
 Conversion Factors For Production Traits. Source: INTERBULL 1308

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	686.38	1.164	24.489	1.144	20.992	1.288	0.6561
JER	DEU	85.48	1.112	25.962	1.050	10.234	0.934	0.7744
JER	DFS	-5905.57	61.226	-145.561	2.009	-139.537	1.637	0.8464
JER	GBR	-423.44	2.553	-0.845	3.031	-7.054	3.023	0.7569
JER	IRL	970.58	2.903	-13.366	3.385	12.397	2.793	0.6241
JER	ITA	111.25	0.999	21.241	0.872	10.339	0.830	0.7744
JER	NLD	2381.28	0.958	52.186	1.002	61.688	0.915	0.7921
JER	NZL	681.24	1.533	23.405	1.473	19.814	1.547	0.5625
JER	USA	715.21	0.891	20.847	0.966	21.588	0.920	0.8100
JER	ZAF	231.81	1.672	7.933	1.617	8.655	1.542	0.7225

 Conversion Factors For SCS Traits. Source: INTERBULL 1308

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

breed	country2	a	b	scorr2
JER	AUS	3.668	-0.006	0.6084
JER	DFS	4.477	-0.016	0.7569
JER	GBR	2.950	0.018	0.8281
JER	NLD	-1.413	0.046	0.8281
JER	NZL	2.975	0.445	0.5776
JER	USA	-0.036	1.004	0.8649
JER	ZAF	2.960	0.010	0.7569

 Conversion Factors For Type. Source = INTERBULL MACE 1308

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
JER CONFORMATION	AUS GENERAL APPEARANCE		-34.665	0.2853	0.15
JER FEET AND LEGS	AUS OVERALL FEET & LEG		-84.060	0.8026	
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE		-67.206	0.6267	
JER STATURE	AUS STATURE		-58.249	0.5404	
JER CHEST WIDTH	AUS CHEST WIDTH		-78.694	0.8040	
JER BODY DEPTH	AUS BODY DEPTH		-66.636	0.6793	
JER PIN WIDTH	AUS PIN WIDTH		-91.356	0.9089	

JER RUMP ANGLE	AUS RUMP ANGLE	-56.218	0.5769
JER FOOT ANGLE	AUS FOOT ANGLE	-91.867	0.8973
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-43.175	0.4659
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-30.276	0.2529
JER UDDER DEPTH	AUS UDDER DEPTH	-63.199	0.5778
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-67.480	0.6800
JER FORE ATTACHMENT	AUS FORE UDDER	-46.825	0.4115
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-53.644	0.5252
JER TEAT LENGTH	AUS TEAT LENGTH	-42.595	0.4135
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-69.957	0.6600
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-86.694	0.8601
JER ANGULARITY	AUS ANGULARITY	-48.761	0.4661

Conversion Factors For Type. Source = INTERBULL MACE 1308
 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

JER CONFORMATION	DFS CONFORMATION	-20.439	0.1563	0.14
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-33.194	0.3020	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-45.912	0.4434	
JER STATURE	DFS STATURE	-50.803	0.4823	
JER CHEST WIDTH	DFS CHEST WIDTH	-30.063	0.2977	
JER BODY DEPTH	DFS BODY DEPTH	-35.065	0.3362	
JER PIN WIDTH	DFS RUMP WIDTH	-59.410	0.5288	
JER RUMP ANGLE	DFS RUMP ANGLE	-39.507	0.4231	
JER FOOT ANGLE	DFS FOOT ANGLE	-35.982	0.3699	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-33.342	0.3663	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-40.450	0.3434	
JER UDDER DEPTH	DFS UDDER DEPTH	-34.187	0.3292	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-52.436	0.5172	
JER FORE ATTACHMENT	DFS FORE UDDER	-32.546	0.2907	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-44.159	0.4109	
JER TEAT LENGTH	DFS TEAT LENGTH	-33.022	0.3306	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-51.197	0.4848	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-49.149	0.4615	
JER ANGULARITY	DFS ANGULARITY	-29.679	0.2711	

Conversion Factors For Type. Source = INTERBULL MACE 1308
 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 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

JER CONFORMATION	GBR CONFORMATION	-5.986	3.1410	0.66
JER FEET AND LEGS	GBR OVERALL FEET & LEG	-3.864	3.5454	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.883	4.0212	
JER STATURE	GBR STATURE	-8.103	7.0211	
JER CHEST WIDTH	GBR CHEST WIDTH	0.260	3.7048	
JER BODY DEPTH	GBR BODY DEPTH	-0.575	3.1818	
JER PIN WIDTH	GBR RUMP WIDTH	-3.634	4.9440	
JER RUMP ANGLE	GBR RUMP ANGLE	-0.773	4.6119	
JER FOOT ANGLE	GBR FOOT ANGLE	-2.102	3.4416	
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	2.425	2.7772	
JER UDDER DEPTH	GBR UDDER DEPTH	-2.210	3.0612	
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.905	3.8036	
JER FORE ATTACHMENT	GBR FORE UDDER	-1.958	3.1415	
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.588	3.6914	
JER TEAT LENGTH	GBR TEAT LENGTH	-1.517	3.3915	
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-6.125	5.4125	
JER ANGULARITY	GBR ANGULARITY	-5.381	4.8506	

Conversion Factors For Type. Source = INTERBULL MACE 1308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

