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 Conversion Factors For Production Traits. Source: INTERBULL 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-25.56	1.1845	0.923	1.2397	0.615	1.3162	0.4900
BSW	CHE	-227.20	1.1470	-8.200	1.1590	-6.000	1.2200	0.7396
BSW	DEA	147.20	1.2360	8.600	1.3610	9.800	1.4060	0.7569
BSW	FRA	74.20	0.8940	3.800	0.8710	4.500	0.9250	0.7056
BSW	GBR	-154.83	2.1703	-4.841	2.6168	-2.995	2.6483	0.7225
BSW	ITA	-112.00	0.9080	-0.600	1.0300	1.300	0.8820	0.7225
BSW	NLD	1116.83	0.9142	33.089	0.8908	35.385	0.9557	0.7396
BSW	NZL	294.96	1.2831	36.366	1.2376	19.532	1.4974	0.4900
BSW	SVN	-7165.10	61.9320	-283.900	2.4570	-256.300	2.2280	0.6889
BSW	USA	-39.70	0.9640	-2.400	1.0300	-2.500	1.1150	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 1712
 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	2.900	-0.2230	0.8836
BSW	GBR	2.972	0.0175	0.8649
BSW	ITA	4.200	-0.0120	0.8100
BSW	NLD	-2.952	0.0583	0.8100
BSW	NZL	3.163	0.5752	0.7569
BSW	SVN	5.200	-0.0210	0.7921
BSW	USA	-0.100	1.0660	0.8464

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 Conversion Factors For Type. Source = INTERBULL MACE 1712
 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		-80.622	0.7964	0.76
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-51.569	0.4988	

BSW RUMP	CHE OVERALL RUMP	-33.699	0.3469
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-59.928	0.5919
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.230	0.5513
BSW STATURE	CHE STATURE	-56.238	0.5393
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-59.479	0.6000
BSW CHEST WIDTH	CHE CHEST WIDTH	-78.195	0.8080
BSW BODY DEPTH	CHE BODY DEPTH	-54.821	0.5398
BSW LOIN STRENGTH	CHE TOP LINE	-52.738	0.5539
BSW PIN WIDTH	CHE RUMP WIDTH	-56.800	0.5887
BSW RUMP ANGLE	CHE RUMP ANGLE	-53.183	0.5396
BSW BONE QUALITY	CHE HOCK QUALITY	-58.559	0.5613
BSW FOOT ANGLE	CHE FOOT ANGLE	-39.807	0.3877
BSW HEEL DEPTH	CHE HEEL DEPTH	-57.385	0.5782
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-48.432	0.4925
BSW UDDER DEPTH	CHE UDDER DEPTH	-53.089	0.5317
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-64.880	0.6337
BSW FORE ATTACHMENT	CHE FORE UDDER	-53.224	0.5297
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-50.267	0.4991
BSW TEAT LENGTH	CHE TEAT LENGTH	-40.742	0.3848
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-59.550	0.5853
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-62.779	0.6197
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-46.834	0.4661
BSW ANGULARITY	CHE ANGULARITY	56.230	-0.6210

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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	c
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	-63.786	0.5897	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-62.077	0.5702			
BSW RUMP	DEA OVERALL RUMP	-40.892	0.3979			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-40.086	0.3800			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-61.323	0.5767			
BSW STATURE	DEA STATURE	-64.106	0.5920			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-41.374	0.4359			
BSW CHEST WIDTH	DEA CHEST WIDTH	-61.992	0.6191			
BSW BODY DEPTH	DEA BODY DEPTH	-50.767	0.4907			
BSW LOIN STRENGTH	DEA TOP LINE	-57.635	0.5743			
BSW PIN WIDTH	DEA RUMP WIDTH	-53.357	0.5308			
BSW RUMP ANGLE	DEA RUMP ANGLE	-49.794	0.5105			
BSW BONE QUALITY	DEA HOCK QUALITY	-53.798	0.5222			
BSW FOOT ANGLE	DEA FOOT ANGLE	-49.628	0.4738			
BSW HEEL DEPTH	DEA HEEL DEPTH	-51.031	0.4981			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-53.580	0.5364			
BSW UDDER DEPTH	DEA UDDER DEPTH	-53.301	0.5119			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-67.147	0.6390			

BSW FORE ATTACHMENT	DEA FORE UDDER	-54.163	0.5264
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-63.771	0.6045
BSW TEAT LENGTH	DEA TEAT LENGTH	-48.500	0.4815
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-48.843	0.4435
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-55.826	0.5280
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-61.965	0.5845

