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 Conversion Factors For Production Traits. Source: INTERBULL 1704
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-37.97	1.1379	1.200	1.2493	0.670	1.3087	0.4900
BSW	CHE	-212.10	1.1140	-7.200	1.1680	-5.200	1.2440	0.7396
BSW	DEA	54.50	1.1860	6.900	1.3530	7.200	1.3980	0.7569
BSW	FRA	71.00	0.8520	4.400	0.8630	4.600	0.9060	0.7056
BSW	GBR	-102.97	2.0536	-2.927	2.5633	-1.470	2.6104	0.7056
BSW	ITA	-152.60	0.9000	-1.800	1.0530	0.000	0.9090	0.7225
BSW	NLD	1155.19	0.9261	35.333	0.9185	38.376	1.0063	0.7396
BSW	NZL	281.10	1.2449	37.648	1.2585	20.008	1.5154	0.4900
BSW	SVN	-6809.30	58.6640	-276.900	2.3960	-250.700	2.1740	0.6889
BSW	USA	-11.20	0.9310	-1.300	1.0180	-1.400	1.1100	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 1704
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	5.000	-0.0210	0.8464
BSW	DEA	4.800	-0.0180	0.8649
BSW	FRA	2.900	-0.2230	0.8836
BSW	GBR	2.971	0.0173	0.8649
BSW	ITA	4.200	-0.0120	0.8100
BSW	NLD	-1.901	0.0480	0.8100
BSW	NZL	3.165	0.5588	0.7569
BSW	SVN	5.200	-0.0210	0.7921
BSW	USA	-0.100	1.0460	0.8464

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 Conversion Factors For Type. Source = INTERBULL MACE 1704
 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		-81.048	0.8054	0.76
BSW DAIRY STRENGTH	CHE OVERALL FRAME		-52.744	0.5134	

BSW RUMP	CHE OVERALL RUMP	-35.462	0.3656
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-56.705	0.5616
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.273	0.5572
BSW STATURE	CHE STATURE	-52.172	0.4934
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-61.212	0.6180
BSW CHEST WIDTH	CHE CHEST WIDTH	-78.806	0.8177
BSW BODY DEPTH	CHE BODY DEPTH	-55.522	0.5502
BSW LOIN STRENGTH	CHE TOP LINE	-54.743	0.5731
BSW PIN WIDTH	CHE RUMP WIDTH	-59.328	0.6195
BSW RUMP ANGLE	CHE RUMP ANGLE	-52.483	0.5326
BSW BONE QUALITY	CHE HOCK QUALITY	-59.354	0.5679
BSW FOOT ANGLE	CHE FOOT ANGLE	-37.849	0.3722
BSW HEEL DEPTH	CHE HEEL DEPTH	-56.496	0.5716
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-46.462	0.4707
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.164	0.5119
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-63.947	0.6238
BSW FORE ATTACHMENT	CHE FORE UDDER	-52.702	0.5282
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-49.130	0.4891
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.829	0.3916
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-58.778	0.5804
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-64.067	0.6335
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-47.503	0.4761
BSW ANGULARITY	CHE ANGULARITY	54.958	-0.6082

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Conversion Factors For Type. Source = INTERBULL MACE 1704
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	-62.938	0.5815	0.62	
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-63.892	0.5863		
BSW RUMP	DEA OVERALL RUMP	-40.645	0.3961		
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-38.890	0.3697		
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-61.340	0.5789		
BSW STATURE	DEA STATURE	-59.994	0.5501		
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-41.976	0.4406		
BSW CHEST WIDTH	DEA CHEST WIDTH	-62.117	0.6224		
BSW BODY DEPTH	DEA BODY DEPTH	-52.067	0.5039		
BSW LOIN STRENGTH	DEA TOP LINE	-59.313	0.5910		
BSW PIN WIDTH	DEA RUMP WIDTH	-54.578	0.5480		
BSW RUMP ANGLE	DEA RUMP ANGLE	-49.019	0.5025		
BSW BONE QUALITY	DEA HOCK QUALITY	-54.530	0.5260		
BSW FOOT ANGLE	DEA FOOT ANGLE	-48.677	0.4694		
BSW HEEL DEPTH	DEA HEEL DEPTH	-52.157	0.5098		
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-51.023	0.5143		
BSW UDDER DEPTH	DEA UDDER DEPTH	-51.434	0.4914		
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-66.445	0.6275		

