
 Conversion Factors For Production Traits. Source: INTERBULL 1212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	540.10	1.250	30.374	1.198	24.066	1.633	0.5776
AYS	DEU	600.76	0.948	41.001	0.869	29.416	0.878	0.7921
AYS	DFS	-4290.78	54.163	-152.411	2.027	-107.201	1.549	0.7921
AYS	EST	343.56	1.061	19.103	1.076	19.521	1.042	0.7569
AYS	GBR	-235.88	2.303	-6.322	2.434	-2.179	2.606	0.7396
AYS	IRL	888.26	3.292	28.959	3.402	27.881	3.953	0.6084
AYS	LTU	-400.78	1.769	1.102	1.408	-0.158	1.693	0.7744
AYS	LVA	-187.72	1.935	9.795	1.616	4.024	2.032	0.7569
AYS	NLD	1546.14	0.747	59.510	0.676	55.971	0.608	0.8281
AYS	NOR	-3885.82	47.069	-159.121	1.932	-105.906	1.449	0.8100
AYS	NZL	203.71	1.615	36.306	1.484	20.638	1.698	0.5776
AYS	USA	-60.11	0.849	-4.015	0.862	-1.703	0.846	0.8281
AYS	ZAF	-10.88	0.910	-0.007	0.940	-0.796	0.910	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
AYS	AUS	3.769	-0.007	0.7569
AYS	DEU	2.945	0.531	0.8464
AYS	DFS	4.769	-0.019	0.8281
AYS	EST	4.928	-0.019	0.7744
AYS	GBR	2.998	0.021	0.8649
AYS	LTU	3.049	0.632	0.7744
AYS	LVA	3.042	0.527	0.7744
AYS	NLD	-4.467	0.072	0.8464
AYS	NOR	5.078	-0.021	0.8281
AYS	NZL	3.126	0.513	0.6241
AYS	USA	0.121	0.959	0.8836
AYS	ZAF	2.908	0.009	0.7396

 Conversion Factors For Type. Source = INTERBULL MACE 1212
 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	-52.2760	0.4488	0.37
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-17.4966	0.1384	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-60.3336	0.5354	
AYS	STATURE	AUS	STATURE	-56.3718	0.5099	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-55.5076	0.5654	
AYS	BODY DEPTH	AUS	BODY DEPTH	-61.9032	0.5944	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-62.6923	0.6049	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-74.4278	0.7430	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-57.1367	0.5671	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-81.2161	0.8638	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-66.1754	0.6443	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-58.4896	0.5357	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-57.1260	0.5410	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-57.8461	0.5221	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-39.5503	0.3702	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-43.5883	0.4479	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-61.6490	0.5187	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-60.4077	0.5628	
AYS	ANGULARITY	AUS	ANGULARITY	-44.4181	0.3874	

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country2=DEU

	c	c	f		a	b	t
	a	o	o		v	v	c
	n	u	r		a	a	o
b	t	n	t		l	l	r
r	r	t	r		u	u	r
e	a	r	a		e	e	2
e	i	y	i				
d	t	2	t				
AYS	CONFORMATION	DEU	OVERALL TYPE (RZE)	-24.5993	0.2486	0.44	
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-45.5524	0.4676		
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-41.0312	0.3998		
AYS	STATURE	DEU	STATURE	-51.4247	0.5361		
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-43.6965	0.4708		
AYS	BODY DEPTH	DEU	BODY DEPTH	-44.1856	0.4799		
AYS	PIN WIDTH	DEU	RUMP WIDTH	-56.2130	0.6141		
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-63.2268	0.5770		
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-42.2376	0.4490		
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-63.7602	0.6188		
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-44.3927	0.4575		
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-51.6035	0.5062		
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-43.1873	0.4468		
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-50.4374	0.4611		
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-47.4512	0.4598		
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-39.6954	0.3881		
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-53.0168	0.5024		
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-56.1028	0.5378		
AYS	ANGULARITY	DEU	ANGULARITY	-45.9863	0.4836		

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

c		c		f					
a		o		o					
n		u		r		a		b	
b		n		t		v		v	
r		t		r		a		a	
e		r		a		l		l	
e		y		i		u		u	
d		2		t		e		e	
AYS	CONFORMATION	DFS	OVERALL CONFORMATION	-47.4780	0.4261	0.50			
AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-51.3348	0.4886				
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-48.6119	0.4572				
AYS	STATURE	DFS	STATURE	-63.7473	0.6154				
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-27.1652	0.2796				
AYS	BODY DEPTH	DFS	BODY DEPTH	-41.1243	0.3864				
AYS	PIN WIDTH	DFS	RUMP WIDTH	-51.5476	0.5071				
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-52.8052	0.5428				
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-22.4265	0.2331				
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-64.8090	0.6879				
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-47.9684	0.4705				
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-48.7207	0.4680				
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-42.4547	0.4095				
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-41.4827	0.3804				
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-39.9513	0.3949				
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-38.6381	0.3743				
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-54.8881	0.4839				
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-47.3308	0.4492				
AYS	ANGULARITY	DFS	ANGULARITY	-50.7353	0.4546				

