



GE ALL TRAITS

GENETIC EVALUATION ALL TRAITS - CSV FORMAT

EFFECTIVE DECEMBER 2020

UPDATED JUNE 2020

<u>FIELD</u>	<u>CONTENT</u>	<u>MAX LENGTH</u>	<u>TYPE</u>	<u>COMMENTS</u>	<u>INTERBULL TRAIT</u>	<u>INTERBULL CODE</u>
1	REGISTRATION NUMBER	18	A/N			
2	REGISTERED NAME	50	A/N			
3	BIRTH DATE	8	D	YYYYMMDD		
4	GERUN	4	N			
5	GENOTYPE PANEL DENSITY	5	A/N	NOTE 4		
6	SIRE REGISTRATION NUMBER	18	A/N			
7	DAM REGISTRATION NUMBER	18	A/N			
8	LPI OFFICIAL CODE	1	N	NOTE 1		
9	LPI RELIABILITY	2	N			
10	LPI	5	N			
11	LPI PRODUCTION COMPONENT RELIABILITY	2	N			
12	LPI PRODUCTION COMPONENT	5	N			
13	LPI DURABILITY COMPONENT RELIABILITY	2	N			
14	LPI DURABILITY COMPONENT	5	N			
15	LPI HEALTH & FERTILITY COMPONENT RELIABILITY	2	N			
16	LPI HEALTH & FERTILITY COMPONENT	5	N			
17	PRO\$	5	N			
18	PRODUCTION OFFICIAL CODE	1	N	NOTE 1		
19	MILK RELIABILITY	2	N			
20	MILK	5	N		MILK	mil
21	FAT RELIABILITY	2	N			
22	FAT	4	N		FAT	fat
23	PROTEIN RELIABILITY	2	N			
24	PROTEIN	4	N		PROTEIN	pro
25	FAT PERCENT RELIABILITY	2	N			
26	FAT PERCENT	5	N	NOTE 2		
27	PROTEIN PERCENT RELIABILITY	2	N			
28	PROTEIN PERCENT	5	N	NOTE 2		
29	LACTATION PERSISTENCY (LP) OFFICIAL CODE	1	N	NOTE 1		
30	LP RELIABILITY	2	N			
31	LP	3	N			
32	SOMATIC CELL SCORE (SCS) OFFICIAL CODE	1	N	NOTE 1		
33	SCS RELIABILITY	2	N			
34	SCS	3	N		MILK SOMATIC CELL	scs
35	CALVING ABILITY (CA) OFFICIAL CODE	1	N	NOTE 1		
36	CA RELIABILITY	2	N			
37	CA	3	N			
38	DAUGHTER CALVING ABILITY (DCA) OFFICIAL CODE	1	N	NOTE 1		
39	DCA RELIABILITY	2	N			
40	DCA	3	N			
41	HERD LIFE (HL) OFFICIAL CODE	1	N	NOTE 1		
42	HL RELIABILITY	2	N			
43	HL	3	N			
44	MILKING SPEED (MSP) OFFICIAL CODE	1	N	NOTE 1		
45	MSP RELIABILITY	2	N			
46	MSP	3	N		MILKABILITY	mSP
47	MILKING TEMPERAMENT (MT) OFFICIAL CODE	1	N	NOTE 1		
48	MT RELIABILITY	2	N			
49	MT	3	N		TEMPERAMENT	tem
50	DAUGHTER FERTILITY (DF) OFFICIAL CODE	1	N	NOTE 1		
51	DF RELIABILITY	2	N			
52	DF	3	N			
53	BODY CONDITION SCORE (BCS) OFFICIAL CODE	1	N	NOTE 1		
54	BCS RELIABILITY	2	N			
55	BCS	3	N		BODY CONDITION SCORE	bcs
56	MASTITIS RESISTANCE (MR) OFFICIAL CODE	1	N	NOTE 1		
57	MR RELIABILITY	2	N			
58	MR	3	N		CLINICAL MASTITIS	mas
59	METABOLIC DISEASE RESISTANCE (MDR) OFFICIAL CODE	1	N	NOTE 1		
60	MDR RELIABILITY	2	N			
61	MDR	3	N			
62	HOOF HEALTH (HH) OFFICIAL CODE	1	N	NOTE 1		
63	HH RELIABILITY	2	N			
64	HH	3	N			
65	FEED EFFICIENCY (FE) OFFICIAL CODE	1	N	NOTE 1		
66	FE RELIABILITY	2	N			
67	FE	3	N			
68	CONFORMATION OFFICIAL CODE	1	N	NOTE 1		
69	CONFORMATION RELIABILITY	2	N			
70	CONFORMATION	3	N		OVERALL CONFORMATION SCORE	ocs
71	RUMP RELIABILITY	2	N			
72	RUMP	3	N			
73	MAMMARY SYSTEM RELIABILITY	2	N			
74	MAMMARY SYSTEM	3	N		OVERALL UDDER SCORE	ous
75	FEET & LEGS/MOBILITY RELIABILITY	2	N			
76	FEET & LEGS/MOBILITY	3	N			
77	FOOT RELIABILITY	2	N			
78	FOOT	3	N			