BSW FORE ATTACHMENT	DEA FORE UDDER	-53.482	0.5251
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-62.760	0.5934
BSW TEAT LENGTH	DEA TEAT LENGTH	-49.115	0.4842
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-48.707	0.4409
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-56.838	0.5356
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-63.379	0.5960

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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 CONFORMATION	FRA OVERALL SCORE	-2.127	6.6440	0.69	
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.641	7.4562		
BSW RUMP	FRA OVERALL RUMP	-0.052	6.4147		
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.125	3.0914		
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-1.787	6.9915		
BSW STATURE	FRA STATURE	-2.826	7.0193		
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.380	6.9801		
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.103	8.0973		
BSW BODY DEPTH	FRA BODY DEPTH	-0.680	5.6614		
BSW LOIN STRENGTH	FRA TOP LINE	-0.578	5.6462		
BSW PIN WIDTH	FRA RUMP WIDTH	-0.784	6.8902		
BSW RUMP ANGLE	FRA RUMP ANGLE	1.899	6.4229		
BSW BONE QUALITY	FRA HOCK QUALITY	-2.504	5.9498		
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.569	5.8337		
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.460	6.0654		
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.133	6.2922		
BSW UDDER DEPTH	FRA UDDER DEPTH	-2.030	5.9590		
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.047	7.7216		
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.833	6.5291		
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.421	7.0952		
BSW TEAT LENGTH	FRA TEAT LENGTH	0.625	6.2365		
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.290	6.7768		
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.263	7.5981		
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.702	7.2239		
BSW ANGULARITY	FRA ANGULARITY	-3.619	7.9244		

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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	y	i	u	u	r
d	2	t	e	e	2

BSW FEET AND LEGS	GBR OVERALL FEET & LEG	-0.302	3.4227
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-0.579	4.8036
BSW STATURE	GBR STATURE	-3.005	7.4775
BSW CHEST WIDTH	GBR CHEST WIDTH	-0.278	5.7875
BSW BODY DEPTH	GBR BODY DEPTH	0.506	4.1774
BSW PIN WIDTH	GBR RUMP WIDTH	-0.133	5.5609
BSW RUMP ANGLE	GBR RUMP ANGLE	0.920	2.9473
BSW FOOT ANGLE	GBR FOOT ANGLE	0.644	6.6674
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-3.301	5.0129
BSW UDDER DEPTH	GBR UDDER DEPTH	-0.482	3.0513
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.325	2.5999
BSW FORE ATTACHMENT	GBR FORE UDDER	-2.114	5.0232
BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.267	4.8368
BSW TEAT LENGTH	GBR TEAT LENGTH	-0.110	4.2473
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-1.073	4.1945
BSW ANGULARITY	GBR ANGULARITY	-2.511	8.7100

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Conversion Factors For Type. Source = INTERBULL MACE 1704
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	-78.781	0.7148	0.69
BSW DAIRY STRENGTH	ITA OVERALL FRAME	-36.687	0.3385	
BSW RUMP	ITA OVERALL RUMP	-39.575	0.3799	
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-31.183	0.2691	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-54.269	0.4794	
BSW STATURE	ITA STATURE	-46.695	0.4200	
BSW THURL PLACEMENT	ITA THURL PLACEMENT	-21.402	0.2229	
BSW CHEST WIDTH	ITA STRENGTH	-31.646	0.3089	
BSW BODY DEPTH	ITA BODY DEPTH	-29.024	0.2821	
BSW LOIN STRENGTH	ITA TOP LINE	-28.782	0.2843	
BSW RUMP ANGLE	ITA RUMP ANGLE	-24.725	0.2620	
BSW BONE QUALITY	ITA HOCK QUALITY	-33.797	0.2888	
BSW FOOT ANGLE	ITA FOOT ANGLE	-25.824	0.2303	
BSW HEEL DEPTH	ITA HEEL DEPTH	-31.355	0.2840	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-26.052	0.2608	
BSW UDDER DEPTH	ITA UDDER DEPTH	-31.902	0.2835	

BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-41.869	0.3853
BSW FORE ATTACHMENT	ITA FORE UDDER	-30.908	0.2844
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-28.653	0.2535
BSW TEAT LENGTH	ITA TEAT LENGTH	-29.267	0.3019
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-48.486	0.4282
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-49.488	0.4410
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.526	0.3088

