
 Conversion Factors For Production Traits. Source: INTERBULL 1404

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	513.58	1.216	29.286	1.139	23.081	1.585	0.5776
AYS	DEU	446.60	0.910	32.897	0.843	23.699	0.843	0.7744
AYS	DFS	-4284.27	53.277	-156.269	2.019	-109.355	1.536	0.7921
AYS	EST	208.75	0.988	13.860	1.068	15.047	0.919	0.7569
AYS	GBR	-324.51	2.419	-13.269	2.576	-5.958	2.640	0.7396
AYS	IRL	810.76	3.706	22.776	3.310	23.427	4.019	0.6084
AYS	LTU	-454.65	1.667	-0.559	1.283	-2.295	1.608	0.7744
AYS	LVA	-317.77	1.898	3.572	1.620	-0.634	2.016	0.7569
AYS	NLD	1448.99	0.802	53.985	0.753	51.056	0.671	0.7921
AYS	NOR	-4051.35	47.770	-164.595	1.949	-111.751	1.458	0.8100
AYS	NZL	95.64	1.604	30.333	1.480	16.089	1.691	0.5776
AYS	USA	-188.85	0.820	-10.464	0.832	-6.441	0.819	0.8281
AYS	ZAF	-137.43	0.906	-6.559	0.950	-5.524	0.904	0.7396

 Conversion Factors For SCS Traits. Source: INTERBULL 1404

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

breed	country2	a	b	scorr2
AYS	AUS	3.809	-0.007	0.7569
AYS	DEU	2.979	0.524	0.8464
AYS	DFS	4.793	-0.019	0.8464
AYS	EST	4.936	-0.019	0.7744
AYS	GBR	3.031	0.020	0.8649
AYS	LTU	3.072	0.616	0.7569
AYS	LVA	3.088	0.519	0.7744
AYS	NLD	-2.849	0.056	0.8281
AYS	NOR	4.959	-0.020	0.8281
AYS	NZL	3.161	0.517	0.6084
AYS	USA	0.023	1.001	0.8836
AYS	ZAF	2.954	0.009	0.7569

 Conversion Factors For Type. Source = INTERBULL MACE 1404

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	-54.553	0.4735	0.40
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-19.798	0.1534	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-61.528	0.5491	
AYS	STATURE	AUS	STATURE	-55.627	0.5117	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-57.707	0.5853	
AYS	BODY DEPTH	AUS	BODY DEPTH	-60.392	0.5765	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-61.249	0.6003	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-69.896	0.6960	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-55.175	0.5423	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-85.420	0.9052	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-80.498	0.7694	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-58.609	0.5390	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-60.630	0.5787	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-53.690	0.4825	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-40.278	0.3819	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-42.477	0.4392	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-61.937	0.5303	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-75.031	0.7100	
AYS	ANGULARITY	AUS	ANGULARITY	-48.401	0.4276	

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country2=DEU

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	DEU	OVERALL TYPE (RZE)	-26.933	0.2598	0.59		
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-46.749	0.4605			
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-41.839	0.3885			
AYS	STATURE	DEU	STATURE	-49.560	0.5068			
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-43.681	0.4570			
AYS	BODY DEPTH	DEU	BODY DEPTH	-45.685	0.4835			
AYS	PIN WIDTH	DEU	RUMP WIDTH	-49.155	0.5242			
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-58.169	0.5336			
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-41.375	0.4407			
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-57.589	0.5687			
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-47.648	0.4817			
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-48.989	0.4751			
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-42.719	0.4305			
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-49.140	0.4461			
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-45.366	0.4326			
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-36.920	0.3614			
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-50.953	0.4646			
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-54.410	0.5119			
AYS	ANGULARITY	DEU	ANGULARITY	-47.915	0.4946			

AYS	FOOT ANGLE	GBR	FOOT ANGLE	-0.360	2.8645
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.899	3.0894
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.565	2.9647
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.155	3.0295
AYS	FORE ATTACHMENT	GBR	FORE UDDER	0.270	3.0850
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	2.143	3.3179
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-1.031	2.9603
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.475	3.9587
AYS	ANGULARITY	GBR	ANGULARITY	-5.636	4.6208

