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Conversion Factors For Production Traits. Source: INTERBULL 1412

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	CHE	-392.14	1.263	-15.051	1.315	-13.137	1.381	0.7569
BSW	DEA	-12.29	1.258	3.874	1.437	3.768	1.444	0.7396
BSW	FRA	21.42	0.847	0.085	0.851	2.306	0.893	0.7569
BSW	GBR	-117.55	2.159	-4.625	2.408	-3.485	2.614	0.7396
BSW	ITA	-275.43	1.021	-9.546	1.168	-6.991	1.018	0.7744
BSW	NLD	1226.28	1.086	35.942	1.021	36.774	1.157	0.7744
BSW	NZL	252.80	1.442	34.584	1.423	13.912	1.687	0.5776
BSW	SVN	-7003.55	59.569	-316.014	2.712	-260.306	2.235	0.7569
BSW	USA	79.68	0.986	1.910	1.051	2.106	1.142	0.8100

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Conversion Factors For SCS Traits. Source: INTERBULL 1412

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

breed	country2	a	b	scorr2
BSW	CHE	5.206	-0.022	0.8649
BSW	DEA	4.939	-0.019	0.8464
BSW	FRA	3.018	-0.231	0.8464
BSW	GBR	2.946	0.017	0.8464
BSW	ITA	4.837	-0.017	0.8464
BSW	NLD	-2.679	0.055	0.7921
BSW	NZL	3.106	0.504	0.5929
BSW	SVN	5.229	-0.021	0.7569
BSW	USA	-0.170	1.056	0.8100

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Conversion Factors For Type. Source = INTERBULL MACE 1412

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		-0.728	9.4003	0.71
BSW FEET AND LEGS	CHE OVERALL FEET & LEG		-0.942	6.6962	
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE		0.237	6.7543	
BSW STATURE	CHE STATURE		-3.215	6.5956	
BSW CHEST WIDTH	CHE CHEST WIDTH		3.502	9.3059	
BSW BODY DEPTH	CHE BODY DEPTH		-1.391	7.2133	

BSW PIN WIDTH	CHE RUMP WIDTH	3.657	6.8004
BSW RUMP ANGLE	CHE RUMP ANGLE	0.652	6.4389
BSW FOOT ANGLE	CHE FOOT ANGLE	-1.237	2.7686
BSW HEEL DEPTH	CHE HEEL DEPTH	0.532	7.0283
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	2.170	5.5626
BSW UDDER DEPTH	CHE UDDER DEPTH	0.114	6.2741
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-2.071	7.1878
BSW FORE ATTACHMENT	CHE FORE UDDER	-1.484	2.3926
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-0.415	5.9764
BSW TEAT LENGTH	CHE TEAT LENGTH	-3.173	3.8317
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-0.946	6.8740
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-0.487	7.8523
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-1.164	6.1967
BSW ANGULARITY	CHE ANGULARITY	-5.678	-5.2395

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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 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	-53.876	0.4992	0.48
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-43.070	0.4214	
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-60.612	0.5770	
BSW STATURE	DEA STATURE	-62.753	0.5881	
BSW CHEST WIDTH	DEA CHEST WIDTH	-60.621	0.6146	
BSW BODY DEPTH	DEA BODY DEPTH	-59.242	0.5766	
BSW PIN WIDTH	DEA RUMP WIDTH	-49.548	0.4916	
BSW RUMP ANGLE	DEA RUMP ANGLE	-49.262	0.5029	
BSW FOOT ANGLE	DEA FOOT ANGLE	-25.741	0.2402	
BSW HEEL DEPTH	DEA HEEL DEPTH	-59.525	0.5885	
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-52.156	0.5249	
BSW UDDER DEPTH	DEA UDDER DEPTH	-51.588	0.4967	
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-63.849	0.6109	
BSW FORE ATTACHMENT	DEA FORE UDDER	-49.392	0.4852	
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-63.664	0.6119	
BSW TEAT LENGTH	DEA TEAT LENGTH	-39.890	0.3946	
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-47.694	0.4402	
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-55.967	0.5390	
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-69.489	0.6584	

