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 Conversion Factors For Production Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-123.14	1.2437	-6.392	1.3127	-3.673	1.3363	0.4624
BSW	CHE	-73.30	1.1330	-4.100	1.1060	0.600	1.1190	0.6889
BSW	DEA	274.10	1.2630	14.700	1.4160	13.200	1.3540	0.6084
BSW	FRA	121.30	0.9570	5.600	0.9850	8.500	1.0430	0.6889
BSW	GBR	9.43	1.9201	0.903	2.2886	3.918	2.2995	0.6889
BSW	ITA	-365.30	0.9690	-10.300	1.0860	-8.700	0.9420	0.6889
BSW	NLD	1391.08	0.8820	52.484	0.9284	47.383	0.9042	0.7056
BSW	NZL	-4.58	0.9534	16.803	0.8713	5.162	0.8893	0.3721
BSW	SVN	-6639.70	58.9870	-267.800	2.3970	-227.700	2.0280	0.4356
BSW	USA	-84.90	0.9610	-3.600	1.0870	-4.700	1.1400	0.7744

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 Conversion Factors For SCS Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	44.800	0.5590	0.8100
BSW	DEA	52.300	0.4900	0.7744
BSW	FRA	101.700	5.7290	0.8281
BSW	GBR	100.783	-0.5264	0.8649
BSW	ITA	61.500	0.3760	0.7744
BSW	NLD	-55.709	1.6007	0.7921
BSW	NZL	96.743	-12.4457	0.5041
BSW	SVN	46.500	0.5180	0.6400
BSW	USA	182.900	-27.8130	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 2308
 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	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		CHE FINAL SCORE		-67.092	0.6726	0.66
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-44.268	0.4414	

BSW RUMP	CHE OVERALL RUMP	-26.617	0.2875
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-57.874	0.5876
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-50.416	0.5072
BSW STATURE	CHE STATURE	-48.633	0.4835
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-51.823	0.5310
BSW CHEST WIDTH	CHE CHEST WIDTH	-72.050	0.7482
BSW BODY DEPTH	CHE BODY DEPTH	-56.065	0.5569
BSW LOIN STRENGTH	CHE TOP LINE	-45.538	0.4970
BSW PIN WIDTH	CHE RUMP WIDTH	-53.860	0.5605
BSW RUMP ANGLE	CHE RUMP ANGLE	-57.007	0.5809
BSW BONE QUALITY	CHE HOCK QUALITY	-64.516	0.6219
BSW FOOT ANGLE	CHE FOOT ANGLE	-41.316	0.4071
BSW HEEL DEPTH	CHE HEEL DEPTH	-55.094	0.5594
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-53.736	0.5405
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.681	0.5318
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-66.506	0.6567
BSW FORE ATTACHMENT	CHE FORE UDDER	-48.180	0.4824
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-51.990	0.5276
BSW TEAT LENGTH	CHE TEAT LENGTH	-42.080	0.4056
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-55.909	0.5554
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-62.863	0.6331
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-44.890	0.4598
BSW ANGULARITY	CHE ANGULARITY	61.068	-0.6681

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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	a	r
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	-61.640	0.5650	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-54.177	0.4996			
BSW RUMP	DEA OVERALL RUMP	-45.706	0.4433			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-45.356	0.4287			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-59.329	0.5467			
BSW STATURE	DEA STATURE	-58.315	0.5446			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-44.464	0.4640			
BSW CHEST WIDTH	DEA CHEST WIDTH	-60.711	0.5929			
BSW BODY DEPTH	DEA BODY DEPTH	-53.471	0.5117			
BSW LOIN STRENGTH	DEA TOP LINE	-53.359	0.5281			
BSW PIN WIDTH	DEA RUMP WIDTH	-52.226	0.5073			
BSW RUMP ANGLE	DEA RUMP ANGLE	-55.641	0.5674			
BSW BONE QUALITY	DEA HOCK QUALITY	-54.865	0.5300			
BSW FOOT ANGLE	DEA FOOT ANGLE	-51.417	0.4926			
BSW HEEL DEPTH	DEA HEEL DEPTH	-54.492	0.5190			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-58.707	0.5748			
BSW UDDER DEPTH	DEA UDDER DEPTH	-54.569	0.5176			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-72.664	0.7007			

