
 Conversion Factors For Production Traits. Source: INTERBULL 1112

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	570.71	1.2395	30.406	1.1456	24.908	1.5951	0.5776
AYS	DEU	598.49	0.9398	41.258	0.8487	29.366	0.8679	0.7921
AYS	DFS	-4372.13	53.8591	-152.193	1.9910	-109.259	1.5320	0.7744
AYS	EST	403.88	1.0243	21.673	1.0682	21.791	1.0187	0.7569
AYS	GBR	-202.45	2.4210	-3.640	2.4824	-0.926	2.6535	0.7569
AYS	IRL	899.95	3.8217	25.683	3.2089	25.930	3.8676	0.5776
AYS	LTU	-274.14	1.7539	6.996	1.3043	2.743	1.7138	0.7744
AYS	LVA	-57.69	1.8216	14.138	1.4769	8.905	1.9018	0.7569
AYS	NLD	1687.60	0.7724	58.401	0.5849	59.130	0.5983	0.8281
AYS	NOR	-4168.00	49.4271	-163.816	1.9405	-112.832	1.4912	0.8100
AYS	NZL	316.36	1.5611	40.424	1.4476	24.065	1.6507	0.5776
AYS	USA	-16.43	0.8780	-1.862	0.9109	0.008	0.9157	0.8281
AYS	ZAF	-183.08	0.9371	-5.018	0.9600	-4.850	0.9094	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1112

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

breed	country2	a	b	scorr2
AYS	AUS	3.7657	-0.0075	0.7569
AYS	DEU	2.9283	0.5488	0.8281
AYS	DFS	4.8012	-0.0199	0.8281
AYS	EST	4.8779	-0.0196	0.7744
AYS	GBR	2.9895	0.0211	0.8649
AYS	LTU	3.0580	0.6716	0.7744
AYS	LVA	3.0309	0.5444	0.7744
AYS	NLD	9.6585	-0.0660	0.8464
AYS	NOR	5.0885	-0.0216	0.8281
AYS	NZL	3.1269	0.5261	0.6241
AYS	USA	0.1147	0.9598	0.8836
AYS	ZAF	2.9736	0.0720	0.8464

 Conversion Factors For Type. Source = INTERBULL MACE 1112

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

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

AYS	CONFORMATION	AUS	CONFORMATION	-46.670	0.412	0.36
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-17.020	0.138	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-55.965	0.513	
AYS	STATURE	AUS	STATURE	-56.690	0.510	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-55.154	0.560	
AYS	BODY DEPTH	AUS	BODY DEPTH	-63.742	0.615	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-63.914	0.621	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-74.412	0.740	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-64.412	0.640	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-84.344	0.895	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-38.739	0.370	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-57.605	0.532	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-58.430	0.567	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-54.366	0.506	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-39.154	0.373	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-44.296	0.450	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-55.730	0.485	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-86.267	0.828	
AYS	ANGULARITY	AUS	ANGULARITY	-41.715	0.374	

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country2=DEU

	c	c	f			
	a	o	o		a	b
	n	u	r		v	v
	b	n	t		a	a
	r	t	r		l	l
	e	r	a		u	u
	e	y	i		e	e
	d	2	t			2
AYS	CONFORMATION	DEU	OVERALL TYPE (RZE)	-25.565	0.267	0.58
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-45.731	0.452	
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-38.801	0.387	
AYS	STATURE	DEU	STATURE	-48.783	0.514	
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-40.748	0.431	
AYS	BODY DEPTH	DEU	BODY DEPTH	-51.202	0.542	
AYS	PIN WIDTH	DEU	RUMP WIDTH	-59.516	0.643	
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-60.348	0.566	
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-45.602	0.469	
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-63.337	0.620	
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-44.810	0.446	
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-50.524	0.502	
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-43.084	0.450	
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-46.095	0.439	
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-45.006	0.447	
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-39.524	0.376	
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-50.234	0.480	
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-53.251	0.509	
AYS	ANGULARITY	DEU	ANGULARITY	-49.421	0.514	

AYS	FOOT ANGLE	GBR	FOOT ANGLE	0.166	3.303
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	1.187	3.023
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.835	2.632
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	0.799	2.663
AYS	FORE ATTACHMENT	GBR	FORE UDDER	1.536	2.970
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	2.062	3.283
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-1.109	3.013
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-1.611	2.831
AYS	REAR TEAT PLACEMENT	GBR	REAR TEAT PLACEMENT	-3.353	1.128
AYS	ANGULARITY	GBR	ANGULARITY	-2.515	3.794

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country2=NOR

	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	NOR	OVERALL CONFORMATION	-21.869	0.172	0.22		
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-25.921	0.220			
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-52.077	0.448			
AYS	STATURE	NOR	STATURE	-55.920	0.486			
AYS	BODY DEPTH	NOR	BODY DEPTH	-41.614	0.393			
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-37.332	0.392			
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-6.659	0.061			
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-38.547	0.427			
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-26.657	0.251			
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-38.871	0.330			
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-21.517	0.184			
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-37.942	0.336			
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-35.167	0.324			
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-23.139	0.222			
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-50.129	0.420			
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	33.205	-0.376			

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 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	-5.331	7.491	0.12
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-5.605	11.914	
AYS	STATURE	NZL	STATURE	-9.219	10.379	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	-0.208	9.345	
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.074	9.405	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-2.184	17.205	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.468	19.005	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	3.854	30.194	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-2.459	11.359	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-4.889	13.125	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-3.645	16.810	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-5.586	13.236	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-5.452	16.291	

Conversion Factors For Type. Source = INTERBULL MACE 1112
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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

c	a	n	b	r	e	e	d	c	o	u	n	t	r	a	y	2	f	o	r	a	i	2	a	b	t	v	v	c	a	l	u	e	r	2			
AYS	CONFORMATION	USA	CONFORMATION	-0.264	6.604	0.71																															
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-1.802	4.003																																
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	0.199	5.750																																
AYS	STATURE	USA	STATURE	-0.603	2.714																																
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.333	5.212																																
AYS	BODY DEPTH	USA	BODY DEPTH	-0.375	4.699																																
AYS	PIN WIDTH	USA	RUMP WIDTH	0.858	4.349																																
AYS	RUMP ANGLE	USA	RUMP ANGLE	-0.627	5.703																																
AYS	FOOT ANGLE	USA	FOOT ANGLE	-0.818	6.844																																
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.325	8.340																																
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.411	4.755																																
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	0.124	5.133																																
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.557	4.910																																
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.046	4.218																																
AYS	TEAT LENGTH	USA	TEAT LENGTH	0.014	3.809																																
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.219	4.596																																
AYS	ANGULARITY	USA	ANGULARITY	-0.386	6.104																																

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2011

BREED	BMILK	BFAT	BPRT
AYS	7323	296	246
BSW	7976	327	278
CN	5223	227	186

GUE	6933	311	237
JER	6259	306	239
HOL	9608	360	308
MS	6539	229	215

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

EXAMPLE :

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

$EBVFAT\% = 200 * [(360 + 50 * .5) / (9608 + 1000 * .5) - (360 / 9608)]$
 $= 200 * [(360 + 25) / (9608 + 500) - (0.03747)]$
 $= 200 * [0.03809 - 0.03747]$
 $= 200 * 0.00062$
 $= 0.12$

$EBVPROT\% = 200 * [(308 + 40 * .5) / (9608 + 1000 * .5) - (308 / 9608)]$
 $= 200 * [(308 + 20) / (9608 + 500) - (0.03206)]$
 $= 200 * [0.03245 - 0.03206]$
 $= 200 * 0.00039$
 $= 0.08$