

**BULL EVALUATION FILE LAYOUT - CSV FORMAT**

<b><u>Field</u></b>	<b><u>Content</u></b>	<b><u>Max Length</u></b>	<b><u>Type</u></b>	<b><u>Comments</u></b>
1	REGISTRATION NUMBER	18	A/N	NOTE 5
2	REGISTERED NAME	50	A/N	
3	SHORT NAME	15	A/N	NOTE 1
4	BIRTH DATE	8	D	
5	BULLS FINAL CLASS	2	A/N	
6	BULLS FINAL SCORE	2	N	
7	COLOUR CODE	3	A/N	NOTE 10
8	POLLED	5	A/N	NOTE 10
9	BETA CASEIN (A2)	5	A/N	NOTE 10
10	GENETIC RECESSIVE 1	5	A/N	NOTE 10
11	GENETIC RECESSIVE 2	5	A/N	NOTE 10
12	GENETIC RECESSIVE 3	5	A/N	NOTE 10
13	GENETIC RECESSIVE 4	5	A/N	NOTE 10
14	GENETIC RECESSIVE 5	5	A/N	NOTE 10
15	GENETIC RECESSIVE 6	5	A/N	NOTE 10
16	GENETIC RECESSIVE 7	5	A/N	NOTE 10
17	GENETIC RECESSIVE 8	5	A/N	NOTE 10
18	GENETIC RECESSIVE 9	5	A/N	NOTE 10
19	GENETIC RECESSIVE 10	5	A/N	NOTE 10
20	INBREEDING COEFFICIENT (%INB)	5	N	NOTE 4
21	RELATIONSHIP VALUE (R-VALUE)	2	N	
22	NAAB MARKETING CODE	4	A/N	e.g. 0200
23	NAAB CODE	10	A/N	e.g. 028HO12345
24	PROOF ACTIVITY CODE and GENOTYPE INDICATOR	1	N	NOTE 2
25	PROOF RELEASE CODE	1	N	NOTE 3
26	GERUN	4	A/N	YYMM
27	COUNTRY OF FIRST PROOF	3	A/N	
28	FIRST OFFICIAL PRODUCTION PROOF (RUN DATE)	4	A/N	YYMM
29	SIRE REGISTRATION NUMBER	18	A/N	NOTE 5
30	SIRE NAME	50	A/N	
31	SIRE SHORT NAME	15	A/N	NOTE 1
32	DAM REGISTRATION NUMBER	18	A/N	NOTE 5
33	DAM NAME	50	A/N	
34	MGS REGISTRATION NUMBER	18	A/N	NOTE 5
35	MGS NAME	50	A/N	
36	MGS SHORT NAME	15	A/N	NOTE 1
37	MGD REGISTRATION NUMBER	18	A/N	NOTE 5
38	MGD NAME	50	A/N	
39	GMGS REGISTRATION NUMBER	18	A/N	NOTE 5
40	GMGS NAME	50	A/N	
41	GMGS SHORT NAME	15	A/N	NOTE 1
42	GMGD REGISTRATION NUMBER	18	A/N	NOTE 5
43	GMGD NAME	50	A/N	
44	LPI OFFICIAL CODE	1	N	NOTE 11
45	LPI RELIABILITY	2	N	
46	LPI	5	N	