BSW FORE ATTACHMENT	DEA FORE UDDER	-53.089	0.5029
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-68.843	0.6577
BSW TEAT LENGTH	DEA TEAT LENGTH	-53.125	0.5413
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-52.441	0.4862
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-62.154	0.5864
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-57.893	0.5535

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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	-2.820	5.8345	0.55		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.257	5.8742			
BSW RUMP	FRA OVERALL RUMP	0.409	6.0297			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.680	4.0087			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-1.907	7.6195			
BSW STATURE	FRA STATURE	-1.263	6.7515			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.583	5.8727			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.261	7.5890			
BSW BODY DEPTH	FRA BODY DEPTH	-1.831	5.3948			
BSW LOIN STRENGTH	FRA TOP LINE	0.372	5.1680			
BSW PIN WIDTH	FRA RUMP WIDTH	1.561	7.0940			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.250	6.9676			
BSW BONE QUALITY	FRA HOCK QUALITY	-1.558	6.5832			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.330	6.2549			
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.513	5.8353			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.370	6.8061			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.900	6.5048			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.947	7.9295			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.259	7.0153			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-1.770	7.9808			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.791	6.5801			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.693	6.5147			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.649	8.1072			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.258	7.1113			
BSW ANGULARITY	FRA ANGULARITY	-4.069	8.5039			

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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 CONFORMATION				-2.650	3.3214	0.56
BSW FEET AND LEGS				-1.119	3.7734	
BSW MAMMARY SYSTEM				-2.333	3.6291	
BSW STATURE				-0.385	7.1041	
BSW CHEST WIDTH				0.467	4.9480	
BSW BODY DEPTH				-0.140	3.5680	
BSW PIN WIDTH				1.323	5.3961	
BSW RUMP ANGLE				0.262	3.4374	
BSW FOOT ANGLE				-0.078	5.6042	
BSW REAR LEGS SIDE VIEW				-2.204	4.4307	
BSW UDDER DEPTH				-1.865	3.0793	
BSW MEDIAN SUSPENSORY				-0.806	2.4908	
BSW FORE ATTACHMENT				-3.023	4.4666	
BSW TEAT PLACEMENT				-0.440	5.1213	
BSW TEAT LENGTH				0.097	4.1882	
BSW REAR ATTACHMENT HEIGHT				-0.754	3.0690	
BSW ANGULARITY				-2.149	9.8967	

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 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				-76.094	0.6962	0.59
BSW DAIRY STRENGTH				-35.249	0.3166	
BSW RUMP				-40.327	0.3845	
BSW FEET AND LEGS				-33.721	0.2991	
BSW MAMMARY SYSTEM				-73.229	0.6701	
BSW STATURE				-48.906	0.4435	
BSW THURL PLACEMENT				-20.093	0.2140	
BSW CHEST WIDTH				-30.555	0.2984	
BSW BODY DEPTH				-31.642	0.3014	
BSW LOIN STRENGTH				-26.178	0.2601	
BSW PIN WIDTH				-34.323	0.3287	
BSW RUMP ANGLE				-26.609	0.2773	
BSW BONE QUALITY				-35.862	0.3246	
BSW FOOT ANGLE				-34.566	0.3071	
BSW HEEL DEPTH				-35.165	0.3169	

BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-29.993	0.2961
BSW UDDER DEPTH	ITA UDDER DEPTH	-35.557	0.3199
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.270	0.3898
BSW FORE ATTACHMENT	ITA FORE UDDER	-34.074	0.3004
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-34.476	0.3081
BSW TEAT LENGTH	ITA TEAT LENGTH	-33.293	0.3408
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-46.614	0.4168
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-52.210	0.4776
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.238	0.3115