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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	-2.615	6.5036	0.67		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-3.012	7.0955			
BSW RUMP	FRA OVERALL RUMP	-0.214	6.3274			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.351	3.4010			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.239	6.9555			
BSW STATURE	FRA STATURE	-3.038	7.5350			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.383	6.9259			
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.688	7.7947			
BSW BODY DEPTH	FRA BODY DEPTH	-1.252	5.5352			
BSW LOIN STRENGTH	FRA TOP LINE	-0.377	5.5099			
BSW PIN WIDTH	FRA RUMP WIDTH	-1.320	6.7398			
BSW RUMP ANGLE	FRA RUMP ANGLE	1.884	6.4614			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.130	5.8339			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.709	5.3757			
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.638	6.0334			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-0.972	6.4532			
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.972	6.2140			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.095	7.7892			
BSW FORE ATTACHMENT	FRA FORE UDDER	-2.335	6.5877			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.513	7.2385			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.868	6.1015			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.627	6.8433			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.370	7.4041			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.972	7.1141			
BSW ANGULARITY	FRA ANGULARITY	-3.991	8.0543			

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Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o		a	b
	n	u	r		v	v
	t	n	t		a	a
	r	t	r		l	l
	a	r	a		u	u
	i	y	i		e	e
	t	2	t			
						t
						c
						o
						r
						r
						2
BSW FEET AND LEGS		GBR OVERALL FEET & LEG		-0.764		3.8852
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-1.669		4.8428
BSW STATURE		GBR STATURE		-3.447		8.2515
BSW CHEST WIDTH		GBR CHEST WIDTH		-0.915		5.7563
BSW BODY DEPTH		GBR BODY DEPTH		-0.024		4.2540
BSW PIN WIDTH		GBR RUMP WIDTH		-0.732		5.7170
BSW RUMP ANGLE		GBR RUMP ANGLE		1.025		3.3047
BSW FOOT ANGLE		GBR FOOT ANGLE		0.509		7.1820
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.840		5.4107
BSW UDDER DEPTH		GBR UDDER DEPTH		-0.973		3.4296
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.742		2.6950
BSW FORE ATTACHMENT		GBR FORE UDDER		-3.054		5.2404
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-1.513		5.2703
BSW TEAT LENGTH		GBR TEAT LENGTH		0.469		4.1945
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-1.043		4.4598
BSW ANGULARITY		GBR ANGULARITY		-2.776		9.5916

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

	c	c	f			
	a	o	o		a	b
	n	u	r		v	v
	t	n	t		a	a
	r	t	r		l	l
	a	r	a		u	u
	i	y	i		e	e
	t	2	t			
						t
						c
						o
						r
						r
						2
BSW CONFORMATION		ITA FINAL SCORE		-78.391		0.7103 0.69
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-36.039		0.3291
BSW RUMP		ITA OVERALL RUMP		-38.596		0.3671
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-32.590		0.2813
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-53.688		0.4728
BSW STATURE		ITA STATURE		-49.732		0.4502
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-20.857		0.2174
BSW CHEST WIDTH		ITA STRENGTH		-31.401		0.3032
BSW BODY DEPTH		ITA BODY DEPTH		-28.735		0.2768
BSW LOIN STRENGTH		ITA TOP LINE		-27.672		0.2749
BSW PIN WIDTH		ITA RUMP WIDTH		-31.886		0.3043
BSW RUMP ANGLE		ITA RUMP ANGLE		-24.839		0.2624
BSW BONE QUALITY		ITA HOCK QUALITY		-33.313		0.2880
BSW FOOT ANGLE		ITA FOOT ANGLE		-27.264		0.2400
BSW HEEL DEPTH		ITA HEEL DEPTH		-31.942		0.2869
BSW REAR LEGS SIDE VIEW		ITA REAR LEG SET		-26.381		0.2655

BSW UDDER DEPTH	ITA UDDER DEPTH	-32.808	0.2935
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.017	0.3897
BSW FORE ATTACHMENT	ITA FORE UDDER	-32.311	0.2934
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-29.624	0.2613
BSW TEAT LENGTH	ITA TEAT LENGTH	-28.787	0.2977
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-48.232	0.4247
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-48.423	0.4317
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.125	0.3030

