
Conversion Factors For Production Traits. Source: INTERBULL 1108

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	CHE	-425.84	1.2435	-13.3990	1.2662	-13.6553	1.4031	0.7744
BSW	DEU	-180.36	1.2481	0.8711	1.3802	0.3357	1.4132	0.7569
BSW	FRA	-73.42	0.8673	-0.2608	0.9041	1.9442	0.9836	0.7744
BSW	GBR	-232.57	2.3388	-6.3161	2.5197	-6.7305	2.7570	0.7569
BSW	ITA	-278.34	1.1881	-6.0784	1.2689	-4.4506	1.1979	0.8100
BSW	NLD	1373.33	1.1273	45.4219	1.1181	46.6090	1.2657	0.7921
BSW	NZL	147.49	1.3374	34.3375	1.3837	11.5074	1.5245	0.5776
BSW	SVN	-804.63	4.0840	-31.1640	4.3189	-29.3185	4.7420	0.7569
BSW	USA	-44.97	0.8405	-0.2551	0.9156	-0.2498	0.9837	0.7921

Conversion Factors For SCS Traits. Source: INTERBULL 1108

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

breed	country2	a	b	scorr2
BSW	CHE	5.1088	-0.0219	0.8464
BSW	DEU	4.8076	-0.0187	0.8281
BSW	FRA	2.9184	-0.2325	0.8281
BSW	GBR	2.9705	0.0174	0.8281
BSW	ITA	4.7051	-0.0169	0.8464
BSW	NLD	8.1231	-0.0507	0.8100
BSW	NZL	3.0609	0.4902	0.6241
BSW	USA	0.0041	0.9839	0.8100

Conversion Factors For Type. Source = INTERBULL MACE 1108

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		-0.504	8.839	0.74
BSW FEET AND LEGS		CHE OVERALL FEET & LEG		-0.747	4.999	
BSW MAMMARY SYSTEM		CHE OVERALL UDDER SCORE		-0.011	6.530	
BSW STATURE		CHE STATURE		-3.234	5.832	
BSW CHEST WIDTH		CHE CHEST WIDTH		3.314	7.550	
BSW BODY DEPTH		CHE BODY DEPTH		-0.206	5.545	
BSW PIN WIDTH		CHE RUMP WIDTH		3.521	5.772	

BSW RUMP ANGLE	CHE RUMP ANGLE	0.149	5.326
BSW FOOT ANGLE	CHE FOOT ANGLE	-0.298	1.450
BSW HEEL DEPTH	CHE HEEL DEPTH	0.652	7.402
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	2.406	6.210
BSW UDDER DEPTH	CHE UDDER DEPTH	-0.393	4.959
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-1.484	6.161
BSW FORE ATTACHMENT	CHE FORE UDDER	1.873	-2.629
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-0.715	6.099
BSW TEAT LENGTH	CHE TEAT LENGTH	-2.022	3.661
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-0.319	6.484
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-0.691	7.678
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-2.043	5.703
BSW ANGULARITY	CHE ANGULARITY	-2.435	-2.739

Conversion Factors For Type. Source = INTERBULL MACE 1108
 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	-40.179	0.384	0.62
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-29.244	0.290	
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-60.996	0.593	
BSW STATURE	DEA STATURE	-61.069	0.574	
BSW CHEST WIDTH	DEA CHEST WIDTH	-52.148	0.531	
BSW BODY DEPTH	DEA BODY DEPTH	-53.072	0.524	
BSW PIN WIDTH	DEA RUMP WIDTH	-49.076	0.485	
BSW RUMP ANGLE	DEA RUMP ANGLE	-51.542	0.515	
BSW FOOT ANGLE	DEA FOOT ANGLE	-13.200	0.124	
BSW HEEL DEPTH	DEA HEEL DEPTH	-65.654	0.652	
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-52.055	0.528	
BSW UDDER DEPTH	DEA UDDER DEPTH	-50.839	0.498	
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-55.769	0.538	
BSW FORE ATTACHMENT	DEA FORE UDDER	-36.783	0.382	
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-63.751	0.625	
BSW TEAT LENGTH	DEA TEAT LENGTH	-38.304	0.381	
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-47.209	0.456	
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-59.534	0.576	
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-63.706	0.601	

Conversion Factors For Type. Source = INTERBULL MACE 1108
 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
b	n	t	v	v
r	t	r	a	a
e	r	a	l	l
e	y	i	u	u
d	2	t	e	e

