
 Conversion Factors For Production Traits. Source: INTERBULL 1404

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	CHE	-388.16	1.282	-14.911	1.334	-13.015	1.410	0.7569
BSW	DEA	-22.94	1.257	3.366	1.448	3.328	1.456	0.7396
BSW	FRA	24.99	0.855	0.378	0.869	2.562	0.903	0.7569
BSW	GBR	-217.03	2.172	-9.725	2.442	-8.261	2.662	0.7396
BSW	ITA	-271.94	1.037	-9.704	1.191	-6.950	1.044	0.7744
BSW	NLD	1294.28	1.130	37.096	1.046	39.717	1.233	0.7921
BSW	NZL	258.72	1.459	36.119	1.470	13.834	1.702	0.5776
BSW	SVN	-6602.51	57.914	-303.640	2.681	-264.301	2.339	0.7569
BSW	USA	-29.53	0.899	-2.907	0.993	-3.034	1.070	0.7921

 Conversion Factors For SCS Traits. Source: INTERBULL 1404

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	5.212	-0.022	0.8649
BSW	DEA	4.937	-0.019	0.8464
BSW	FRA	3.018	-0.230	0.8464
BSW	GBR	3.026	0.017	0.8464
BSW	ITA	4.825	-0.017	0.8649
BSW	NLD	-2.533	0.053	0.7921
BSW	NZL	3.105	0.505	0.5929
BSW	SVN	4.971	-0.019	0.7569
BSW	USA	-0.034	1.017	0.8100

 Conversion Factors For Type. Source = INTERBULL MACE 1404

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CHE

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
BSW CONFORMATION	CHE FINAL SCORE		-0.568	9.2748	0.71
BSW FEET AND LEGS	CHE OVERALL FEET & LEG		-0.768	6.4658	
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE		0.467	6.5867	
BSW STATURE	CHE STATURE		-3.200	6.7043	
BSW CHEST WIDTH	CHE CHEST WIDTH		3.226	9.2364	
BSW BODY DEPTH	CHE BODY DEPTH		-1.431	7.1660	

BSW PIN WIDTH	CHE RUMP WIDTH	3.535	6.7317
BSW RUMP ANGLE	CHE RUMP ANGLE	0.680	6.4992
BSW FOOT ANGLE	CHE FOOT ANGLE	-1.019	2.5892
BSW HEEL DEPTH	CHE HEEL DEPTH	0.591	6.7988
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	2.051	5.4300
BSW UDDER DEPTH	CHE UDDER DEPTH	0.212	6.3031
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-1.958	7.0603
BSW FORE ATTACHMENT	CHE FORE UDDER	-1.201	1.5378
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-0.215	5.9339
BSW TEAT LENGTH	CHE TEAT LENGTH	-3.315	3.7354
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-0.772	6.7538
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-0.378	7.9875
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-0.920	6.0603
BSW ANGULARITY	CHE ANGULARITY	-5.831	-5.1763

Conversion Factors For Type. Source = INTERBULL MACE 1404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEA

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

BSW CONFORMATION	DEA CONFORMATION	-40.784	0.3681	0.46
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-42.060	0.4093	
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-64.740	0.6189	
BSW STATURE	DEA STATURE	-64.265	0.5997	
BSW CHEST WIDTH	DEA CHEST WIDTH	-61.783	0.6214	
BSW BODY DEPTH	DEA BODY DEPTH	-60.105	0.5813	
BSW PIN WIDTH	DEA RUMP WIDTH	-49.056	0.4831	
BSW RUMP ANGLE	DEA RUMP ANGLE	-50.243	0.5116	
BSW FOOT ANGLE	DEA FOOT ANGLE	-24.011	0.2256	
BSW HEEL DEPTH	DEA HEEL DEPTH	-59.484	0.5837	
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-51.768	0.5181	
BSW UDDER DEPTH	DEA UDDER DEPTH	-51.633	0.4978	
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-63.186	0.6068	
BSW FORE ATTACHMENT	DEA FORE UDDER	-47.085	0.4621	
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-63.650	0.6128	
BSW TEAT LENGTH	DEA TEAT LENGTH	-39.159	0.3877	
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-47.118	0.4352	
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-56.623	0.5440	
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-67.468	0.6412	

