



HOW TO READ

Holstein Sire Information

7 8 9 10

1	HOLSTEIN JUROR JOHN-ET TPI +1708G						TRAIT	STA		2	1	0	1	2	
	USA 131520543 100%RHA-NA TV TL 03-02-05						Protein	2.58	High						
2	Sire: KED JUROR-ET +1709M						Fat	2.70	High						
	USA 2290977 100% RHA-NA TV TL 86 GM						Final Score	2.07	High						
3	Dam: HOLSTEIN BETTY +1664						Productive Life	0.00							
	USA 17215771 100%RHA-NA 88 EVVVV						Somatic Cell Score	0.38	Low						
4	PRODUCTION						Stature	2.02	Tall						
	Milk	+1705	%	%R	SIRE	DAM	DAU	GRP	Strength	0.38	Strong				
5	Fat	+62	+00	+43	+62	1000	936	Body Depth	0.77	Deep					
	Pro	+50	+00	+46	+44	822	772	Dairy Form	1.50	Open Rib					
6	01-2009	73 DAUS	44 HERDS	84 %RIP	100 %US	Rump Angle	1.05	High Pins							
	PL	+0.0	53	+0.0	-0.6	SCE 9%	69 %R	Rump Width	0.74	Wide					
7	SCS	3.05	67	2.92	3.14	DCE 9%	55 %R	R Legs-Side View	0.85	Straight					
	FE +140	NMS\$ +440	CM\$ +438	DCE 9%	FI 1.5	50 %R	R Legs-Rear View	2.67	Straight						
8	TYPE						Foot Angle	2.09	Steep						
	Type	+1.45	%R	SIRE	DAM	DAU	SC	AASC	Feet & Legs Score	0.82	High				
9	UDC	+1.53	82	+2.00	+1.95	76.0	79.8	Fore Attachment	1.26	Strong					
	FLC	+1.47	+1.94	-1.39	BD +1.29	D +1.37		Rear Udder Height	1.62	High					
10	01-2009	60 DAUS	38 HERDS	EFT	D/H 3.6			Rear Udder Width	2.00	Wide					
	Breeder	Bill & Betty Breeder				ACTIVE		Udder Cleft	1.23	Strong					
	Owner	AI Company				1H03872		Udder Depth	1.68	Shallow					
	Controller	AI Company				JOHN		F Teat Placement	1.28	Close					
								R Teat Placement	0.78	Close					
								Teat Length	1.52	Short					

1 IDENTIFICATION PEDIGREE BLOCK

Line 1 Bull's name, TPI® value and source of evaluation where: blank = US, G = Genomic, and M = MACE. TPI (Total Performance Index) is a multi-trait index, calculated by Holstein Association USA. It combines PTA Protein, PTA Fat, PTA Type, STA Dairy Form, Udder Composite, Feet and Legs Composite, PTA Productive Life and PTA SCS, PTA Daughter Pregnancy Rate, PTA Daughter Calving Ease, PTA Daughter Stillbirth, thus ranking sires on their ability to transmit a balance of these traits. Only the TPI value calculated by the Holstein Association USA is considered official. The current TPI formula is:

$$\frac{[27(PTAP) + 16(PTAF) + 3(PE) + 8(PTAT) - 1(DF) + 11(UDC) + 6(FLC) + 7(PL) - 5(SCS) + 13(FI) - 2(DCE) - 1(DSB)]}{19} \cdot 3.9 + 2187$$

Note: when calculating TPI value, do not round until the very end.

TPI® is a servicemark of Holstein Association USA, Inc.

Line 2 Nation, identification number, percentage Registered Holstein Ancestry (RHA) (NA=North American, I=International), any genetic codes, final score, date of birth, Gold Medal Sire designation and GM date.

GENETIC CODES

BD	BullDOG ¹	TM	Tested free of Mule-Foot
BL	Bovine Leukocyte Adhesion Deficiency (BLAD) ¹	PO	Observed Polled ²
TL	Tested free of BLAD	PC	Tested Heterozygous Polled ²
BY	Brachyspina ¹	PP	Tested Homozygous Polled ²
TY	Tested free of Brachyspina	TP	Tested free of the Polled Condition (horned)
CD	Cholesterol Deficiency ¹	RC	Carrier of Recessive Red Hair Color ¹
TC	Tested free of Cholesterol Deficiency	B/R	Black/Red ¹
CV	Complex Vertebral Malformation (CVM) ¹	TR	Tested free of Recessive Red Hair Color ¹
TV	Tested free of CVM	DR1	Tested Heterozygous for Dominant Red ²
DP	Deficiency of Uridine Monophosphate Synthase (DUMPS)	DR2	Tested Homozygous for Dominant Red ²
TD	Tested free of DUMPS		
MF	Mule-Foot ¹		

¹Recessive gene carrier

²Dominant gene carrier

Line 3 Sire's name and TPI value.

Line 4 Sire's nation, identification number, percentage RHA (NA=North American, I=International), recessive gene codes, final score, and Gold Medal Sire designation.

