

UNDERSTANDING US PROOFS

GTPI[®]:

Production (46%)

19% Protein (lbs)
19% Fat (lbs)
8% Feed Efficiency ¹

Health & Fertility (29%)

13% Fertility Index ²
5% Productive Life
3% Livability
2% Health Trait Index ⁴
-1% Daughter Calving Ease
-1% Daughter Stillbirth
-4% Somatic Cell Score

Conformation (25%)

11% Udder Composite
8% PTAT (overall type)
6% Feet & Leg Composite

Source: Holstein USA 2020

NET MERIT (NM\$):

Production (45%)

27% Fat (lbs)
17% Protein (lbs)
-1% Milk (lbs)

Health & Fertility (40%)

12% Productive Life
7% Daughter Pregnancy Rate
7% Livability
5% Calving Ability ³
2% Health Traits
2% Cow Conception Rate
1% Heifer Conception Rate
-4% Somatic Cell Score

Conformation (15%)

7% Udder Composite
3% Feet & Leg Composite
-5% Body Composite

Source: CDCB 2018

¹ Feed Efficiency:

Feed Efficiency = (Dollar value of milk produced) - (Feed costs for extra milk) - (Extra maintenance costs)
= (-0.0188 x Milk) + (1.45 x Fat) + (1.85 x Protein) - (12.4 x BWC)

² Fertility Index:

10% Heifer Conception Rate (HCR) + 10% Cow Conception Rate (CCR) + 70% Daughter Pregnancy Rate (DPR)
+ 10% Early First Calving

³ Calving Ability:

Calving Ability = -4x(SireCalvingEase-8) -3x(DaughterCE-8) -4x(SireStillBirth-8) -8x(DaughterSB-8)

⁴ Health Trait Index:

Health Trait Index = -(0.34 x Milk Fever) + (1.97 x Displaced Abomasum) + (0.28 x Ketosis) + (1.50 x Mastitis)
+ (1.12 x Metritis) + (0.68 x Retained Placenta)