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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	-137.330	1.4285	0.62		
AYS	FEET AND LEGS	NLD	OVERALL FEET & LEG	-75.791	0.7561			
AYS	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-112.581	1.1576			
AYS	STATURE	NLD	STATURE	-105.109	1.1358			
AYS	CHEST WIDTH	NLD	CHEST WIDTH	-176.568	1.8611			
AYS	BODY DEPTH	NLD	BODY DEPTH	-127.908	1.4055			
AYS	PIN WIDTH	NLD	RUMP WIDTH	-99.526	1.0548			
AYS	RUMP ANGLE	NLD	RUMP ANGLE	-97.023	0.9607			
AYS	FOOT ANGLE	NLD	FOOT ANGLE	-130.194	1.3392			
AYS	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-116.506	1.1584			
AYS	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-123.251	1.2569			
AYS	UDDER DEPTH	NLD	UDDER DEPTH	-109.978	1.1120			
AYS	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-110.254	1.1281			
AYS	FORE ATTACHMENT	NLD	FORE UDDER	-144.722	1.4484			
AYS	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-142.897	1.4502			
AYS	TEAT LENGTH	NLD	TEAT LENGTH	-92.733	0.9568			
AYS	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-89.718	0.9285			
AYS	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-131.650	1.3274			
AYS	ANGULARITY	NLD	ANGULARITY	-96.576	1.0779			

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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				

e e d	a i t	r y 2	a i t	l u e	l u e	r r 2
AYS	CONFORMATION	NOR	OVERALL CONFORMATION	-19.558	0.1082	0.09
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-28.632	0.2360	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-59.281	0.4900	
AYS	STATURE	NOR	STATURE	-60.951	0.5260	
AYS	BODY DEPTH	NOR	BODY DEPTH	-33.438	0.2937	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-40.879	0.4253	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-23.170	0.2364	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-39.541	0.4432	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-44.460	0.4125	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-48.154	0.4142	
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-32.822	0.2741	
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-45.017	0.3978	
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-40.759	0.3687	
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-41.237	0.3913	
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-54.959	0.4281	
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-33.114	0.3049	

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country2=NZL

c n b r e e d	a t r a i t	c o n t r a i t	f o r r a i t	a v a l u e	b v a l u e	t c o r r 2
AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-8.318	9.9967	0.23
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-8.482	12.3189	
AYS	STATURE	NZL	STATURE	-10.739	10.8380	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	0.069	11.0820	
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.984	10.1539	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-3.578	18.2288	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.588	19.0630	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	4.169	38.8353	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-4.142	13.6303	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-7.450	13.9866	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.476	17.6327	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-8.433	14.6340	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-6.234	16.5551	

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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	-3.018	6.5377	0.69
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-3.115	4.3094	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-1.542	5.9602	
AYS	STATURE	USA	STATURE	-2.117	2.8640	
AYS	CHEST WIDTH	USA	CHEST WIDTH	-0.157	5.6415	
AYS	BODY DEPTH	USA	BODY DEPTH	-1.118	4.5611	
AYS	PIN WIDTH	USA	RUMP WIDTH	-0.183	4.5338	
AYS	RUMP ANGLE	USA	RUMP ANGLE	-0.341	5.7522	
AYS	FOOT ANGLE	USA	FOOT ANGLE	-1.028	6.6252	
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	1.083	8.4120	
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.906	4.9010	
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-1.628	5.2187	
AYS	FORE ATTACHMENT	USA	FORE UDDER	-1.818	4.9434	
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.468	4.2577	
AYS	TEAT LENGTH	USA	TEAT LENGTH	-0.014	4.0019	
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.947	4.8087	
AYS	ANGULARITY	USA	ANGULARITY	-1.705	6.5138	

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2014

BREED	BMILK	BFAT	BPRT
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AYS	7508	307	253
BSW	7991	334	282
CN	6129	263	214
GUE	6716	312	230
JER	6367	316	243
HOL	9854	375	316
MS	6881	250	226

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

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

EXAMPLE :

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(375 + 50 * 0.5) / (9854 + 1000 * 0.5) - (375 / 9854)] \\
 &= 200 * [(375 + 25) / (9854 + 500) - (0.03806)] \\
 &= 200 * [0.03863 - 0.03806] \\
 &= 200 * 0.00058 \\
 &= 0.12
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(316 + 40 * 0.5) / (9854 + 1000 * 0.5) - (316 / 9854)] \\
 &= 200 * [(316 + 20) / (9854 + 500) - (0.03207)] \\
 &= 200 * [0.03245 - 0.03207] \\
 &= 200 * 0.00038
 \end{aligned}$$

$$= 0.08$$