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79	DAIRY STRENGTH RELIABILITY	2	N			
80	DAIRY STRENGTH	3	N			
81	RUMP ANGLE RELIABILITY	2	N			
82	RUMP ANGLE	3	N		RUMP ANGLE	ran
83	RUMP ANGLE ALPHA	1	A/N	NOTE 3		
84	PIN WIDTH RELIABILITY	2	N			
85	PIN WIDTH	3	N		RUMP WIDTH	rwi
86	LOIN STRENGTH RELIABILITY	2	N			
87	LOIN STRENGTH	3	N			
88	THURL PLACEMENT RELIABILITY	2	N			
89	THURL PLACEMENT	3	N			
90	THURL PLACEMENT ALPHA	1	A/N	NOTE 3		
91	UDDER FLOOR RELIABILITY	2	N			
92	UDDER FLOOR	3	N			
93	UDDER FLOOR ALPHA	1	A/N	NOTE 3		
94	UDDER DEPTH RELIABILITY	2	N			
95	UDDER DEPTH	3	N		UDDER DEPTH	ude
96	UDDER DEPTH ALPHA	1	A/N	NOTE 3		
97	UDDER TEXTURE RELIABILITY	2	N			
98	UDDER TEXTURE	3	N			
99	MEDIAN SUSPENSORY RELIABILITY	2	N			
100	MEDIAN SUSPENSORY	3	N		UDDER SUPPORT	usu
101	FORE ATTACHMENT RELIABILITY	2	N			
102	FORE ATTACHMENT	3	N		FORE UDDER ATTACHMENT	fua
103	FORE TEAT PLACEMENT RELIABILITY	2	N			
104	FORE TEAT PLACEMENT	3	N		FRONT TEAT PLACEMENT	ftp
105	FORE TEAT PLACEMENT ALPHA	1	A/N	NOTE 3		
106	REAR ATTACHMENT HEIGHT RELIABILITY	2	N			
107	REAR ATTACHMENT HEIGHT	3	N		REAR UDDER HEIGHT	ruh
108	REAR ATTACHMENT WIDTH RELIABILITY	2	N			
109	REAR ATTACHMENT WIDTH	3	N		REAR UDDER WIDTH	ruw
110	REAR TEAT PLACEMENT RELIABILITY	2	N			
111	REAR TEAT PLACEMENT	3	N		REAR TEAT PLACEMENT	rtp
112	REAR TEAT PLACEMENT ALPHA	1	A/N	NOTE 3		
113	TEAT LENGTH RELIABILITY	2	N			
114	TEAT LENGTH	3	N		FRONT TEAT LENGTH	ftl
115	TEAT LENGTH ALPHA	1	A/N	NOTE 3		
116	FOOT ANGLE RELIABILITY	2	N			
117	FOOT ANGLE	3	N		FOOT ANGLE	fan
118	HEEL DEPTH RELIABILITY	2	N			
119	HEEL DEPTH	3	N		HEEL DEPTH / HOOF HEIGHT	hde
120	BONE QUALITY RELIABILITY	2	N			
121	BONE QUALITY	3	N			
122	REAR LEGS SIDE VIEW RELIABILITY	2	N			
123	REAR LEGS SIDE VIEW	3	N		REAR LEG SET	rls
124	REAR LEGS SIDE VIEW ALPHA	1	A/N	NOTE 3		
125	REAR LEGS REAR VIEW RELIABILITY	2	N			
126	REAR LEGS REAR VIEW	3	N		REAR-LEG REAR VIEW	loc
127	FRONT LEGS VIEW RELIABILITY	2	N			
128	FRONT LEGS VIEW	3	N			
129	FRONT LEGS VIEW ALPHA	1	A/N	NOTE 3		
130	LOCOMOTION RELIABILITY	2	N			
131	LOCOMOTION	3	N			
132	STATURE RELIABILITY	2	N			
133	STATURE	3	N		STATURE	sta
134	STATURE ALPHA	1	A/N	NOTE 3		
135	HEIGHT AT FRONT END RELIABILITY	2	N			
136	HEIGHT AT FRONT END	3	N			
137	CHEST WIDTH RELIABILITY	2	N			
138	CHEST WIDTH	3	N		CHEST WIDTH	cwi
139	BODY DEPTH RELIABILITY	2	N			
140	BODY DEPTH	3	N		BODY DEPTH	bde
141	DAIRY CAPACITY RELIABILITY	2	N			
142	DAIRY CAPACITY	3	N		ANGULARITY	ang
143	DIRECT HERD LIFE (DHL) OFFICIAL CODE	1	N	NOTE 1		
144	DHL RELIABILITY	2	N			
145	DHL	3	N		DIRECT LONGEVITY	dlo
146	INDIRECT HERD LIFE (IHL) OFFICIAL CODE	1	N	NOTE 1		
147	IHL RELIABILITY	2	N			
148	IHL	3	N			
149	CLINICAL MASTITIS 1ST LACTATION (CM-FIRST) OFFICIAL CODE	1	N	NOTE 1		
150	CM-FIRST RELIABILITY	2	N			
151	CM-FIRST	3	N			
152	CLINICAL MASTITIS LATER LACTATIONS (CM-LATER) OFFICIAL CODE	1	N	NOTE 1		
153	CM-LATER RELIABILITY	2	N			
154	CM-LATER	3	N			
155	CLINICAL KETOSIS FIRST LACTATION (CK-FIRST) OFFICIAL CODE	1	N	NOTE 1		
156	CK-FIRST RELIABILITY	2	N			



