



# GE ALL TRAITS

## GENETIC EVALUATION ALL TRAITS - CSV FORMAT

**EFFECTIVE APRIL 2025**

<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	PI RELIABILITY	2	N			
12	PRODUCTION INDEX (PI)	5	N			
13	LTI RELIABILITY	2	N			
14	LONGEVITY & TYPE INDEX (LTI)	5	N			
15	HWI RELIABILITY	2	N			
16	HEALTH & WELFARE INDEX (HWI)	5	N			
17	RI RELIABILITY	2	N			
18	REPRODUCTION INDEX (RI)	5	N			
19	MI RELIABILITY	2	N			
20	MILKABILITY INDEX (MI)	5	N			
21	EI RELIABILITY	2	N			
22	ENVIRONMENTAL IMPACT INDEX (EI)	5	N			
23	PRO\$	5	N			
24	PRODUCTION OFFICIAL CODE	1	N	NOTE 1		
25	MILK RELIABILITY	2	N			
26	MILK	5	N		MILK	mil
27	FAT RELIABILITY	2	N			
28	FAT	4	N		FAT	fat
29	PROTEIN RELIABILITY	2	N			
30	PROTEIN	4	N		PROTEIN	pro
31	FAT PERCENT RELIABILITY	2	N			
32	FAT PERCENT	5	N	NOTE 2		
33	PROTEIN PERCENT RELIABILITY	2	N			
34	PROTEIN PERCENT	5	N	NOTE 2		
35	LACTATION PERSISTENCY (LP) OFFICIAL CODE	1	N	NOTE 1		
36	LP RELIABILITY	2	N			
37	LP	3	N			
38	SOMATIC CELL SCORE (SCS) OFFICIAL CODE	1	N	NOTE 1		
39	SCS RELIABILITY	2	N			
40	SCS	3	N		MILK SOMATIC CELL	scs
41	CALVING ABILITY (CA) OFFICIAL CODE	1	N	NOTE 1		
42	CA RELIABILITY	2	N			
43	CA	3	N			
44	DAUGHTER CALVING ABILITY (DCA) OFFICIAL CODE	1	N	NOTE 1		
45	DCA RELIABILITY	2	N			
46	DCA	3	N			
47	HERD LIFE (HL) OFFICIAL CODE	1	N	NOTE 1		
48	HL RELIABILITY	2	N			
49	HL	3	N			
50	MILKING SPEED (MSP) OFFICIAL CODE	1	N	NOTE 1		
51	MSP RELIABILITY	2	N			
52	MSP	3	N		MILKABILITY	msp
53	MILKING TEMPERAMENT (MT) OFFICIAL CODE	1	N	NOTE 1		
54	MT RELIABILITY	2	N			
55	MT	3	N		TEMPERAMENT	tem
56	DAUGHTER FERTILITY (DF) OFFICIAL CODE	1	N	NOTE 1		
57	DF RELIABILITY	2	N			
58	DF	3	N			
59	BODY CONDITION SCORE (BCS) OFFICIAL CODE	1	N	NOTE 1		
60	BCS RELIABILITY	2	N			
61	BCS	3	N		BODY CONDITION SCORE	bcs
62	MASTITIS RESISTANCE (MR) OFFICIAL CODE	1	N	NOTE 1		
63	MR RELIABILITY	2	N			
64	MR	3	N		CLINICAL MASTITIS	mas
65	METABOLIC DISEASE RESISTANCE (MDR) OFFICIAL CODE	1	N	NOTE 1		
66	MDR RELIABILITY	2	N			
67	MDR	3	N			
68	HOOF HEALTH (HH) OFFICIAL CODE	1	N	NOTE 1		
69	HH RELIABILITY	2	N			
70	HH	3	N			
71	FEED EFFICIENCY (FE) OFFICIAL CODE	1	N	NOTE 1		
72	FE RELIABILITY	2	N			
73	FE	3	N			
74	METHANE EFFICIENCY (ME) OFFICIAL CODE	1	N	NOTE 1		

