
Conversion Factors For Production Traits. Source: INTERBULL 1104

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	CHE	-420.51	1.2513	-13.0300	1.2799	-13.3106	1.4087	0.7744
BSW	DEU	-196.26	1.2460	0.3846	1.3767	-0.3971	1.4122	0.7569
BSW	FRA	-81.77	0.8684	-0.1733	0.8860	1.8850	0.9764	0.7744
BSW	GBR	-205.01	2.3356	-4.5579	2.5093	-4.9742	2.7452	0.7569
BSW	ITA	-276.62	1.1864	-5.7889	1.2645	-4.2660	1.2021	0.8100
BSW	NLD	1390.17	1.1336	45.4474	1.1087	46.8793	1.2610	0.7921
BSW	NZL	142.94	1.3249	33.8997	1.3659	11.4224	1.5075	0.5776
BSW	SVN	-813.82	4.0968	-32.0978	4.4007	-29.4808	4.6960	0.7569
BSW	USA	-35.89	0.8331	-0.0656	0.9107	-0.0729	0.9747	0.7921

Conversion Factors For SCS Traits. Source: INTERBULL 1104

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

breed	country2	a	b	scorr2
BSW	CHE	5.1389	-0.0222	0.8464
BSW	DEU	4.8477	-0.0191	0.8281
BSW	FRA	2.9183	-0.2356	0.8281
BSW	GBR	2.9657	0.0178	0.8281
BSW	ITA	4.7096	-0.0169	0.8464
BSW	NLD	8.2007	-0.0515	0.8100
BSW	NZL	3.0678	0.4988	0.6241
BSW	USA	-0.0920	1.0150	0.8100

Conversion Factors For Type. Source = INTERBULL MACE 1104

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

country2=CHE

c	c	f				
a		o				
n		u	r	a	b	
b	t	n	t	v	v	
r	r	t	r	a	a	
e	a	r	a	l	l	
e	i	y	i	u	u	
d	t	2	t	e	e	
BSW CONFORMATION		CHE FINAL SCORE		-0.341	8.975	0.74
BSW FEET AND LEGS		CHE OVERALL FEET & LEG		-0.897	5.158	
BSW MAMMARY SYSTEM		CHE OVERALL UDDER SCORE		0.228	6.621	
BSW STATURE		CHE STATURE		-3.082	5.855	
BSW CHEST WIDTH		CHE CHEST WIDTH		3.467	7.522	
BSW BODY DEPTH		CHE BODY DEPTH		-0.167	5.483	
BSW PIN WIDTH		CHE RUMP WIDTH		3.665	5.811	

BSW RUMP ANGLE	CHE RUMP ANGLE	0.150	5.359
BSW FOOT ANGLE	CHE FOOT ANGLE	-0.368	1.425
BSW HEEL DEPTH	CHE HEEL DEPTH	0.908	7.467
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	2.419	6.270
BSW UDDER DEPTH	CHE UDDER DEPTH	-0.327	5.015
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-1.430	6.340
BSW FORE ATTACHMENT	CHE FORE UDDER	2.063	-2.626
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-0.771	6.049
BSW TEAT LENGTH	CHE TEAT LENGTH	-2.061	3.803
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-0.250	6.498
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-0.713	7.850
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-2.138	5.832
BSW ANGULARITY	CHE ANGULARITY	-2.562	-2.818

Conversion Factors For Type. Source = INTERBULL MACE 1104
 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	-41.566	0.404	0.62
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-30.008	0.296	
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-61.907	0.607	
BSW STATURE	DEA STATURE	-61.488	0.580	
BSW CHEST WIDTH	DEA CHEST WIDTH	-52.221	0.534	
BSW BODY DEPTH	DEA BODY DEPTH	-52.668	0.523	
BSW PIN WIDTH	DEA RUMP WIDTH	-49.029	0.489	
BSW RUMP ANGLE	DEA RUMP ANGLE	-50.905	0.512	
BSW FOOT ANGLE	DEA FOOT ANGLE	-13.966	0.130	
BSW HEEL DEPTH	DEA HEEL DEPTH	-66.419	0.664	
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-52.536	0.531	
BSW UDDER DEPTH	DEA UDDER DEPTH	-50.971	0.500	
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-57.534	0.557	
BSW FORE ATTACHMENT	DEA FORE UDDER	-35.145	0.369	
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-63.205	0.621	
BSW TEAT LENGTH	DEA TEAT LENGTH	-39.171	0.391	
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-47.245	0.460	
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-59.395	0.577	
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-64.996	0.616	

