
 Conversion Factors For Production Traits. Source: INTERBULL 1604

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-31.09	1.2337	1.357	1.3267	0.508	1.3782	0.5041
BSW	CHE	-257.10	1.1490	-9.300	1.1730	-7.500	1.2510	0.7225
BSW	DEA	-11.00	1.1940	3.500	1.3420	4.100	1.3550	0.7056
BSW	FRA	72.40	0.8620	2.300	0.8520	3.700	0.8900	0.7056
BSW	GBR	-116.92	2.0869	-2.916	2.3790	-2.569	2.6317	0.7225
BSW	ITA	-163.80	0.9160	-3.400	1.0650	-1.000	0.9120	0.7225
BSW	NLD	1309.79	0.9745	37.273	0.9226	42.574	1.0303	0.7396
BSW	NZL	180.82	1.2193	28.673	1.2381	11.091	1.4516	0.4900
BSW	SVN	-6567.50	56.0900	-281.200	2.4170	-240.400	2.0740	0.6889
BSW	USA	2.60	0.9470	-1.300	1.0050	-0.500	1.1010	0.8100

 Conversion Factors For SCS Traits. Source: INTERBULL 1604

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

breed	country2	a	b	scorr2
BSW	CHE	5.100	-0.0210	0.8464
BSW	DEA	4.800	-0.0180	0.8649
BSW	FRA	3.000	-0.2240	0.8836
BSW	GBR	2.969	0.0172	0.8649
BSW	ITA	4.200	-0.0120	0.8281
BSW	NLD	-2.392	0.0530	0.8281
BSW	NZL	3.168	0.5754	0.7569
BSW	SVN	5.200	-0.0220	0.8100
BSW	USA	-0.100	1.0540	0.8464

 Conversion Factors For Type. Source = INTERBULL MACE 1604

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		-80.036	0.7949	0.74
BSW FEET AND LEGS	CHE OVERALL FEET & LEG		-57.607	0.5657	
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE		-55.093	0.5561	
BSW STATURE	CHE STATURE		-55.435	0.5307	
BSW CHEST WIDTH	CHE CHEST WIDTH		-76.418	0.7897	

BSW BODY DEPTH	CHE BODY DEPTH	-59.884	0.5870
BSW PIN WIDTH	CHE RUMP WIDTH	-58.101	0.6071
BSW RUMP ANGLE	CHE RUMP ANGLE	-54.703	0.5538
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.021	0.3818
BSW HEEL DEPTH	CHE HEEL DEPTH	-55.801	0.5616
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-46.415	0.4761
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.032	0.5242
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-63.176	0.6144
BSW FORE ATTACHMENT	CHE FORE UDDER	-47.164	0.4565
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-48.943	0.4883
BSW TEAT LENGTH	CHE TEAT LENGTH	-39.572	0.3706
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-58.743	0.5824
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-63.578	0.6307
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-47.929	0.4771
BSW ANGULARITY	CHE ANGULARITY	55.030	-0.6082

Conversion Factors For Type. Source = INTERBULL MACE 1604
 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	-58.827	0.5376	0.55	
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-39.711	0.3816		
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-60.994	0.5693		
BSW STATURE	DEA STATURE	-62.395	0.5719		
BSW CHEST WIDTH	DEA CHEST WIDTH	-61.627	0.6153		
BSW BODY DEPTH	DEA BODY DEPTH	-53.560	0.5141		
BSW PIN WIDTH	DEA RUMP WIDTH	-52.806	0.5231		
BSW RUMP ANGLE	DEA RUMP ANGLE	-50.669	0.5175		
BSW FOOT ANGLE	DEA FOOT ANGLE	-38.360	0.3588		
BSW HEEL DEPTH	DEA HEEL DEPTH	-57.083	0.5640		
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-51.222	0.5240		
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.410	0.5018		
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-65.938	0.6197		
BSW FORE ATTACHMENT	DEA FORE UDDER	-48.787	0.4868		
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-63.657	0.6022		
BSW TEAT LENGTH	DEA TEAT LENGTH	-44.392	0.4383		
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-48.331	0.4363		
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-56.219	0.5269		
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-64.503	0.6023		