75	ME	ME RELIABILITY	2	N			
76		ME	3	N			
77		BODY MAINTENANCE REQUIREMENTS (BMR) OFFICIAL CODE	1	N	NOTE 1		
78	BMR	BMR RELIABILITY	2	N			
79		BMR	3	N			
80		CALF HEALTH (CH) OFFICIAL CODE	1	N	NOTE 1		
81	CH	CH RELIABILITY	2	N			
82		CH	3	N	NOTE 5		
83		CONFORMATION OFFICIAL CODE	1	N	NOTE 1		
84		CONFORMATION RELIABILITY	2	N			
85		CONFORMATION	3	N		OVERALL CONFORMATION SCORE	ocs
86		RUMP RELIABILITY	2	N			
87		RUMP	3	N			
88		MAMMARY SYSTEM RELIABILITY	2	N			
89		MAMMARY SYSTEM	3	N		OVERALL UDDER SCORE	ous
90		FEET & LEGS RELIABILITY	2	N			
91		FEET & LEGS	3	N		OVERALL FEET & LEG SCORE	ofs
92		DAIRY STRENGTH RELIABILITY	2	N			
93		DAIRY STRENGTH	3	N			
94		RUMP ANGLE RELIABILITY	2	N			
95		RUMP ANGLE	3	N		RUMP ANGLE	ran
96		RUMP ANGLE ALPHA	1	A/N	NOTE 3		
97		PIN WIDTH RELIABILITY	2	N			
98		PIN WIDTH	3	N		RUMP WIDTH	rwi
99		LOIN STRENGTH RELIABILITY	2	N			
100		LOIN STRENGTH	3	N			
101		THURL PLACEMENT RELIABILITY	2	N			
102		THURL PLACEMENT	3	N			
103		THURL PLACEMENT ALPHA	1	A/N	NOTE 3		
104		UDDER FLOOR RELIABILITY	2	N			
105		UDDER FLOOR	3	N			
106		UDDER FLOOR ALPHA	1	A/N	NOTE 3		
107		UDDER DEPTH RELIABILITY	2	N			
108		UDDER DEPTH	3	N		UDDER DEPTH	ude
109		UDDER DEPTH ALPHA	1	A/N	NOTE 3		
110		UDDER TEXTURE RELIABILITY	2	N			
111		UDDER TEXTURE	3	N			
112		MEDIAN SUSPENSORY RELIABILITY	2	N			
113		MEDIAN SUSPENSORY	3	N		UDDER SUPPORT	usu
114		FORE ATTACHMENT RELIABILITY	2	N			
115		FORE ATTACHMENT	3	N		FORE UDDER ATTACHMENT	fua
116		FORE TEAT PLACEMENT RELIABILITY	2	N			
117		FORE TEAT PLACEMENT	3	N		FRONT TEAT PLACEMENT	ftp
118		FORE TEAT PLACEMENT ALPHA	1	A/N	NOTE 3		
119		REAR ATTACHMENT HEIGHT RELIABILITY	2	N			
120		REAR ATTACHMENT HEIGHT	3	N		REAR UDDER HEIGHT	ruh
121		REAR ATTACHMENT WIDTH RELIABILITY	2	N			
122		REAR ATTACHMENT WIDTH	3	N		REAR UDDER WIDTH	ruw
123		REAR TEAT PLACEMENT RELIABILITY	2	N			
124		REAR TEAT PLACEMENT	3	N		REAR TEAT PLACEMENT	rtp
125		REAR TEAT PLACEMENT ALPHA	1	A/N	NOTE 3		
126		TEAT LENGTH RELIABILITY	2	N			
127		TEAT LENGTH	3	N		FRONT TEAT LENGTH	ftl
128		TEAT LENGTH ALPHA	1	A/N	NOTE 3		
129		FOOT ANGLE RELIABILITY	2	N			
130		FOOT ANGLE	3	N		FOOT ANGLE	fan
131		HEEL DEPTH RELIABILITY	2	N			
132		HEEL DEPTH	3	N		HEEL DEPTH	hde
133		BONE QUALITY RELIABILITY	2	N			
134		BONE QUALITY	3	N			
135		REAR LEGS SIDE VIEW RELIABILITY	2	N			
136		REAR LEGS SIDE VIEW	3	N		REAR LEG SET	rls
137		REAR LEGS SIDE VIEW ALPHA	1	A/N	NOTE 3		
138		REAR LEGS REAR VIEW RELIABILITY	2	N			
139		REAR LEGS REAR VIEW	3	N		REAR-LEG REAR VIEW	loc
140		FRONT LEGS VIEW RELIABILITY	2	N			
141		FRONT LEGS VIEW	3	N			
142		FRONT LEGS VIEW ALPHA	1	A/N	NOTE 3		
143		LOCOMOTION RELIABILITY	2	N			
144		LOCOMOTION	3	N			
145		STATURE RELIABILITY	2	N			
146		STATURE	3	N		STATURE	sta
147		STATURE ALPHA	1	A/N	NOTE 3		
148		HEIGHT AT FRONT END RELIABILITY	2	N			
149		HEIGHT AT FRONT END	3	N			
150		CHEST WIDTH RELIABILITY	2	N			
151		CHEST WIDTH	3	N		CHEST WIDTH	cwi
152		BODY DEPTH RELIABILITY	2	N			
153		BODY DEPTH	3	N		BODY DEPTH	bde
154		RIB STRUCTURE RELIABILITY	2	N			
155		RIB STRUCTURE	3	N		ANGULARITY	ang
156		DIRECT HERD LIFE (DHL) OFFICIAL CODE	1	N	NOTE 1		
157	DHL	DHL RELIABILITY	2	N			

