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 Conversion Factors For Production Traits. Source: INTERBULL 1508

Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-5.96	1.3668	0.832	1.2981	0.308	1.5129	0.5625
BSW	CHE	-345.60	1.1430	-12.800	1.1700	-10.700	1.2480	0.7396
BSW	DEA	-26.50	1.1520	2.700	1.3140	3.100	1.3320	0.7396
BSW	FRA	53.70	0.8060	1.100	0.8170	3.000	0.8570	0.7569
BSW	GBR	-135.56	2.0457	-3.845	2.3300	-3.559	2.5517	0.7225
BSW	ITA	22.70	0.8770	2.800	1.0190	5.800	0.8850	0.7396
BSW	NLD	1361.86	1.0134	38.796	0.9425	44.305	1.0758	0.7569
BSW	NZL	193.35	1.2998	29.364	1.2895	11.340	1.5320	0.5776
BSW	SVN	-6264.90	53.1860	-275.300	2.3570	-230.700	1.9810	0.7569
BSW	USA	35.60	0.9130	0.000	0.9700	0.500	1.0580	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 1508

Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	5.200	-0.0220	0.8649
BSW	DEA	4.900	-0.0190	0.8464
BSW	FRA	3.000	-0.2310	0.8464
BSW	GBR	2.960	0.0178	0.8464
BSW	ITA	4.800	-0.0180	0.8464
BSW	NLD	-2.576	0.0549	0.7921
BSW	NZL	3.115	0.5172	0.5929
BSW	SVN	5.200	-0.0220	0.7569
BSW	USA	-0.200	1.0770	0.8100

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 Conversion Factors For Type. Source = INTERBULL MACE 1508

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	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
BSW CONFORMATION	CHE FINAL SCORE		-77.886	0.7746	0.72
BSW FEET AND LEGS	CHE OVERALL FEET & LEG		-56.149	0.5523	
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE		-55.683	0.5602	
BSW STATURE	CHE STATURE		-56.485	0.5343	
BSW CHEST WIDTH	CHE CHEST WIDTH		-74.443	0.7763	

BSW BODY DEPTH	CHE BODY DEPTH	-59.737	0.5869
BSW PIN WIDTH	CHE RUMP WIDTH	-57.115	0.6088
BSW RUMP ANGLE	CHE RUMP ANGLE	-52.838	0.5327
BSW FOOT ANGLE	CHE FOOT ANGLE	-27.599	0.2583
BSW HEEL DEPTH	CHE HEEL DEPTH	-56.506	0.5668
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-44.916	0.4692
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.360	0.5155
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-63.981	0.6210
BSW FORE ATTACHMENT	CHE FORE UDDER	-30.381	0.2886
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-48.668	0.4818
BSW TEAT LENGTH	CHE TEAT LENGTH	-36.914	0.3414
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-59.590	0.5890
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-65.950	0.6551
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-48.760	0.4789
BSW ANGULARITY	CHE ANGULARITY	44.317	-0.5039

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Conversion Factors For Type. Source = INTERBULL MACE 1508  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=DEA

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
BSW CONFORMATION	DEA CONFORMATION	-54.589	0.5015	0.49	
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-39.969	0.3914		
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-61.000	0.5733		
BSW STATURE	DEA STATURE	-61.642	0.5719		
BSW CHEST WIDTH	DEA CHEST WIDTH	-60.821	0.6101		
BSW BODY DEPTH	DEA BODY DEPTH	-55.169	0.5336		
BSW PIN WIDTH	DEA RUMP WIDTH	-51.456	0.5121		
BSW RUMP ANGLE	DEA RUMP ANGLE	-49.167	0.5006		
BSW FOOT ANGLE	DEA FOOT ANGLE	-26.110	0.2392		
BSW HEEL DEPTH	DEA HEEL DEPTH	-58.018	0.5750		
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-51.226	0.5222		
BSW UDDER DEPTH	DEA UDDER DEPTH	-51.503	0.4939		
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-66.511	0.6293		
BSW FORE ATTACHMENT	DEA FORE UDDER	-47.993	0.4744		
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-61.917	0.5931		
BSW TEAT LENGTH	DEA TEAT LENGTH	-41.403	0.4104		
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-49.052	0.4446		
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-57.798	0.5520		
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-64.068	0.6032		

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Conversion Factors For Type. Source = INTERBULL MACE 1508  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=FRA

