



GETTING THE MOST FOR YOUR INVESTMENT

How To Read An Official Holstein Pedigree



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 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.

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OFFICIAL HOLSTEIN PEDIGREE
Holstein Association USA, Inc.
www.holsteinausa.com

100% Registered Holstein Ancestry (RHA-NA)

1 HARVUE ROY FROSTY
USA 52378753 100%RHA-NA
5-07 95 EEEEE

2 PTA -481M +14F -15P 808R 8/2010
PTA +113NM +.118F -.018P
3 PTA +1.5PL 3.05SCS -.46PR 84DCR
4 PTA +2.83T +.63UDC +1.64FLC 768R 8/2010

5 AGE X DAYS MILK DCM % FAT % PWT DCM
* 2-01 2 355 21580 98 4.3 884 3.0 648 92
** 3-16 2 365 24750 98 4.2 1043 3.1 748 92

6 ** 3-16 2 365 21420 95 4.5 1436 2.9 234 85
363 17490 95 4.5 1479 2.9 1103 95
8-07 2 365 43710 95 5.0 2030 2.8 1138 89E
365 44710 95 5.0 2222 2.8 1248 95

7 LIFE 1383 122115 4.7 8709 3.0 3446

1st INTERNATIONAL SR, SR & GR CH 2009
ALL-AMERICAN SR 3Y COW 2007
1st INTERNATIONAL SR 3Y, INT & RES GR 2007
1st & FALL NATL SR 2Y COW 2006

11/07/2003 FROSTY FEMALE
J & N JUNEMANN, M & J DUCKETT & S, ARMB
*JIM JUNEMANN
7285 CTY RD 8
BUDOLPH, WI 54475
715/459-6480

8 KED JUROR-ET
PTA -124M -.20F -7P 898R 8/2010
PTA -83DM -.028F -.018P 294US
PTA +.6PL 3.06SCS -.90PR 84DCR
PTA +.79T +.73UDC -.94FLC 998R 8/2010

AGE X DAYS MILK DCM % FAT % PWT DCM
DNR 3-01 2 306 28270 3.8 1563 3.0 819 V
384 13170 3.8 1190 3.1 967 V
3-02 2 365 39570 3.9 1372 3.0 1094 V
368 41140 3.9 1592 3.0 1245 V

9 FIREDELL AEROSTAN BARLETTE-ET
PTA -14M +.20F -.5P 808R 8/2010
PTA -47DM +.081F -.028P
PTA -1.1PL 3.02SCS -1.10PR 114DCR
PTA +.78T +.04UDC -.71FLC 898R 8/2010

AGE X DAYS MILK DCM % FAT % PWT DCM
DNR 3-01 2 306 28270 3.8 1563 3.0 819 V
384 13170 3.8 1190 3.1 967 V
3-02 2 365 39570 3.9 1372 3.0 1094 V
368 41140 3.9 1592 3.0 1245 V

07/11/1991

10 RICH-RO MARK SAM-ET
PTA +127M -.31F -.6P 898R 8/2010
PTA -8DM +.104F -.038P 464DC
PTA +1.1PL 3.15SCS -1.33PR 104DCR
PTA -.15T -.18UDC -1.71FLC 898R 8/2010

AGE X DAYS MILK DCM % FAT % PWT DCM
DNR 3-01 2 365 22860 3.9 1046 3.5 796 100
363 27880 3.9 4.6 1209 3.5 953 100
8-01 2 395 29640 3.9 4.5 1134 2.9 888 99
365 34700 3.9 4.6 1804 3.0 1050 98
7-04 2 365 24120 3.4 3.1 1030 2.9 487 93
363 27720 3.4 4.6 1213 3.0 824 93

LIFE 2490 188870 4.5 8310 3.2 8964

2nd EASTERN NAT SRM YR HFR 1994

PTA indicates genomic data was supplied to USDA.
Protein reported is true protein.

0034602042 1638568 9/10/2016

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 a North American (RHA-NA) blood-line or International (RHA-I).

