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 Conversion Factors For Production Traits. Source: INTERBULL 2204
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-88.33	1.2190	-4.770	1.3048	-2.663	1.3154	0.4761
BSW	CHE	-100.40	1.1330	-4.400	1.1230	-0.700	1.1380	0.7056
BSW	DEA	234.20	1.2720	13.300	1.4300	12.000	1.3840	0.6400
BSW	FRA	138.30	0.9490	6.300	0.9710	8.700	1.0300	0.6889
BSW	GBR	11.34	1.8748	1.158	2.1505	3.743	2.2171	0.7056
BSW	ITA	-372.70	0.9530	-10.100	1.0830	-9.000	0.9320	0.7056
BSW	NLD	1200.37	0.8643	42.950	0.9297	40.285	0.9195	0.7225
BSW	NZL	140.94	0.9657	22.280	0.9260	8.738	0.9050	0.3481
BSW	SVN	-7625.70	67.2020	-289.600	2.5490	-255.100	2.2430	0.4900
BSW	USA	-27.20	0.9620	-1.100	1.0820	-2.000	1.1190	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 2204
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	44.600	0.5590	0.8100
BSW	DEA	52.300	0.4870	0.8100
BSW	FRA	101.200	5.7580	0.8464
BSW	GBR	100.649	-0.5106	0.8464
BSW	ITA	62.100	0.3650	0.7744
BSW	NLD	-44.383	1.4597	0.7921
BSW	NZL	96.153	-12.9542	0.5041
BSW	SVN	42.800	0.5500	0.6724
BSW	USA	181.400	-27.3730	0.8100

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 Conversion Factors For Type. Source = INTERBULL MACE 2204
 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		-68.931	0.6888	0.67
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-45.044	0.4429	

BSW RUMP	CHE OVERALL RUMP	-26.198	0.2743
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-59.410	0.6003
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-52.546	0.5296
BSW STATURE	CHE STATURE	-50.072	0.4918
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-53.389	0.5411
BSW CHEST WIDTH	CHE CHEST WIDTH	-73.975	0.7677
BSW BODY DEPTH	CHE BODY DEPTH	-55.286	0.5446
BSW LOIN STRENGTH	CHE TOP LINE	-44.990	0.4832
BSW PIN WIDTH	CHE RUMP WIDTH	-51.693	0.5380
BSW RUMP ANGLE	CHE RUMP ANGLE	-56.882	0.5763
BSW BONE QUALITY	CHE HOCK QUALITY	-65.692	0.6323
BSW FOOT ANGLE	CHE FOOT ANGLE	-41.313	0.4080
BSW HEEL DEPTH	CHE HEEL DEPTH	-57.251	0.5847
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.917	0.5541
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.078	0.5266
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-66.576	0.6568
BSW FORE ATTACHMENT	CHE FORE UDDER	-50.050	0.4995
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-53.585	0.5366
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.387	0.3960
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-59.333	0.5894
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-63.339	0.6360
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-44.158	0.4490
BSW ANGULARITY	CHE ANGULARITY	58.209	-0.6381

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Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEA

	c	c	f			
	a	o	o		b	t
	n	u	r		v	c
b	t	n	t		a	a
r	r	t	r		l	r
e	a	r	a		u	u
e	i	y	i		e	e
d	t	2	t			2
BSW CONFORMATION	DEA CONFORMATION	-61.317	0.5625	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-54.737	0.5014			
BSW RUMP	DEA OVERALL RUMP	-42.870	0.4124			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-45.669	0.4290			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-59.684	0.5520			
BSW STATURE	DEA STATURE	-58.882	0.5482			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-42.577	0.4424			
BSW CHEST WIDTH	DEA CHEST WIDTH	-62.961	0.6206			
BSW BODY DEPTH	DEA BODY DEPTH	-52.715	0.5024			
BSW LOIN STRENGTH	DEA TOP LINE	-52.103	0.5123			
BSW PIN WIDTH	DEA RUMP WIDTH	-50.143	0.4881			
BSW RUMP ANGLE	DEA RUMP ANGLE	-55.155	0.5623			
BSW BONE QUALITY	DEA HOCK QUALITY	-56.201	0.5390			
BSW FOOT ANGLE	DEA FOOT ANGLE	-52.008	0.4991			
BSW HEEL DEPTH	DEA HEEL DEPTH	-55.978	0.5395			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-59.796	0.5862			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.934	0.5054			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-72.181	0.6948			