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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 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 2
BSW CONFORMATION	FRA OVERALL SCORE	-2.647	6.7118	0.76
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.360	2.3778	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.388	6.6029	
BSW STATURE	FRA STATURE	-2.648	7.5019	
BSW CHEST WIDTH	FRA CHEST DEPTH	0.294	7.3905	
BSW BODY DEPTH	FRA BODY DEPTH	-0.865	6.3122	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.345	5.9681	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.324	6.4636	
BSW FOOT ANGLE	FRA HEEL DEPTH	-1.256	5.8719	
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.291	6.8245	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	0.200	6.5723	
BSW UDDER DEPTH	FRA UDDER DEPTH	-3.070	5.9848	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.769	7.6215	
BSW FORE ATTACHMENT	FRA FORE UDDER	-2.205	4.5660	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-3.203	7.3282	
BSW TEAT LENGTH	FRA TEAT LENGTH	0.137	5.2590	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.540	6.6130	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-0.547	7.5856	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-1.296	7.7367	
BSW ANGULARITY	FRA ANGULARITY	-3.844	8.1760	

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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=GBR

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 2
BSW FEET AND LEGS	GBR OVERALL FEET & LEG	0.476	3.3673	
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	0.832	4.6686	
BSW STATURE	GBR STATURE	-1.964	7.8529	
BSW CHEST WIDTH	GBR CHEST WIDTH	0.180	5.8813	
BSW BODY DEPTH	GBR BODY DEPTH	0.012	4.3724	
BSW PIN WIDTH	GBR RUMP WIDTH	0.942	5.0966	
BSW RUMP ANGLE	GBR RUMP ANGLE	0.377	2.8035	
BSW FOOT ANGLE	GBR FOOT ANGLE	0.131	5.9818	
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-2.418	5.1135	
BSW UDDER DEPTH	GBR UDDER DEPTH	0.838	3.1549	
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	0.551	2.6013	
BSW FORE ATTACHMENT	GBR FORE UDDER	-1.864	4.4167	
BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	0.480	5.2899	

BSW TEAT LENGTH	GBR TEAT LENGTH	-0.675	4.0946
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	0.600	4.3213
BSW ANGULARITY	GBR ANGULARITY	-1.357	8.6531

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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 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	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	-68.135	0.6000	0.61
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-33.708	0.2982	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-60.712	0.5422	
BSW STATURE	ITA STATURE	-53.957	0.4848	
BSW CHEST WIDTH	ITA STRENGTH	-42.290	0.4134	
BSW BODY DEPTH	ITA BODY DEPTH	-40.882	0.3815	
BSW RUMP ANGLE	ITA RUMP ANGLE	-36.810	0.3797	
BSW FOOT ANGLE	ITA FOOT ANGLE	-25.278	0.2229	
BSW HEEL DEPTH	ITA HEEL DEPTH	-45.367	0.4260	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-37.920	0.3846	
BSW UDDER DEPTH	ITA UDDER DEPTH	-41.545	0.3866	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-56.253	0.5180	
BSW FORE ATTACHMENT	ITA FORE UDDER	-19.172	0.1661	
BSW TEAT LENGTH	ITA TEAT LENGTH	-33.845	0.3417	
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-50.863	0.4532	
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-55.269	0.5017	
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-50.513	0.4673	

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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 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	-150.644	1.4411	0.59
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-67.785	0.5847	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-148.172	1.5333	
BSW STATURE	NLD STATURE	-136.689	1.3482	

