
 Conversion Factors For Production Traits. Source: INTERBULL 1612

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-38.02	1.1475	1.499	1.3160	0.595	1.3270	0.5041
BSW	CHE	-255.10	1.1400	-9.000	1.1640	-7.400	1.2420	0.7225
BSW	DEA	42.00	1.1990	5.600	1.3380	6.400	1.3650	0.7056
BSW	FRA	74.30	0.8650	2.400	0.8500	4.000	0.8980	0.7056
BSW	GBR	-87.49	1.9743	-1.329	2.2751	-1.180	2.4837	0.7225
BSW	ITA	-130.50	0.8980	-1.500	1.0460	0.500	0.9000	0.7225
BSW	NLD	1251.26	0.9431	35.898	0.8965	41.263	1.0069	0.7396
BSW	NZL	276.27	1.2257	36.376	1.2332	19.351	1.4658	0.4900
BSW	SVN	-6649.50	56.7940	-282.900	2.4320	-243.100	2.0960	0.6889
BSW	USA	19.30	0.9430	-0.400	1.0040	-0.300	1.1010	0.8100

 Conversion Factors For SCS Traits. Source: INTERBULL 1612

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	-0.2230	0.8836
BSW	GBR	2.967	0.0173	0.8464
BSW	ITA	4.200	-0.0120	0.8281
BSW	NLD	-2.331	0.0523	0.8100
BSW	NZL	3.195	0.5749	0.7569
BSW	SVN	5.200	-0.0220	0.7921
BSW	USA	-0.100	1.0500	0.8464

 Conversion Factors For Type. Source = INTERBULL MACE 1612

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

country2=CHE

c	a	n	b	t	c	f	a	b	t
					o	o	v	v	c
					u	r	a	a	o
					r	a	l	l	r
					y	i	u	u	r
					2	t	e	e	2
BSW					CHE		-55.560		0.5395
BSW					CHE		-55.707		0.5813
BSW					CHE		-34.629		0.3541
BSW					CHE		-63.408		0.6371
BSW					CHE		-58.629		0.5615

BSW CONFORMATION	CHE FINAL SCORE	-81.160	0.8039	0.74
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-58.879	0.5760	
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.063	0.5548	
BSW STATURE	CHE STATURE	-55.734	0.5309	
BSW CHEST WIDTH	CHE CHEST WIDTH	-77.801	0.8047	
BSW BODY DEPTH	CHE BODY DEPTH	-60.161	0.5905	
BSW PIN WIDTH	CHE RUMP WIDTH	-58.011	0.6054	
BSW RUMP ANGLE	CHE RUMP ANGLE	-54.555	0.5512	
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.543	0.3857	
BSW HEEL DEPTH	CHE HEEL DEPTH	-56.985	0.5720	
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-45.979	0.4710	
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.067	0.5248	
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-64.327	0.6250	
BSW FORE ATTACHMENT	CHE FORE UDDER	-51.817	0.5218	
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-50.253	0.5005	
BSW TEAT LENGTH	CHE TEAT LENGTH	-40.312	0.3774	
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-58.557	0.5804	
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-64.000	0.6330	
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-48.103	0.4771	
BSW ANGULARITY	CHE ANGULARITY	54.323	-0.6017	

Conversion Factors For Type. Source = INTERBULL MACE 1612
 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	DEA		-66.422	0.6129	
BSW	DEA		-60.626	0.6040	
BSW	DEA		-38.582	0.3785	
BSW	DEA		-45.566	0.4760	
BSW	DEA		-55.245	0.5298	
BSW CONFORMATION	DEA CONFORMATION		-60.805	0.5587	0.58
BSW FEET AND LEGS	DEA OVERALL FEET & LEG		-41.046	0.3873	
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE		-60.638	0.5715	
BSW STATURE	DEA STATURE		-62.584	0.5748	
BSW CHEST WIDTH	DEA CHEST WIDTH		-62.640	0.6273	
BSW BODY DEPTH	DEA BODY DEPTH		-53.761	0.5171	
BSW PIN WIDTH	DEA RUMP WIDTH		-53.009	0.5307	
BSW RUMP ANGLE	DEA RUMP ANGLE		-50.431	0.5166	
BSW FOOT ANGLE	DEA FOOT ANGLE		-39.395	0.3664	
BSW HEEL DEPTH	DEA HEEL DEPTH		-52.224	0.5041	
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET		-51.025	0.5180	
BSW UDDER DEPTH	DEA UDDER DEPTH		-52.388	0.5041	
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY		-67.143	0.6335	
BSW FORE ATTACHMENT	DEA FORE UDDER		-52.434	0.5177	
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT		-64.758	0.6156	
BSW TEAT LENGTH	DEA TEAT LENGTH		-46.141	0.4563	
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT		-47.722	0.4339	

BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-57.109	0.5394
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-64.152	0.6001

Conversion Factors For Type. Source = INTERBULL MACE 1612
 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	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	FRA		-2.801	7.6889	
BSW	FRA		-0.695	5.6352	
BSW	FRA		-0.206	6.3997	
BSW	FRA		1.041	7.2100	
BSW	FRA		-2.661	5.9500	
BSW CONFORMATION	FRA OVERALL SCORE		-2.973	6.6777	0.71
BSW FEET AND LEGS	FRA OVERALL FEET & LEG		-1.867	3.0942	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE		-2.568	6.7770	
BSW STATURE	FRA STATURE		-2.941	7.2765	
BSW CHEST WIDTH	FRA CHEST DEPTH		-0.277	7.9326	
BSW BODY DEPTH	FRA BODY DEPTH		-0.996	5.7777	
BSW PIN WIDTH	FRA RUMP WIDTH		-1.017	6.6017	
BSW RUMP ANGLE	FRA RUMP ANGLE		1.777	6.6231	
BSW FOOT ANGLE	FRA HEEL DEPTH		-2.089	5.8293	
BSW HEEL DEPTH	FRA HEEL DEPTH		-0.869	6.1880	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET		-0.492	6.2113	
BSW UDDER DEPTH	FRA UDDER DEPTH		-2.604	6.0941	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY		-0.403	7.7276	
BSW FORE ATTACHMENT	FRA FORE UDDER		-2.432	6.2167	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT		-2.649	7.3376	
BSW TEAT LENGTH	FRA TEAT LENGTH		0.523	5.9723	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT		-1.218	6.6622	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH		-0.966	7.5897	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT		-1.063	7.2097	
BSW ANGULARITY	FRA ANGULARITY		-3.814	8.0703	

Conversion Factors For Type. Source = INTERBULL MACE 1612
 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 i d t	y i 2 t	u e	u e	r 2
BSW FEET AND LEGS	GBR OVERALL FEET & LEG	-0.779	3.5369	
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-0.338	4.6699	
BSW STATURE	GBR STATURE	-2.804	7.9168	
BSW CHEST WIDTH	GBR CHEST WIDTH	-0.391	5.7193	
BSW BODY DEPTH	GBR BODY DEPTH	0.077	4.3013	
BSW PIN WIDTH	GBR RUMP WIDTH	-0.147	5.3982	
BSW RUMP ANGLE	GBR RUMP ANGLE	0.942	3.0350	
BSW FOOT ANGLE	GBR FOOT ANGLE	-0.465	6.3732	
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-3.085	4.8778	
BSW UDDER DEPTH	GBR UDDER DEPTH	-0.077	3.0944	
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.210	2.5736	
BSW FORE ATTACHMENT	GBR FORE UDDER	-1.722	4.9798	
BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.866	5.0344	
BSW TEAT LENGTH	GBR TEAT LENGTH	-0.069	4.1157	
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-0.457	4.2879	
BSW ANGULARITY	GBR ANGULARITY	-2.425	9.0010	

Conversion Factors For Type. Source = INTERBULL MACE 1612
 Converted Canadian Proof = A + (B* Foreign Proof)
 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 2
BSW	ITA	-37.696	0.3496	
BSW	ITA	-29.142	0.2858	
BSW	ITA	-37.646	0.3639	
BSW	ITA	-22.238	0.2314	
BSW	ITA	-32.840	0.2799	
BSW CONFORMATION	ITA FINAL SCORE	-78.457	0.7114	0.71
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-32.877	0.2800	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-52.849	0.4669	
BSW STATURE	ITA STATURE	-48.616	0.4387	
BSW CHEST WIDTH	ITA STRENGTH	-32.340	0.3134	
BSW BODY DEPTH	ITA BODY DEPTH	-30.809	0.2942	
BSW RUMP ANGLE	ITA RUMP ANGLE	-25.504	0.2705	
BSW FOOT ANGLE	ITA FOOT ANGLE	-29.342	0.2531	
BSW HEEL DEPTH	ITA HEEL DEPTH	-31.302	0.2817	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-25.821	0.2615	
BSW UDDER DEPTH	ITA UDDER DEPTH	-32.185	0.2901	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.361	0.3894	
BSW FORE ATTACHMENT	ITA FORE UDDER	-29.852	0.2765	
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-28.450	0.2558	
BSW TEAT LENGTH	ITA TEAT LENGTH	-28.058	0.2898	
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.025	0.4377	
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-49.469	0.4436	
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.640	0.3098	

