
Conversion Factors For Production Traits. Source: INTERBULL 1412

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	519.16	1.213	29.982	1.152	23.395	1.609	0.5776
AYS	DEU	441.02	0.904	33.359	0.848	23.499	0.848	0.7744
AYS	DFS	-4317.97	54.081	-157.790	2.060	-110.311	1.566	0.8100
AYS	EST	218.56	0.936	14.767	1.051	15.531	0.895	0.7396
AYS	GBR	-140.78	2.384	-2.178	2.542	0.026	2.576	0.7396
AYS	IRL	814.86	3.696	24.010	3.275	24.042	3.931	0.5929
AYS	LTU	-440.86	1.696	0.309	1.304	-1.935	1.637	0.7744
AYS	LVA	-267.42	1.872	5.644	1.613	0.322	2.015	0.7569
AYS	NLD	1427.54	0.803	53.989	0.769	50.660	0.678	0.7921
AYS	NOR	-4378.65	51.366	-166.512	1.997	-118.339	1.544	0.8100
AYS	NZL	113.44	1.628	31.672	1.536	16.697	1.739	0.5776
AYS	USA	-35.45	0.838	-4.698	0.880	-1.818	0.849	0.8464
AYS	ZAF	-116.16	0.905	-6.113	0.943	-4.846	0.907	0.7396

Conversion Factors For SCS Traits. Source: INTERBULL 1412

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

breed	country2	a	b	scorr2
AYS	AUS	3.7950	-0.007	0.7396
AYS	DFS	4.8060	-0.019	0.8464
AYS	EST	4.9830	-0.020	0.7569
AYS	GBR	2.9950	0.020	0.8649
AYS	LTU	3.1000	0.613	0.7569
AYS	LVA	3.0940	0.509	0.7569
AYS	NLD	-2.9120	0.057	0.8281
AYS	NOR	4.9190	-0.019	0.8100
AYS	NZL	3.1740	0.512	0.6084
AYS	U;	2.9889	0.529	
AYS	USA	-0.1390	1.050	0.8649
AYS	ZAF	2.9610	0.008	0.7569

Conversion Factors For Type. Source = INTERBULL MACE 1412

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	-58.723	0.5187	0.40
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-23.786	0.1986	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-60.658	0.5485	
AYS	STATURE	AUS	STATURE	-55.095	0.5118	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-56.467	0.5804	
AYS	BODY DEPTH	AUS	BODY DEPTH	-61.083	0.5823	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-61.007	0.5973	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-69.227	0.6883	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-56.901	0.5665	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-85.822	0.9092	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-83.759	0.8025	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-58.278	0.5367	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-60.629	0.5803	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-54.200	0.4854	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-40.554	0.3841	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-41.612	0.4319	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-61.461	0.5279	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-72.980	0.6937	
AYS	ANGULARITY	AUS	ANGULARITY	-49.075	0.4317	

Conversion Factors For Type. Source = INTERBULL MACE 1412
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

c	a	n	b	r	e	e	d	c	o	u	n	t	r	a	y	2	f	o	u	r	a	i	t	a	b	v	v	a	l	u	e	t	c	o	r	r	2			
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-39.655	0.3994																																			
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-38.745	0.3567																																			
AYS	STATURE	DEU	STATURE	-43.556	0.4544																																			
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-49.171	0.5101																																			
AYS	BODY DEPTH	DEU	BODY DEPTH	-50.897	0.5345																																			
AYS	PIN WIDTH	DEU	RUMP WIDTH	-57.086	0.6046																																			
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-73.223	0.6860																																			
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-40.111	0.4372																																			
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-66.928	0.6576																																			
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-63.818	0.6527																																			
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-47.897	0.4577																																			
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-43.969	0.4349																																			
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-53.523	0.4833																																			
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-40.392	0.3739																																			
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-33.242	0.3248																																			
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-44.664	0.3991																																			
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-42.329	0.3951																																			
AYS	ANGULARITY	DEU	ANGULARITY	-46.816	0.4766																																			

Conversion Factors For Type. Source = INTERBULL MACE 1412

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

country2=DFS

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
AYS	CONFORMATION	DFS	OVERALL CONFORMATION	-51.063	0.4664	0.50		
AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-41.760	0.3956			
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-47.486	0.4462			
AYS	STATURE	DFS	STATURE	-65.354	0.6401			
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-43.110	0.4531			
AYS	BODY DEPTH	DFS	BODY DEPTH	-45.381	0.4244			
AYS	PIN WIDTH	DFS	RUMP WIDTH	-52.448	0.5210			
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-55.967	0.5676			
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-43.181	0.4516			
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-64.336	0.6819			
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-55.820	0.5436			
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-51.010	0.5004			
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-40.843	0.3918			
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-44.960	0.4232			
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-40.820	0.4045			
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-40.435	0.3939			
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-55.865	0.4983			
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-43.625	0.4245			
AYS	ANGULARITY	DFS	ANGULARITY	-61.673	0.5647			

 Conversion Factors For Type. Source = INTERBULL MACE 1412
 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
AYS	FEET AND LEGS	GBR	OVERALL FEET & LEG	-3.034	2.6932			
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.598	3.5395			
AYS	STATURE	GBR	STATURE	-3.524	4.6707			
AYS	CHEST WIDTH	GBR	CHEST WIDTH	1.759	3.7252			
AYS	BODY DEPTH	GBR	BODY DEPTH	-0.174	3.3901			
AYS	PIN WIDTH	GBR	RUMP WIDTH	-1.369	3.6715			
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-1.689	4.1437			
AYS	FOOT ANGLE	GBR	FOOT ANGLE	-0.284	2.7537			
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.754	3.0464			

AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.978	2.8731
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.403	2.8316
AYS	FORE ATTACHMENT	GBR	FORE UDDER	-0.176	2.7421
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	1.800	3.1013
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-0.876	2.9852
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.800	3.7207
AYS	ANGULARITY	GBR	ANGULARITY	-5.747	4.7980

Conversion Factors For Type. Source = INTERBULL MACE 1412
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

	c		c	f				
	a		o	o		a	b	t
	n		u	r		v	v	c
b	t		n	t		a	a	o
r	r		t	r		l	l	r
e	a		r	a		u	u	r
e	i		y	i		e	e	r
d	t		2	t				2
AYS	CONFORMATION	NLD	CONFORMATION	-137.445	1.4261	0.62		
AYS	FEET AND LEGS	NLD	OVERALL FEET & LEG	-68.552	0.6799			
AYS	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-109.086	1.1241			
AYS	STATURE	NLD	STATURE	-102.110	1.1129			
AYS	CHEST WIDTH	NLD	CHEST WIDTH	-149.875	1.5935			
AYS	BODY DEPTH	NLD	BODY DEPTH	-103.942	1.1322			
AYS	PIN WIDTH	NLD	RUMP WIDTH	-93.158	0.9871			
AYS	RUMP ANGLE	NLD	RUMP ANGLE	-99.190	0.9850			
AYS	FOOT ANGLE	NLD	FOOT ANGLE	-132.972	1.3750			
AYS	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-119.645	1.1865			
AYS	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-125.511	1.2844			
AYS	UDDER DEPTH	NLD	UDDER DEPTH	-109.708	1.1009			
AYS	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-110.816	1.1327			
AYS	FORE ATTACHMENT	NLD	FORE UDDER	-141.136	1.4097			
AYS	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-127.915	1.2968			
AYS	TEAT LENGTH	NLD	TEAT LENGTH	-90.507	0.9314			
AYS	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-88.035	0.9085			
AYS	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-129.450	1.3058			
AYS	ANGULARITY	NLD	ANGULARITY	-80.458	0.8868			

Conversion Factors For Type. Source = INTERBULL MACE 1412
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NOR

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

d	t	2	t	e	e	2
AYS	CONFORMATION	NOR	OVERALL CONFORMATION	-23.419	0.1485	0.17
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-44.751	0.3974	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-50.613	0.4305	
AYS	STATURE	NOR	STATURE	-53.111	0.4581	
AYS	BODY DEPTH	NOR	BODY DEPTH	-34.488	0.3039	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-43.823	0.4527	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-26.325	0.2709	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-36.289	0.4111	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-45.203	0.4201	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-47.333	0.4163	
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-34.599	0.2918	
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-47.948	0.4295	
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-37.693	0.3417	
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-38.189	0.3601	
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-53.449	0.4133	
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-30.189	0.2826	

Conversion Factors For Type. Source = INTERBULL MACE 1412
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

c	a	n	b	t	c	r	e	e	2
AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-8.022	10.3116	0.24			
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-8.051	12.3121				
AYS	STATURE	NZL	STATURE	-10.333	10.4547				
AYS	CHEST WIDTH	NZL	CHEST WIDTH	1.206	11.1871				
AYS	BODY DEPTH	NZL	BODY DEPTH	-3.033	10.2932				
AYS	PIN WIDTH	NZL	RUMP WIDTH	-3.715	17.7750				
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.774	19.1590				
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	4.082	41.2545				
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-3.949	13.2772				
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-7.715	14.2332				
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.551	17.2876				
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-8.315	14.5312				
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-5.313	16.1701				

Conversion Factors For Type. Source = INTERBULL MACE 1412
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=R;

c	a	c	f

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

AYS CONFORMATION R; CONFORMATION -2.164 2.9217

Conversion Factors For Type. Source = INTERBULL MACE 1412
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=U;

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

AYS CONFORMATION U; CONFORMATION -25.367 0.2542

Conversion Factors For Type. Source = INTERBULL MACE 1412
 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	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

AYS	CONFORMATION	USA	CONFORMATION	-1.314	6.5411	0.69
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.017	4.3648	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	0.663	5.9135	
AYS	STATURE	USA	STATURE	-0.371	2.8110	
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.234	5.5900	
AYS	BODY DEPTH	USA	BODY DEPTH	-0.990	4.5175	
AYS	PIN WIDTH	USA	RUMP WIDTH	0.049	4.4517	
AYS	RUMP ANGLE	USA	RUMP ANGLE	-1.066	5.4947	
AYS	FOOT ANGLE	USA	FOOT ANGLE	0.660	6.7720	
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.818	8.4950	
AYS	UDDER DEPTH	USA	UDDER DEPTH	0.537	4.7625	
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-0.756	5.0413	
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.369	4.8720	
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.367	4.1527	
AYS	TEAT LENGTH	USA	TEAT LENGTH	-0.366	3.9386	

AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.432	4.7947
AYS	ANGULARITY	USA	ANGULARITY	-0.127	6.3601

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2014

BREED	BMILK	BFAT	BPRT
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AYS	7482	307	252
BSW	8027	335	283
CN	6149	264	215
GUE	6705	313	230
JER	6363	316	243
HOL	9855	375	316
MS	6898	251	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(375 + 50 * .5) / (9855 + 1000 * .5) - (375 / 9855)] \\
 &= 200 * [(375 + 25) / (9855 + 500) - (0.03805)] \\
 &= 200 * [0.03863 - 0.03805] \\
 &= 200 * 0.00058 \\
 &= 0.12
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(316 + 40 * .5) / (9855 + 1000 * .5) - (316 / 9855)] \\
 &= 200 * [(316 + 20) / (9855 + 500) - (0.03206)] \\
 &= 200 * [0.03245 - 0.03206] \\
 &= 200 * 0.00038 \\
 &= 0.08
 \end{aligned}$$