BSW CHEST WIDTH	NLD CHEST WIDTH	-180.447	1.7799
BSW BODY DEPTH	NLD BODY DEPTH	-146.515	1.5150
BSW PIN WIDTH	NLD RUMP WIDTH	-153.246	1.6973
BSW RUMP ANGLE	NLD RUMP ANGLE	-144.863	1.4321
BSW FOOT ANGLE	NLD FOOT ANGLE	-81.037	0.6895
BSW HEEL DEPTH	NLD HEEL DEPTH	-157.114	1.3561
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-117.244	1.2572
BSW UDDER DEPTH	NLD UDDER DEPTH	-150.324	1.5059
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-133.138	1.3976
BSW FORE ATTACHMENT	NLD FORE UDDER	-150.638	1.5173
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-152.812	1.4898
BSW TEAT LENGTH	NLD TEAT LENGTH	-99.208	0.9549
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-107.770	1.1725
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-97.535	1.0665
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-159.446	1.6222
BSW ANGULARITY	NLD ANGULARITY	-143.569	1.5297

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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=R;

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	R;	CONFORMATION	0.798	3.8042
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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 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	-29.070	0.1921	0.45
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-20.228	0.1588	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-33.492	0.2395	
BSW STATURE	SVN STATURE	-47.361	0.3614	
BSW CHEST WIDTH	SVN CHEST WIDTH	-31.569	0.3353	
BSW BODY DEPTH	SVN BODY DEPTH	-24.082	0.2051	
BSW PIN WIDTH	SVN RUMP WIDTH	-23.458	0.2101	

BSW RUMP ANGLE	SVN RUMP ANGLE	-23.959	0.2580
BSW FOOT ANGLE	SVN FOOT ANGLE	-22.354	0.1827
BSW HEEL DEPTH	SVN HEEL DEPTH	-20.847	0.1818
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-22.979	0.2493
BSW UDDER DEPTH	SVN UDDER DEPTH	-30.133	0.2508
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-29.362	0.2331
BSW FORE ATTACHMENT	SVN FORE UDDER	-24.822	0.1814
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-40.465	0.3326
BSW TEAT LENGTH	SVN TEAT LENGTH	-23.037	0.2488
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-37.027	0.2852
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-44.389	0.3558
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-44.716	0.3681

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Conversion Factors For Type. Source = INTERBULL MACE 1412  
 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)	3.372	11.9152	0.76
BSW FEET AND LEGS	USA OVERALL FEET & LEG	0.258	3.0210	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	2.122	6.6350	
BSW STATURE	USA STATURE	1.445	4.6549	
BSW CHEST WIDTH	USA STRENGTH	1.532	10.4184	
BSW PIN WIDTH	USA RUMP WIDTH	2.380	9.7329	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.054	5.7216	
BSW FOOT ANGLE	USA FOOT ANGLE	0.332	8.6925	
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.763	9.4840	
BSW UDDER DEPTH	USA UDDER DEPTH	1.049	5.1812	
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	2.286	6.5674	
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	2.368	5.8507	
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	0.965	5.8151	
BSW TEAT LENGTH	USA TEAT LENGTH	-0.230	3.6215	
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	1.821	6.0084	
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	2.465	7.8766	
BSW ANGULARITY	USA ANGULARITY	2.291	6.2075	

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CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2014

BREED	BMILK	BFAT	BPRT
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AYS	7482	307	252
BSW	8027	335	283
CN	6149	264	215
GUE	6705	313	230
JER	6363	316	243
HOL	9855	375	316

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

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

## EXAMPLE:

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (375 + 50 * .5) / (9855 + 1000 * .5) - (375 / 9855) ] \\ &= 200 * [ (375 + 25) / (9855 + 500) - (0.03805) ] \\ &= 200 * [ 0.03863 - 0.03805 ] \\ &= 200 * 0.00058 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPRT\%} &= 200 * [ (316 + 40 * .5) / (9855 + 1000 * .5) - (316 / 9855) ] \\ &= 200 * [ (316 + 20) / (9855 + 500) - (0.03206) ] \\ &= 200 * [ 0.03245 - 0.03206 ] \\ &= 200 * 0.00038 \\ &= 0.08 \end{aligned}$$