BULL INFORMATION

PEDIGREE

47		LPI PERCENTILE RANK	2	N	
48		LPI PRODUCTION COMPONENT RELIABILITY	2	N	
49		LPI PRODUCTION COMPONENT	5	N	
50	LPI	LPI PRODUCTION PERCENTILE RANK	2	N	
51		LPI DURABILITY COMPONENT RELIABILITY	2	N	
52		LPI DURABILITY COMPONENT	5	N	
53		LPI DURABILITY PERCENTILE RANK	2	N	
54		LPI HEALTH & FERTILITY COMPONENT RELIABILITY	2	N	
55		LPI HEALTH & FERTILITY COMPONENT	5	N	
56		LPI HEALTH AND FERTILITY PERCENTILE RANK	2	N	
57		PRO\$	5	N	
58		PRODUCTION OFFICIAL CODE	1	N	NOTE 11
59		HERDS PROTEIN	5	N	
60		DAUGHTERS PROTEIN	6	N	
61		NUMBER OF LACTATIONS	6	N	
62		RELIABILITY PROTEIN	2	N	
63		NUMBER OF DAUGHTERS 120/90 DIM (HO/CB)	6	N	
64		LACTATION NUMBER FOR 20TH DAUGHTER	1	N	
65		DIM FOR 20TH DAUGHTER	3	N	
66		PERCENT LACTATIONS 240 DIM	3	N	
67		TESTDAY (TD) RECORDS FOR PROTEIN	8	N	
68		PERCENT SUPERVISED TD RECORDS FOR PROTEIN	3	N	
69		% PROTEIN TD RECORDS FROM 24 HOUR TESTING	3	N	
70		EBV MILK KG	5	N	
71		PERCENTILE RANK MILK	2	N	
72		EBV FAT KG	4	N	
73		PERCENTILE RANK FAT	2	N	
74		EBV PROTEIN KG	4	N	
75		PERCENTILE RANK PROTEIN	2	N	
76		EBV FAT PERCENT	5	N	NOTE 4
77		EBV PROTEIN PERCENT	5	N	NOTE 4
78		RECORDS FOR MILK - MATURE EQUIVALENTS (ME)	6	N	
79		ME MILK (KG)	5	N	
80		ME FAT (KG)	5	N	
81		RECORDS FOR PROTEIN - (ME)	6	N	
82		ME PROTEIN (KG)	5	N	
83		LP OFFICIAL CODE	1	N	NOTE 11
84		HERDS FOR LACTATION PERSISTENCY (LP)	5	N	
85		DAUGHTERS (LP)	6	N	
86	LP	RELIABILITY (LP)	2	N	
87		LP RATING	3	N	
88		PERCENTILE RANK LP	2	N	
89		SCS OFFICIAL CODE	1	N	NOTE 11
90		HERDS FOR SOMATIC CELL SCORE (SCS)	5	N	
91		DAUGHTERS (SCS)	6	N	
92		RELIABILITY (SCS)	2	N	
93		SCS RATING	4	N	
94		PERCENTILE RANK SCS	2	N	
95		CA OFFICIAL CODE	1	N	NOTE 11
96		HERDS FOR CALVING ABILITY (CA)	5	N	
97		PROGENY BIRTHS (CA)	6	N	
98	CA	RELIABILITY (CA)	2	N	
99		CA RATING	3	N	

100		PERCENTILE RANK CA	2	N	
101		DCA OFFICIAL CODE	1	N	NOTE 11
102		HERDS FOR DAUGHTER CALVING ABILITY (DCA)	5	N	
103	DCA	DAUGHTER CALVINGS (DCA)	6	N	
104		RELIABILITY (DCA)	2	N	
105		DCA RATING	3	N	
106		PERCENTILE RANK DCA	2	N	
107		HL OFFICIAL CODE	1	N	NOTE 11
108		HERDS FOR HERD LIFE (HL)	5	N	
109	HL	DAUGHTERS (HL)	6	N	
110		RELIABILITY (HL)	2	N	
111		HL RATING	3	N	
112		PERCENTILE RANK HL	2	N	
113		MSP OFFICIAL CODE	1	N	NOTE 11
114		HERDS FOR MILKING SPEED (MSP)	5	N	
115	MSP	DAUGHTERS (MSP)	6	N	
116		RELIABILITY (MSP)	2	N	
117		MSP RATING	3	N	
118		PERCENTILE RANK MSP	2	N	
119		MT OFFICIAL CODE	1	N	NOTE 11
120		HERDS FOR MILKING TEMPERAMENT (MT)	5	N	
121	MT	DAUGHTERS (MT)	6	N	
122		RELIABILITY (MT)	2	N	
123		MT RATING	3	N	
124		PERCENTILE RANK MT	2	N	
125		DF OFFICIAL CODE	1	N	NOTE 11
126		HERDS FOR DAUGHTER FERTILITY (DF)	5	N	
127		DAUGHTERS (DF)	6	N	
128	DF	DAUGHTERS WITH COW NRR (DF)	6	N	
129		TOTAL RECORDS FOR NRR (DF)	6	N	
130		RELIABILITY (DF)	2	N	
131		DF RATING	3	N	
132		PERCENTILE RANK DF	2	N	
133		BCS OFFICIAL CODE	1	N	NOTE 11
134		HERDS FOR BODY CONDITION SCORE (BCS)	5	N	
135	BCS	DAUGHTERS (BCS)	6	N	
136		RELIABILITY (BCS)	2	N	
137		BCS RATING	3	N	
138		PERCENTILE RANK BCS	2	N	
139		MR OFFICIAL CODE	1	N	NOTE 11
140		HERDS FOR MASTITIS RESISTANCE (MR)	5	N	
141	MR	DAUGHTERS (MR)	6	N	
142		RELIABILITY (MR)	2	N	
143		MR RATING	3	N	
144		PERCENTILE RANK MR	2	N	
145		MDR OFFICIAL CODE	1	N	NOTE 11
146		HERDS FOR METABOLIC DISEASE RESISTANCE (MDR)	5	N	
147	MDR	DAUGHTERS (MDR)	6	N	
148		RELIABILITY (MDR)	2	N	
149		MDR RATING	3	N	
150		PERCENTILE RANK MDR	2	N	
151		HH OFFICIAL CODE	1	N	NOTE 11
152		HERDS FOR HOOF HEALTH (HH)	5	N	