BSW FORE ATTACHMENT	DEA FORE UDDER	-53.106	0.5076
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-69.579	0.6643
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.317	0.5309
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-53.643	0.4958
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-61.137	0.5739
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-56.138	0.5357

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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	-2.511	5.8561	0.56		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.452	6.0391			
BSW RUMP	FRA OVERALL RUMP	-0.004	5.5654			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.527	3.8248			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.070	7.6635			
BSW STATURE	FRA STATURE	-1.625	6.8261			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.648	6.1211			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.471	7.4666			
BSW BODY DEPTH	FRA BODY DEPTH	-1.777	5.3508			
BSW LOIN STRENGTH	FRA TOP LINE	0.102	4.9769			
BSW PIN WIDTH	FRA RUMP WIDTH	0.646	6.6573			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.206	6.9521			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.139	6.5780			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.091	6.3302			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.199	5.8405			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.624	7.0509			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.918	6.4330			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.649	7.8742			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.191	7.0037			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.036	7.9465			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.843	6.4636			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-2.246	6.7009			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.676	7.7673			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.339	6.8121			
BSW ANGULARITY	FRA ANGULARITY	-3.956	7.9678			

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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				-2.909	3.3095	0.58
BSW FEET AND LEGS				-1.680	3.5760	
BSW MAMMARY SYSTEM				-2.849	3.9180	
BSW STATURE				-1.090	7.3700	
BSW CHEST WIDTH				0.372	5.0759	
BSW BODY DEPTH				-0.074	3.6440	
BSW PIN WIDTH				0.832	4.7093	
BSW RUMP ANGLE				0.287	3.3989	
BSW FOOT ANGLE				-0.560	5.8983	
BSW REAR LEGS SIDE VIEW				-2.343	4.6824	
BSW UDDER DEPTH				-1.366	3.1943	
BSW MEDIAN SUSPENSORY				-0.680	2.3642	
BSW FORE ATTACHMENT				-3.073	4.6635	
BSW TEAT PLACEMENT				-0.398	5.1741	
BSW TEAT LENGTH				0.292	4.2020	
BSW REAR ATTACHMENT HEIGHT				-0.739	3.1874	
BSW ANGULARITY				-2.525	9.2730	

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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				-76.049	0.6938	0.61
BSW DAIRY STRENGTH				-36.081	0.3215	
BSW RUMP				-38.476	0.3626	
BSW FEET AND LEGS				-34.870	0.3059	
BSW MAMMARY SYSTEM				-73.314	0.6686	
BSW STATURE				-48.504	0.4374	
BSW THURL PLACEMENT				-20.631	0.2181	
BSW CHEST WIDTH				-30.602	0.3015	
BSW BODY DEPTH				-30.893	0.2935	
BSW LOIN STRENGTH				-25.916	0.2541	
BSW PIN WIDTH				-32.497	0.3096	
BSW RUMP ANGLE				-26.734	0.2771	
BSW BONE QUALITY				-37.447	0.3321	
BSW FOOT ANGLE				-36.990	0.3298	
BSW HEEL DEPTH				-33.703	0.3109	

BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-31.061	0.3013
BSW UDDER DEPTH	ITA UDDER DEPTH	-34.124	0.3068
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.337	0.3924
BSW FORE ATTACHMENT	ITA FORE UDDER	-32.742	0.2899
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-34.466	0.3019
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.241	0.3283
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.229	0.4377
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-52.269	0.4753
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.241	0.2992

