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 Conversion Factors For Production Traits. Source: INTERBULL 1908
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-41.64	1.1734	-0.093	1.2684	-1.394	1.3665	0.4900
BSW	CHE	-162.80	1.0220	-6.000	1.0330	-3.600	1.0380	0.7396
BSW	DEA	279.90	1.2770	15.200	1.4000	14.100	1.4200	0.7396
BSW	FRA	63.40	0.9380	4.000	0.9080	4.800	0.9670	0.7056
BSW	GBR	-276.16	2.2007	-8.473	2.5541	-8.257	2.6373	0.7056
BSW	ITA	-75.30	0.9550	0.900	1.0630	2.100	0.9230	0.7225
BSW	NLD	1007.31	0.8665	32.298	0.8996	31.551	0.9142	0.7396
BSW	NZL	323.32	1.3279	36.866	1.2406	17.962	1.4709	0.4900
BSW	SVN	-7275.80	63.0900	-284.200	2.4700	-254.900	2.2150	0.6724
BSW	USA	-104.80	0.9810	-4.600	1.0770	-5.800	1.1670	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 1908
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	46.300	0.5400	0.8464
BSW	DEA	53.500	0.4730	0.8464
BSW	FRA	100.400	5.5850	0.8281
BSW	GBR	100.455	-0.4313	0.8100
BSW	ITA	67.000	0.3340	0.7921
BSW	NLD	-49.928	1.4759	0.7921
BSW	NZL	95.691	-14.7563	0.7569
BSW	SVN	41.800	0.5620	0.7921
BSW	USA	177.800	-26.1720	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1908
 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		-80.065	0.7904	0.74
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-50.723	0.4906	

BSW RUMP	CHE OVERALL RUMP	-29.740	0.3053
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-61.151	0.6109
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-58.141	0.5740
BSW STATURE	CHE STATURE	-54.184	0.5232
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-57.551	0.5816
BSW CHEST WIDTH	CHE CHEST WIDTH	-77.593	0.7996
BSW BODY DEPTH	CHE BODY DEPTH	-55.473	0.5489
BSW LOIN STRENGTH	CHE TOP LINE	-50.634	0.5328
BSW PIN WIDTH	CHE RUMP WIDTH	-56.236	0.5830
BSW RUMP ANGLE	CHE RUMP ANGLE	-57.183	0.5803
BSW BONE QUALITY	CHE HOCK QUALITY	-58.778	0.5662
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.096	0.3928
BSW HEEL DEPTH	CHE HEEL DEPTH	-59.168	0.5994
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-52.100	0.5262
BSW UDDER DEPTH	CHE UDDER DEPTH	-53.848	0.5382
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-69.872	0.6755
BSW FORE ATTACHMENT	CHE FORE UDDER	-54.193	0.5347
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-52.112	0.5220
BSW TEAT LENGTH	CHE TEAT LENGTH	-42.050	0.3948
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-63.367	0.6187
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-67.851	0.6677
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-47.209	0.4720
BSW ANGULARITY	CHE ANGULARITY	58.251	-0.6384

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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	-66.282	0.6113	0.67		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-61.727	0.5673			
BSW RUMP	DEA OVERALL RUMP	-41.579	0.4001			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-43.151	0.4165			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-62.708	0.5799			
BSW STATURE	DEA STATURE	-61.428	0.5711			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-41.813	0.4373			
BSW CHEST WIDTH	DEA CHEST WIDTH	-65.896	0.6502			
BSW BODY DEPTH	DEA BODY DEPTH	-51.279	0.4949			
BSW LOIN STRENGTH	DEA TOP LINE	-55.176	0.5439			
BSW PIN WIDTH	DEA RUMP WIDTH	-51.220	0.5140			
BSW RUMP ANGLE	DEA RUMP ANGLE	-53.815	0.5523			
BSW BONE QUALITY	DEA HOCK QUALITY	-49.956	0.4843			
BSW FOOT ANGLE	DEA FOOT ANGLE	-48.959	0.4696			
BSW HEEL DEPTH	DEA HEEL DEPTH	-52.499	0.5138			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-56.262	0.5549			
BSW UDDER DEPTH	DEA UDDER DEPTH	-53.507	0.5118			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-75.035	0.7119			

