

News - NAV routine evaluation

2 November 2010

The latest NAV routine evaluation for yield, fertility, type, udder health, other diseases, calving traits, milk ability, temperament, growth, longevity and NTM took place as scheduled. NAV carried out three evaluations per trait group:

Holstein evaluation, including data from: Danish Holstein, Danish Red Holstein, Swedish Holstein, Finnish Holstein, Finnish Ayrshire and Finn Cattle.

Red Dairy Cattle evaluation, including data from: Danish Red, Swedish Red, Finnish Ayrshire, Finnish Holstein and Finn Cattle.

Jersey evaluation, including data from: Danish Jersey and Swedish Jersey (only yield and type).

Extraction dates

Dates for extraction of data from national databases are given in table 1.

Table 1. Dates for extraction of data from the national databases

Trait	Denmark	Finland	Sweden
Yield	22.09.2010	19.09.2010	17.09.2010
Type, milk ability and temperament	04.10.2010	19.09.2010	20.09.2010
Fertility	04.10.2010	19.09.2010	19.09.2010
Udder health and other disease	04.10.2010	19.09.2010	19.09.2010
Calving	04.10.2010	19.09.2010	19.09.2010
Longevity	22.09.2010	19.09.2010	19.09.2010
Growth	22.09.2010	19.09.2010	16.09.2010

News in relation to NAV genetic evaluation

No changes except definition of genetic base for fertility, calving and resistance against other diseases

Genetic base

EBVs for bulls and females are expressed on the same cow base. This genetic evaluation included cows born from 02.11.2005 to 02.11.2007 in the genetic base (average 100).

The definition of genetic base has been changed from a bull base to and cow base for fertility, calving and resistance against other diseases. The effect on EBV of the change in genetic base is shown in table 2.

Table 2. Change in fertility, birth index, calving index, resistance against other diseases and NTM from previous to current genetic evaluation

	Fertility	Birth index	Calving index	Other disease	NTM
RDC	0	0	-1,0	-3,0	-1,0
Holstein	-5,0	-3,5	-3,5	-5,0	-4,0
Jersey	+3,0	+0,5	+1,0	-2,5	-0,5

Table 3. Definition of genetic base for cows and bulls

Trait	Genetic base
Yield, type, milk ability, temperament, longevity, mastitis resistance, growth*, fertility, calving and resistance against other diseases	Cows born 02.11.2005 - 02.11.2007

*Bull calves born in the same period

Publication of NTM for Nordic and foreign bulls

A NTM is published if the bull has official EBVs (NAV EBV or international EBV) for Yield, Mastitis and Type. By official means for NAV EBVs that the NAV thresholds are met and for international EBVs (IB EBVs) that Interbull estimates EBVs for the single bull. EBVs are used in the following priority NAV EBVs, IB EBVs and Pedigree index. For traits without a NAV EBV or an IB EBV a NAV pedigree index is calculated.

For bulls with a Nordic herd book number the pedigree index follows the principles described in the October 2008 routine information. For foreign bulls without a Nordic herd book number the pedigree index is calculated in as $\frac{1}{2}(\text{EBVsire}-100) + \frac{1}{4}(\text{EBVmgs}-100) + 100$. If EBVsire or EBVmgs is not official NAV EBVs then 100 is used.

NAV – frequency and timing of routine runs

NAV has so far performed 6 evaluations per year for all traits. Starting in August 2010 NAV will have 4 evaluations per year. Interbull change the timing of international evaluations in the autumn 2010. In Table 10, the future NAV and INTERBULL release dates are shown.

Table 10. NAV and INTERBULL release dates in 2010/2011. EBVs released at NAV dates in bold will be delivered to international genetic evaluation.

Month	2010/2011	
	NAV	INTERBULL
November 2010	2	
December 2010		7
January 2011		
February 2011	2	
March 2011		
April 2011		5
May 2011	2	
August 2011	9	9
September 2011		
October 2011		
November 2011	2	
December 2011		6

You can get more information about the joint Nordic evaluation:

General about Nordic Cattle Genetic Evaluation: www.nordicebv.info

Contact person: Gert Pedersen Aamand, Ph.: +45 87405288 gap@landscentret.dk,

Denmark: www.landscentret.dk/nav

Contact person: Ulrik Sander Nielsen, Danish Cattle, Ph. +45 87405289, usn@landscentret.dk

Sweden: www.svenskmjolk.se

Contact person: Jan-Åke Eriksson, Swedish Dairy Association, Ph. +46 08-790 58 67

jan-ake.eriksson@svenskmjolk.se

Finland: www.faba.fi

Contact person: Jukka Pösö, Faba, Ph +358-(0)207472071 jukka.poso@faba.fi