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=FRA

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

BSW CONFORMATION	FRA OVERALL SCORE	-2.008	8.535	0.88
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.405	0.135	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-1.724	7.159	
BSW STATURE	FRA STATURE	-2.807	6.605	
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.179	4.833	
BSW BODY DEPTH	FRA BODY DEPTH	-1.135	6.131	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.371	5.512	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.285	6.344	
BSW FOOT ANGLE	FRA HEEL DEPTH	0.049	5.218	
BSW HEEL DEPTH	FRA HEEL DEPTH	0.421	9.328	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-0.093	6.505	
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.693	6.686	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.677	6.173	
BSW FORE ATTACHMENT	FRA FORE UDDER	1.567	2.859	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.618	7.468	
BSW TEAT LENGTH	FRA TEAT LENGTH	1.292	5.027	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-0.812	6.828	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.773	7.899	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-2.685	7.717	
BSW ANGULARITY	FRA ANGULARITY	-3.006	6.718	

Conversion Factors For Type. Source = INTERBULL MACE 1104
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

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

BSW CONFORMATION	ITA FINAL SCORE	-60.889	0.548	0.61
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-23.695	0.218	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-51.988	0.474	
BSW STATURE	ITA STATURE	-50.506	0.455	
BSW CHEST WIDTH	ITA STRENGTH	-30.382	0.301	
BSW BODY DEPTH	ITA BODY DEPTH	-32.767	0.311	
BSW RUMP ANGLE	ITA RUMP ANGLE	-38.558	0.393	
BSW FOOT ANGLE	ITA FOOT ANGLE	-33.655	0.316	
BSW HEEL DEPTH	ITA HEEL DEPTH	-51.874	0.498	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-36.320	0.372	
BSW UDDER DEPTH	ITA UDDER DEPTH	-39.803	0.377	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-50.978	0.473	
BSW FORE ATTACHMENT	ITA FORE UDDER	8.047	-0.063	
BSW TEAT LENGTH	ITA TEAT LENGTH	-31.998	0.329	

BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-50.706	0.462
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-59.572	0.543
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-48.408	0.446

Conversion Factors For Type. Source = INTERBULL MACE 1104
 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	-147.520	1.436	0.59
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	84.553	-0.756	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-156.324	1.659	
BSW STATURE	NLD STATURE	-122.857	1.213	
BSW CHEST WIDTH	NLD CHEST WIDTH	-159.082	1.575	
BSW BODY DEPTH	NLD BODY DEPTH	-119.006	1.228	
BSW PIN WIDTH	NLD RUMP WIDTH	-174.418	1.932	
BSW RUMP ANGLE	NLD RUMP ANGLE	-138.255	1.363	
BSW FOOT ANGLE	NLD FOOT ANGLE	-70.184	0.605	
BSW HEEL DEPTH	NLD HEEL DEPTH	-188.245	1.635	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-127.845	1.372	
BSW UDDER DEPTH	NLD UDDER DEPTH	-144.110	1.455	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-132.206	1.398	
BSW FORE ATTACHMENT	NLD FORE UDDER	-154.604	1.578	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-186.757	1.845	
BSW TEAT LENGTH	NLD TEAT LENGTH	-84.443	0.813	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-119.773	1.320	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-111.405	1.220	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-200.318	2.052	
BSW ANGULARITY	NLD ANGULARITY	-106.372	1.154	

Conversion Factors For Type. Source = INTERBULL MACE 1104
 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)	1.804	10.720	0.74
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BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.505	0.726
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	2.016	6.226
BSW STATURE	USA STATURE	-0.003	4.476
BSW CHEST WIDTH	USA STRENGTH	1.070	8.338
BSW PIN WIDTH	USA RUMP WIDTH	0.676	8.499
BSW RUMP ANGLE	USA RUMP ANGLE	-0.941	5.775
BSW FOOT ANGLE	USA FOOT ANGLE	-0.552	8.958
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.722	8.641
BSW UDDER DEPTH	USA UDDER DEPTH	0.566	5.307
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.139	5.119
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	1.872	5.321
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.026	6.085
BSW TEAT LENGTH	USA TEAT LENGTH	0.815	3.622
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	1.581	6.412
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	1.317	8.089
BSW ANGULARITY	USA ANGULARITY	1.252	5.673

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2011

BREED	BMILK	BFAT	BPRT
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AYS	7320	295	246
BSW	7988	326	278
CN	5285	227	188
GUE	6709	303	231
JER	6256	305	239
HOL	9606	359	308
MS	6506	230	215

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

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

EXAMPLE :

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(359 + 50 * .5) / (9606 + 1000 * .5) - (359 / 9606)] \\
 &= 200 * [(359 + 25) / (9606 + 500) - (0.03737)] \\
 &= 200 * [0.03800 - 0.03737] \\
 &= 200 * 0.00062 \\
 &= 0.12
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(308 + 40 * .5) / (9606 + 1000 * .5) - (308 / 9606)] \\
 &= 200 * [(308 + 20) / (9606 + 500) - (0.03206)] \\
 &= 200 * [0.03246 - 0.03206] \\
 &= 200 * 0.00039 \\
 &= 0.08
 \end{aligned}$$