BSW CONFORMATION	FRA OVERALL SCORE	-2.016	8.104	0.88
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-0.802	0.175	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.045	6.593	
BSW STATURE	FRA STATURE	-2.840	6.594	
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.294	5.104	
BSW BODY DEPTH	FRA BODY DEPTH	-1.129	6.083	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.511	5.613	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.318	6.364	
BSW FOOT ANGLE	FRA HEEL DEPTH	0.009	5.160	
BSW HEEL DEPTH	FRA HEEL DEPTH	0.180	9.016	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-0.049	6.541	
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.781	6.387	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.956	6.148	
BSW FORE ATTACHMENT	FRA FORE UDDER	1.245	1.660	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.624	7.419	
BSW TEAT LENGTH	FRA TEAT LENGTH	1.086	4.887	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-0.917	6.763	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.794	7.904	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-2.722	7.485	
BSW ANGULARITY	FRA ANGULARITY	-3.037	6.776	

Conversion Factors For Type. Source = INTERBULL MACE 1108
 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
b	n	t	v	v
r	t	r	a	a
e	r	a	l	l
e	y	i	u	u
d	2	t	e	e

BSW CONFORMATION	ITA FINAL SCORE	-60.323	0.542	0.61
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-22.906	0.212	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-52.265	0.474	
BSW STATURE	ITA STATURE	-50.285	0.453	
BSW CHEST WIDTH	ITA STRENGTH	-30.221	0.299	
BSW BODY DEPTH	ITA BODY DEPTH	-33.065	0.313	
BSW RUMP ANGLE	ITA RUMP ANGLE	-38.455	0.391	
BSW FOOT ANGLE	ITA FOOT ANGLE	-32.272	0.304	
BSW HEEL DEPTH	ITA HEEL DEPTH	-51.639	0.492	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-35.830	0.367	
BSW UDDER DEPTH	ITA UDDER DEPTH	-39.839	0.376	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-49.572	0.459	
BSW FORE ATTACHMENT	ITA FORE UDDER	8.724	-0.073	
BSW TEAT LENGTH	ITA TEAT LENGTH	-31.504	0.322	

BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-50.804	0.462
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-58.868	0.537
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-47.619	0.440

Conversion Factors For Type. Source = INTERBULL MACE 1108
 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	-141.650	1.375	0.59
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	81.050	-0.723	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-151.557	1.605	
BSW STATURE	NLD STATURE	-121.750	1.201	
BSW CHEST WIDTH	NLD CHEST WIDTH	-160.438	1.588	
BSW BODY DEPTH	NLD BODY DEPTH	-119.465	1.229	
BSW PIN WIDTH	NLD RUMP WIDTH	-173.618	1.924	
BSW RUMP ANGLE	NLD RUMP ANGLE	-137.694	1.358	
BSW FOOT ANGLE	NLD FOOT ANGLE	-67.122	0.580	
BSW HEEL DEPTH	NLD HEEL DEPTH	-182.275	1.588	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-125.529	1.347	
BSW UDDER DEPTH	NLD UDDER DEPTH	-141.356	1.426	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-128.233	1.354	
BSW FORE ATTACHMENT	NLD FORE UDDER	-155.356	1.586	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-188.447	1.860	
BSW TEAT LENGTH	NLD TEAT LENGTH	-82.413	0.791	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-118.459	1.302	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-110.084	1.204	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-195.110	2.000	
BSW ANGULARITY	NLD ANGULARITY	-107.529	1.167	

Conversion Factors For Type. Source = INTERBULL MACE 1108
 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)	1.601	10.644	0.74
------------------	----------------------------	-------	--------	------

BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.212	0.710
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	1.732	6.574
BSW STATURE	USA STATURE	-0.118	4.463
BSW CHEST WIDTH	USA STRENGTH	1.016	8.111
BSW PIN WIDTH	USA RUMP WIDTH	0.542	8.514
BSW RUMP ANGLE	USA RUMP ANGLE	-0.991	5.855
BSW FOOT ANGLE	USA FOOT ANGLE	-0.276	8.861
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.656	8.482
BSW UDDER DEPTH	USA UDDER DEPTH	0.491	5.359
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.083	5.140
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	1.688	5.543
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	0.060	6.129
BSW TEAT LENGTH	USA TEAT LENGTH	0.509	3.529
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	1.507	6.418
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	1.270	7.927
BSW ANGULARITY	USA ANGULARITY	1.199	5.770

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2011

BREED	BMILK	BFAT	BPRT
-----	-----	-----	-----
AYS	7318	295	246
BSW	8019	328	279
CN	5308	229	189
GUE	6943	311	237
JER	6274	307	240
HOL	9607	359	308
MS	6366	226	209

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(359 + 50 * .5) / (9607 + 1000 * .5) - (359 / 9607)] \\ &= 200 * [(359 + 25) / (9607 + 500) - (0.03737)] \\ &= 200 * [0.03799 - 0.03737] \\ &= 200 * 0.00062 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(308 + 40 * .5) / (9607 + 1000 * .5) - (308 / 9607)] \\ &= 200 * [(308 + 20) / (9607 + 500) - (0.03206)] \\ &= 200 * [0.03245 - 0.03206] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$