
Conversion Factors For Production Traits. Source: INTERBULL 1312

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

Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	CHE	-442.78	1.266	-15.453	1.331	-14.351	1.400	0.7569
BSW	DEA	-42.24	1.258	3.947	1.459	3.775	1.455	0.7396
BSW	FRA	-31.73	0.843	-0.162	0.884	1.963	0.911	0.7569
BSW	GBR	-241.04	2.160	-8.880	2.474	-8.065	2.677	0.7396
BSW	ITA	-271.26	1.049	-8.196	1.199	-5.798	1.050	0.7744
BSW	NLD	1262.95	1.110	37.665	1.042	40.013	1.214	0.7921
BSW	NZL	237.86	1.438	36.420	1.445	13.975	1.681	0.5776
BSW	SVN	-6847.12	59.523	-308.134	2.720	-265.917	2.346	0.7569
BSW	USA	-41.45	0.897	-1.900	1.001	-2.324	1.085	0.7921

Conversion Factors For SCS Traits. Source: INTERBULL 1312

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

Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	5.188	-0.022	0.8649
BSW	DEA	4.899	-0.019	0.8464
BSW	FRA	2.983	-0.234	0.8464
BSW	GBR	3.008	0.017	0.8464
BSW	ITA	4.801	-0.017	0.8649
BSW	NLD	-2.359	0.051	0.7921
BSW	NZL	3.072	0.497	0.5929
BSW	SVN	4.897	-0.019	0.7569
BSW	USA	0.032	0.989	0.8100

Conversion Factors For Type. Source = INTERBULL MACE 1312

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		-0.749	9.1414	0.71
BSW FEET AND LEGS	CHE OVERALL FEET & LEG		-0.268	6.4438	
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE		0.230	6.7098	
BSW STATURE	CHE STATURE		-3.337	6.6405	
BSW CHEST WIDTH	CHE CHEST WIDTH		3.434	9.0430	
BSW BODY DEPTH	CHE BODY DEPTH		-1.426	7.0189	

BSW PIN WIDTH	CHE RUMP WIDTH	3.659	6.8701
BSW RUMP ANGLE	CHE RUMP ANGLE	0.830	6.4211
BSW FOOT ANGLE	CHE FOOT ANGLE	-0.958	2.6181
BSW HEEL DEPTH	CHE HEEL DEPTH	0.604	6.6471
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	1.924	5.5053
BSW UDDER DEPTH	CHE UDDER DEPTH	-0.198	6.2663
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-2.131	6.8980
BSW FORE ATTACHMENT	CHE FORE UDDER	-0.432	-0.2017
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-0.332	5.9664
BSW TEAT LENGTH	CHE TEAT LENGTH	-2.994	3.7190
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-0.776	6.6135
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-0.678	7.9245
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-1.315	6.3129
BSW ANGULARITY	CHE ANGULARITY	-5.277	-4.5312

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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	-39.178	0.3555	0.44
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-42.500	0.4232	
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-64.611	0.6207	
BSW STATURE	DEA STATURE	-63.624	0.5976	
BSW CHEST WIDTH	DEA CHEST WIDTH	-59.275	0.5981	
BSW BODY DEPTH	DEA BODY DEPTH	-59.939	0.5789	
BSW PIN WIDTH	DEA RUMP WIDTH	-49.849	0.4922	
BSW RUMP ANGLE	DEA RUMP ANGLE	-49.974	0.5105	
BSW FOOT ANGLE	DEA FOOT ANGLE	-25.327	0.2360	
BSW HEEL DEPTH	DEA HEEL DEPTH	-64.594	0.6323	
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-52.876	0.5252	
BSW UDDER DEPTH	DEA UDDER DEPTH	-51.411	0.4958	
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-62.896	0.6031	
BSW FORE ATTACHMENT	DEA FORE UDDER	-54.119	0.5392	
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-64.640	0.6245	
BSW TEAT LENGTH	DEA TEAT LENGTH	-40.238	0.4038	
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-46.285	0.4288	
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-56.547	0.5444	
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-70.553	0.6730	

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=FRA

c a n b t r r e a e i d t	c f o o u r n t t r r a y i 2 t	a v a l u e	b v a l u e	t c o r r e c t
BSW CONFORMATION	FRA OVERALL SCORE	-2.462	6.7525	0.83
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-0.555	1.7340	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.240	6.8283	
BSW STATURE	FRA STATURE	-2.827	7.5083	
BSW CHEST WIDTH	FRA CHEST DEPTH	0.053	7.2761	
BSW BODY DEPTH	FRA BODY DEPTH	-1.109	6.6218	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.376	5.4137	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.439	6.6116	
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.266	5.5482	
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.075	7.0662	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-0.130	6.9054	
BSW UDDER DEPTH	FRA UDDER DEPTH	-2.840	5.9245	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-1.124	7.7985	
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.766	4.3553	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.936	7.5889	
BSW TEAT LENGTH	FRA TEAT LENGTH	0.507	5.2888	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.228	6.3356	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.245	7.5597	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-1.492	8.2346	
BSW ANGULARITY	FRA ANGULARITY	-4.036	8.0693	