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

c		c		f					
a		o		o					
n		u		r		a		b	
b		n		t		v		v	
r		t		r		a		a	
e		r		a		l		l	
e		y		i		u		u	
d		2		t		e		e	
AYS	CONFORMATION	GBR	CONFORMATION	-0.8049	2.9213	0.59			
AYS	FEET AND LEGS	GBR	OVERALL FEET & LEG	-1.6789	2.9535				
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-0.3901	3.5751				
AYS	STATURE	GBR	STATURE	-3.1665	4.6597				
AYS	CHEST WIDTH	GBR	CHEST WIDTH	1.6635	3.8010				
AYS	BODY DEPTH	GBR	BODY DEPTH	-0.4394	3.3919				
AYS	PIN WIDTH	GBR	RUMP WIDTH	-0.6568	3.8715				
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-1.9165	4.4348				

AYS	FOOT ANGLE	GBR	FOOT ANGLE	0.2965	3.0339
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-1.1947	2.9342
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.2452	2.7604
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	0.4272	3.0919
AYS	FORE ATTACHMENT	GBR	FORE UDDER	0.8721	3.0085
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	2.8538	3.3220
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-1.2719	2.9924
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.7773	3.5593
AYS	ANGULARITY	GBR	ANGULARITY	-4.6905	4.3093

Conversion Factors For Type. Source = INTERBULL MACE 1212
 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		e	e	2
d	t		2	t				
AYS	CONFORMATION	NOR	OVERALL CONFORMATION	-17.3450	0.1035	0.08		
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-22.6725	0.1791			
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-55.0616	0.4554			
AYS	STATURE	NOR	STATURE	-57.0885	0.4972			
AYS	BODY DEPTH	NOR	BODY DEPTH	-44.0363	0.4127			
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-35.0683	0.3713			
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-13.4667	0.1303			
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-38.5293	0.4252			
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-36.2309	0.3448			
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-43.6674	0.3711			
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-25.7398	0.2180			
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-40.7114	0.3535			
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-41.6241	0.3777			
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-27.9336	0.2694			
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-50.9787	0.3976			
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	31.4923	-0.3655			

Conversion Factors For Type. Source = INTERBULL MACE 1212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	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	2
d	t		2	t				

AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-6.9010	8.3173	0.14
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-7.1851	11.7848	
AYS	STATURE	NZL	STATURE	-10.1200	10.6786	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	-0.4496	8.8294	
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.5679	7.9299	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-3.0863	17.6750	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.4491	19.1252	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	3.7390	28.1452	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-3.3220	11.8150	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-6.6727	13.6137	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.0997	17.2981	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-7.5764	13.9750	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-6.2383	16.5591	

Conversion Factors For Type. Source = INTERBULL MACE 1212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	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	2
d	t		2	t				
AYS	CONFORMATION	USA	CONFORMATION	-1.5564	6.2876	0.69		
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.1676	4.2571			
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-0.2236	5.6373			
AYS	STATURE	USA	STATURE	-1.3689	2.7620			
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.2537	5.3209			
AYS	BODY DEPTH	USA	BODY DEPTH	-0.8227	4.5053			
AYS	PIN WIDTH	USA	RUMP WIDTH	0.4501	4.4847			
AYS	RUMP ANGLE	USA	RUMP ANGLE	-0.4195	5.6671			
AYS	FOOT ANGLE	USA	FOOT ANGLE	-0.2280	6.7512			
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.5101	8.2991			
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.4140	4.8258			
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-0.1983	4.9702			
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.8001	4.8529			
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.0679	4.2180			
AYS	TEAT LENGTH	USA	TEAT LENGTH	0.0225	3.9000			
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.3924	4.4914			
AYS	ANGULARITY	USA	ANGULARITY	-0.8948	5.7532			

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2012

BREED	BMILK	BFAT	BPRT
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AYS	7368	298	248
BSW	8065	330	281
CN	5833	249	205
GUE	6707	299	228

JER	6337	312	242
HOL	9670	364	310
MS	6794	247	224

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

EXAMPLE:

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

$EBVFAT\% = 200 * [(364 + 50 * .5) / (9670 + 1000 * .5) - (364 / 9670)]$
 $= 200 * [(364 + 25) / (9670 + 500) - (0.03764)]$
 $= 200 * [0.03825 - 0.03764]$
 $= 200 * 0.00061$
 $= 0.12$

$EBVPROT\% = 200 * [(310 + 40 * .5) / (9670 + 1000 * .5) - (310 / 9670)]$
 $= 200 * [(310 + 20) / (9670 + 500) - (0.03206)]$
 $= 200 * [0.03245 - 0.03206]$
 $= 200 * 0.00039$
 $= 0.08$