
 Conversion Factors For Production Traits. Source: INTERBULL 1212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	CHE	-483.07	1.287	-16.337	1.324	-14.981	1.402	0.7744
BSW	DEA	-98.99	1.275	2.293	1.451	2.305	1.445	0.7569
BSW	FRA	-79.09	0.834	-1.266	0.863	1.065	0.902	0.7744
BSW	GBR	-265.75	2.144	-8.409	2.422	-7.308	2.603	0.7396
BSW	ITA	-272.86	1.092	-7.562	1.214	-4.971	1.086	0.7921
BSW	NLD	1453.15	1.234	42.653	1.131	45.872	1.338	0.7921
BSW	NZL	196.69	1.380	36.596	1.441	13.459	1.619	0.5776
BSW	SVN	-1011.95	4.475	-38.733	4.901	-36.143	5.227	0.7569
BSW	USA	-37.51	0.884	-1.139	0.972	-1.271	1.053	0.7921

 Conversion Factors For SCS Traits. Source: INTERBULL 1212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	5.162	-0.022	0.8464
BSW	DEA	4.894	-0.019	0.8464
BSW	FRA	2.952	-0.237	0.8464
BSW	GBR	2.984	0.017	0.8464
BSW	ITA	4.770	-0.017	0.8649
BSW	NLD	-2.453	0.052	0.7921
BSW	NZL	3.055	0.503	0.5929
BSW	USA	0.009	0.991	0.8100

 Conversion Factors For Type. Source = INTERBULL MACE 1212
 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		-1.200	9.4338	0.71
BSW FEET AND LEGS		CHE OVERALL FEET & LEG		-0.242	5.2527	
BSW MAMMARY SYSTEM		CHE OVERALL UDDER SCORE		-0.010	6.7325	
BSW STATURE		CHE STATURE		-3.488	6.3938	
BSW CHEST WIDTH		CHE CHEST WIDTH		3.343	8.5474	
BSW BODY DEPTH		CHE BODY DEPTH		-1.354	7.8384	
BSW PIN WIDTH		CHE RUMP WIDTH		3.745	6.8389	

BSW RUMP ANGLE	CHE RUMP ANGLE	0.859	6.3565
BSW FOOT ANGLE	CHE FOOT ANGLE	-1.002	2.8764
BSW HEEL DEPTH	CHE HEEL DEPTH	0.630	6.9592
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	1.595	5.2638
BSW UDDER DEPTH	CHE UDDER DEPTH	-0.705	6.1618
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-2.036	6.8817
BSW FORE ATTACHMENT	CHE FORE UDDER	0.145	-1.4006
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-0.711	5.9784
BSW TEAT LENGTH	CHE TEAT LENGTH	-2.894	3.8255
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-0.932	6.3135
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-1.029	7.7742
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-2.146	6.4896
BSW ANGULARITY	CHE ANGULARITY	-4.674	-4.3663

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 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	-39.246	0.3584	0.45
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-33.011	0.3269	
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-61.672	0.5938	
BSW STATURE	DEA STATURE	-60.888	0.5711	
BSW CHEST WIDTH	DEA CHEST WIDTH	-51.631	0.5275	
BSW BODY DEPTH	DEA BODY DEPTH	-63.633	0.6128	
BSW PIN WIDTH	DEA RUMP WIDTH	-49.852	0.4952	
BSW RUMP ANGLE	DEA RUMP ANGLE	-49.720	0.5049	
BSW FOOT ANGLE	DEA FOOT ANGLE	-22.326	0.2082	
BSW HEEL DEPTH	DEA HEEL DEPTH	-62.366	0.6176	
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-51.251	0.5114	
BSW UDDER DEPTH	DEA UDDER DEPTH	-49.775	0.4796	
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-61.978	0.5916	
BSW FORE ATTACHMENT	DEA FORE UDDER	-46.986	0.4759	
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-64.685	0.6267	
BSW TEAT LENGTH	DEA TEAT LENGTH	-39.983	0.3952	
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-44.448	0.4185	
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-56.441	0.5425	
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-73.840	0.7012	

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=FRA

c	c	f
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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	-2.766	7.1175	0.83
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-0.605	1.4105	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.314	6.3706	
BSW STATURE	FRA STATURE	-2.867	7.0651	
BSW CHEST WIDTH	FRA CHEST DEPTH	0.063	6.8380	
BSW BODY DEPTH	FRA BODY DEPTH	-1.402	6.8579	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.551	5.2743	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.668	6.4974	
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.250	5.3440	
BSW HEEL DEPTH	FRA HEEL DEPTH	0.037	7.3425	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-0.353	6.6960	
BSW UDDER DEPTH	FRA UDDER DEPTH	-2.876	5.8196	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-1.447	7.5950	
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.412	3.3788	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.935	7.9960	
BSW TEAT LENGTH	FRA TEAT LENGTH	0.458	5.4301	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.288	6.4456	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-2.097	7.6272	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-2.710	8.3610	
BSW ANGULARITY	FRA ANGULARITY	-3.537	7.1733	