FUNCTIONAL TRAITS

153		DAUGHTERS (HH)	6	N	
154	HH	TOTAL RECORDS (HH)	6	N	
155		RELIABILITY (HH)	2	N	
156		HH RATING	3	N	
157		PERCENTILE RANK HH	2	N	
158		FE OFFICIAL CODE	1	N	NOTE 11
159		HERDS FOR FEED EFFICIENCY (FE)	5	N	
160		DAUGHTERS (FE)	6	N	
161	FE	TOTAL RECORDS (FE)	6	N	
162		RELIABILITY (FE)	2	N	
163		FE RATING	3	N	
164		PERCENTILE RANK FE	2	N	
165		ME OFFICIAL CODE	1	N	NOTE 11
166		HERDS FOR METHANE EFFICIENCY (ME)	5	N	
167		DAUGHTERS (ME)	6	N	
168	ME	TOTAL RECORDS (ME)	6	N	
169		RELIABILITY (ME)	2	N	
170		ME RATING	3	N	
171		PERCENTILE RANK ME	2	N	
172		BMR OFFICIAL CODE	1	N	NOTE 11
173		HERDS FOR BODY MAINTENANCE REQUIREMENTS (BMR)	5	N	
174		DAUGHTERS (BMR)	6	N	
175	BMR	TOTAL RECORDS (BMR)	6	N	
176		RELIABILITY (BMR)	2	N	
177		BMR RATING	3	N	
178		PERCENTILE RANK BMR	2	N	
179		NUMBER FIRST INSEMINATIONS (SEMEN FERTILITY)	6	N	
180		SEMEN FERTILITY RELIABILITY	2	N	
181	SEMEN	SEMEN FERTILITY RATING	3	N	
182		CONFORMATION OFFICIAL CODE	1	N	NOTE 11
183		HERDS	5	N	
184	CONFORMATION	DAUGHTERS	6	N	
185		NUMBER OF CLASSIFICATIONS	6	N	
186		RELIABILITY CONFORMATION	2	N	
187		EBV CONFORMATION	3	N	
188		PERCENTILE RANK CONFORMATION	2	N	
189		CLASSIFICATION DATE OF 1ST DAUGHTER	8	D	
190		PERCENT DAUGHTERS CLASSIFIED GP AND BETTER	3	N	
191		AVERAGE FINAL SCORE	4	N	NOTE 12
192		RUMP	3	N	
193		PERCENTILE RANK RUMP	2	N	
194		MAMMARY SYSTEM	3	N	
195	SCORE CARD	PERCENTILE RANK MAMMARY SYSTEM	2	N	
196		FEET & LEGS/MOBILITY	3	N	
197		PERCENTILE RANK FEET & LEGS/MOBILITY	2	N	
198		FOOT	3	N	
199		PERCENTILE RANK FOOT	2	N	
200		DAIRY STRENGTH	3	N	
201		PERCENTILE RANK DAIRY STRENGTH	2	N	
202		RUMP ANGLE SIGN	1	A/N	NOTE 6
203		RUMP ANGLE	2	N	
204		RUMP ANGLE ALPHA	1	A/N	NOTE 7
205		PIN WIDTH	3	N	