Conversion Factors For Type. Source = INTERBULL MACE 1612
 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		-158.671	1.5710	0.61
BSW FEET AND LEGS	NLD OVERALL FEET & LEG		-123.193	1.0895	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE		-144.702	1.5403	
BSW STATURE	NLD STATURE		-138.282	1.3792	
BSW CHEST WIDTH	NLD CHEST WIDTH		-183.430	1.8214	
BSW BODY DEPTH	NLD BODY DEPTH		-132.183	1.3749	
BSW PIN WIDTH	NLD RUMP WIDTH		-150.333	1.6961	
BSW RUMP ANGLE	NLD RUMP ANGLE		-139.860	1.3796	
BSW FOOT ANGLE	NLD FOOT ANGLE		-120.490	1.0316	
BSW HEEL DEPTH	NLD HEEL DEPTH		-133.429	1.1543	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET		-110.333	1.1633	
BSW UDDER DEPTH	NLD UDDER DEPTH		-145.842	1.4933	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY		-138.163	1.4645	
BSW FORE ATTACHMENT	NLD FORE UDDER		-139.090	1.4351	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT		-144.267	1.4245	
BSW TEAT LENGTH	NLD TEAT LENGTH		-117.489	1.1219	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT		-112.304	1.2438	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH		-110.901	1.2300	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT		-143.709	1.4804	
BSW ANGULARITY	NLD ANGULARITY		-153.852	1.6224	

Conversion Factors For Type. Source = INTERBULL MACE 1612
 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	SVN		-36.953	0.2776	
BSW	SVN		-30.051	0.2977	
BSW	SVN		-24.623	0.2145	
BSW	SVN		-17.198	0.1773	

BSW	SVN	-33.598	0.2667	
BSW CONFORMATION	SVN CONFORMATION	-37.042	0.2557	0.55
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-24.816	0.1905	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-35.061	0.2517	
BSW STATURE	SVN STATURE	-47.379	0.3584	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.754	0.3405	
BSW BODY DEPTH	SVN BODY DEPTH	-23.558	0.2048	
BSW PIN WIDTH	SVN RUMP WIDTH	-26.345	0.2322	
BSW RUMP ANGLE	SVN RUMP ANGLE	-25.133	0.2734	
BSW FOOT ANGLE	SVN FOOT ANGLE	-26.337	0.2106	
BSW HEEL DEPTH	SVN HEEL DEPTH	-22.600	0.1978	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-24.203	0.2535	
BSW UDDER DEPTH	SVN UDDER DEPTH	-31.562	0.2630	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-32.645	0.2618	
BSW FORE ATTACHMENT	SVN FORE UDDER	-27.131	0.2032	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-43.465	0.3534	
BSW TEAT LENGTH	SVN TEAT LENGTH	-25.146	0.2776	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-40.030	0.3131	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-43.559	0.3443	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.672	0.3574	

Conversion Factors For Type. Source = INTERBULL MACE 1612
 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	USA		0.378	4.2444	
BSW	USA		0.987	9.7125	
BSW	USA		-2.100	7.0913	
BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)		1.685	10.4635	0.76
BSW FEET AND LEGS	USA OVERALL FEET & LEG		-0.731	3.6706	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE		1.442	4.7587	
BSW STATURE	USA STATURE		-0.150	4.0966	
BSW CHEST WIDTH	USA STRENGTH		-0.030	9.3636	
BSW BODY DEPTH	USA BODY DEPTH		0.011	5.9631	
BSW PIN WIDTH	USA RUMP WIDTH		1.196	8.8593	
BSW RUMP ANGLE	USA RUMP ANGLE		-1.028	5.5364	
BSW FOOT ANGLE	USA FOOT ANGLE		-0.879	9.5262	
BSW HEEL DEPTH	USA HEEL DEPTH		-0.447	9.1129	
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET		0.272	8.7859	
BSW UDDER DEPTH	USA UDDER DEPTH		0.560	4.9717	
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT		1.194	5.5579	
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT		1.638	5.2675	
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT		0.107	5.2727	
BSW TEAT LENGTH	USA TEAT LENGTH		0.023	3.9873	
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT		0.741	4.7102	
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH		0.584	6.9455	
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT		0.292	5.0695	

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2016

BREED	BMILK	BFAT	BPRT
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AYS	7597	314	257
BSW	8157	342	287
CN	5698	247	203
GUE	6765	320	234
JER	6462	323	247
HOL	9994	384	320
MS	6326	244	210

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(384 + 50 * .5) / (9994 + 1000 * .5) - (384 / 9994)] \\ &= 200 * [(384 + 25) / (9994 + 500) - (0.03842)] \\ &= 200 * [0.03897 - 0.03842] \\ &= 200 * 0.00055 \\ &= 0.11 \end{aligned}$$

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