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 Conversion Factors For Production Traits. Source: INTERBULL 1812
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-24.04	1.1946	1.780	1.2404	0.280	1.3388	0.4900
BSW	CHE	-175.90	1.0660	-6.200	1.0870	-4.500	1.1020	0.7396
BSW	DEA	241.90	1.2690	13.600	1.4200	13.100	1.4280	0.7396
BSW	FRA	60.20	0.9210	4.500	0.9100	4.400	0.9580	0.7056
BSW	GBR	-208.79	2.1737	-6.985	2.5657	-6.410	2.6384	0.7225
BSW	ITA	-82.90	0.9350	0.700	1.0720	2.000	0.9100	0.7225
BSW	NLD	1062.44	0.8942	32.876	0.9047	32.942	0.9291	0.7396
BSW	NZL	332.01	1.3446	38.940	1.2874	19.482	1.5218	0.4900
BSW	SVN	-7288.20	63.2710	-283.700	2.4710	-261.700	2.2800	0.6724
BSW	USA	-75.50	0.9780	-3.700	1.0650	-4.400	1.1420	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 1812
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	50.400	0.4980	0.8464
BSW	DEA	56.600	0.4400	0.8464
BSW	FRA	100.200	5.1740	0.8100
BSW	GBR	100.460	0.3955	0.7921
BSW	ITA	69.800	0.3050	0.7921
BSW	NLD	-37.607	1.3552	0.7744
BSW	NZL	104.804	13.4498	0.7569
BSW	SVN	46.000	0.5210	0.7921
BSW	USA	171.700	-24.1210	0.7744

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 Conversion Factors For Type. Source = INTERBULL MACE 1812
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CHE

	c	c	f				
	a	o	o		a	b	
	n	u	r		v	v	
b	t	n	t		a	a	
r	r	t	r		l	l	
e	a	r	a		u	u	
e	i	y	i		e	e	
d	t	2	t				
BSW CONFORMATION		CHE FINAL SCORE			-78.097	0.7714	0.76
BSW DAIRY STRENGTH		CHE OVERALL FRAME			-50.434	0.4874	

BSW RUMP	CHE OVERALL RUMP	-30.923	0.3157
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-61.549	0.6114
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.431	0.5514
BSW STATURE	CHE STATURE	-54.152	0.5220
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-57.634	0.5819
BSW CHEST WIDTH	CHE CHEST WIDTH	-76.322	0.7842
BSW BODY DEPTH	CHE BODY DEPTH	-56.262	0.5531
BSW LOIN STRENGTH	CHE TOP LINE	-50.609	0.5298
BSW PIN WIDTH	CHE RUMP WIDTH	-57.439	0.5956
BSW RUMP ANGLE	CHE RUMP ANGLE	-55.646	0.5650
BSW BONE QUALITY	CHE HOCK QUALITY	-58.949	0.5663
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.152	0.3938
BSW HEEL DEPTH	CHE HEEL DEPTH	-60.361	0.6104
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-50.539	0.5087
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.411	0.5260
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-63.590	0.6201
BSW FORE ATTACHMENT	CHE FORE UDDER	-53.581	0.5306
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-49.241	0.4955
BSW TEAT LENGTH	CHE TEAT LENGTH	-40.679	0.3830
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-62.381	0.6117
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-63.522	0.6259
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-45.529	0.4555
BSW ANGULARITY	CHE ANGULARITY	55.704	-0.6085

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Conversion Factors For Type. Source = INTERBULL MACE 1812
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEA

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	o
e	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
BSW CONFORMATION	DEA CONFORMATION	-62.827	0.5825	0.67		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-59.018	0.5449			
BSW RUMP	DEA OVERALL RUMP	-40.810	0.3940			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-42.741	0.4109			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-58.432	0.5456			
BSW STATURE	DEA STATURE	-61.502	0.5731			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-41.109	0.4269			
BSW CHEST WIDTH	DEA CHEST WIDTH	-63.727	0.6340			
BSW BODY DEPTH	DEA BODY DEPTH	-51.914	0.5031			
BSW LOIN STRENGTH	DEA TOP LINE	-55.638	0.5477			
BSW PIN WIDTH	DEA RUMP WIDTH	-51.738	0.5150			
BSW RUMP ANGLE	DEA RUMP ANGLE	-52.220	0.5354			
BSW BONE QUALITY	DEA HOCK QUALITY	-50.758	0.4921			
BSW FOOT ANGLE	DEA FOOT ANGLE	-48.103	0.4619			
BSW HEEL DEPTH	DEA HEEL DEPTH	-49.952	0.4895			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-54.015	0.5361			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.325	0.5030			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-67.574	0.6477			

