

# News genomic prediction - NAV routine evaluation

## 2 December 2013

The latest NAV routine genomic prediction took place as scheduled. NAV carried out genomic prediction for Holstein, RDC and Jersey:

### Data used in genomic prediction

Genotypes were extracted from the joint Nordic SNP data base November 14<sup>th</sup> 2013. Interbull information was from August 2013. Nordic phenotypic information used in the genomic prediction was the same as in the 2<sup>nd</sup> November 2013 routine evaluation.

### News in relation to NAV genomic prediction

At the November 2<sup>nd</sup> evaluation GEBVs for offspring of a few bulls changed more in GEBV than expected. NAV has as informed earlier identified the problem and rerun the evaluation. A problem especially in relation to two Holstein bulls has been identified:

*HOLDNKM000000000253217 (VH Grafit) and og HOLDEUM000000113878473 (Jerudo)*

Offspring after the two bulls have been affected including a few top ranking genomic tested bulls. In table 1 the corrected GEBVs are shown for some high ranking sons after VH Grafit.

Table 1. GEBVs for selected son after VH Grafit

Bull	NTM	Y- index	Growth	Birth	Calving	Fertility	Mastitis	Other diseases	Body	Feet&Legs	Udder	Milkability	Temp	Longivity	Claw
HOLDNKM000000000255183	35	129	100	106	101	112	104	101	100	117	112	97	94	117	107
HOLDNKM000000000255182	30	126	104	108	102	111	101	104	103	104	114	94	91	111	100
HOLDNKM000000000255190	33	119	88	101	113	113	111	112	110	114	104	104	91	129	124
HOLDNKM000000000255411	29	128	93	108	109	107	103	96	109	110	109	92	90	109	97
HOLDNKM000000000255417	28	121	102	106	107	118	96	104	107	106	110	112	107	106	108
HOLFINM000000000096307	36	122	92	105	112	112	110	116	102	112	118	99	87	120	108
HOLSWEM000000000048958	24	117	81	113	103	111	94	104	103	111	116	106	109	112	108
HOLSWEM000000000048969	31	109	105	104	116	125	115	112	107	111	115	94	95	122	95
HOLSWEM000000000048973	28	120	102	109	98	112	106	104	112	104	111	103	102	124	96

All genomic tested offspring after the two bulls were to some extent affected, and GEBVs for all traits except the linear type traits will be updated for genomic tested offspring after VH Grafit and Jerudo December 3<sup>rd</sup>.

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