Conversion Factors For Type. Source = INTERBULL MACE 1604
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 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	-2.630	6.5383	0.71
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.593	2.8570	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.420	6.6461	
BSW STATURE	FRA STATURE	-2.615	7.2561	
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.169	7.7088	
BSW BODY DEPTH	FRA BODY DEPTH	-0.957	5.7879	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.893	6.4733	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.807	6.5342	
BSW FOOT ANGLE	FRA HEEL DEPTH	-1.907	5.8448	
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.566	6.1876	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-0.504	6.3790	
BSW UDDER DEPTH	FRA UDDER DEPTH	-2.608	6.1086	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.256	7.5134	
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.514	4.5627	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.556	7.2307	
BSW TEAT LENGTH	FRA TEAT LENGTH	0.486	5.7161	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.083	6.7712	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-0.764	7.5320	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.886	7.3137	
BSW ANGULARITY	FRA ANGULARITY	-3.567	8.1501	

Conversion Factors For Type. Source = INTERBULL MACE 1604
 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 FEET AND LEGS	GBR OVERALL FEET & LEG	-0.587	3.4804	
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-0.021	4.5593	
BSW STATURE	GBR STATURE	-2.615	7.7932	
BSW CHEST WIDTH	GBR CHEST WIDTH	-0.584	5.7424	
BSW BODY DEPTH	GBR BODY DEPTH	-0.094	4.2178	
BSW PIN WIDTH	GBR RUMP WIDTH	0.034	5.3877	
BSW RUMP ANGLE	GBR RUMP ANGLE	0.612	3.0380	
BSW FOOT ANGLE	GBR FOOT ANGLE	-0.304	6.2069	
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-3.044	5.1084	
BSW UDDER DEPTH	GBR UDDER DEPTH	0.119	3.0950	
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	0.190	2.5562	
BSW FORE ATTACHMENT	GBR FORE UDDER	-2.166	4.6284	

BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.517	5.0159
BSW TEAT LENGTH	GBR TEAT LENGTH	-0.019	3.9354
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-0.115	4.2582
BSW ANGULARITY	GBR ANGULARITY	-1.882	8.8288

Conversion Factors For Type. Source = INTERBULL MACE 1604
 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 t	n t	v	v	c
r r	t r	a	a	o
e a	r a	l	l	r
e i	y i	u	u	r
d t	2 t	e	e	2
BSW CONFORMATION	ITA FINAL SCORE	-76.376	0.6891	0.71
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-32.032	0.2735	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-53.044	0.4658	
BSW STATURE	ITA STATURE	-48.437	0.4366	
BSW CHEST WIDTH	ITA STRENGTH	-31.866	0.3069	
BSW BODY DEPTH	ITA BODY DEPTH	-30.734	0.2902	
BSW RUMP ANGLE	ITA RUMP ANGLE	-25.430	0.2700	
BSW FOOT ANGLE	ITA FOOT ANGLE	-28.041	0.2423	
BSW HEEL DEPTH	ITA HEEL DEPTH	-30.686	0.2775	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-26.357	0.2668	
BSW UDDER DEPTH	ITA UDDER DEPTH	-32.441	0.2906	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-41.949	0.3834	
BSW FORE ATTACHMENT	ITA FORE UDDER	-37.556	0.3443	
BSW TEAT LENGTH	ITA TEAT LENGTH	-27.267	0.2830	
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-48.869	0.4338	
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-48.794	0.4363	
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.306	0.2970	

Conversion Factors For Type. Source = INTERBULL MACE 1604
 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 t	n t	v	v	c
r r	t r	a	a	o
e a	r a	l	l	r
e i	y i	u	u	r
d t	2 t	e	e	2
BSW CONFORMATION	NLD CONFORMATION	-151.274	1.4968	0.61
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-114.268	1.0123	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-142.870	1.5187	