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Conversion Factors For Type. Source = INTERBULL MACE 2204
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	-148.630	1.4913	0.52		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-143.963	1.3120			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-147.167	1.5765			
BSW STATURE	NLD STATURE	-144.751	1.4629			
BSW CHEST WIDTH	NLD CHEST WIDTH	-162.780	1.6247			
BSW BODY DEPTH	NLD BODY DEPTH	-125.289	1.3125			
BSW PIN WIDTH	NLD RUMP WIDTH	-142.080	1.5978			
BSW RUMP ANGLE	NLD RUMP ANGLE	-146.072	1.4453			
BSW FOOT ANGLE	NLD FOOT ANGLE	-154.867	1.3490			
BSW HEEL DEPTH	NLD HEEL DEPTH	-146.996	1.2818			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-129.042	1.3532			
BSW UDDER DEPTH	NLD UDDER DEPTH	-153.648	1.5973			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-161.936	1.7119			
BSW FORE ATTACHMENT	NLD FORE UDDER	-129.428	1.3329			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-143.994	1.4266			
BSW TEAT LENGTH	NLD TEAT LENGTH	-124.047	1.2070			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-123.256	1.3615			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-119.296	1.3196			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-133.257	1.3817			
BSW ANGULARITY	NLD ANGULARITY	-163.116	1.7395			

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Conversion Factors For Type. Source = INTERBULL MACE 2204
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	-36.922	0.2412	0.41
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-34.178	0.2492	
BSW RUMP	SVN OVERALL RUMP	-25.241	0.2070	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-29.547	0.2302	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-45.120	0.3233	
BSW STATURE	SVN STATURE	-49.829	0.3852	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.596	0.1665	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.243	0.3260	
BSW BODY DEPTH	SVN BODY DEPTH	-25.449	0.2224	
BSW LOIN STRENGTH	SVN TOP LINE	-26.133	0.2490	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.275	0.2406	
BSW RUMP ANGLE	SVN RUMP ANGLE	-26.398	0.2835	
BSW BONE QUALITY	SVN HOCK QUALITY	-39.490	0.3194	
BSW FOOT ANGLE	SVN FOOT ANGLE	-32.565	0.2748	
BSW HEEL DEPTH	SVN HEEL DEPTH	-25.002	0.2159	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-30.704	0.3095	
BSW UDDER DEPTH	SVN UDDER DEPTH	-35.244	0.2871	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-36.190	0.2881	
BSW FORE ATTACHMENT	SVN FORE UDDER	-32.609	0.2433	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-51.141	0.4080	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.477	0.3212	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-40.727	0.3126	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-47.600	0.3704	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.679	0.3601	

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 Conversion Factors For Type. Source = INTERBULL MACE 2204
 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)	1.289	12.6789	0.67
BSW DAIRY STRENGTH	USA OVERALL FRAME	0.141	3.4501	
BSW RUMP	USA OVERALL RUMP	-0.082	6.4082	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.099	4.8537	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.678	6.4077	
BSW STATURE	USA STATURE	0.569	3.8374	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.834	4.9054	
BSW CHEST WIDTH	USA STRENGTH	0.893	8.2962	
BSW BODY DEPTH	USA BODY DEPTH	0.544	6.2415	
BSW PIN WIDTH	USA RUMP WIDTH	0.276	6.6345	

BSW RUMP ANGLE	USA RUMP ANGLE	-1.485	4.9434
BSW FOOT ANGLE	USA FOOT ANGLE	1.198	8.9285
BSW HEEL DEPTH	USA HEEL DEPTH	0.535	8.2735
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.066	9.4464
BSW UDDER DEPTH	USA UDDER DEPTH	0.605	5.1723
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.406	6.5019
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.983	5.0858
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.097	5.1065
BSW TEAT LENGTH	USA TEAT LENGTH	0.726	3.4640
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.337	5.7927
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.624	7.3995
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.674	4.3062
BSW ANGULARITY	USA ANGULARITY	0.646	6.5790

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2022

BREED	BMILK	BFAT	BPRT
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AYS	8014	334	275
BSW	8483	359	303
CN	5938	257	216
GUE	6927	318	245
JER	7049	364	274
HOL	10834	430	355
MS	7485	288	248

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(430+50*0.5) / (10834+1000*0.5) - (430/11E3)] \\
 &= 200 * [(430+25) / (10834+500) - (0.03969)] \\
 &= 200 * [0.04014 - 0.03969] \\
 &= 200 * 0.00045 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(355+40*0.5) / (10834+1000*0.5) - (355/11E3)] \\
 &= 200 * [(355+20) / (10834+500) - (0.03277)] \\
 &= 200 * [0.03309 - 0.03277] \\
 &= 200 * 0.00032 \\
 &= 0.06
 \end{aligned}$$