Conversion Factors For Type. Source = INTERBULL MACE 1212
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 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	-63.954	0.5668	0.58
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-28.288	0.2713	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-53.605	0.4812	
BSW STATURE	ITA STATURE	-52.503	0.4731	
BSW CHEST WIDTH	ITA STRENGTH	-33.761	0.3295	
BSW BODY DEPTH	ITA BODY DEPTH	-44.787	0.4143	
BSW RUMP ANGLE	ITA RUMP ANGLE	-37.105	0.3814	
BSW FOOT ANGLE	ITA FOOT ANGLE	-30.980	0.2884	
BSW HEEL DEPTH	ITA HEEL DEPTH	-45.930	0.4416	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-38.304	0.3886	
BSW UDDER DEPTH	ITA UDDER DEPTH	-37.311	0.3446	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-56.509	0.5207	
BSW FORE ATTACHMENT	ITA FORE UDDER	3.600	-0.0386	
BSW TEAT LENGTH	ITA TEAT LENGTH	-33.059	0.3312	

BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-43.075	0.3889
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-56.849	0.5154
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-53.649	0.4948

Conversion Factors For Type. Source = INTERBULL MACE 1212
 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	-140.261	1.3525	0.53
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	72.212	-0.6475	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-146.872	1.5385	
BSW STATURE	NLD STATURE	-133.002	1.3164	
BSW CHEST WIDTH	NLD CHEST WIDTH	-215.587	2.1245	
BSW BODY DEPTH	NLD BODY DEPTH	-162.404	1.6669	
BSW PIN WIDTH	NLD RUMP WIDTH	-165.555	1.8330	
BSW RUMP ANGLE	NLD RUMP ANGLE	-147.613	1.4555	
BSW FOOT ANGLE	NLD FOOT ANGLE	-76.385	0.6557	
BSW HEEL DEPTH	NLD HEEL DEPTH	-179.714	1.5710	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-129.885	1.3876	
BSW UDDER DEPTH	NLD UDDER DEPTH	-143.526	1.4398	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-131.237	1.3812	
BSW FORE ATTACHMENT	NLD FORE UDDER	-164.503	1.6686	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-161.075	1.5850	
BSW TEAT LENGTH	NLD TEAT LENGTH	-87.287	0.8365	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-105.570	1.1563	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-79.576	0.8659	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-164.875	1.6831	
BSW ANGULARITY	NLD ANGULARITY	-127.959	1.3678	

Conversion Factors For Type. Source = INTERBULL MACE 1212
 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 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	USA PTA TYPE (FINAL SCORE)	1.212	11.4956	0.77

BSW FEET AND LEGS	USA OVERALL FEET & LEG	0.033	0.5235
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	1.017	6.5398
BSW STATURE	USA STATURE	-0.231	4.4564
BSW CHEST WIDTH	USA STRENGTH	0.954	9.3940
BSW PIN WIDTH	USA RUMP WIDTH	1.141	9.2692
BSW RUMP ANGLE	USA RUMP ANGLE	-0.654	5.6412
BSW FOOT ANGLE	USA FOOT ANGLE	0.644	7.9341
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.159	8.5909
BSW UDDER DEPTH	USA UDDER DEPTH	-0.235	4.8925
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.267	6.6261
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.673	5.8080
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.239	5.9237
BSW TEAT LENGTH	USA TEAT LENGTH	0.127	3.6296
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	1.047	5.6670
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.974	7.9807
BSW ANGULARITY	USA ANGULARITY	0.994	5.8567

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2012

BREED	BMILK	BFAT	BPRT
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AYS	7368	298	248
BSW	8065	330	281
CN	5833	249	205
GUE	6707	299	228
JER	6337	312	242
HOL	9670	364	310
MS	6794	247	224

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(364 + 50 * .5) / (9670 + 1000 * .5) - (364 / 9670)] \\ &= 200 * [(364 + 25) / (9670 + 500) - (0.03764)] \\ &= 200 * [0.03825 - 0.03764] \\ &= 200 * 0.00061 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(310 + 40 * .5) / (9670 + 1000 * .5) - (310 / 9670)] \\ &= 200 * [(310 + 20) / (9670 + 500) - (0.03206)] \\ &= 200 * [0.03245 - 0.03206] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$