BSW STATURE	NLD STATURE	-139.828	1.3966
BSW CHEST WIDTH	NLD CHEST WIDTH	-180.444	1.7904
BSW BODY DEPTH	NLD BODY DEPTH	-134.815	1.4001
BSW PIN WIDTH	NLD RUMP WIDTH	-149.598	1.6888
BSW RUMP ANGLE	NLD RUMP ANGLE	-140.204	1.3842
BSW FOOT ANGLE	NLD FOOT ANGLE	-119.302	1.0224
BSW HEEL DEPTH	NLD HEEL DEPTH	-133.275	1.1552
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-111.474	1.1755
BSW UDDER DEPTH	NLD UDDER DEPTH	-146.038	1.4945
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-136.511	1.4475
BSW FORE ATTACHMENT	NLD FORE UDDER	-133.325	1.3742
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-141.797	1.3998
BSW TEAT LENGTH	NLD TEAT LENGTH	-113.101	1.0811
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-112.371	1.2430
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-110.054	1.2202
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-147.674	1.5215
BSW ANGULARITY	NLD ANGULARITY	-152.461	1.6044

Conversion Factors For Type. Source = INTERBULL MACE 1604
 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	-35.854	0.2440	0.52	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-23.583	0.1812		
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-34.141	0.2405		
BSW STATURE	SVN STATURE	-47.384	0.3575		
BSW CHEST WIDTH	SVN CHEST WIDTH	-31.996	0.3330		
BSW BODY DEPTH	SVN BODY DEPTH	-23.231	0.2000		
BSW PIN WIDTH	SVN RUMP WIDTH	-25.496	0.2235		
BSW RUMP ANGLE	SVN RUMP ANGLE	-24.456	0.2676		
BSW FOOT ANGLE	SVN FOOT ANGLE	-26.048	0.2100		
BSW HEEL DEPTH	SVN HEEL DEPTH	-21.734	0.1910		
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-24.182	0.2557		
BSW UDDER DEPTH	SVN UDDER DEPTH	-31.017	0.2563		
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-31.309	0.2496		
BSW FORE ATTACHMENT	SVN FORE UDDER	-23.596	0.1667		
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-42.015	0.3410		
BSW TEAT LENGTH	SVN TEAT LENGTH	-23.691	0.2637		
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-40.102	0.3118		
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-43.165	0.3398		
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.571	0.3563		

Conversion Factors For Type. Source = INTERBULL MACE 1604
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

c a n b r e e d	c o u n t r y	f o r r a i t	a v e	b v e	t c o r r e
BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)		2.190	11.8049	0.76
BSW FEET AND LEGS	USA OVERALL FEET & LEG		-0.769	5.5700	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE		1.471	6.7158	
BSW STATURE	USA STATURE		0.466	4.4905	
BSW CHEST WIDTH	USA STRENGTH		0.280	10.0985	
BSW BODY DEPTH	USA BODY DEPTH		0.113	6.5157	
BSW PIN WIDTH	USA RUMP WIDTH		1.572	9.6787	
BSW RUMP ANGLE	USA RUMP ANGLE		-0.964	5.8287	
BSW FOOT ANGLE	USA FOOT ANGLE		-0.636	9.9083	
BSW HEEL DEPTH	USA HEEL DEPTH		0.214	9.8691	
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET		0.700	9.3588	
BSW UDDER DEPTH	USA UDDER DEPTH		0.652	5.3309	
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT		2.080	6.6377	
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT		1.676	5.4821	
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT		0.425	5.6495	
BSW TEAT LENGTH	USA TEAT LENGTH		0.093	3.8810	
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT		1.120	5.8468	
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH		1.358	7.6614	
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT		0.728	5.7166	
BSW ANGULARITY	USA ANGULARITY		1.837	6.5351	

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2016

BREED	BMILK	BFAT	BPRT
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AYS	7595	314	257
BSW	8147	342	288
CN	5832	255	207
GUE	6807	320	235
JER	6440	322	247
HOL	9994	384	320
MS	6402	246	213

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(384 + 50 * .5) / (9994 + 1000 * .5) - (384 / 9994)] \\ &= 200 * [(384 + 25) / (9994 + 500) - (0.03842)] \\ &= 200 * [0.03897 - 0.03842] \\ &= 200 * 0.00055 \end{aligned}$$

$$= 0.11$$

$$\begin{aligned} \text{EBVPRT}\% &= 200 * [(320+40*.5)/(9994+1000*.5)-(320/9994)] \\ &= 200 * [(320+20)/(9994+500)-(0.03202)] \\ &= 200 * [0.03240 - 0.03202] \\ &= 200 * 0.00038 \\ &= 0.08 \end{aligned}$$