2. HARVUE ROY FROSTY USA 52378753 100%RHA-NA 5-07 95 EEEEE

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 codes.

Genetic Codes

BD	Bulldog ¹	HL	Hairless ¹
BL	Bovine Leukocyte Adhesion Deficiency (BLAD) ¹	IS	Imperfect Skin ¹
TL	Tested free of BLAD	MF	Mule-Foot ¹
BY	Brachyspina	TM	Tested free of Mule-Foot
TY	Tested free of Brachyspina	PO	Polled ²
CV	Complex Vertebral Malformation (CVM) ¹	PG	Prolonged Gestation ¹
TV	Tested Free of CVM	PT	Pink Tooth (Porphyria) ¹
DF	Dwarfism ¹	RC	Carrier of red hair ¹
DP	Deficiency of Uridine Monophosphate Synthase (DUMPS) ¹	B/R	Black/Red ¹
TD	Tested free of DUMPS	TR	Tested free of red hair color

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 current classification breakdowns were introduced in December 2004. 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 more than once, a multiple E designation may appear on this line after major category designations. Recognition as a Gold Medal Sire, Gold Medal Dam (GMD) or Dam of Merit (DOM) will be found on this line as well.

3. ^{GTPI} +1590 G

TPISM (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. The following traits are combined in the TPI formula: PTA Protein, PTA Fat, PTA Type, STA Dairy Form, Udder Composite, Feet & Leg Composite, PTA Productive Life, STA Somatic Cell Score, PTA Daughter Pregnancy Rate, PTA Daughter Calving Ease, and PTA Daughter Stillbirth. There are different types of TPis you will find on pedigrees: PTPI (Pedigree TPI) for young animals and older animals that do not have PTAs; CTPI (Cow TPI); and GTPI (Genomic TPI) for animals that have been genomically tested.

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 example, P9 animals are in the 90th percentile for the birth year, P8s are in the 80th percentile, etc.

4. J & N JUNEMANN, M & J DUCKETT & S. ARMB %JIM JUNEMANN 7285 CTY RD S RUDOLPH, WI 54475 715/459-6480

11/07/2003
FROSTY
FEMALE

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	-401M	+14F	-15P	80%R	8/2010
	PTA	+113NM	+ .11%F	- .01%P		
	PTA	+1.5PL	3.05SCS	- .4DPR	8%DCE	
	PTA	+2.83T	+2.63UDC	+1.64FLC	76%R	8/2010

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 young animals, 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.

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
	***	2-01	2	300	20310	100	4.4	889	3.2	640	100
	***	3-00	2	305	28070	100	4.3	1212	3.1	882	100
					351	31620	100	4.4	1379	3.2	1000
	***	4-01	2	305	22880	99	4.6	1046	3.5	796	100
					365	27380	99	4.6	1259	3.5	955
	***	5-07	2	305	29640	99	4.5	1334	2.9	868	99
					365	34700	99	4.6	1586	3.0	1050
	***	7-06	2	305	24120	94	4.3	1035	2.9	697	93
					365	27720	94	4.4	1213	3.0	824
		LIFE		2480	183870		4.5	8335	3.2	5964	

For females, **production records** follow the genetic information. Each main line indicates the type of testing program (for production records starting prior to 1/1/1997) or TriStar Option (for production records starting after 1/1/1997); 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 contains some extreme test-day data. 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.

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 DHIR and TriStar Premier records.

Once a cow produces more than 100,000 pounds of milk in her lifetime, total production information (LIFE) appears on the pedigree.

Type of Testing Program Labels

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

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

7. ALL-AMERICAN SR 3Y COW 2007
 1st INTERNATIONAL 5Y+, SR & GR CH 2009
 1st INTERNATIONAL SR 3Y, INT & RES GR 2007
 1st E FALL NATL SR 2Y COW 2006

Show records for females are found under the production records if there is room. 1st, 2nd, and 3rd place class winners of the National Holstein Shows are currently added to the database. All-American, Reserve All-American, and Honorable Mention All-American winners are also included in the database.