Conversion Factors For Type. Source = INTERBULL MACE 1404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=FRA

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

BSW CONFORMATION	FRA OVERALL SCORE	-2.553	6.5575	0.77
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.387	2.0451	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.358	6.4983	
BSW STATURE	FRA STATURE	-2.683	7.4991	
BSW CHEST WIDTH	FRA CHEST DEPTH	0.185	7.3040	
BSW BODY DEPTH	FRA BODY DEPTH	-0.753	6.3514	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.397	5.6199	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.319	6.5926	
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.603	5.6737	
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.393	6.9759	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	0.271	6.6246	
BSW UDDER DEPTH	FRA UDDER DEPTH	-3.022	5.9769	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.673	7.7445	
BSW FORE ATTACHMENT	FRA FORE UDDER	-2.116	4.1643	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-3.114	7.4299	
BSW TEAT LENGTH	FRA TEAT LENGTH	0.186	5.0906	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.292	6.3001	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-0.458	7.5335	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-1.131	7.7847	
BSW ANGULARITY	FRA ANGULARITY	-3.802	8.2239	

Conversion Factors For Type. Source = INTERBULL MACE 1404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

BSW CONFORMATION	GBR CONFORMATION	0.502	3.5509	0.71
BSW FEET AND LEGS	GBR OVERALL FEET & LEG	0.352	2.9709	
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	0.644	4.5170	
BSW STATURE	GBR STATURE	-2.675	7.4320	
BSW CHEST WIDTH	GBR CHEST WIDTH	-0.146	5.6243	
BSW BODY DEPTH	GBR BODY DEPTH	-0.493	4.1252	
BSW PIN WIDTH	GBR RUMP WIDTH	0.328	4.8303	
BSW RUMP ANGLE	GBR RUMP ANGLE	0.222	2.9906	
BSW FOOT ANGLE	GBR FOOT ANGLE	1.510	5.4084	
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-2.996	4.8060	
BSW UDDER DEPTH	GBR UDDER DEPTH	-0.130	3.0254	
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	0.531	2.5333	
BSW FORE ATTACHMENT	GBR FORE UDDER	-1.787	3.9446	

BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	1.000	4.7595
BSW TEAT LENGTH	GBR TEAT LENGTH	-0.564	3.7188
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	0.595	4.0515
BSW ANGULARITY	GBR ANGULARITY	-2.334	8.5312

Conversion Factors For Type. Source = INTERBULL MACE 1404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

BSW CONFORMATION	ITA FINAL SCORE	-66.575	0.5849	0.59
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-33.557	0.3003	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-58.858	0.5257	
BSW STATURE	ITA STATURE	-54.965	0.4940	
BSW CHEST WIDTH	ITA STRENGTH	-42.614	0.4135	
BSW BODY DEPTH	ITA BODY DEPTH	-41.120	0.3829	
BSW RUMP ANGLE	ITA RUMP ANGLE	-37.041	0.3811	
BSW FOOT ANGLE	ITA FOOT ANGLE	-19.524	0.1655	
BSW HEEL DEPTH	ITA HEEL DEPTH	-44.936	0.4230	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-37.878	0.3852	
BSW UDDER DEPTH	ITA UDDER DEPTH	-41.175	0.3834	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-56.403	0.5198	
BSW FORE ATTACHMENT	ITA FORE UDDER	-15.429	0.1317	
BSW TEAT LENGTH	ITA TEAT LENGTH	-33.030	0.3322	
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-50.527	0.4497	
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-56.822	0.5166	
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-49.326	0.4577	

Conversion Factors For Type. Source = INTERBULL MACE 1404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

BSW CONFORMATION	NLD CONFORMATION	-151.610	1.4494	0.58
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-31.128	0.2592	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-144.301	1.4974	

