

News - NAV routine evaluation

2 May 2017

The latest NAV routine evaluation for yield, fertility, type, udder health, other diseases, calving traits, milkability, temperament, growth, longevity, youngstock survival, claw health 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, Swedish Jersey and Finnish Jersey.

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	21.03.2017	16.03.2017	17.03.2017
Type, milkability and temperament	21.03.2017	16.03.2017	17.03.2017
Fertility	22.03.2017	16.03.2017	17.03.2017
Udder health and other disease	21.03.2017	16.03.2017	17.03.2017
Calving	27.03.2017	16.03.2017	17.03.2017
Longevity	21.03.2017	16.03.2017	17.03.2017
Growth	21.03.2017	16.03.2017	17.03.2017
Claw health	21.03.2017	16.03.2017	17.03.2017
Youngstock survival	22.03.2017	16.03.2017	17.03.2017

Data used in genomic prediction

Genotypes were extracted from the joint Nordic SNP data base 19 April 2017. INTERBULL information from April 2017 was included in the genomic prediction.

News in relation to NAV genetic evaluation

Genomic prediction

No changes

Traditional evaluation

No changes

Genetic base

EBVs for bulls and females are expressed on the same cow base. This genetic evaluation included cows born from 02.05.2012 to 02.05.2014 in the genetic base (average 100).

Publication of NTM for Nordic and foreign bulls

NTM is published if the bull has official EBVs (NAV (G)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 EBVs for the single bull exist. For traits without a NAV (G)EBV or an IB (G)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.

Publication of EBVs/GEBVs

Official EBVs/GEBVs for bulls used for AI in Denmark, Finland or Sweden are published at the [NAV Bull Search](#).

Official NAV GEBVs for foreign AI bulls not used for AI in Denmark, Finland and Sweden are published at [NAV homepage](#). The excel sheets also include GEBVs for bulls used for AI in Denmark, Finland and Sweden. The excel sheets include AI bulls that are 10 month to 5 years old at the date of publication, and is mainly useful for foreign AI-companies.

Interbull EBVs/GEBVs are published at the [NAV Interbull Search](#).

NAV – frequency and timing of routine runs

NAV has 4 large evaluations per year, which include updated phenotypic and genomic data, and additional eight small runs including updated genotypes. In table 18 the NAV and INTERBULL release dates for 2016/17 are shown.

Table 18. NAV and INTERBULL release dates in 2017. EBVs released at NAV dates in bold will be delivered to international genetic evaluation.

Month	NAV Small run ¹⁾	NAV Large runs ²⁾	INTERBULL
January 2017	3		
February 2017		7	
March 2017	7		
April 2017	4		4
May 2017		2	
June 2017	8		
July 2017	4		
August 2017		8	8
September 2017	5		
October 2017	3		
November 2017		7	
December 2017	5		5

¹⁾ Genotypes updated; ²⁾ Genotypes and phenotypes updated

You can get more information about the joint Nordic evaluation:

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

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