206		LOIN STRENGTH	3	N	
207		THURL PLACEMENT SIGN	1	A/N	NOTE 6
208		THURL PLACEMENT	2	N	
209		THURL PLACEMENT ALPHA	1	A/N	NOTE 7
210		UDDER FLOOR SIGN	1	A/N	NOTE 6
211		UDDER FLOOR	2	N	
212		UDDER FLOOR ALPHA	1	A/N	NOTE 7
213		UDDER DEPTH SIGN	1	A/N	NOTE 6
214		UDDER DEPTH	2	N	
215		UDDER DEPTH ALPHA	1	A/N	NOTE 7
216	CONFORMATION TRAITS	UDDER TEXTURE	3	N	
217		MEDIAN SUSPENSORY	3	N	
218		FORE ATTACHMENT	3	N	
219		FORE TEAT PLACEMENT SIGN	1	A/N	NOTE 6
220		FORE TEAT PLACEMENT	2	N	
221		FORE TEAT PLACEMENT ALPHA	1	A/N	NOTE 7
222		REAR ATTACHMENT HEIGHT	3	N	
223	DESCRIPTIVE	REAR ATTACHMENT WIDTH	3	N	
224		REAR TEAT PLACEMENT SIGN	1	A/N	NOTE 6
225		REAR TEAT PLACEMENT	2	N	
226		REAR TEAT PLACEMENT ALPHA	1	A/N	NOTE 7
227		TEAT LENGTH SIGN	1	A/N	NOTE 6
228		TEAT LENGTH	2	N	
229		TEAT LENGTH ALPHA	1	A/N	NOTE 7
230		FOOT ANGLE	3	N	
231		HEEL DEPTH	3	N	
232		BONE QUALITY	3	N	
233		REAR LEGS SIDE VIEW SIGN	1	A/N	NOTE 6
234		REAR LEGS SIDE VIEW	2	N	
235		REAR LEGS SIDE VIEW ALPHA	1	A/N	NOTE 7
236		REAR LEGS REAR VIEW	3	N	
237		FRONT LEGS VIEW SIGN	1	N	NOTE 6
238		FRONT LEGS VIEW	2	N	
239		FRONT LEGS VIEW ALPHA	1	A/N	NOTE 7
240		LOCOMOTION	3	N	
241		STATURE SIGN	1	N	
242		STATURE	2	N	
243		STATURE ALPHA	1	A/N	NOTE 7
244		HEIGHT AT FRONT END	3	N	
245		CHEST WIDTH	3	N	
246		BODY DEPTH	3	N	
247		DAIRY CAPACITY	3	N	
248		GENOTYPE PANEL DENSITY	2	A/N	NOTE 13
249		RELEASE DATE	8	D	

FIELD CODES:

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

GENERAL: FIELDS WITH MISSING VALUES ARE LEFT BLANK  
FILE CONTAINS A HEADER ROW

CSV RECORD. END OF RECORD CONTAINS ','

NOTE 1: SHORT NAMES WILL ONLY APPEAR WHEN AVAILABLE FROM THE LACTANET DATABASE.  
SHORT NAMES FOR BULLS MUST BE PROVIDED BY THE BULL OWNER.

**NOTE 2: PROOF ACTIVITY CODES ARE CALCULATED BASED ON THE GENETIC EVALUATION RUN DATE.  
COMBINED TO INDICATED GENOMIC CONTENT**

- 0 NOT YET PROVEN - MAY HAVE OFFICIAL CALVING EVALUATION
- 1 NEWLY PROVEN
- 2 ADDED DAUGHTERS IN FIRST LACTATION IN THE LAST 12 MONTHS
- 3 NO ADDITIONAL DAUGHTERS IN FIRST LACTATION IN THE LAST 12 MONTHS **OR MACE PROOF FOR PRODUCTION  
AND/OR TYPE**
- 4 UNOFFICIAL LPI (PRODUCTION & CONFORMATION), OFFICIAL CALVING ABILITY OR DAUGHTER FERTILITY
- 5 **NOT YET PROVEN and GENOTYPED**
- 6 **NEWLY PROVEN and GENOTYPED**
- 7 **ADDED DAUGHTERS IN FIRST LACTATION IN THE LAST 12 MONTHS and GENOTYPED**
- 8 **NO ADDITIONAL DAUGHTERS IN FIRST LACTATION IN THE LAST 12 MONTHS and GENOTYPED**
- 9 **UNOFFICIAL LPI (PRODUCTION & CONFORMATION), OFFICIAL CALVING ABILITY OR DAUGHTER  
FERTILITY and GENOTYPED**

GENOTYPED INDICATES BREEDING VALUES INCLUDE GENOMIC INFORMATION

NOTE 3: PROOF RELEASE CODES REFLECT PAYMENT STATUS OF BULLS.