BSW FORE ATTACHMENT	DEA FORE UDDER	-57.139	0.5536
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-66.978	0.6448
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.085	0.5157
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-54.844	0.5040
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-62.429	0.5792
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-58.330	0.5556

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Conversion Factors For Type. Source = INTERBULL MACE 1908
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	-2.932	6.6097	0.66		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-3.170	7.0153			
BSW RUMP	FRA OVERALL RUMP	-0.415	5.9358			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.050	3.6508			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.595	7.7027			
BSW STATURE	FRA STATURE	-2.908	7.0535			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.872	6.3892			
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.922	7.8063			
BSW BODY DEPTH	FRA BODY DEPTH	-1.359	5.5859			
BSW LOIN STRENGTH	FRA TOP LINE	-0.691	5.1635			
BSW PIN WIDTH	FRA RUMP WIDTH	-0.885	6.7958			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.174	6.9492			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.136	5.7805			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.219	5.2477			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.080	6.0439			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.242	6.5751			
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.439	6.4077			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.426	8.2661			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.740	7.1552			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.216	7.5123			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.317	6.2493			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-2.449	7.0058			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-2.026	7.9222			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.595	7.0884			
BSW ANGULARITY	FRA ANGULARITY	-4.255	8.1934			

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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
BSW FEET AND LEGS				-0.914	4.0007	
BSW MAMMARY SYSTEM				-3.086	5.1452	
BSW STATURE				-3.982	8.8274	
BSW CHEST WIDTH				-1.583	6.1624	
BSW BODY DEPTH				-0.099	4.3552	
BSW PIN WIDTH				-0.777	5.8093	
BSW RUMP ANGLE				0.737	3.7375	
BSW FOOT ANGLE				0.680	7.4646	
BSW REAR LEGS SIDE VIEW				-2.744	6.1446	
BSW UDDER DEPTH				-1.606	3.3631	
BSW MEDIAN SUSPENSORY				-1.349	2.9032	
BSW FORE ATTACHMENT				-2.895	4.9025	
BSW TEAT PLACEMENT				-1.473	5.6261	
BSW TEAT LENGTH				0.486	4.4564	
BSW REAR ATTACHMENT HEIGHT				-1.471	4.6714	
BSW ANGULARITY				-3.206	10.7875	

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Conversion Factors For Type. Source = INTERBULL MACE 1908
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
BSW CONFORMATION				-81.348	0.7386	0.69
BSW DAIRY STRENGTH				-38.356	0.3445	
BSW RUMP				-38.242	0.3599	
BSW FEET AND LEGS				-35.641	0.3137	
BSW MAMMARY SYSTEM				-75.897	0.6834	
BSW STATURE				-48.393	0.4370	
BSW THURL PLACEMENT				-21.486	0.2258	
BSW CHEST WIDTH				-31.499	0.3041	
BSW BODY DEPTH				-29.068	0.2826	
BSW LOIN STRENGTH				-26.619	0.2613	
BSW PIN WIDTH				-33.375	0.3185	
BSW RUMP ANGLE				-26.859	0.2810	
BSW BONE QUALITY				-33.330	0.2938	
BSW FOOT ANGLE				-29.365	0.2603	
BSW HEEL DEPTH				-32.957	0.2992	
BSW REAR LEGS SIDE VIEW				-28.284	0.2792	

BSW UDDER DEPTH	ITA UDDER DEPTH	-33.628	0.2998
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-44.910	0.4108
BSW FORE ATTACHMENT	ITA FORE UDDER	-33.562	0.2997
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-31.857	0.2813
BSW TEAT LENGTH	ITA TEAT LENGTH	-30.909	0.3121
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-53.504	0.4708
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-54.947	0.4924
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.521	0.3060

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Conversion Factors For Type. Source = INTERBULL MACE 1908
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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