Line 5 Dam's name and CTPI value.

Line 6 Dam's nation, identification number, percentage RHA (NA=North American, I=International), recessive gene codes, final score, five major breakdowns and Gold Medal Dam and Dam of Merit designation.

2 PRODUCTION SUMMARY BLOCK

Line 1 Titles

Line 2 Milk: PTA, % Reliability, Sire's PTA, Dam's PTA, Daughter Averages (ME)³, Management Group Average (ME)³

Line 3 Fat: PTA, PTA %, Sire's PTA, Dam's PTA, Daughter Averages (ME)³, Management Group Average (ME)³

Line 4 Protein: PTA, PTA %, Sire's PTA, Dam's PTA, Daughter Averages (ME)³, Management Group Average (ME)³

Line 5 Evaluation date, number of daughters and herds, percentage of records in progress, percentage of daughters in the U.S.

3 ADDITIONAL GENETIC INFORMATION BLOCK

Line 1 PL: PTA, % Reliability, Sire's PTA, Dam's PTA, Service Sire Calving Ease, % Reliability.

Line 2 SCS: PTA, % Reliability, Sire's PTA, Dam's PTA, Daughter Calving Ease, % Reliability.

Line 3 Feed Efficiency, Net Merit \$, Cheese Merit \$, Fertility Index, % Reliability.

(Continued on next page)

HOW TO READ

Holstein Sire Information (continued)

7 8 9 10

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	USA 17215771 100%RHA-NA 88 EVVVV								Somatic Cell Score	0.38	Low						
4	PRODUCTION								Stature	2.02	Tall						
	Milk	+1705	%	83	+1976	+1291	26938	25231	Strength	0.38	Strong						
5	Fat	+62	+00	+43	+62	1000	936	Body Depth	0.77	Deep							
	Pro	+50	+00	+46	+44	822	772	Dairy Form	1.50	Open Rib							
6	01-2009	73 DAUS	44 HERDS			84 %RIP	100 %US	Rump Angle	1.05	High Pins							
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8	TYPE								Foot Angle	2.09	Steep						
	Type	+1.45	%R	82	+2.00	+1.95	DAU SC	76.0	AAS	0.82	High						
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11	Owner	AI Company							Udder Depth	1.68	Shallow						
	Controller	AI Company							F Teat Placement	1.28	Close						
12	6 ACTIVE								R Teat Placement	0.78	Close						
	1HO3872								Teat Length	1.52	Short						

4 TYPE SUMMARY BLOCK

- Line 1 Titles
- Line 2 Type: PTA, % Reliability, Sire's PTA, Dam's PTA, Daughter averages final score (SC)³, average age adjusted score (AASC)³.
- Line 3 UDC: Linear Composite Index for udder (UDC), Sire's UDC, Dam's UDC
- Line 4 FLC: Linear Composite Index for feet and legs (FLC), Sire's FLC, Dam's FLC, Body Size, Dairy Capacity³.
- Line 5 Evaluation date, number of daughters and herds, effective daughters per herd (EFT D/H)³. Effective daughters per herd is an indication of the distribution of daughters across herds. If each daughter were in a separate herd, the effective daughters per herd would be 1.0. The lower the value for effective daughters per herd, the more reliable the proof for a given number of progeny.

5 OWNERSHIP BLOCK

- Line 1 Name and state of the bull's breeder.
- Line 2 Name and state of the bull's owner or lessee, as recorded with Holstein Association USA.
- Line 3 Name of the bull's controller, as recorded with NAAB (National Association of Animal Breeders).

6 NAAB DATA BLOCK

- Line 1 Semen Status.
- Line 2 NAAB Number
- Line 3 Short Name.

7 TRAIT NAME BLOCK

Traits for which STA's are graphed.

8 STANDARD TRANSMITTING ABILITY (STA) BLOCK

Displays the STA value for each of the twenty-two traits; STA is a bull's PTA value on a standardized scale. STA values will almost always fall within 3 standard units of 0. Standardizing to a common scale readily allows one to see if a bull is more extreme in one trait than another.

9 BIOLOGICAL EXTREME BLOCK

Contains descriptions of the biological extremes for each of the twenty-two traits. When a bull's STA value is 0.85 or greater, the biological extreme is highlighted.

10 TRAIT PROFILE BLOCK

The STA values with the Confidence Range (CR) for each trait is displayed. CR is a measure of the reliability of the transmitting ability estimate. The shaded bar reflects the CR for each trait. As more daughters contribute to the proof the Reliability will increase and the confidence range will decrease. In this case, the shaded bar will shorten in length.

Extreme traits are illustrated by ◀ or ▶ when the lowest point of the CR exceed minus or plus 2.35.

³ If the bull has an official MACE evaluation this value will be based on the bull's Domestic U.S. evaluation.



Holstein Association USA

1 Holstein Place • Brattleboro, VT 05302-0808 USA
800.952.5200 • www.holsteinusa.com