

# TOTAL PERFORMANCE INDEX

Top TPI Bull Currently Available in US  
SEAGUL-BAY  
SUPERSIRE  
TPI 2613

## What is TPI?

Total performance index is a method of rank-ing sires cows according to a formula. It seeks to identify cows who excel in three categories: production, health and conformation. TPI se-lects elite animals who represent the best combination of desired traits.

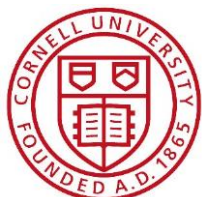
## Is TPI right for your farm?

**Q: How does TPI prioritize production, health and confirmation?**

A: 46% production, 28% health, 26% confirmation

**Q: How is TPI different from net merit?**

A: Net merit places dollar values to traits in order to determine the expected life-time profit of a cow. TPI ranks the cow based on traits.



Holstein Association Top 100 TPI International Bulls—April 2015 [Online] Available from

[http://www.holsteinusa.com/genetic\\_evaluations/internatop100.html?printable=true](http://www.holsteinusa.com/genetic_evaluations/internatop100.html?printable=true) [Accessed May 12th 2015].

TPI Formula - April 2015. [Online] Availible from: [http://www.holsteinusa.com/genetic\\_evaluations/ss\\_tpi\\_formula.html](http://www.holsteinusa.com/genetic_evaluations/ss_tpi_formula.html) [Accessed May 4th 2015]



$$\frac{[27(\text{PTAP}) + 16(\text{PTAF}) + 3(\text{FE}) + 8(\text{PTAT}) - 1(\text{DF}) + 11(\text{UDC}) + 6(\text{FLC}) + 7(\text{PL}) - 5(\text{SCS}) + 13(\text{FI}) - 2(\text{DCE}) - 1(\text{DSB})]}{19 \quad 22.5 \quad 44 \quad .73 \quad 1 \quad .8 \quad .85 \quad 1.51 \quad .12 \quad 1.25 \quad 1 \quad .9}] 3.9 + 2187}$$

$$\frac{27(\text{PTAP})}{19} + \frac{16(\text{PTAF})}{22.5} + \frac{3(\text{FE})}{44} + \frac{8(\text{PTAT})}{.73} - \frac{1(\text{DF})}{1} + \frac{11(\text{UDC})}{.8} + \frac{6(\text{FLC})}{.85} + \frac{7(\text{PL})}{1.51} - \frac{5(\text{SCS})}{.12} + \frac{13(\text{FI})}{1.25} - \frac{2(\text{DCE})}{1} - \frac{1(\text{DSB})}{.9} 3.9 + 2187$$

PTAP = PTA Protein

PTAF = PTA Fat

FE = Feed Efficiency

PTAT = PTA Type

DF = STA Dairy Form

UDC = Udder Compo-site

FLC = Feet & Legs Composite

PL = Productive Life

SCS = PTA Somatic Cell Score

FI= Fertility Index

DSB = Daughter Still-birth

**TPI Formula:**