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157	CK-FIRST	3	N			
158	CLINICAL KETOSIS LATER LACTATIONS (CK-LATER) OFFICIAL CODE	1	N	NOTE 1		
159	CK-LATER RELIABILITY	2	N			
160	CK-LATER	3	N			
161	SUB-CLINICAL KETOSIS FIRST LACTATION (SCK-FIRST) OFFICIAL CODE	1	N	NOTE 1		
162	SCK-FIRST RELIABILITY	2	N			
163	SCK-FIRST	3	N			
164	SUB-CLINICAL KETOSIS LATER LACTATIONS (SCK-LATER) OFFICIAL CODE	1	N	NOTE 1		
165	SCK-LATER RELIABILITY	2	N			
166	SCK-LATER	3	N			
167	DISPLACED ABOMASUM FIRST LACTATION (DA-FIRST) OFFICIAL CODE	1	N	NOTE 1		
168	DA-FIRST RELIABILITY	2	N			
169	DA-FIRST	3	N			
170	DISPLACED ABOMASUM LATER LACTATIONS (DA-LATER) OFFICIAL CODE	1	N	NOTE 1		
171	DA-LATER RELIABILITY	2	N			
172	DA-LATER	3	N			
173	NRR HEIFER OFFICIAL CODE	1	N	NOTE 1		
174	NRR HEIFER RELIABILITY	2	N			
175	NRR HEIFER	3	N		HEIFER CONCEPTION	hco
176	NRR COW OFFICIAL CODE	1	N	NOTE 1		
177	NRR COW RELIABILITY	2	N			
178	NRR COW	3	N		COW CONCEPTION 1	cc1
179	CALVING TO FIRST SERVICE (CTFS) OFFICIAL CODE	1	N	NOTE 1		
180	CTFS RELIABILITY	2	N			
181	CTFS	3	N		COW RE-CYCLING	crc
182	FIRST SERVICE TO CONCEPTION-COWS (FSTC-C) OFFICIAL CODE	1	N	NOTE 1		
183	FSTC-C RELIABILITY	2	N			
184	FSTC-C	3	N		COW CONCEPTION 2	cc2
185	DAYS OPEN (DO) OFFICIAL CODE	1	N	NOTE 1		
186	DO RELIABILITY	2	N			
187	DO	3	N		COW INTERVAL MEASURES	int
188	AGE AT FIRST SERVICE (AFS) OFFICIAL CODE	1	N	NOTE 1		
189	AFS RELIABILITY	2	N			
190	AFS	3	N			
191	FIRST SERVICE TO CONCEPTION-HEIFERS (FSTC-H) OFFICIAL CODE	1	N	NOTE 1		
192	FSTC-H RELIABILITY	2	N			
193	FSTC-H	3	N			
194	DIRECT CALVING EASE-PROGENY BORN FROM HEIFERS (DCE-H) OFFICIAL CODE	1	N	NOTE 1		
195	DCE-H RELIABILITY	2	N			
196	DCE-H	3	N		DIRECT CALVING EASE	dce
197	DIRECT CALF SURVIVAL-PROGENY BORN FROM HEIFERS (DCS-H) OFFICIAL CODE	1	N	NOTE 1		
198	DCS-H RELIABILITY	2	N			
199	DCS-H	3	N		DIRECT STILLBIRTH	dsb
200	DIRECT CALVING EASE-PROGENY BORN FROM COWS (DCE-C) OFFICIAL CODE	1	N	NOTE 1		
201	DCE-C RELIABILITY	2	N			
202	DCE-C	3	N			
203	DIRECT CALF SURVIVAL-PROGENY BORN FROM COWS (DCS-C) OFFICIAL CODE	1	N	NOTE 1		
204	DCS-C RELIABILITY	2	N			
205	DCS-C	3	N			
206	CALVING EASE OF DAUGHTERS-FIRST CALVING (MCE-FIRST) OFFICIAL CODE	1	N	NOTE 1		
207	MCE-FIRST RELIABILITY	2	N			
208	MCE-FIRST	3	N		MATERNAL CALVING EASE	mce
209	CALF SURVIVAL AT DAUGHTERS FIRST CALVING (MCS-FIRST) OFFICIAL CODE	1	N	NOTE 1		
210	MCS-FIRST RELIABILITY	2	N			
211	MCS-FIRST	3	N		MATERNAL STILLBIRTH	msb
212	CALVING EASE OF DAUGHTERS-LATER CALVINGS (MCE-LATER) OFFICIAL CODE	1	N	NOTE 1		
213	MCE-LATER RELIABILITY	2	N			
214	MCE-LATER	3	N			
215	CALF SURVIVAL AT DAUGHTERS LATER CALVINGS (MCS-LATER) OFFICIAL CODE	1	N	NOTE 1		
216	MCS-LATER RELIABILITY	2	N			
217	MCS-LATER	3	N			
218	DIRECT GESTATION LENGTH-PROGENY BORN FROM HEIFERS (DGL-H) OFFICIAL COD	1	N	NOTE 1		
219	DGL-H RELIABILITY	2	N			
220	DGL-H GEBV	3	N			
221	DIRECT GESTATION LENGTH-PROGENY BORN FROM COWS (DGL-C) OFFICIAL CODE	1	N	NOTE 1		
222	DGL-C RELIABILITY	2	N			
223	DGL-C	3	N			
224	DIGITAL DERMATITIS (DD) OFFICIAL CODE	1	N	NOTE 1		
225	DD RELIABILITY	2	N			
226	DD	3	N			
227	INTERDIGITAL DERMATITIS (ID) OFFICIAL CODE	1	N	NOTE 1		
228	ID RELIABILITY	2	N			
229	ID	3	N			
230	HEEL HORN EROSION (HHE) OFFICIAL CODE	1	N	NOTE 1		
231	HHE RELIABILITY	2	N			
232	HHE	3	N			
233	SOLE ULCER (SU) OFFICIAL CODE	1	N	NOTE 1		
234	SU RELIABILITY	2	N			