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Conversion Factors For Type. Source = INTERBULL MACE 2308
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	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	NLD CONFORMATION	-140.242	1.4378	0.53		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-128.979	1.1853			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-126.181	1.3774			
BSW STATURE	NLD STATURE	-138.145	1.4116			
BSW CHEST WIDTH	NLD CHEST WIDTH	-149.650	1.5018			
BSW BODY DEPTH	NLD BODY DEPTH	-118.321	1.2474			
BSW PIN WIDTH	NLD RUMP WIDTH	-146.069	1.6547			
BSW RUMP ANGLE	NLD RUMP ANGLE	-143.587	1.4187			
BSW FOOT ANGLE	NLD FOOT ANGLE	-150.691	1.3217			
BSW HEEL DEPTH	NLD HEEL DEPTH	-144.529	1.2639			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-126.876	1.3295			
BSW UDDER DEPTH	NLD UDDER DEPTH	-142.045	1.5005			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-156.592	1.6658			
BSW FORE ATTACHMENT	NLD FORE UDDER	-119.162	1.2508			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-143.910	1.4425			
BSW TEAT LENGTH	NLD TEAT LENGTH	-124.325	1.2149			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-117.451	1.3231			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-119.851	1.3526			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-138.150	1.4352			
BSW ANGULARITY	NLD ANGULARITY	-165.432	1.7911			

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Conversion Factors For Type. Source = INTERBULL MACE 2308
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=SVN

c	c	f
a	o	o

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

BSW CONFORMATION	SVN CONFORMATION	-36.509	0.2426	0.35
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-31.061	0.2295	
BSW RUMP	SVN OVERALL RUMP	-26.047	0.2183	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-29.923	0.2317	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-42.498	0.3027	
BSW STATURE	SVN STATURE	-45.231	0.3536	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-15.767	0.1612	
BSW CHEST WIDTH	SVN CHEST WIDTH	-29.689	0.2950	
BSW BODY DEPTH	SVN BODY DEPTH	-25.851	0.2319	
BSW LOIN STRENGTH	SVN TOP LINE	-25.869	0.2470	
BSW PIN WIDTH	SVN RUMP WIDTH	-29.521	0.2566	
BSW RUMP ANGLE	SVN RUMP ANGLE	-25.206	0.2733	
BSW BONE QUALITY	SVN HOCK QUALITY	-37.558	0.3120	
BSW FOOT ANGLE	SVN FOOT ANGLE	-31.953	0.2735	
BSW HEEL DEPTH	SVN HEEL DEPTH	-23.749	0.2050	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-29.463	0.2937	
BSW UDDER DEPTH	SVN UDDER DEPTH	-32.830	0.2662	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-39.335	0.3217	
BSW FORE ATTACHMENT	SVN FORE UDDER	-30.743	0.2285	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-47.549	0.3805	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.014	0.3160	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-34.353	0.2631	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-41.786	0.3285	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-42.308	0.3486	

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

country2=USA

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

BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)	0.558	12.4550	0.64
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.246	3.2429	
BSW RUMP	USA OVERALL RUMP	0.010	7.0009	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	1.272	6.0534	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.617	8.9475	
BSW STATURE	USA STATURE	0.179	3.8177	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.674	4.8864	
BSW CHEST WIDTH	USA STRENGTH	0.410	8.1631	
BSW BODY DEPTH	USA BODY DEPTH	0.440	6.2791	
BSW PIN WIDTH	USA RUMP WIDTH	-0.068	6.9059	

BSW RUMP ANGLE	USA RUMP ANGLE	-1.487	5.0350
BSW FOOT ANGLE	USA FOOT ANGLE	0.612	8.4880
BSW HEEL DEPTH	USA HEEL DEPTH	-0.212	8.0736
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.075	9.3210
BSW UDDER DEPTH	USA UDDER DEPTH	0.254	5.3710
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.204	6.8515
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.402	5.1353
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.307	5.1359
BSW TEAT LENGTH	USA TEAT LENGTH	0.939	3.6081
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.038	5.7510
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.073	7.1708
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.441	4.5489
BSW ANGULARITY	USA ANGULARITY	0.525	6.8016

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2023

BREED	BMILK	BFAT	BPRT
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AYS	8079	337	277
BSW	8742	370	313
CN	5847	253	210
GUE	7418	335	255
JER	7090	366	276
HOL	10961	437	361
MS	6971	275	237

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(437+50*0.5) / (10961+1000*0.5) - (437/11E3)] \\
 &= 200 * [(437+25) / (10961+500) - (0.03987)] \\
 &= 200 * [0.04031 - 0.03987] \\
 &= 200 * 0.00044 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(361+40*0.5) / (10961+1000*0.5) - (361/11E3)] \\
 &= 200 * [(361+20) / (10961+500) - (0.03293)] \\
 &= 200 * [0.03324 - 0.03293] \\
 &= 200 * 0.00031 \\
 &= 0.06
 \end{aligned}$$