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

BSW CONFORMATION	FRA OVERALL SCORE	-2.679	6.5013	0.74
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.426	2.4917	
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.458	6.6355	
BSW STATURE	FRA STATURE	-2.635	7.2873	
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.161	7.3449	
BSW BODY DEPTH	FRA BODY DEPTH	-0.702	5.7817	
BSW PIN WIDTH	FRA RUMP WIDTH	-0.422	6.1227	
BSW RUMP ANGLE	FRA RUMP ANGLE	1.481	6.4542	
BSW FOOT ANGLE	FRA HEEL DEPTH	-2.003	5.7545	
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.653	6.5835	
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-0.083	6.5544	
BSW UDDER DEPTH	FRA UDDER DEPTH	-2.943	5.8804	
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.530	7.7898	
BSW FORE ATTACHMENT	FRA FORE UDDER	-2.004	4.5517	
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.898	7.1709	
BSW TEAT LENGTH	FRA TEAT LENGTH	0.577	5.5964	
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.233	6.8245	
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-0.448	7.6732	
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-1.122	7.3021	
BSW ANGULARITY	FRA ANGULARITY	-3.754	8.4027	

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Conversion Factors For Type. Source = INTERBULL MACE 1508  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=GBR

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

BSW FEET AND LEGS	GBR OVERALL FEET & LEG	-0.124	3.2897	
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	0.396	4.6622	
BSW STATURE	GBR STATURE	-2.173	7.7739	
BSW CHEST WIDTH	GBR CHEST WIDTH	-0.569	5.7820	
BSW BODY DEPTH	GBR BODY DEPTH	0.041	4.2229	
BSW PIN WIDTH	GBR RUMP WIDTH	0.635	5.2548	
BSW RUMP ANGLE	GBR RUMP ANGLE	0.230	2.8884	
BSW FOOT ANGLE	GBR FOOT ANGLE	0.527	5.8644	
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-3.242	5.1025	
BSW UDDER DEPTH	GBR UDDER DEPTH	0.576	3.1005	
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	0.458	2.6872	
BSW FORE ATTACHMENT	GBR FORE UDDER	-1.880	4.4598	

BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.320	5.1429
BSW TEAT LENGTH	GBR TEAT LENGTH	0.202	4.0690
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	0.166	4.3979
BSW ANGULARITY	GBR ANGULARITY	-1.882	8.5115

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Conversion Factors For Type. Source = INTERBULL MACE 1508  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=ITA

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

  

BSW CONFORMATION	ITA FINAL SCORE	-70.800	0.6252	0.62
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-34.145	0.2993	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-62.325	0.5569	
BSW STATURE	ITA STATURE	-53.230	0.4752	
BSW CHEST WIDTH	ITA STRENGTH	-43.334	0.4185	
BSW BODY DEPTH	ITA BODY DEPTH	-38.605	0.3613	
BSW RUMP ANGLE	ITA RUMP ANGLE	-36.882	0.3804	
BSW FOOT ANGLE	ITA FOOT ANGLE	-29.882	0.2592	
BSW HEEL DEPTH	ITA HEEL DEPTH	-47.918	0.4453	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-37.078	0.3733	
BSW UDDER DEPTH	ITA UDDER DEPTH	-41.930	0.3900	
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-56.900	0.5243	
BSW FORE ATTACHMENT	ITA FORE UDDER	-23.136	0.2019	
BSW TEAT LENGTH	ITA TEAT LENGTH	-34.999	0.3578	
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-52.992	0.4705	
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-56.587	0.5103	
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-47.730	0.4420	

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Conversion Factors For Type. Source = INTERBULL MACE 1508  
 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	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2

  

BSW CONFORMATION	NLD CONFORMATION	-151.145	1.4958	0.61
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-88.068	0.7753	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-137.919	1.4712	

BSW STATURE	NLD STATURE	-142.011	1.4192
BSW CHEST WIDTH	NLD CHEST WIDTH	-177.288	1.7603
BSW BODY DEPTH	NLD BODY DEPTH	-140.686	1.4644
BSW PIN WIDTH	NLD RUMP WIDTH	-144.681	1.6359
BSW RUMP ANGLE	NLD RUMP ANGLE	-136.728	1.3476
BSW FOOT ANGLE	NLD FOOT ANGLE	-96.681	0.8236
BSW HEEL DEPTH	NLD HEEL DEPTH	-138.505	1.1958
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-109.281	1.1565
BSW UDDER DEPTH	NLD UDDER DEPTH	-141.618	1.4513
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-136.386	1.4466
BSW FORE ATTACHMENT	NLD FORE UDDER	-131.402	1.3509
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-137.292	1.3610
BSW TEAT LENGTH	NLD TEAT LENGTH	-105.952	1.0124
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-114.346	1.2641
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-109.908	1.2201
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-145.482	1.4950
BSW ANGULARITY	NLD ANGULARITY	-154.078	1.6322