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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	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		NLD CONFORMATION		-176.951	1.7411	0.61
BSW FEET AND LEGS		NLD OVERALL FEET & LEG		-128.410	1.1410	
BSW MAMMARY SYSTEM		NLD OVERALL UDDER SCORE		-148.504	1.5779	
BSW STATURE		NLD STATURE		-140.859	1.4026	
BSW CHEST WIDTH		NLD CHEST WIDTH		-177.731	1.7658	
BSW BODY DEPTH		NLD BODY DEPTH		-123.997	1.2908	
BSW PIN WIDTH		NLD RUMP WIDTH		-151.265	1.7013	
BSW RUMP ANGLE		NLD RUMP ANGLE		-138.635	1.3662	
BSW FOOT ANGLE		NLD FOOT ANGLE		-126.365	1.0918	
BSW HEEL DEPTH		NLD HEEL DEPTH		-132.173	1.1460	
BSW REAR LEGS SIDE VIEW		NLD REAR LEG SET		-110.757	1.1670	
BSW UDDER DEPTH		NLD UDDER DEPTH		-149.336	1.5265	
BSW MEDIAN SUSPENSORY		NLD MEDIAN SUSPENSORY		-139.673	1.4801	
BSW FORE ATTACHMENT		NLD FORE UDDER		-134.927	1.3869	
BSW TEAT PLACEMENT		NLD FRONT TEAT PLACEMENT		-143.859	1.4165	
BSW TEAT LENGTH		NLD TEAT LENGTH		-116.425	1.1174	
BSW REAR ATTACHMENT HEIGHT		NLD REAR UDDER HEIGHT		-115.470	1.2717	
BSW REAR ATTACHMENT WIDTH		NLD REAR UDDER WIDTH		-112.345	1.2416	
BSW REAR TEAT PLACEMENT		NLD REAR TEAT PLACEMENT		-143.309	1.4758	
BSW ANGULARITY		NLD ANGULARITY		-150.757	1.5932	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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	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	-39.109	0.2710	0.62
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-34.339	0.2528	
BSW RUMP	SVN OVERALL RUMP	-26.368	0.2275	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-27.389	0.2134	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-38.917	0.2836	
BSW STATURE	SVN STATURE	-50.558	0.3861	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.136	0.1651	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.625	0.3352	
BSW BODY DEPTH	SVN BODY DEPTH	-22.357	0.1953	
BSW LOIN STRENGTH	SVN TOP LINE	-28.671	0.2840	
BSW PIN WIDTH	SVN RUMP WIDTH	-27.497	0.2370	
BSW RUMP ANGLE	SVN RUMP ANGLE	-25.826	0.2791	
BSW BONE QUALITY	SVN HOCK QUALITY	-34.075	0.2754	
BSW FOOT ANGLE	SVN FOOT ANGLE	-29.944	0.2523	
BSW HEEL DEPTH	SVN HEEL DEPTH	-24.209	0.2123	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-25.417	0.2631	
BSW UDDER DEPTH	SVN UDDER DEPTH	-33.371	0.2778	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-34.418	0.2782	
BSW FORE ATTACHMENT	SVN FORE UDDER	-32.172	0.2436	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-45.984	0.3724	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.449	0.3061	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-40.166	0.3111	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-44.528	0.3514	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-45.175	0.3704	

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 Conversion Factors For Type. Source = INTERBULL MACE 1712
 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	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2

BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)	0.714	10.5139	0.76
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.123	3.8556	
BSW RUMP	USA OVERALL RUMP	0.370	9.2817	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.459	6.0286	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.528	6.6171	
BSW STATURE	USA STATURE	-0.498	4.1718	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.996	6.6435	
BSW CHEST WIDTH	USA STRENGTH	-0.220	9.3813	
BSW BODY DEPTH	USA BODY DEPTH	-0.120	6.2908	
BSW PIN WIDTH	USA RUMP WIDTH	0.613	8.5214	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.117	5.4717	

BSW FOOT ANGLE	USA FOOT ANGLE	-0.615	9.0687
BSW HEEL DEPTH	USA HEEL DEPTH	-0.301	9.6710
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.090	9.1548
BSW UDDER DEPTH	USA UDDER DEPTH	0.118	5.1698
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.156	5.8073
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.933	5.1209
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.441	5.2228
BSW TEAT LENGTH	USA TEAT LENGTH	0.306	4.1595
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.244	5.0579
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	-0.046	6.7380
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.079	5.0242
BSW ANGULARITY	USA ANGULARITY	0.388	5.6792

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2017

BREED	BMILK	BFAT	BPRT
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AYS	7672	318	259
BSW	8298	351	293
CN	5624	246	202
GUE	6778	314	234
JER	6549	329	251
HOL	10093	391	324
MS	6673	258	221

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(391+50*0.5)/(10093+1000*0.5)-(391/1E4)] \\
 &= 200 * [(391+25)/(10093+500)-(0.03874)] \\
 &= 200 * [0.03927 - 0.03874] \\
 &= 200 * 0.00053 \\
 &= 0.11
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(324+40*0.5)/(10093+1000*0.5)-(324/1E4)] \\
 &= 200 * [(324+20)/(10093+500)-(0.03210)] \\
 &= 200 * [0.03247 - 0.03210] \\
 &= 200 * 0.00037 \\
 &= 0.07
 \end{aligned}$$