
 Conversion Factors For Production Traits. Source: INTERBULL 1508

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	455.10	1.2160	29.700	1.4100	23.600	1.4000	0.5625
AYS	DEU	493.50	0.9080	37.700	0.8610	27.800	0.8590	0.7569
AYS	DFS	-4490.40	55.5080	-166.600	2.1450	-116.800	1.6320	0.8100
AYS	EST	553.60	1.0930	25.500	1.1580	26.000	1.0510	0.7396
AYS	GBR	-193.40	2.5020	-4.800	2.7500	-1.700	2.8070	0.7225
AYS	IRL	719.43	3.6396	20.420	3.3736	21.075	4.0826	0.5929
AYS	LTU	-481.60	1.7020	-2.500	1.3510	-3.900	1.6980	0.7744
AYS	LVA	-340.40	1.9400	3.300	1.7050	-2.000	2.1190	0.7569
AYS	NLD	1704.37	0.9025	59.529	0.8199	58.559	0.7498	0.7569
AYS	NOR	-4618.80	53.6590	-169.300	2.0160	-123.600	1.5960	0.8100
AYS	NZL	1.90	1.6940	27.800	1.5550	13.400	1.8260	0.5776
AYS	USA	-112.80	0.8600	-8.600	0.8940	-5.000	0.8760	0.8281
AYS	ZAF	59.60	0.9417	-0.272	1.0319	0.800	0.9973	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1508

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

breed	country2	a	b	scorr2
AYS	AUS	3.800	-0.0070	0.7396
AYS	DEU	4.800	-0.0170	0.8464
AYS	DFS	4.800	-0.0180	0.8464
AYS	EST	4.900	-0.0190	0.7569
AYS	GBR	3.000	0.0200	0.8649
AYS	LTU	3.100	0.6130	0.7569
AYS	LVA	3.100	0.5080	0.7569
AYS	NLD	-2.917	0.0583	0.8281
AYS	NOR	4.900	-0.0190	0.8100
AYS	NZL	3.200	0.5010	0.6084
AYS	USA	-0.100	1.0720	0.8649
AYS	ZAF	2.993	0.0088	0.7569

 Conversion Factors For Type. Source = INTERBULL MACE 1508

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	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	AUS	CONFORMATION	-56.166	0.5070	0.38
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-29.070	0.2506	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-64.794	0.5964	
AYS	STATURE	AUS	STATURE	-50.518	0.4677	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-70.295	0.7230	
AYS	BODY DEPTH	AUS	BODY DEPTH	-60.424	0.5840	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-64.187	0.6304	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-66.254	0.6542	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-64.794	0.6422	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-81.252	0.8608	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-80.498	0.7778	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-61.451	0.5692	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-67.050	0.6484	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-60.911	0.5628	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-49.984	0.4879	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-46.000	0.4706	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-61.307	0.5316	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-80.577	0.7841	
AYS	ANGULARITY	AUS	ANGULARITY	-57.656	0.5146	

Conversion Factors For Type. Source = INTERBULL MACE 1508
 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	l	u	e	t	c	o	r	r	2	
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-37.742	0.3720																																
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-38.444	0.3555																																
AYS	STATURE	DEU	STATURE	-43.308	0.4590																																
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-49.641	0.5167																																
AYS	BODY DEPTH	DEU	BODY DEPTH	-53.002	0.5503																																
AYS	PIN WIDTH	DEU	RUMP WIDTH	-57.373	0.6132																																
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-73.083	0.6917																																
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-36.453	0.3958																																
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-68.596	0.6720																																
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-61.852	0.6284																																
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-50.077	0.4809																																
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-45.111	0.4483																																
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-54.488	0.4959																																
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-43.706	0.4100																																
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-37.238	0.3656																																
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-43.402	0.3854																																
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-45.028	0.4240																																
AYS	ANGULARITY	DEU	ANGULARITY	-47.407	0.4774																																

Conversion Factors For Type. Source = INTERBULL MACE 1508

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	-51.347	0.4680	0.50		
AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-40.774	0.3858			
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-47.640	0.4468			
AYS	STATURE	DFS	STATURE	-66.067	0.6447			
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-44.496	0.4633			
AYS	BODY DEPTH	DFS	BODY DEPTH	-46.277	0.4306			
AYS	PIN WIDTH	DFS	RUMP WIDTH	-52.017	0.5188			
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-56.245	0.5676			
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-44.685	0.4597			
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-63.773	0.6759			
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-55.595	0.5441			
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-51.639	0.5065			
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-40.175	0.3842			
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-44.592	0.4226			
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-40.892	0.4057			
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-41.700	0.4024			
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-55.365	0.4955			
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-44.160	0.4295			
AYS	ANGULARITY	DFS	ANGULARITY	-62.875	0.5746			

 Conversion Factors For Type. Source = INTERBULL MACE 1508
 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	-3.149	2.6559			
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.963	3.3491			
AYS	STATURE	GBR	STATURE	-3.624	4.6756			
AYS	CHEST WIDTH	GBR	CHEST WIDTH	1.719	3.7728			
AYS	BODY DEPTH	GBR	BODY DEPTH	-0.301	3.4598			
AYS	PIN WIDTH	GBR	RUMP WIDTH	-1.348	3.6783			
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-1.457	4.0695			
AYS	FOOT ANGLE	GBR	FOOT ANGLE	-0.761	2.7052			
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.759	3.1121			