BSW FORE ATTACHMENT	DEA FORE UDDER	-55.998	0.5452
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-64.527	0.6201
BSW TEAT LENGTH	DEA TEAT LENGTH	-50.320	0.4989
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-53.622	0.4944
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-57.541	0.5413
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-56.849	0.5379

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Conversion Factors For Type. Source = INTERBULL MACE 1812
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=FRA

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	o
e	r	t	r	a	a	r
e	a	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2
BSW CONFORMATION	FRA OVERALL SCORE	-2.512	6.4649	0.66		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.832	6.9623			
BSW RUMP	FRA OVERALL RUMP	-0.360	6.0348			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.168	3.5418			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.077	7.2003			
BSW STATURE	FRA STATURE	-2.847	7.1602			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.938	6.0972			
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.862	7.6260			
BSW BODY DEPTH	FRA BODY DEPTH	-1.432	5.6431			
BSW LOIN STRENGTH	FRA TOP LINE	-0.545	5.2433			
BSW PIN WIDTH	FRA RUMP WIDTH	-0.948	6.8222			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.041	6.7646			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.160	5.8882			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.469	5.2364			
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.110	6.1803			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.247	6.4551			
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.445	6.2101			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	0.134	7.6443			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.732	6.8705			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.049	7.2971			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.597	6.0535			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.912	6.9665			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.525	7.5831			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.640	6.9753			
BSW ANGULARITY	FRA ANGULARITY	-3.836	7.8586			

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

country2=GBR

	c a n t r e e d	c o u n t r y 2	f o r r a i t	a v a l u e	b v a l u e	t c o r r e c t e d
BSW FEET AND LEGS		GBR OVERALL FEET & LEG		-0.954	3.9083	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-2.027	4.9530	
BSW STATURE		GBR STATURE		-3.361	8.9744	
BSW CHEST WIDTH		GBR CHEST WIDTH		-1.302	5.9943	
BSW BODY DEPTH		GBR BODY DEPTH		-0.127	4.2992	
BSW PIN WIDTH		GBR RUMP WIDTH		-0.542	5.7754	
BSW RUMP ANGLE		GBR RUMP ANGLE		0.576	3.5795	
BSW FOOT ANGLE		GBR FOOT ANGLE		0.880	7.5752	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.799	5.8420	
BSW UDDER DEPTH		GBR UDDER DEPTH		-1.119	3.2824	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.548	2.6203	
BSW FORE ATTACHMENT		GBR FORE UDDER		-2.527	4.7475	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-1.143	5.4209	
BSW TEAT LENGTH		GBR TEAT LENGTH		0.541	4.3355	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-0.876	4.5632	
BSW ANGULARITY		GBR ANGULARITY		-2.609	10.6600	

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Conversion Factors For Type. Source = INTERBULL MACE 1812
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

	c a n t r e e d	c o u n t r y 2	f o r r a i t	a v a l u e	b v a l u e	t c o r r e c t e d
BSW CONFORMATION		ITA FINAL SCORE		-77.617	0.7072	0.69
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-35.819	0.3269	
BSW RUMP		ITA OVERALL RUMP		-37.745	0.3566	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-32.972	0.2874	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-69.804	0.6323	
BSW STATURE		ITA STATURE		-47.839	0.4342	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-21.309	0.2214	
BSW CHEST WIDTH		ITA STRENGTH		-30.882	0.2995	
BSW BODY DEPTH		ITA BODY DEPTH		-29.299	0.2841	
BSW LOIN STRENGTH		ITA TOP LINE		-26.449	0.2614	
BSW PIN WIDTH		ITA RUMP WIDTH		-33.281	0.3209	
BSW RUMP ANGLE		ITA RUMP ANGLE		-26.227	0.2753	
BSW BONE QUALITY		ITA HOCK QUALITY		-33.564	0.2934	
BSW FOOT ANGLE		ITA FOOT ANGLE		-29.150	0.2593	
BSW HEEL DEPTH		ITA HEEL DEPTH		-33.333	0.3024	
BSW REAR LEGS SIDE VIEW		ITA REAR LEG SET		-27.386	0.2709	

BSW UDDER DEPTH	ITA UDDER DEPTH	-32.322	0.2903
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-40.925	0.3808
BSW FORE ATTACHMENT	ITA FORE UDDER	-32.683	0.2950
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-29.771	0.2645
BSW TEAT LENGTH	ITA TEAT LENGTH	-29.522	0.3015
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-50.537	0.4463
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-50.094	0.4508
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.491	0.2977

