



Understanding U.S. Sire Proofs

Total Performance Index (TPI) is a multi-trait index calculated by combining production, Type, longevity and fertility into a single value. The higher, the better.

Net Merit (NMS) measures the expected profit that offspring will provide over its lifetime. The higher the number, the more potential profit.

Type (PTAT): Type or conformation improvement expected from a bull's daughters compared to contemporaries

Udder Composite: Udder Depth, Fore Udder, Rear Udder Height, Rear Udder Width, Udder Cleft, Front and Rear Teat Placement

Feet and Legs Composite: Foot Angle, Rear Legs Rear View, Rear Legs Side View

Body Size Composite: Stature, Strength, Body Depth and Rump Width

Dairy Capacity Composite: Dairy Form and Strength
The higher number is better for all traits

Somatic Cell Score (SCS)

provides an indicator of mastitis in a bull's daughters based on the direct measure of somatic cells in milk samples. Lower is better.

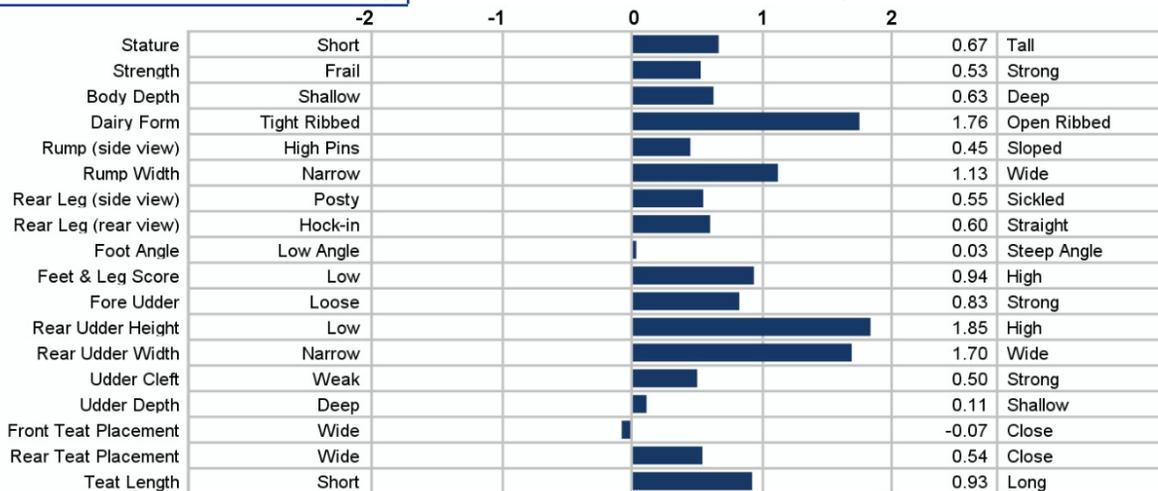
Sire calving ease measures the tendency of calves to be born more or less easily. Expressed as a percent of difficult births in first-calf heifers, the lower the value, the better.

Daughter stillbirth measures the ability of a bull's daughters to deliver a live calf. Expressed as a percent of still born calves, the lower the value, the better.

Productive Life (PL) is the measurement of the number of months a cow is expected to stay in the milking herd. Higher is more favorable.

Production		Type	Management Traits		
TPI	2719	PTA Type	1.60	SCE / Rel %	7.6/99
NMS	936	Udder Composite	0.68	DCE / Rel %	3.8/99
Feed Efficiency	219	Feet & Leg Composite	0.55	SSB / Rel %	6.4/99
PTA Milk (lbs)	2359	Body Composite	0.68	USB / Rel %	4.0/99
PTA Protein (lbs)	71	Dairy Composite	1.62	Productive Life	7.0
PTA Protein (%)	0.00	Type Reliability %	98	SCS	2.92
PTA Fat (lbs)	110	Dtrs / Herds	639/277	Fertility Index	1.40
PTA Fat (%)	0.08	aAa	132	DPR / Rel %	0.9/91
Production Reliability %	99	Sire Fertility		HCR / Rel %	1.80/94
Dtrs / Herds	2012/630	SCR / Rel %	3.3/99	CCR / Rel %	3.00/88

Daughters and herds with lactation records that were used in this evaluation. Reliability and accuracy increases with more daughters.



Information for December 2015 provided by the following:
Production: IB/MACE - USA, Type: USDA-CDCB/HA Genomic Service Sire Calving Ease: IB/MACE, Daughter Calving Ease: IB/MACE
Qualifies for export to the E.U.

Sire Conception Rate (SCR) is an evaluation of a sire's semen fertility. A higher number is preferred.

Origin of data
USDA-CDCB= Domestic production proof
USDA/HA= Domestic type proof
MACE/M=Interbull (international proof)

Proof month/year

Cow Conception Rate evaluates a lactating daughter's ability to conceive when bred. Expressed in conception rate percentage points, higher values are better.

Standard Transmitting Ability (STA) block. Displays the STA Value for each of the 18 traits. STA is a bull's PTA value on a standardized scale, showing if a bull is more extreme in one trait than another.

Daughter Pregnancy Rate (DPR) indicates the pregnancy rate difference expected in lactating daughters of a bull. A higher value is preferred.

Heifer Conception Rate is a measure of a daughter's ability to become pregnant when bred prior to first calving. These evaluations are expressed as percentage points of conception rate and higher values are preferred.