Conversion Factors For Production Traits. Source: INTERBULL 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	475.37	1.2526	26.050	1.1644	21.222	1.6066	0.5776
AYS	DEU	573.21	0.9349	40.794	0.8495	29.443	0.8652	0.7921
AYS	DFS	-4445.82	53.6527	-155.534	1.9959	-110.931	1.5185	0.7921
AYS	EST	373.54	1.0097	20.553	1.0769	20.981	1.0367	0.7569
AYS	GBR	-173.35	2.2902	-1.918	2.3020	0.381	2.4622	0.7569
AYS	IRL	795.97	3.0380	25.403	2.9454	26.507	3.0793	0.5776
AYS	LTU	-189.51	1.6070	9.974	1.2377	5.355	1.6067	0.7744
AYS	LVA	-423.92	1.8029	3.181	1.4572	-2.089	1.8690	0.7744
AYS	NOR	-4297.99	50.1607	-157.857	1.8522	-111.010	1.4524	0.8100
AYS	NZL	268.90	1.4869	38.572	1.3779	22.778	1.5408	0.5776
AYS	USA	9.56	0.8629	-0.121	0.8858	1.349	0.8848	0.8281
AYS	ZAF	-216.23	0.9483	-5.670	0.9676	-6.048	0.9318	0.7396

Conversion Factors For SCS Traits. Source: INTERBULL 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
AYS	AUS	3.7646	-0.0076	0.7396
AYS	DEU	2.9111	0.5552	0.8281
AYS	DFS	4.8030	-0.0199	0.8281
AYS	EST	4.7674	-0.0185	0.7744
AYS	GBR	2.9787	0.0212	0.8836
AYS	LTU	3.0456	0.6770	0.7921
AYS	NOR	5.1439	-0.0222	0.8281
AYS	NZL	3.1156	0.5236	0.6400
AYS	USA	-0.0294	1.0056	0.8649
AYS	ZAF	2.9702	0.0727	0.8464

Conversion Factors For Type. Source = INTERBULL MACE 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

breed	canait	country2	forait	avalue	bvalue	tcorr2
AYS	CONFORMATION	AUS	CONFORMATION	-38.393	0.341	0.29
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-11.323	0.085	

breed	canait	country2	forait	avalue	bvalue	tcorr2
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-51.851	0.478	
AYS	STATURE	AUS	STATURE	-51.716	0.470	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-49.838	0.507	
AYS	BODY DEPTH	AUS	BODY DEPTH	-55.265	0.538	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-60.169	0.591	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-76.608	0.760	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-62.764	0.619	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-94.595	0.998	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-79.451	0.780	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-58.966	0.552	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-58.707	0.566	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-55.412	0.514	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-41.723	0.398	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-49.985	0.513	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-55.875	0.494	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-87.625	0.844	
AYS	ANGULARITY	AUS	ANGULARITY	-36.376	0.331	

Conversion Factors For Type. Source = INTERBULL MACE 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

breed	canait	country2	forait	avalue	bvalue	tcorr2
AYS	CONFORMATION	DEU	OVERALL TYPE (RZE)	-21.265	0.220	0.48
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-44.053	0.436	
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-35.971	0.347	
AYS	STATURE	DEU	STATURE	-46.440	0.487	
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-38.313	0.392	
AYS	BODY DEPTH	DEU	BODY DEPTH	-51.295	0.528	
AYS	PIN WIDTH	DEU	RUMP WIDTH	-57.536	0.611	
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-58.976	0.558	
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-36.237	0.366	
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-66.088	0.647	
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-40.726	0.404	
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-51.771	0.517	
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-40.564	0.416	
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-47.363	0.446	
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-48.326	0.473	
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-41.386	0.400	
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-50.981	0.488	
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-55.546	0.526	
AYS	ANGULARITY	DEU	ANGULARITY	-36.416	0.388	

Conversion Factors For Type. Source = INTERBULL MACE 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

breed	canTrait	country2	forTrait	avalue	bvalue	tcor2
AYS	CONFORMATION	DFS	OVERALL CONFORMATION	-38.188	0.351	0.55
AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-47.074	0.448	
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-41.675	0.398	
AYS	STATURE	DFS	STATURE	-58.413	0.564	
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-24.370	0.250	
AYS	BODY DEPTH	DFS	BODY DEPTH	-40.588	0.385	
AYS	PIN WIDTH	DFS	RUMP WIDTH	-48.386	0.476	
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-51.822	0.533	
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-22.085	0.227	
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-67.669	0.715	
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-43.635	0.422	
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-49.048	0.470	
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-41.186	0.400	
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-40.336	0.378	
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-42.279	0.420	
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-36.805	0.364	
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-48.818	0.437	
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-48.035	0.459	
AYS	ANGULARITY	DFS	ANGULARITY	-44.372	0.411	

