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 Conversion Factors For Production Traits. Source: INTERBULL 1808
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	314.60	1.1970	21.400	1.3470	17.600	1.2920	0.4761
AYS	CAM	-547.97	1.1938	-29.819	0.9057	-17.744	1.5306	0.7921
AYS	DEU	436.50	0.8770	34.500	0.8210	24.000	0.8440	0.7569
AYS	DFS	-4456.80	53.9290	-158.100	2.0190	-115.600	1.5820	0.7921
AYS	EST	394.90	1.1420	17.200	1.1440	18.800	1.0820	0.6889
AYS	GBR	-407.10	2.0630	-17.500	2.2490	-10.900	2.3070	0.6889
AYS	IRL	726.64	3.1298	24.887	2.6251	28.222	2.6232	0.5476
AYS	LTU	-554.30	1.5580	-9.600	1.2960	-9.600	1.6760	0.6889
AYS	LVA	133.80	1.7790	13.000	1.7000	10.500	1.9500	0.6724
AYS	NLD	1317.88	0.7003	48.607	0.7253	47.471	0.5983	0.7744
AYS	NOR	-3516.30	41.9280	-144.200	1.7080	-100.000	1.3220	0.7744
AYS	NZL	-32.50	1.6520	27.600	1.4960	16.200	1.8010	0.4761
AYS	USA	-294.50	0.8860	-16.100	0.9160	-10.300	0.9080	0.7921
AYS	ZAF	-69.13	0.8892	-5.463	0.9507	-1.101	0.9089	0.6561

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 Conversion Factors For SCS Traits. Source: INTERBULL 1808
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
AYS	AUS	3.800	-0.0060	0.7921
AYS	CAM	-0.698	1.2725	0.8836
AYS	DEU	4.700	-0.0160	0.8649
AYS	DFS	4.700	-0.0170	0.8836
AYS	EST	4.800	-0.0170	0.7921
AYS	GBR	3.000	0.0190	0.8649
AYS	LTU	3.100	0.5820	0.8100
AYS	LVA	3.100	0.4900	0.8100
AYS	NLD	-2.863	0.0579	0.8281
AYS	NOR	4.600	-0.0150	0.8464
AYS	NZL	3.200	0.5300	0.7744
AYS	USA	0.100	0.9630	0.8464
AYS	ZAF	3.029	0.0087	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1808
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

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
AYS	CONFORMATION	AUS	CONFORMATION	-74.573	0.6844	0.35
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-38.530	0.3323	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-69.549	0.6403	
AYS	STATURE	AUS	STATURE	-89.832	0.8577	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-76.022	0.7784	
AYS	BODY DEPTH	AUS	BODY DEPTH	-74.337	0.7275	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-89.117	0.8734	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-71.354	0.7008	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-59.200	0.5805	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-57.114	0.6127	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-59.223	0.5675	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-60.577	0.5596	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-63.231	0.6007	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-69.247	0.6476	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-76.861	0.7551	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-62.759	0.6406	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-80.988	0.7241	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-87.886	0.8473	
AYS	ANGULARITY	AUS	ANGULARITY	-63.986	0.5752	

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Conversion Factors For Type. Source = INTERBULL MACE 1808
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CAM

b	c	c	f	a	b	t
r	a	o	r	v	v	c
e	n	u	r	a	a	o
e	t	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2
AYS	CONFORMATION	CAM	CONFORMATION	-9.026	0.7692	0.74
AYS	FEET AND LEGS	CAM	OVERALL FEET & LEG	-6.013	0.5977	
AYS	MAMMARY SYSTEM	CAM	OVERALL UDDER SCORE	-9.108	0.7400	
AYS	STATURE	CAM	STATURE	-4.171	1.0234	
AYS	CHEST WIDTH	CAM	CHEST WIDTH	0.356	0.8693	
AYS	BODY DEPTH	CAM	BODY DEPTH	-2.726	0.9993	
AYS	PIN WIDTH	CAM	RUMP WIDTH	-2.376	0.8378	
AYS	RUMP ANGLE	CAM	RUMP ANGLE	0.773	0.9570	
AYS	FOOT ANGLE	CAM	FOOT ANGLE	-1.162	0.5953	
AYS	REAR LEGS SIDE VIEW	CAM	REAR LEG SET	3.497	0.8254	
AYS	REAR LEG REAR VIEW	CAM	REAR LEG REAR VIEW	-3.715	0.7399	
AYS	UDDER DEPTH	CAM	UDDER DEPTH	-4.877	1.0727	
AYS	MEDIAN SUSPENSORY	CAM	MEDIAN SUSPENSORY	-4.181	0.7420	
AYS	FORE ATTACHMENT	CAM	FORE UDDER	-6.086	0.6746	
AYS	TEAT PLACEMENT	CAM	FRONT TEAT PLACEMENT	-4.373	0.7165	
AYS	TEAT LENGTH	CAM	TEAT LENGTH	1.230	0.6672	

AYS	REAR ATTACHMENT HEIGHT	CAM	REAR UDDER HEIGHT	-10.397	0.7885
AYS	REAR TEAT PLACEMENT	CAM	REAR TEAT PLACEMENT	-4.198	0.9345
AYS	ANGULARITY	CAM	ANGULARITY	-8.871	0.7190