BSW STATURE	NLD STATURE	-138.418	1.3669
BSW CHEST WIDTH	NLD CHEST WIDTH	-189.846	1.8669
BSW BODY DEPTH	NLD BODY DEPTH	-147.989	1.5253
BSW PIN WIDTH	NLD RUMP WIDTH	-156.134	1.7271
BSW RUMP ANGLE	NLD RUMP ANGLE	-142.466	1.4063
BSW FOOT ANGLE	NLD FOOT ANGLE	-64.127	0.5441
BSW HEEL DEPTH	NLD HEEL DEPTH	-163.289	1.4111
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-118.370	1.2699
BSW UDDER DEPTH	NLD UDDER DEPTH	-151.421	1.5198
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-130.229	1.3677
BSW FORE ATTACHMENT	NLD FORE UDDER	-148.770	1.5019
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-155.451	1.5217
BSW TEAT LENGTH	NLD TEAT LENGTH	-95.452	0.9165
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-106.306	1.1559
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-94.026	1.0281
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-159.308	1.6232
BSW ANGULARITY	NLD ANGULARITY	-159.739	1.7012

Conversion Factors For Type. Source = INTERBULL MACE 1404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=SVN

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
BSW CONFORMATION	SVN CONFORMATION	-28.216	0.1858	0.38	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-16.805	0.1274		
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-32.617	0.2254		
BSW STATURE	SVN STATURE	-51.404	0.3911		
BSW CHEST WIDTH	SVN CHEST WIDTH	-29.485	0.3111		
BSW BODY DEPTH	SVN BODY DEPTH	-30.358	0.2522		
BSW RUMP ANGLE	SVN RUMP ANGLE	-26.551	0.2823		
BSW FOOT ANGLE	SVN FOOT ANGLE	-16.257	0.1214		
BSW HEEL DEPTH	SVN HEEL DEPTH	-24.657	0.2138		
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-23.466	0.2553		
BSW UDDER DEPTH	SVN UDDER DEPTH	-32.341	0.2729		
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-36.065	0.2853		
BSW FORE ATTACHMENT	SVN FORE UDDER	-16.279	0.1105		
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-39.967	0.3268		
BSW TEAT LENGTH	SVN TEAT LENGTH	-19.346	0.2076		
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-35.955	0.2691		
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-47.370	0.3759		
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-42.360	0.3447		

Conversion Factors For Type. Source = INTERBULL MACE 1404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)	0.219	11.6609	0.76
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.153	2.4563	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.266	6.3893	
BSW STATURE	USA STATURE	-0.467	4.6789	
BSW CHEST WIDTH	USA STRENGTH	0.704	10.5339	
BSW PIN WIDTH	USA RUMP WIDTH	0.964	9.2622	
BSW RUMP ANGLE	USA RUMP ANGLE	-0.760	5.7483	
BSW FOOT ANGLE	USA FOOT ANGLE	-0.709	8.2937	
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.461	9.2636	
BSW UDDER DEPTH	USA UDDER DEPTH	-0.417	5.1766	
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	0.854	6.5940	
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.176	5.7064	
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.647	5.9552	
BSW TEAT LENGTH	USA TEAT LENGTH	0.482	3.4776	
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.271	5.9879	
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.670	8.2016	
BSW ANGULARITY	USA ANGULARITY	0.394	6.1253	

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2014

BREED	BMILK	BFAT	BPRT
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AYS	7508	307	253
BSW	7991	334	282
CN	6129	263	214
GUE	6716	312	230
JER	6367	316	243
HOL	9854	375	316
MS	6881	250	226

$$\text{EBVFAT\%} = 200 * [(\text{BFAT} + \text{EBVFAT} * 0.5) / (\text{BMILK} + \text{EBVMILK} * 0.5) - (\text{BFAT} / \text{BMILK})]$$
$$\text{EBVPROT\%} = 200 * [(\text{BPRT} + \text{EBVPRT} * 0.5) / (\text{BMILK} + \text{EBVMILK} * 0.5) - (\text{BPRT} / \text{BMILK})]$$

EXAMPLE :

A HOLSTEIN bull has EBV MILK=+1000, EBVFAT=+50, EBVPROT=+40

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(375 + 50 * .5) / (9854 + 1000 * .5) - (375 / 9854)] \\ &= 200 * [(375 + 25) / (9854 + 500) - (0.03806)] \\ &= 200 * [0.03863 - 0.03806] \\ &= 200 * 0.00058 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(316 + 40 * .5) / (9854 + 1000 * .5) - (316 / 9854)] \\ &= 200 * [(316 + 20) / (9854 + 500) - (0.03207)] \end{aligned}$$

$$\begin{aligned} &= 200 * [0.03245 - 0.03207] \\ &= 200 * 0.00038 \\ &= 0.08 \end{aligned}$$