- 0 PROOF NOT TO BE RELEASED - TESTED IN CANADA BUT LACTANET FEES NOT PAID
- 1 RELEASE - TESTED IN CANADA AND LACTANET FEES PAID
- 2 RELEASE - NOT TESTED IN CANADA, FOREIGN SIRE, EXEMPT FROM LACTANET FEES
- 3 RELEASE - TESTED IN CANADA AND ANOTHER COUNTRY, LACTANET FEES NOT PAID, RECEIVES MACE PROOF UNTIL 9  
YEARS OF AGE
- 4 RELEASE - HAD AN OFFICIAL LPI IN NOVEMBER 1998, EXEMPT FROM LACTANET FEES
- 5 RELEASE - FIRST REGISTERED DAUGHTER BORN BEFORE SEPTEMBER 1995
- 6 RELEASE - EXCEPTIONS SAMPLED PRIOR TO PAY FOR SERVICE POLICY

ALL BULLS PROVEN PRIOR TO IMPLEMENTATION OF THE LACTANET "PAY FOR SERVICE POLICY" WILL RECEIVE AN ELIGIBLE STATUS.

YOUNG BULLS TESTED IN CANADA WILL RECEIVE A CODE 'NOT ELIGIBLE FOR PROOF RELEASE' UNTIL LACTANET FEES ARE PAID.  
PAYMENT MUST BE RECEIVED BEFORE THE BULL REACHES 36 MONTHS OF AGE.

AFTER A BULL REACHES 36 MONTHS OF AGE AND PAYMENT IS NOT RECEIVED, THE BULL WILL NO LONGER APPEAR IN THE FILE.

FOREIGN BULLS FIRST PROVEN IN ANOTHER COUNTRY WILL RECEIVE AN ELIGIBLE STATUS, HOWEVER HIGHER RELIABILITY LEVELS  
ARE REQUIRED FOR PUBLICATION OF PRODUCTION AND CONFORMATION EVALUATIONS.

**\*\*\* THIS FIELD SHOULD BE USED TO ENSURE FEES ARE PAID FOR INDIVIDUAL UNPROVEN  
SIRE APPEARING ON THE UNPUBLISHABLE BULL FILE BEFORE 36 MONTHS OF AGE. \*\*\***

NOTE 4: THE FIELD CONTAINS A VALUE WITH 2 DECIMAL PLACES.  
THE ACTUAL "." CHARACTER IS STORED IN THE FILE

NOTE 5: 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 6: SIGN FIELD IS EITHER BLANK OR '-' (NEGATIVE)

NOTE 7: ALPHA CODES ARE NOW 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 S > 0

STATURE: S < 0, T > 0

NOTE 8: EACH FIELD CONSISTS OF THE SCORE (POSITION 1 - 3) AND A PRINT FLAG CODE (POSITION 4).

NOTE 9: NEW DAUGHTER CODES

0 NO DAUGHTERS WITH 1ST LACTATION CALVED IN LAST 12 MONTHS

1 AT LEAST ONE DAUGHTER WITH 1ST LACTATION CALVED IN LAST 12 MONTHS

NOTE 10: SEE "DATA EXCHANGE SYSTEM CODES"  
CDN WEBSITE - DATA FILES - LAYOUTS

NOTE 11: 0 UNOFFICIAL  
1 OFFICIAL  
2 PARENT AVERAGE  
3 MACE  
5 INTERNATIONAL GENOMIC INDEX (IGI)

NOTE 12: THE FIELD CONTAINS A VALUE WITH 1 DECIMAL PLACE.  
THE ACTUAL "." CHARACTER IS STORED IN THE FILE

NOTE 13: LD LOW DENSITY (LESS THAN 50K)  
MD MEDIUM DENSITY (50K OR HIGHER BUT NOT HD)  
HD HIGH DENSITY (600K OR HIGHER)