Conversion Factors For Type. Source = INTERBULL MACE 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

breed	canTrait	country2	forTrait	avalue	bvalue	tcor2
AYS	CONFORMATION	GBR	CONFORMATION	-0.051	2.450	0.50
AYS	FEET AND LEGS	GBR	OVERALL FEET & LEG	-1.005	2.375	
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	0.007	2.886	
AYS	STATURE	GBR	STATURE	-1.888	4.165	
AYS	CHEST WIDTH	GBR	CHEST WIDTH	2.177	3.498	
AYS	BODY DEPTH	GBR	BODY DEPTH	0.381	3.255	
AYS	PIN WIDTH	GBR	RUMP WIDTH	0.821	3.528	
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-2.350	4.482	
AYS	FOOT ANGLE	GBR	FOOT ANGLE	0.101	3.022	
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	1.881	2.873	
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.681	2.573	

breed	trait	country2	foreign trait	a value	b value	tcorr2
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	0.433	2.772	
AYS	FORE ATTACHMENT	GBR	FORE UDDER	1.301	2.864	
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	2.224	3.487	
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-0.593	3.091	
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-1.157	2.779	
AYS	REAR TEAT PLACEMENT	GBR	REAR TEAT PLACEMENT	-3.391	1.137	
AYS	ANGULARITY	GBR	ANGULARITY	-1.632	3.201	

Conversion Factors For Type. Source = INTERBULL MACE 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NOR

breed	trait	country2	foreign trait	a value	b value	tcorr2
AYS	CONFORMATION	NOR	OVERALL CONFORMATION	-24.005	0.205	0.28
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-30.836	0.280	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-29.248	0.237	
AYS	STATURE	NOR	STATURE	-47.784	0.411	
AYS	CHEST WIDTH	NOR	CHEST WIDTH	-28.256	0.293	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-41.035	0.416	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	6.152	-0.067	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-43.309	0.477	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-29.349	0.279	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-37.250	0.321	
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-10.879	0.076	
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-37.059	0.326	
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-47.449	0.433	
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-23.593	0.233	
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-37.881	0.300	
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	33.905	-0.385	

Conversion Factors For Type. Source = INTERBULL MACE 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

breed	trait	country2	foreign trait	a value	b value	tcorr2
AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-4.561	6.842	0.15

AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-5.084	11.681
AYS	STATURE	NZL	STATURE	-8.416	9.680
AYS	CHEST WIDTH	NZL	CHEST WIDTH	-0.419	8.612
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.125	7.025
AYS	PIN WIDTH	NZL	RUMP WIDTH	-1.705	16.386
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.536	17.862
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	4.278	31.870
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-2.716	12.569
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-4.708	12.054
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.094	18.035
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-5.030	12.558
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-5.706	16.264

Conversion Factors For Type. Source = INTERBULL MACE 1012
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

breed	canrait	country2	forrait	avalue	bvalue	tcorr2
AYS	CONFORMATION	USA	CONFORMATION	-0.271	5.682	0.69
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-1.346	3.579	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	0.502	4.991	
AYS	STATURE	USA	STATURE	-0.139	2.421	
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.427	4.614	
AYS	BODY DEPTH	USA	BODY DEPTH	-0.264	4.068	
AYS	PIN WIDTH	USA	RUMP WIDTH	1.009	4.165	
AYS	RUMP ANGLE	USA	RUMP ANGLE	-0.850	5.413	
AYS	FOOT ANGLE	USA	FOOT ANGLE	-0.525	6.460	
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.473	8.437	
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.125	4.499	
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-0.017	5.327	
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.245	4.589	
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.097	4.345	
AYS	TEAT LENGTH	USA	TEAT LENGTH	0.555	3.727	
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	0.312	4.408	
AYS	ANGULARITY	USA	ANGULARITY	-0.069	5.159	

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2010

BREED	BMILK	BFAT	BPRT
AYS	7230	290	243
BSW	7859	323	276
CN	5184	225	187
GUE	6713	308	234
JER	6217	303	237
HOL	9564	357	307

MS 6378 227 209

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

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EBVFAT% = 200 * [(357+50*.5)/(9564+1000*.5)-(357/9564)]
        = 200 * [(357+25)/(9564+500)-(0.03733)]
        = 200 * [ 0.03796 - 0.03733 ]
        = 200 * 0.00063
        = 0.13

EBVPRT% = 200 * [(307+40*.5)/(9564+1000*.5)-(307/9564)]
        = 200 * [(307+20)/(9564+500)-(0.03210)]
        = 200 * [ 0.03249 - 0.03210 ]
        = 200 * 0.00039
        = 0.08
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