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

241	ID RELIABILITY	2	N	
242	ID	3	N	
243	HEEL HORN EROSION (HHE) OFFICIAL CODE	1	N	NOTE 1
244	HHE RELIABILITY	2	N	
245	HHE	3	N	
246	SOLE ULCER (SU) OFFICIAL CODE	1	N	NOTE 1
247	SU RELIABILITY	2	N	
248	SU	3	N	
249	TOE ULCER (TU) OFFICIAL CODE	1	N	NOTE 1
250	TU RELIABILITY	2	N	
251	TU	3	N	
252	WHITE LINE LESION (WL) OFFICIAL CODE	1	N	NOTE 1
253	WL RELIABILITY	2	N	
254	WL	3	N	
255	SOLE HEMORRHAGE (SH) OFFICIAL CODE	1	N	NOTE 1
256	SH RELIABILITY	2	N	
257	SH	3	N	
258	INTERDIGITAL HYPERPLASIA (IH) OFFICIAL CODE	1	N	NOTE 1
259	IH RELIABILITY	2	N	
260	IH	3	N	
261	CYSTIC OVARIES (CO) OFFICIAL CODE	1	N	NOTE 1
262	CO RELIABILITY	2	N	
263	CO	3	N	
264	RETAINED PLACENTA (RPL) OFFICIAL CODE	1	N	NOTE 1
265	RPL RELIABILITY	2	N	
266	RPL	3	N	
267	METritis (MET) OFFICIAL CODE	1	N	NOTE 1
268	MET RELIABILITY	2	N	
269	MET	3	N	
270	RESPIRATORY (RES) OFFICIAL CODE	1	N	NOTE 1
271	RES RELIABILITY	2	N	
272	RES	3	N	NOTE 5
273	DIARRHEA (DIA) OFFICIAL CODE	1	N	NOTE 1
274	DIA RELIABILITY	2	N	
275	DIA	3	N	NOTE 5
276	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"  
LACTANET GENETICS 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)

NOTE 5: ALL FIELDS RELATED TO CALF HEALTH WILL BE SET AS BLANK UNTIL THE OFFICIAL RELEASE STARTING AUGUST 2025.