
Conversion Factors For Production Traits. Source: INTERBULL 1304

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	434.39	1.274	24.928	1.195	18.983	1.666	0.5776
AYS	DEU	526.58	0.915	37.502	0.841	26.550	0.843	0.7921
AYS	DFS	-4287.26	53.706	-154.758	2.029	-108.185	1.537	0.7921
AYS	EST	279.98	1.041	15.961	1.068	16.904	1.014	0.7569
AYS	GBR	-321.41	2.267	-11.086	2.437	-5.421	2.549	0.7396
AYS	IRL	871.70	3.340	26.126	3.400	26.378	4.012	0.6241
AYS	LTU	-433.01	1.806	0.782	1.379	-1.369	1.719	0.7744
AYS	LVA	-249.20	1.921	6.268	1.645	1.374	2.031	0.7569
AYS	NLD	1492.38	0.760	55.909	0.682	53.149	0.618	0.8100
AYS	NOR	-3920.51	47.042	-160.933	1.928	-106.550	1.433	0.8100
AYS	NZL	155.67	1.621	33.311	1.502	18.201	1.722	0.5776
AYS	USA	-124.39	0.850	-7.857	0.863	-4.175	0.843	0.8281
AYS	ZAF	-72.40	0.890	-3.409	0.909	-3.163	0.893	0.7396

Conversion Factors For SCS Traits. Source: INTERBULL 1304

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

breed	country2	a	b	scorr2
AYS	AUS	3.778	-0.007	0.7569
AYS	DEU	2.965	0.531	0.8464
AYS	DFS	4.777	-0.019	0.8464
AYS	EST	5.009	-0.020	0.7744
AYS	GBR	3.003	0.020	0.8649
AYS	LTU	3.075	0.646	0.7569
AYS	LVA	3.065	0.524	0.7744
AYS	NLD	-4.536	0.072	0.8464
AYS	NOR	5.000	-0.020	0.8281
AYS	NZL	3.141	0.513	0.6084
AYS	USA	0.070	0.978	0.8836
AYS	ZAF	2.918	0.009	0.7396

Conversion Factors For Type. Source = INTERBULL MACE 1304

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	-56.9072	0.4844	0.40
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-15.1816	0.1087	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-62.0294	0.5450	
AYS	STATURE	AUS	STATURE	-57.2168	0.5167	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-56.9924	0.5708	
AYS	BODY DEPTH	AUS	BODY DEPTH	-62.1147	0.5885	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-59.8730	0.5816	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-68.2435	0.6858	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-57.7195	0.5682	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-83.9892	0.8893	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-69.8058	0.6777	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-58.1837	0.5345	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-57.4758	0.5392	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-58.4647	0.5249	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-40.4264	0.3729	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-43.7219	0.4492	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-61.6778	0.5207	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-66.3087	0.6097	
AYS	ANGULARITY	AUS	ANGULARITY	-45.8815	0.3976	

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country2=DEU

	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	DEU	OVERALL TYPE (RZE)	-24.7213	0.2454	0.49		
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-45.3959	0.4598			
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-40.1266	0.3863			
AYS	STATURE	DEU	STATURE	-49.1118	0.5039			
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-42.1442	0.4467			
AYS	BODY DEPTH	DEU	BODY DEPTH	-44.4851	0.4721			
AYS	PIN WIDTH	DEU	RUMP WIDTH	-50.5733	0.5468			
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-57.3315	0.5213			
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-42.1765	0.4402			
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-59.0089	0.5758			
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-44.0171	0.4541			
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-49.4240	0.4799			
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-41.2011	0.4231			
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-48.0127	0.4306			
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-45.1500	0.4304			
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-35.9901	0.3522			
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-49.4093	0.4611			
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-54.0494	0.5094			
AYS	ANGULARITY	DEU	ANGULARITY	-44.2236	0.4567			

AYS	FOOT ANGLE	GBR	FOOT ANGLE	-0.1707	3.0563
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.9597	2.8884
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.4796	2.8032
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	0.1376	3.0934
AYS	FORE ATTACHMENT	GBR	FORE UDDER	0.4496	3.0080
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	2.6207	3.3434
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-1.1459	3.0217
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.9012	3.6168
AYS	ANGULARITY	GBR	ANGULARITY	-5.1457	4.3032

Conversion Factors For Type. Source = INTERBULL MACE 1304
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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	-15.3723	0.0756	0.04		
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-28.0656	0.2265			
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-58.2498	0.4818			
AYS	STATURE	NOR	STATURE	-59.5436	0.5105			
AYS	BODY DEPTH	NOR	BODY DEPTH	-32.5251	0.2926			
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-37.1581	0.3852			
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-19.9121	0.1905			
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-38.1042	0.4258			
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-41.0441	0.3852			
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-42.4398	0.3541			
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-24.6004	0.2015			
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-40.8612	0.3545			
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-38.9910	0.3519			
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-27.6303	0.2630			
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-51.5160	0.3983			
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	31.0746	-0.3642			

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 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	-7.7202	8.9847	0.16
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-7.7188	12.7186	
AYS	STATURE	NZL	STATURE	-10.8456	10.8337	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	-0.7250	9.5575	
AYS	BODY DEPTH	NZL	BODY DEPTH	-3.1487	8.6971	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-3.3316	17.5979	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.4517	18.7907	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	3.9741	27.0891	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-3.6237	13.1326	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-7.0951	14.3245	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.1680	17.5009	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-7.6591	14.2515	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-6.3657	16.7627	

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country2=USA

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	t	v	a	l	u	e	c	o	r	r	e	2
AYS	CONFORMATION	USA	CONFORMATION	-2.1455	6.6113	0.67																															
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.7655	4.3709																																
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-0.6474	5.8930																																
AYS	STATURE	USA	STATURE	-1.8388	2.8344																																
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.1235	5.3261																																
AYS	BODY DEPTH	USA	BODY DEPTH	-1.1013	4.5047																																
AYS	PIN WIDTH	USA	RUMP WIDTH	0.2661	4.3640																																
AYS	RUMP ANGLE	USA	RUMP ANGLE	-0.5061	5.5418																																
AYS	FOOT ANGLE	USA	FOOT ANGLE	-0.4570	6.7234																																
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.6773	8.3988																																
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.6514	4.9886																																
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-0.4601	4.9955																																
AYS	FORE ATTACHMENT	USA	FORE UDDER	-1.2149	4.9457																																
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.2829	4.3073																																
AYS	TEAT LENGTH	USA	TEAT LENGTH	0.0156	3.8282																																
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.3938	4.4908																																
AYS	ANGULARITY	USA	ANGULARITY	-1.2958	5.8873																																

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2013

BREED	BMILK	BFAT	BPRT
AYS	7446	304	251
BSW	8003	330	281
CN	5665	243	200
GUE	6797	298	230

JER	6316	313	241
HOL	9752	369	312
MS	6616	247	223

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

EXAMPLE :

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

$EBVFAT\% = 200 * [(369 + 50 * .5) / (9752 + 1000 * .5) - (369 / 9752)]$
 $= 200 * [(369 + 25) / (9752 + 500) - (0.03784)]$
 $= 200 * [0.03843 - 0.03784]$
 $= 200 * 0.00059$
 $= 0.12$

$EBVPROT\% = 200 * [(312 + 40 * .5) / (9752 + 1000 * .5) - (312 / 9752)]$
 $= 200 * [(312 + 20) / (9752 + 500) - (0.03199)]$
 $= 200 * [0.03238 - 0.03199]$
 $= 200 * 0.00039$
 $= 0.08$