BSW CONFORMATION	NLD CONFORMATION	-169.936	1.6608	0.59
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-131.192	1.1679	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-155.753	1.6370	
BSW STATURE	NLD STATURE	-140.298	1.3923	
BSW CHEST WIDTH	NLD CHEST WIDTH	-184.279	1.8248	
BSW BODY DEPTH	NLD BODY DEPTH	-127.453	1.3264	
BSW PIN WIDTH	NLD RUMP WIDTH	-153.013	1.7151	
BSW RUMP ANGLE	NLD RUMP ANGLE	-149.637	1.4775	
BSW FOOT ANGLE	NLD FOOT ANGLE	-132.197	1.1448	
BSW HEEL DEPTH	NLD HEEL DEPTH	-141.004	1.2263	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-121.188	1.2743	
BSW UDDER DEPTH	NLD UDDER DEPTH	-149.849	1.5272	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-158.274	1.6631	
BSW FORE ATTACHMENT	NLD FORE UDDER	-134.157	1.3724	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-152.591	1.4986	
BSW TEAT LENGTH	NLD TEAT LENGTH	-119.720	1.1537	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-125.095	1.3668	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-121.425	1.3301	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-148.678	1.5282	
BSW ANGULARITY	NLD ANGULARITY	-157.251	1.6564	

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Conversion Factors For Type. Source = INTERBULL MACE 1908
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=SVN

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

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	-42.185	0.2892	0.62
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-35.696	0.2592	
BSW RUMP	SVN OVERALL RUMP	-26.162	0.2216	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-28.996	0.2300	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-44.921	0.3199	
BSW STATURE	SVN STATURE	-49.477	0.3789	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.319	0.1689	
BSW CHEST WIDTH	SVN CHEST WIDTH	-33.874	0.3431	
BSW BODY DEPTH	SVN BODY DEPTH	-23.597	0.2098	
BSW LOIN STRENGTH	SVN TOP LINE	-27.790	0.2718	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.756	0.2476	
BSW RUMP ANGLE	SVN RUMP ANGLE	-27.870	0.3019	
BSW BONE QUALITY	SVN HOCK QUALITY	-35.053	0.2868	
BSW FOOT ANGLE	SVN FOOT ANGLE	-28.150	0.2413	
BSW HEEL DEPTH	SVN HEEL DEPTH	-25.265	0.2215	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-27.031	0.2763	
BSW UDDER DEPTH	SVN UDDER DEPTH	-34.757	0.2855	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-37.678	0.2990	
BSW FORE ATTACHMENT	SVN FORE UDDER	-34.200	0.2592	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-47.945	0.3872	
BSW TEAT LENGTH	SVN TEAT LENGTH	-28.538	0.3198	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-44.992	0.3441	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-51.759	0.4056	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-45.458	0.3726	

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 Conversion Factors For Type. Source = INTERBULL MACE 1908
 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	c
e	t	n	t	a	a	o
e	r	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)	-0.888	10.8122	0.74
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.987	3.9012	
BSW RUMP	USA OVERALL RUMP	-0.604	8.8784	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.203	5.9401	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-0.951	7.6408	
BSW STATURE	USA STATURE	-1.094	4.0468	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.789	6.4329	
BSW CHEST WIDTH	USA STRENGTH	-0.862	9.6912	
BSW BODY DEPTH	USA BODY DEPTH	0.009	6.2188	
BSW PIN WIDTH	USA RUMP WIDTH	-0.055	8.8711	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.236	5.9802	

BSW FOOT ANGLE	USA FOOT ANGLE	-0.166	9.6243
BSW HEEL DEPTH	USA HEEL DEPTH	-0.155	10.1340
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.267	9.7488
BSW UDDER DEPTH	USA UDDER DEPTH	-0.373	5.3048
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	0.402	6.5983
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.144	5.3844
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.940	5.6158
BSW TEAT LENGTH	USA TEAT LENGTH	0.492	4.3243
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-1.525	5.5003
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	-1.038	7.2048
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.541	5.2635
BSW ANGULARITY	USA ANGULARITY	-0.249	5.7584

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2019

BREED	BMILK	BFAT	BPRT
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AYS	7814	325	264
BSW	8650	366	305
CN	6147	264	217
GUE	6749	313	231
JER	6737	343	259
HOL	10399	407	336
MS	6588	262	220

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(407 + 50 * 0.5) / (10399 + 1000 * 0.5) - (407 / 1E4)] \\
 &= 200 * [(407 + 25) / (10399 + 500) - (0.03914)] \\
 &= 200 * [0.03964 - 0.03914] \\
 &= 200 * 0.00050 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(336 + 40 * 0.5) / (10399 + 1000 * 0.5) - (336 / 1E4)] \\
 &= 200 * [(336 + 20) / (10399 + 500) - (0.03231)] \\
 &= 200 * [0.03266 - 0.03231] \\
 &= 200 * 0.00035 \\
 &= 0.07
 \end{aligned}$$