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Conversion Factors For Type. Source = INTERBULL MACE 1508  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=SVN

c	c	f			
a	o	o			
n	u	r	a	b	t
b	n	t	v	v	c
r	t	r	a	a	o
e	r	a	l	l	r
e	y	i	u	u	r
d	2	t	e	e	2
BSW CONFORMATION	SVN CONFORMATION	-30.811	0.2061	0.45	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-21.411	0.1681		
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-33.408	0.2360		
BSW STATURE	SVN STATURE	-46.267	0.3500		
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.109	0.3360		
BSW BODY DEPTH	SVN BODY DEPTH	-22.845	0.1968		
BSW PIN WIDTH	SVN RUMP WIDTH	-23.647	0.2102		
BSW RUMP ANGLE	SVN RUMP ANGLE	-23.935	0.2588		
BSW FOOT ANGLE	SVN FOOT ANGLE	-22.163	0.1712		
BSW HEEL DEPTH	SVN HEEL DEPTH	-21.059	0.1826		
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-23.276	0.2500		
BSW UDDER DEPTH	SVN UDDER DEPTH	-30.510	0.2530		
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-31.033	0.2456		
BSW FORE ATTACHMENT	SVN FORE UDDER	-21.383	0.1523		
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-39.643	0.3237		
BSW TEAT LENGTH	SVN TEAT LENGTH	-22.935	0.2540		
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-39.467	0.3064		
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-45.870	0.3656		
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-42.345	0.3470		

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Conversion Factors For Type. Source = INTERBULL MACE 1508  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

c a n b r e e d	t r r a i t	c o u n t r y	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	USA PTA TYPE (FINAL SCORE)	2.891	11.5988	0.76		
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.174	4.0834			
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	1.940	6.5986			
BSW STATURE	USA STATURE	0.836	4.5028			
BSW CHEST WIDTH	USA STRENGTH	0.822	10.2520			
BSW PIN WIDTH	USA RUMP WIDTH	1.864	9.5474			
BSW RUMP ANGLE	USA RUMP ANGLE	-1.096	5.6881			
BSW FOOT ANGLE	USA FOOT ANGLE	-0.003	9.2406			
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.656	9.3178			
BSW UDDER DEPTH	USA UDDER DEPTH	0.746	5.1565			
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	2.276	6.6641			
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	2.006	5.4911			
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	0.712	5.6303			
BSW TEAT LENGTH	USA TEAT LENGTH	0.100	3.8406			
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	1.370	5.9781			
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	1.971	8.0021			
BSW ANGULARITY	USA ANGULARITY	2.145	6.5224			

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CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2015

BREED	BMILK	BFAT	BPRT
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AYS	7537	310	255
BSW	8019	337	283
CN	5388	230	189
GUE	6718	309	233
JER	6409	320	245
HOL	9931	379	318
MS	7073	266	232

$$\text{EBVFAT\%} = 200 * [ (\text{BFAT} + \text{EBVFAT} * 0.5) / (\text{BMILK} + \text{EBVMILK} * 0.5) - (\text{BFAT} / \text{BMILK}) ]$$
$$\text{EBVPROT\%} = 200 * [ (\text{BPRT} + \text{EBVPRT} * 0.5) / (\text{BMILK} + \text{EBVMILK} * 0.5) - (\text{BPRT} / \text{BMILK}) ]$$

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (379 + 50 * .5) / (9931 + 1000 * .5) - (379 / 9931) ] \\ &= 200 * [ (379 + 25) / (9931 + 500) - (0.03816) ] \\ &= 200 * [ 0.03873 - 0.03816 ] \\ &= 200 * 0.00057 \\ &= 0.11 \end{aligned}$$

$$\text{EBVPROT\%} = 200 * [ (318 + 40 * .5) / (9931 + 1000 * .5) - (318 / 9931) ]$$

$$\begin{aligned} &= 200 * [(318+20)/(9931+500)-(0.03202)] \\ &= 200 * [ 0.03240 - 0.03202 ] \\ &= 200 * 0.00038 \\ &= 0.08 \end{aligned}$$