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Conversion Factors For Type. Source = INTERBULL MACE 1704
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	-157.728	1.5624	0.61
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-120.422	1.0704	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-147.634	1.5708	
BSW STATURE	NLD STATURE	-131.718	1.3092	
BSW CHEST WIDTH	NLD CHEST WIDTH	-181.328	1.8034	
BSW BODY DEPTH	NLD BODY DEPTH	-127.595	1.3310	
BSW PIN WIDTH	NLD RUMP WIDTH	-152.781	1.7246	
BSW RUMP ANGLE	NLD RUMP ANGLE	-136.282	1.3431	
BSW FOOT ANGLE	NLD FOOT ANGLE	-125.806	1.0873	
BSW HEEL DEPTH	NLD HEEL DEPTH	-134.325	1.1646	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-110.938	1.1683	
BSW UDDER DEPTH	NLD UDDER DEPTH	-142.447	1.4535	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-135.644	1.4359	
BSW FORE ATTACHMENT	NLD FORE UDDER	-135.862	1.4005	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-139.904	1.3765	
BSW TEAT LENGTH	NLD TEAT LENGTH	-122.181	1.1686	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-112.413	1.2400	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-112.450	1.2432	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-142.225	1.4657	
BSW ANGULARITY	NLD ANGULARITY	-154.127	1.6233	

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Conversion Factors For Type. Source = INTERBULL MACE 1704
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	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	SVN CONFORMATION	-38.362	0.2676	0.62
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-35.387	0.2647	
BSW RUMP	SVN OVERALL RUMP	-27.511	0.2422	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-25.138	0.1964	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-38.224	0.2791	
BSW STATURE	SVN STATURE	-46.466	0.3522	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.663	0.1705	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.734	0.3405	
BSW BODY DEPTH	SVN BODY DEPTH	-22.581	0.2010	
BSW LOIN STRENGTH	SVN TOP LINE	-29.644	0.2936	
BSW PIN WIDTH	SVN RUMP WIDTH	-27.502	0.2442	
BSW RUMP ANGLE	SVN RUMP ANGLE	-25.966	0.2818	
BSW BONE QUALITY	SVN HOCK QUALITY	-34.774	0.2787	
BSW FOOT ANGLE	SVN FOOT ANGLE	-28.735	0.2443	
BSW HEEL DEPTH	SVN HEEL DEPTH	-23.093	0.2052	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-24.659	0.2535	
BSW UDDER DEPTH	SVN UDDER DEPTH	-31.900	0.2636	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-33.081	0.2663	
BSW FORE ATTACHMENT	SVN FORE UDDER	-31.971	0.2453	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-43.988	0.3556	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.881	0.3083	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-39.750	0.3100	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-44.397	0.3506	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-44.399	0.3650	

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 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)	1.309	10.7047	0.76
BSW DAIRY STRENGTH	USA OVERALL FRAME	0.261	4.0531	
BSW RUMP	USA OVERALL RUMP	0.777	9.6732	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.106	5.9189	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.817	6.8689	
BSW STATURE	USA STATURE	-0.414	3.8915	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-2.192	6.8829	
BSW CHEST WIDTH	USA STRENGTH	0.036	9.3116	
BSW BODY DEPTH	USA BODY DEPTH	0.051	6.2156	
BSW PIN WIDTH	USA RUMP WIDTH	1.361	8.6263	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.035	5.4572	
BSW FOOT ANGLE	USA FOOT ANGLE	0.203	9.5415	

BSW HEEL DEPTH	USA HEEL DEPTH	-0.111	8.9972
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.048	8.8795
BSW UDDER DEPTH	USA UDDER DEPTH	0.030	4.9418
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	0.628	5.7695
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	1.342	5.1561
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.482	5.1326
BSW TEAT LENGTH	USA TEAT LENGTH	0.018	4.2390
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.142	5.0070
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.184	6.7736
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.255	5.1200
BSW ANGULARITY	USA ANGULARITY	0.586	5.4666

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2017

BREED	BMILK	BFAT	BPRT
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AYS	7670	318	259
BSW	8317	350	293
CN	5598	245	200
GUE	6801	319	235
JER	6521	328	250
HOL	10087	390	324
MS	6855	266	226

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(390+50*0.5)/(10087+1000*0.5)-(390/10087)] \\
 &= 200 * [(390+25)/(10087+500)-(0.03866)] \\
 &= 200 * [0.03920 - 0.03866] \\
 &= 200 * 0.00054 \\
 &= 0.11
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(324+40*0.5)/(10087+1000*0.5)-(324/10087)] \\
 &= 200 * [(324+20)/(10087+500)-(0.03212)] \\
 &= 200 * [0.03249 - 0.03212] \\
 &= 200 * 0.00037 \\
 &= 0.07
 \end{aligned}$$