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Conversion Factors For Type. Source = INTERBULL MACE 1812
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	r	r	v	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	-165.564	1.6258	0.61		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-128.492	1.1439			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-149.268	1.5802			
BSW STATURE	NLD STATURE	-139.072	1.3840			
BSW CHEST WIDTH	NLD CHEST WIDTH	-180.961	1.7940			
BSW BODY DEPTH	NLD BODY DEPTH	-128.926	1.3412			
BSW PIN WIDTH	NLD RUMP WIDTH	-157.384	1.7689			
BSW RUMP ANGLE	NLD RUMP ANGLE	-145.852	1.4387			
BSW FOOT ANGLE	NLD FOOT ANGLE	-134.186	1.1643			
BSW HEEL DEPTH	NLD HEEL DEPTH	-143.370	1.2484			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-117.329	1.2333			
BSW UDDER DEPTH	NLD UDDER DEPTH	-146.718	1.4992			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-142.655	1.5077			
BSW FORE ATTACHMENT	NLD FORE UDDER	-131.923	1.3537			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-143.390	1.4117			
BSW TEAT LENGTH	NLD TEAT LENGTH	-116.494	1.1210			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-119.575	1.3126			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-111.825	1.2331			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-144.521	1.4873			
BSW ANGULARITY	NLD ANGULARITY	-151.354	1.5989			

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Conversion Factors For Type. Source = INTERBULL MACE 1812
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=SVN

	c	c	f			
	a	o	o		b	t
n	u	r	r	a	v	c

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	SVN CONFORMATION	-39.177	0.2713	0.62
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-34.282	0.2521	
BSW RUMP	SVN OVERALL RUMP	-25.625	0.2196	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-28.788	0.2287	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-41.121	0.2990	
BSW STATURE	SVN STATURE	-49.402	0.3795	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.321	0.1671	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.569	0.3315	
BSW BODY DEPTH	SVN BODY DEPTH	-23.332	0.2059	
BSW LOIN STRENGTH	SVN TOP LINE	-27.619	0.2697	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.620	0.2492	
BSW RUMP ANGLE	SVN RUMP ANGLE	-27.611	0.2983	
BSW BONE QUALITY	SVN HOCK QUALITY	-34.556	0.2826	
BSW FOOT ANGLE	SVN FOOT ANGLE	-29.924	0.2555	
BSW HEEL DEPTH	SVN HEEL DEPTH	-25.393	0.2247	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-26.583	0.2721	
BSW UDDER DEPTH	SVN UDDER DEPTH	-33.403	0.2771	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-34.252	0.2768	
BSW FORE ATTACHMENT	SVN FORE UDDER	-32.233	0.2438	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-45.183	0.3672	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.525	0.3080	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-42.858	0.3305	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-46.287	0.3660	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.998	0.3620	

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Conversion Factors For Type. Source = INTERBULL MACE 1812
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

b	c	c	f	a	b	t
r	n	u	r	v	v	o
e	t	n	t	a	a	r
e	a	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2

BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)	0.006	10.4302	0.76
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.485	3.8273	
BSW RUMP	USA OVERALL RUMP	-0.260	8.6751	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.295	6.3786	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.064	7.0128	
BSW STATURE	USA STATURE	-0.670	4.0601	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.978	6.4609	
BSW CHEST WIDTH	USA STRENGTH	-0.621	9.3921	
BSW BODY DEPTH	USA BODY DEPTH	-0.058	6.3599	
BSW PIN WIDTH	USA RUMP WIDTH	0.567	8.6090	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.192	5.8525	

BSW FOOT ANGLE	USA FOOT ANGLE	-0.100	9.7227
BSW HEEL DEPTH	USA HEEL DEPTH	0.032	10.3579
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.260	9.5254
BSW UDDER DEPTH	USA UDDER DEPTH	0.016	5.1566
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.062	5.8730
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.567	5.2797
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.410	5.2655
BSW TEAT LENGTH	USA TEAT LENGTH	0.461	4.2180
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.765	5.3417
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	-0.265	6.7999
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.109	4.8807
BSW ANGULARITY	USA ANGULARITY	0.322	5.6002

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2018

BREED	BMILK	BFAT	BPRT
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AYS	7799	325	263
BSW	8516	358	301
CN	5852	252	205
GUE	6576	304	225
JER	6632	336	254
HOL	10222	399	329
MS	6711	268	224

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(399+50*0.5)/(10222+1000*0.5)-(399/1E4)] \\
 &= 200 * [(399+25)/(10222+500)-(0.03903)] \\
 &= 200 * [0.03954 - 0.03903] \\
 &= 200 * 0.00051 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(329+40*0.5)/(10222+1000*0.5)-(329/1E4)] \\
 &= 200 * [(329+20)/(10222+500)-(0.03219)] \\
 &= 200 * [0.03255 - 0.03219] \\
 &= 200 * 0.00036 \\
 &= 0.07
 \end{aligned}$$