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235	HOOF HEF	SU	3	N			
236		TOE ULCER (TU) OFFICIAL CODE	1	N	NOTE 1		
237		TU RELIABILITY	2	N			
238		TU	3	N			
239		WHITE LINE LESION (WL) OFFICIAL CODE	1	N	NOTE 1		
240		WL RELIABILITY	2	N			
241		WL	3	N			
242		SOLE HEMORRHAGE (SH) OFFICIAL CODE	1	N	NOTE 1		
243		SH RELIABILITY	2	N			
244		SH	3	N			
245	FERTILITY DISORDERS	INTERDIGITAL HYPERPLASIA (IH) OFFICIAL CODE	1	N	NOTE 1		
246		IH RELIABILITY	2	N			
247		IH	3	N			
248		CYSTIC OVARIES (CO) OFFICIAL CODE	1	N	NOTE 1		
249		CO RELIABILITY	2	N			
250		CO	3	N			
251		RETAINED PLACENTA (RPL) OFFICIAL CODE	1	N	NOTE 1		
252		RPL RELIABILITY	2	N			
253		RPL	3	N			
254		METRITIS (MET) OFFICIAL CODE	1	N	NOTE 1		
255	MET RELIABILITY	2	N				
256	MET	3	N				
257	RELEASE DATE		8	D	YYYYMMDD		

