

MANY NEW CHANGES WITH THE NEW DAIRY PROOFS



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DAIRY PROOF CHANGES

The U.S. is on the stepwise genetic base and therefore every five years the genetic base is updated. With the January 2010 Genetic Evaluations the accumulated genetic gain from the last five years is subtracted, so that all animals are compared with a more recent cow population. The 2010 genetic base for most traits is equal to all cows born in 2005. A few traits are based upon cows or bulls born in different years. For a complete list of the traits that use a different base definition see the November 2009 *Genetic Trends* article "Genetic Base Changes for January 2010".

In addition to the base change, there are also changes in both Lifetime Net Merit (NM\$) and Total Performance Index (TPI®). The two indexes both generally moved in the same direction. They were correlated .85, now the two new indexes are correlated .88. Both indexes generally decreased production and type emphasis while they increased emphasis on Productive Life (PL) and Daughter Pregnancy Rate (DPR).

Finally, USDA included a polygenic effect for the first time in the January sire run. The evaluation model assigns 90% of the genetic variation to the SNP effects, and 10% to

residual effects inherited with a pedigree relationship matrix. According to USDA, this change had little effect on progeny tested bulls. On young bulls the standard deviations decreased, but predicting their future evaluation improved.

POWER-PACKED LINEUP

The powerful lineup at Accelerated Genetics fared quite well with the changes in both NM\$ and TPI. In August 2009 Accelerated Genetics had 12 bulls over 500 NM\$. Now with the new formula and the addition of the new PACE graduates Accelerated Genetics has 21 bulls at that same level after you account for the 132 NM\$ adjustment due to base change. Accelerated Genetics had 11 bulls over 1800 TPI and now has 19 bulls over 1800 TPI including 5 new PACE graduates.

Several bulls moved significantly higher on NM\$ as well as TPI. 014HO04481 **Terminator** is an Outside from a Rudolph with two more excellent dams behind him. He increased almost 100 NM\$ to +474 NM\$ and is now +1900G TPI. Terminator is 93% reliable on production and 91% reliable on type. He is +5.2 PL, +1.6 DPR and 7% SSCE.

The bull that made the biggest jump in Accelerated Genetics' lineup is 014HO05016

Wilk. He is a son of 014HO03367 Tredway. His dam is a daughter of Rudolph and the next dam is a daughter of 014HO01114 Roebuck. Wilk increased an amazing 122 NM\$ and 149 TPI points to +1892G. Wilk is +4.7 PL, +2.0 DPR and 6% SSCE.

014HO04876 **Paxton** is an O Man from an EX-93 Rudolph dam and EX-90 Laban. Paxton increased 62 NM\$ to +516 NM\$ and up 43 TPI to +1983G. Paxton is +4.7 PL, +3.2 DPR and 7% SSCE.

POTTER & HIS SONS

Another bull that moved up nicely is 014HO03597 **Potter**. He added 3236 daughters and went up on almost everything across the board. He is up 52 NM\$ and 66 TPI points. Clearly Potter is a second crop success that just gets better with time. He was raised to VG-88 on his last classification and he is closing in on a million units both produced and sold. One of the true marks of a great sire is when his sons start graduating. This time we graduated four Potter sons from the PACE program. Three of the four are over 1800 TPI. All four Potter sons are in the image of their sire. They have good PL, DPR and low SSCE.

The highest new PACE graduate for NM\$ is 014HO05271 **Mike**. This Potter son is out of a VG-87 Bellwood Marshall with 28,000 milk, 4.3% fat, and 3.1% protein. The next dam is a VG-87 Rudolph with over 100,000 lifetime milk with 4.1% fat and 3.2% protein. As you might expect from this elite testing cow family, Mike is +.16% with +58 fat and +.01% with +15 protein. Mike is +3.2 PL, +1.5 DPR and 7% SSCE. Mike is a solid type bull. Daughters are medium-framed cows, have correct legs with well-attached udders.

The next Potter son is 014HO05260 **Hollywood**. He is out of an EX-90 EXMS Durham with records to 47,730 milk, 4.3% fat, and 3.3% protein. His next dam is a VG-88 Duster with 187,830 lifetime milk, 3.4% fat, and 3.3% protein. Then back to a VG-87 Leadman with 46,120 milk, 4.2% fat and 2.9% protein. The next dam is the EX-92 Jesse Harriet cow sired by 014HO00673 Jesse. Again Hollywood comes in at +4.1 PL, +1.5 DPR, and 8 % SSCE. Hollywood sires more frame,



014HO05156 Mast Daughter:

Cabin Hill Mast Jasmine • Cabin Hill Dairy • Boyceville, Wis.