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Conversion Factors For Type. Source = INTERBULL MACE 1808
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	
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
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-30.705	0.3002	
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-34.781	0.3319	
AYS	STATURE	DEU	STATURE	-42.496	0.4426	
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-47.079	0.4857	
AYS	BODY DEPTH	DEU	BODY DEPTH	-51.432	0.5275	
AYS	PIN WIDTH	DEU	RUMP WIDTH	-55.084	0.5722	
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-65.828	0.6220	
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-33.522	0.3661	
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-63.709	0.6189	
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-55.810	0.5760	
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-44.820	0.4388	
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-42.937	0.4195	
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-48.574	0.4575	
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-38.950	0.3769	
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-35.734	0.3471	
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-40.814	0.3653	
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-46.024	0.4255	
AYS	ANGULARITY	DEU	ANGULARITY	-44.917	0.4446	

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Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	
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
AYS	CONFORMATION	DFS	OVERALL CONFORMATION	-51.876	0.4634	0.58

AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-40.169	0.3720
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-46.429	0.4320
AYS	STATURE	DFS	STATURE	-69.105	0.6696
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-44.312	0.4612
AYS	BODY DEPTH	DFS	BODY DEPTH	-47.339	0.4384
AYS	PIN WIDTH	DFS	RUMP WIDTH	-53.083	0.5238
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-54.386	0.5480
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-51.904	0.5286
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-62.314	0.6666
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-53.022	0.5191
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-48.390	0.4751
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-37.087	0.3412
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-42.674	0.4091
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-40.994	0.4091
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-44.061	0.4288
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-55.915	0.4955
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-47.673	0.4548
AYS	ANGULARITY	DFS	ANGULARITY	-65.852	0.5946

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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	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
AYS	FEET AND LEGS	GBR	OVERALL FEET & LEG	-3.317	2.9735	
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.575	3.4025	
AYS	STATURE	GBR	STATURE	-2.315	4.9111	
AYS	CHEST WIDTH	GBR	CHEST WIDTH	2.223	3.9716	
AYS	BODY DEPTH	GBR	BODY DEPTH	0.912	3.7948	
AYS	PIN WIDTH	GBR	RUMP WIDTH	-0.919	4.3146	
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-2.055	3.7840	
AYS	FOOT ANGLE	GBR	FOOT ANGLE	-1.384	3.2130	
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.513	3.7818	
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.516	2.9181	
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-1.184	2.8748	
AYS	FORE ATTACHMENT	GBR	FORE UDDER	0.047	3.1337	
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	2.027	3.3401	
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-0.819	3.3811	
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.525	3.9565	
AYS	ANGULARITY	GBR	ANGULARITY	-5.492	5.0949	

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Converted Proof Reliability = TCORR2*Foreign Reliability

AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-35.483	0.2926
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-38.193	0.3323
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-37.414	0.3542
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-35.990	0.3510
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-47.626	0.3646
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-37.542	0.3478

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Conversion Factors For Type. Source = INTERBULL MACE 1808
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	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
AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-9.337	13.1494	0.37
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-9.009	12.9200	
AYS	STATURE	NZL	STATURE	-12.137	10.7839	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	1.368	13.6189	
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.097	12.8871	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-4.731	17.0787	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-5.376	18.2984	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	4.650	37.3874	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-4.708	12.5183	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-7.571	13.7362	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.490	17.2776	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-8.326	14.8765	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-6.178	17.1615	

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Conversion Factors For Type. Source = INTERBULL MACE 1808
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	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
AYS	CONFORMATION	USA	CONFORMATION	-3.410	5.6565	0.69
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.860	3.7419	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-1.490	5.2316	

AYS	STATURE	USA	STATURE	-1.327	2.7886
AYS	CHEST WIDTH	USA	CHEST WIDTH	-0.275	5.4067
AYS	BODY DEPTH	USA	BODY DEPTH	-0.971	4.4002
AYS	PIN WIDTH	USA	RUMP WIDTH	-0.737	4.5933
AYS	RUMP ANGLE	USA	RUMP ANGLE	-0.929	5.3459
AYS	FOOT ANGLE	USA	FOOT ANGLE	-1.090	5.9791
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.920	7.9055
AYS	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-3.459	6.5118
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.481	4.9054
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-2.914	4.5952
AYS	FORE ATTACHMENT	USA	FORE UDDER	-1.451	4.5818
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.342	3.9881
AYS	TEAT LENGTH	USA	TEAT LENGTH	-0.347	4.0586
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.895	4.3367
AYS	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	-0.581	4.8094
AYS	ANGULARITY	USA	ANGULARITY	-2.015	5.5847

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2018

BREED	BMILK	BFAT	BPRT
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AYS	7802	325	263
BSW	8550	359	301
CN	5896	253	207
GUE	6583	305	225
JER	6643	336	255
HOL	10228	399	329
MS	6829	270	227

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

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

EXAMPLE:

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

$$EBVFAT\% = 200 * [(399+50*.5) / (10228+1000*.5) - (399/ 1E4)]$$

$$= 200 * [(399+25) / (10228+500) - (0.03901)]$$

$$= 200 * [0.03952 - 0.03901]$$

$$= 200 * 0.00051$$

$$= 0.10$$

$$EBVPROT\% = 200 * [(329+40*.5) / (10228+1000*.5) - (329/ 1E4)]$$

$$= 200 * [(329+20) / (10228+500) - (0.03217)]$$

$$= 200 * [0.03253 - 0.03217]$$

$$= 200 * 0.00037$$

$$= 0.07$$