC) and Feet and Legs Composite (FLC). The Reliability (R) for Type and the date of PTAT calculations are also shown on this line.

Line five shows PTAs for Feed Efficiency (FE), Fertility Index (FI), and Sire Calving Ease (SCE).

International genetic evaluations for type and production are labeled by printing MACE YIELD EVALUATION and/or MACE TYPE EVALUATION on the line above the PTA data. The TPI value will be followed by an M. If a conversion formula is used to convert a foreign type evaluation to a U.S. base then CONVERTED TYPE EVALUATION will be printed above the PTA data. These evaluations are based on either conversion formulas or Multiple Across Country Evaluations (MACE). Whenever the PTPI of an offspring of a bull with a MACE or converted proof is calculated a C or an M will appear after the PTPI value until U.S. information is available.

6.***	AGE	X	DAYS	MILK	DCRM %	FAT %	PRT	DCRC
2-04	3	305	30820	94	4.7	1438	3.1	961 88X
***	5-05	3	131	9920	4.7	470	2.9	289

For females, **production records** follow the genetic information. Each main line indicates the TriStar Option; age at calving; number of times milked per day; length of record in days; pounds of milk; DCRM (Data Collection Rating for milk); fat percent; pounds of fat; protein percent; pounds of protein; and DCRC (Data Collection Rating for components) during that lactation up to 305 days. An "X" at the end of the line indicates that the record is significantly above herd average. A second line of data is only included if the cow's lactation is longer than 305 days (up to 365 days) for that lactation. Once a cow produces more than 100,000 pounds of milk, her total production information appears on the pedigree and is labeled "LIFE."

State and national leader records for Milk, Fat and Protein production are labeled on the line below the outstanding record. This recognition is based on TriStar Premier records and awarded in eight age categories.

Type of Testing Program Labels

TriStar Labels (for production records starting after 1/1/1997)	
Premier	***
Deluxe	**
Custom	*
Automated Milk Records	AMR

Type of Test (for records prior to 1/1/1997)	Dairy Herd Improvement Registry	Dairy Herd Improvement Association
Alternating AM/PM with a time monitor	APT	APM
Alternating AM/PM component sampling	APS	APC
Alternating AM/PM without a time monitor	APR	APD
Weights and component samples at monthly test milkings	DHR	DHI

- The space below the production records is used to list other recognitions, including National Show placings, All-National and All-American recognitions, Elite Performer and Star of the Breed honors.



Holstein Association USA, Inc.

1 Holstein Place, PO Box 808 • Brattleboro, VT 05302-0808

800.952.5200 • www.holsteinusa.com