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		

JER CONFORMATION	ITA CONFORMATION	-4.858	5.5729	0.61
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-3.023	3.6964	
JER STATURE	ITA STATURE	-2.890	4.2794	
JER CHEST WIDTH	ITA CHEST WIDTH	-1.012	4.3101	
JER BODY DEPTH	ITA BODY DEPTH	-1.181	2.9488	
JER PIN WIDTH	ITA RUMP WIDTH	-2.355	3.0954	
JER RUMP ANGLE	ITA RUMP ANGLE	0.641	3.9403	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.097	2.5800	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	3.052	2.1754	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-4.493	1.0969	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.420	3.4136	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-0.751	2.3331	
JER FORE ATTACHMENT	ITA FORE UDDER	-4.060	2.8208	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.252	2.0041	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.441	1.5759	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.092	4.4582	
JER ANGULARITY	ITA ANGULARITY	-1.206	3.2904	

 Conversion Factors For Type. Source = INTERBULL MACE 1308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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
JER CONFORMATION	NLD CONFORMATION		-104.512	1.1960	0.53
JER FEET AND LEGS	NLD OVERALL FEET & LEG		-132.387	1.1359	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE		-104.343	1.1096	
JER STATURE	NLD STATURE		-80.606	1.1147	
JER CHEST WIDTH	NLD CHEST WIDTH		-70.260	0.9025	
JER BODY DEPTH	NLD BODY DEPTH		-124.436	1.4888	
JER PIN WIDTH	NLD RUMP WIDTH		-60.270	0.7094	
JER RUMP ANGLE	NLD RUMP ANGLE		-101.398	1.0884	
JER FOOT ANGLE	NLD FOOT ANGLE		-115.634	1.1998	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET		-95.171	0.9654	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW		-78.180	0.6575	
JER UDDER DEPTH	NLD UDDER DEPTH		-83.177	0.8903	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY		-97.023	0.9974	
JER FORE ATTACHMENT	NLD FORE UDDER		-72.376	0.7114	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT		-105.007	1.0466	
JER TEAT LENGTH	NLD TEAT LENGTH		-97.612	0.9378	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT		-143.419	1.4383	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT		-109.995	1.1289	
JER ANGULARITY	NLD ANGULARITY		-89.517	1.0503	

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

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
JER CONFORMATION	NZL OVERALL CONFORMATION		-8.677	8.4996	0.24
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE		-7.794	9.6927	
JER STATURE	NZL STATURE		7.952	15.6530	
JER CHEST WIDTH	NZL CHEST WIDTH		4.292	8.9305	
JER BODY DEPTH	NZL BODY DEPTH		2.954	9.9374	
JER PIN WIDTH	NZL RUMP WIDTH		4.909	19.7827	

JER RUMP ANGLE	NZL RUMP ANGLE	2.037	16.8713
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	1.195	27.9219
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-2.596	8.4196
JER FORE ATTACHMENT	NZL FORE UDDER	-6.468	6.5418
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-3.954	18.3360
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-9.669	11.9596
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-0.878	15.8189

Conversion Factors For Type. Source = INTERBULL MACE 1308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

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
JER CONFORMATION	USA PTA TYPE (FINAL SCORE)	-4.360	4.8205	0.55	
JER FEET AND LEGS	USA OVERALL FEET & LEG	-3.095	5.5504		
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-3.277	7.7104		
JER STATURE	USA STATURE	-1.588	4.4195		
JER CHEST WIDTH	USA STRENGTH	-1.586	6.6140		
JER PIN WIDTH	USA THURL WIDTH	-1.332	5.4354		
JER RUMP ANGLE	USA RUMP ANGLE	1.872	4.7573		
JER FOOT ANGLE	USA FOOT ANGLE	-2.590	6.5395		
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	2.809	7.6477		
JER UDDER DEPTH	USA UDDER DEPTH	-3.787	3.0190		
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.008	7.2564		
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-4.009	4.0528		
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-1.539	5.0054		
JER TEAT LENGTH	USA TEAT LENGTH	-0.448	4.4531		
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-2.134	4.9546		
JER ANGULARITY	USA DAIRY FORM	-0.302	5.4294		

Conversion Factors For Type. Source = INTERBULL MACE 1308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

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
JER STATURE	ZAF STATURE	-64.720	0.6010		

JER CHEST WIDTH	ZAF CHEST WIDTH	-49.106	0.4783
JER BODY DEPTH	ZAF BODY DEPTH	-48.076	0.4684
JER PIN WIDTH	ZAF RUMP WIDTH	-46.640	0.4432
JER RUMP ANGLE	ZAF RUMP ANGLE	-52.035	0.5331
JER FOOT ANGLE	ZAF FOOT ANGLE	-37.365	0.3548
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-22.475	0.2548
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-5.542	0.0083
JER UDDER DEPTH	ZAF UDDER DEPTH	-41.306	0.3771
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-53.638	0.5320
JER FORE ATTACHMENT	ZAF FORE UDDER	-39.048	0.3437
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-52.384	0.5057
JER TEAT LENGTH	ZAF TEAT LENGTH	-40.213	0.3926
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-53.651	0.4962
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-56.537	0.5563
JER ANGULARITY	ZAF ANGULARITY	-58.261	0.5497

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2013

BREED	BMILK	BFAT	BPRT
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AYS	7457	304	251
BSW	8040	333	282
CN	5804	246	203
GUE	6847	300	232
JER	6294	312	240
HOL	9754	369	312
MS	6656	248	226

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(369 + 50 * .5) / (9754 + 1000 * .5) - (369 / 9754)] \\ &= 200 * [(369 + 25) / (9754 + 500) - (0.03783)] \\ &= 200 * [0.03842 - 0.03783] \\ &= 200 * 0.00059 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(312 + 40 * .5) / (9754 + 1000 * .5) - (312 / 9754)] \\ &= 200 * [(312 + 20) / (9754 + 500) - (0.03199)] \\ &= 200 * [0.03238 - 0.03199] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$