Conversion Factors For Type. Source = INTERBULL MACE 1312
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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

c a n b t r r e a e i d t	c f o o u r n t t r r a y i 2 t	a v a l u e	b v a l u e	t c o r r e c t
BSW CONFORMATION	ITA FINAL SCORE	-64.280	0.5678	0.58
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-27.710	0.2586	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-58.120	0.5211	
BSW STATURE	ITA STATURE	-54.427	0.4910	
BSW CHEST WIDTH	ITA STRENGTH	-41.001	0.3991	
BSW BODY DEPTH	ITA BODY DEPTH	-40.965	0.3803	
BSW RUMP ANGLE	ITA RUMP ANGLE	-36.840	0.3789	
BSW FOOT ANGLE	ITA FOOT ANGLE	-24.532	0.2212	
BSW HEEL DEPTH	ITA HEEL DEPTH	-44.838	0.4252	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-39.301	0.3992	
BSW UDDER DEPTH	ITA UDDER DEPTH	-40.428	0.3762	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-56.868	0.5236	
BSW FORE ATTACHMENT	ITA FORE UDDER	-5.242	0.0415	

BSW TEAT LENGTH	ITA TEAT LENGTH	-32.910	0.3338
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-47.524	0.4256
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-58.780	0.5344
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-51.691	0.4805

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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	-138.344	1.3283	0.55
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	13.670	-0.1303	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-144.383	1.5068	
BSW STATURE	NLD STATURE	-139.291	1.3788	
BSW CHEST WIDTH	NLD CHEST WIDTH	-210.162	2.0642	
BSW BODY DEPTH	NLD BODY DEPTH	-150.677	1.5536	
BSW PIN WIDTH	NLD RUMP WIDTH	-166.339	1.8404	
BSW RUMP ANGLE	NLD RUMP ANGLE	-149.126	1.4700	
BSW FOOT ANGLE	NLD FOOT ANGLE	-61.693	0.5225	
BSW HEEL DEPTH	NLD HEEL DEPTH	-173.732	1.5075	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-129.278	1.3849	
BSW UDDER DEPTH	NLD UDDER DEPTH	-149.013	1.4970	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-130.417	1.3719	
BSW FORE ATTACHMENT	NLD FORE UDDER	-165.846	1.6787	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-152.264	1.4943	
BSW TEAT LENGTH	NLD TEAT LENGTH	-92.889	0.8943	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-102.256	1.1183	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-84.492	0.9248	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-155.224	1.5875	
BSW ANGULARITY	NLD ANGULARITY	-125.520	1.3454	

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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	-28.979	0.1995	0.38
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-16.722	0.1442	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-30.986	0.2128	
BSW STATURE	SVN STATURE	-51.421	0.3939	
BSW CHEST WIDTH	SVN CHEST WIDTH	-27.688	0.2964	
BSW BODY DEPTH	SVN BODY DEPTH	-28.460	0.2358	
BSW RUMP ANGLE	SVN RUMP ANGLE	-28.030	0.2962	
BSW FOOT ANGLE	SVN FOOT ANGLE	-14.917	0.1128	
BSW HEEL DEPTH	SVN HEEL DEPTH	-26.503	0.2323	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-24.790	0.2673	
BSW UDDER DEPTH	SVN UDDER DEPTH	-32.864	0.2793	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-35.381	0.2766	
BSW FORE ATTACHMENT	SVN FORE UDDER	-16.182	0.1234	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-39.984	0.3278	
BSW TEAT LENGTH	SVN TEAT LENGTH	-16.987	0.1892	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-33.173	0.2502	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-43.975	0.3454	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.381	0.3520	

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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)	0.509	11.6746	0.77
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.125	1.3120	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.529	6.5793	
BSW STATURE	USA STATURE	-0.331	4.6367	
BSW CHEST WIDTH	USA STRENGTH	0.859	10.2958	
BSW PIN WIDTH	USA RUMP WIDTH	0.981	9.3371	
BSW RUMP ANGLE	USA RUMP ANGLE	-0.592	5.6826	
BSW FOOT ANGLE	USA FOOT ANGLE	-0.754	8.6981	
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.195	9.3384	
BSW UDDER DEPTH	USA UDDER DEPTH	-0.376	5.0301	
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.038	6.6430	
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.450	5.8675	
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.439	5.9943	
BSW TEAT LENGTH	USA TEAT LENGTH	0.463	3.5463	
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.436	5.5932	
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.805	8.1630	
BSW ANGULARITY	USA ANGULARITY	0.651	6.1483	

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2013

BREED	BMILK	BFAT	BPRT
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AYS	7444	304	251
BSW	8070	334	283
CN	5778	247	202
GUE	6906	297	232
JER	6289	311	240
HOL	9756	369	313
MS	6706	250	228

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(369 + 50 * .5) / (9756 + 1000 * .5) - (369 / 9756)] \\ &= 200 * [(369 + 25) / (9756 + 500) - (0.03782)] \\ &= 200 * [0.03842 - 0.03782] \\ &= 200 * 0.00059 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(313 + 40 * .5) / (9756 + 1000 * .5) - (313 / 9756)] \\ &= 200 * [(313 + 20) / (9756 + 500) - (0.03208)] \\ &= 200 * [0.03247 - 0.03208] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$