AYS	UDDER DEPTH	GBR	UDDER DEPTH	-1.218	2.8517	
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.552	2.7609	
AYS	FORE ATTACHMENT	GBR	FORE UDDER	-0.219	2.7037	
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	1.683	3.1235	
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-0.963	3.0195	
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.904	3.7268	
AYS	ANGULARITY	GBR	ANGULARITY	-6.354	4.8653	

Conversion Factors For Type. Source = INTERBULL MACE 1508
 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	-139.051	1.4609	0.64		
AYS	FEET AND LEGS	NLD	OVERALL FEET & LEG	-62.730	0.6277			
AYS	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-103.417	1.0833			
AYS	STATURE	NLD	STATURE	-119.099	1.3140			
AYS	CHEST WIDTH	NLD	CHEST WIDTH	-159.540	1.7101			
AYS	BODY DEPTH	NLD	BODY DEPTH	-110.290	1.2062			
AYS	PIN WIDTH	NLD	RUMP WIDTH	-90.068	0.9746			
AYS	RUMP ANGLE	NLD	RUMP ANGLE	-100.836	0.9965			
AYS	FOOT ANGLE	NLD	FOOT ANGLE	-109.723	1.1553			
AYS	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-108.704	1.0685			
AYS	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-120.656	1.2307			
AYS	UDDER DEPTH	NLD	UDDER DEPTH	-112.534	1.1600			
AYS	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-108.447	1.1172			
AYS	FORE ATTACHMENT	NLD	FORE UDDER	-125.050	1.2709			
AYS	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-130.176	1.3446			
AYS	TEAT LENGTH	NLD	TEAT LENGTH	-93.299	0.9479			
AYS	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-85.248	0.8905			
AYS	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-131.127	1.3381			
AYS	ANGULARITY	NLD	ANGULARITY	-83.172	0.9051			

Conversion Factors For Type. Source = INTERBULL MACE 1508
 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				r

d	t	2	t	e	e	2
AYS	CONFORMATION	NOR	OVERALL CONFORMATION	-26.054	0.1706	0.24
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-44.367	0.3916	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-51.068	0.4262	
AYS	STATURE	NOR	STATURE	-53.688	0.4572	
AYS	BODY DEPTH	NOR	BODY DEPTH	-37.186	0.3277	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-44.930	0.4666	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-27.738	0.2798	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-35.410	0.4017	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-45.512	0.4223	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-50.025	0.4373	
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-35.819	0.2989	
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-49.299	0.4392	
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-41.205	0.3757	
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-39.762	0.3741	
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-53.182	0.4112	
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-31.080	0.2894	

Conversion Factors For Type. Source = INTERBULL MACE 1508
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

c	a	n	b	r	e	e	d	c	f	o	u	n	t	r	a	l	u	e	a	b	v	v	l	u	e	t	c	o	r	r	2
AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-8.507	10.3209																										0.24
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-8.587	12.1889																										
AYS	STATURE	NZL	STATURE	-10.721	10.6131																										
AYS	CHEST WIDTH	NZL	CHEST WIDTH	1.133	11.0934																										
AYS	BODY DEPTH	NZL	BODY DEPTH	-3.052	10.4677																										
AYS	PIN WIDTH	NZL	RUMP WIDTH	-3.813	17.6227																										
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.710	19.2459																										
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	3.800	40.2060																										
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-4.234	12.8512																										
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-7.757	14.0969																										
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.797	17.4604																										
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-8.407	14.2554																										
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-5.419	16.4874																										

Conversion Factors For Type. Source = INTERBULL MACE 1508
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

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

AYS	CONFORMATION	USA	CONFORMATION	-1.965	6.4472	0.69
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.164	4.3616	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	0.146	5.9592	
AYS	STATURE	USA	STATURE	-0.639	2.8330	
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.114	5.6850	
AYS	BODY DEPTH	USA	BODY DEPTH	-1.146	4.5925	
AYS	PIN WIDTH	USA	RUMP WIDTH	-0.075	4.4862	
AYS	RUMP ANGLE	USA	RUMP ANGLE	-0.913	5.5630	
AYS	FOOT ANGLE	USA	FOOT ANGLE	0.188	6.8655	
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.760	8.6484	
AYS	UDDER DEPTH	USA	UDDER DEPTH	0.357	4.9358	
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-1.124	5.1645	
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.567	4.9927	
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.125	4.3143	
AYS	TEAT LENGTH	USA	TEAT LENGTH	-0.569	4.0636	
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-0.597	4.8766	
AYS	ANGULARITY	USA	ANGULARITY	-0.612	6.6616	

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2015

BREED	BMILK	BFAT	BPRT
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AYS	7537	310	255
BSW	8019	337	283
CN	5388	230	189
GUE	6718	309	233
JER	6409	320	245
HOL	9931	379	318
MS	7073	266	232

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

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

EXAMPLE :

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(379 + 50 * 0.5) / (9931 + 1000 * 0.5) - (379 / 9931)] \\
 &= 200 * [(379 + 25) / (9931 + 500) - (0.03816)] \\
 &= 200 * [0.03873 - 0.03816] \\
 &= 200 * 0.00057 \\
 &= 0.11
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(318 + 40 * 0.5) / (9931 + 1000 * 0.5) - (318 / 9931)] \\
 &= 200 * [(318 + 20) / (9931 + 500) - (0.03202)] \\
 &= 200 * [0.03240 - 0.03202] \\
 &= 200 * 0.00038 \\
 &= 0.08
 \end{aligned}$$