FIELD CODES:

- A/N ALPHANUMERIC FIELD
- D DATE FIELD(YYYYMMDD)
- N NUMERIC FIELD

GENERAL:

FIELDS WITH MISSING VALUES ARE SET TO BLANK.
 FILE CONTAINS A HEADER ROW
 CSV RECORD. END OF RECORD CONTAINS ','

REGISTRATION NUMBER FIELD MADE UP OF FOUR COMPONENTS: BREED CODE(2), COUNTRY CODE(3), SEX CODE(1), REGISTRATION NUMBER(12)

CODES:

SEE "DATA EXCHANGE SYSTEM CODES - BREED AND NATION CODES"
 CDN WEBSITE - DATA FILES - LAYOUTS

REGISTRATION NUMBER:

12 DIGIT ALPHANUMERIC FIELD THAT CONTAINS THE UNIQUE IDENTIFICATION NUMBER ASSIGNED TO THE ANIMAL BY THE RESPECTIVE BREED ASSOCIATION. THE REGISTRATION NUMBER WILL BE LEFT JUSTIFIED IN THE FIELD.

- NOTE 1:
- 0 UNOFFICIAL - BULLS ONLY (PRELIMINARY PROOF)
 - 1 OFFICIAL
 - 2 PARENT AVERAGE / PEDIGREE INDEX
 - 3 MACE
 - 5 INTERNATIONAL GENOMIC INDEX (IGI)

NOTE 2: THE FIELD CONTAINS A VALUE WITH 2 DECIMAL PLACES. THE ACTUAL "." CHARACTER IS STORED IN THE FILE

NOTE 3: ALPHA CODES ARE INCLUDED IN THE FILE AS AN ALPHA CHARACTER AND DO NOT REQUIRE DECODING
 ALPHA CHARACTER DESCRIPTIONS REMAIN UNCHANGED FROM PREVIOUS DESCRIPTIONS:
 RUMP ANGLE CODES: H < 0, L > 0
 THURL PLACEMENT CODES: B < 0, A > 0
 REAR LEGS SIDE VIEW CODES: S < 0, C > 0
 UDDER DEPTH CODES: D < 0, S > 0
 FRONT TEAT LENGTH CODES: S < 0, L > 0
 FRONT TEAT PLACEMENT AND REAR TEAT PLACEMENT CODES: W < 0, C > 0
 UDDER FLOOR: T < 0 R > 0
 FRONT LEGS VIEW: K < 0 B > 0
 STATURE: S < 0, T > 0

- NOTE 4:
- LD LOW DENSITY (LESS THAN 50K)
 - MD MEDIUM DENSITY (50K OR HIGHER BUT NOT HD)
 - HD HIGH DENSITY (600K OR HIGHER)