

-----

Conversion Factors For Production Traits. Source: INTERBULL 1104

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	761.71	1.2278	29.401	1.1676	23.407	1.3910	0.6724
JER	DEU	101.72	1.3337	29.283	1.1174	11.681	1.1292	0.7921
JER	DFS	-5697.75	58.0966	-160.180	2.1254	-142.337	1.6279	0.8464
JER	GBR	-257.12	2.7861	5.325	3.0165	-4.670	3.1218	0.7744
JER	IRL	1065.21	3.1428	-19.170	4.1844	15.696	2.7050	0.5776
JER	ITA	137.38	0.9934	25.865	0.8797	12.372	0.8452	0.7921
JER	NLD	2394.87	0.9246	56.980	1.0146	65.931	0.9406	0.8100
JER	NZL	833.33	1.6369	31.393	1.5209	24.106	1.6483	0.5625
JER	USA	735.86	0.9262	24.184	0.9955	22.932	0.9537	0.8100
JER	ZAF	175.84	1.7863	9.281	1.7370	8.025	1.6369	0.7396

-----

Conversion Factors For SCS Traits. Source: INTERBULL 1104

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

breed	country2	a	b	scorr2
JER	AUS	3.6810	-0.0065	0.6084
JER	DFS	4.5525	-0.0171	0.7569
JER	GBR	2.9406	0.0185	0.8281
JER	NLD	7.3905	-0.0460	0.8464
JER	NZL	2.9581	0.4526	0.5929
JER	USA	-0.3125	1.0909	0.8836
JER	ZAF	2.9574	0.0986	0.7396

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104

Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=AUS

c	c	f			
a		o			
n		u	a	b	t
b	t	n	v	v	c
r	r	t	a	a	o
e	a	r	l	l	r
e	i	y	u	u	r
d	t	2	e	e	2
JER CONFORMATION	AUS GENERAL APPEARANCE		-32.936	0.276	0.15
JER FEET AND LEGS	AUS OVERALL FEET & LEG		-83.373	0.808	
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE		-60.776	0.574	
JER STATURE	AUS STATURE		-56.554	0.520	
JER CHEST WIDTH	AUS CHEST WIDTH		-71.038	0.711	
JER BODY DEPTH	AUS BODY DEPTH		-55.113	0.563	
JER PIN WIDTH	AUS PIN WIDTH		-86.791	0.861	

JER RUMP ANGLE	AUS RUMP ANGLE	-57.116	0.589
JER FOOT ANGLE	AUS FOOT ANGLE	-84.501	0.826
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-40.562	0.446
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-55.217	0.516
JER UDDER DEPTH	AUS UDDER DEPTH	-67.698	0.625
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-66.462	0.670
JER FORE ATTACHMENT	AUS FORE UDDER	-41.047	0.360
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-49.441	0.484
JER TEAT LENGTH	AUS TEAT LENGTH	-41.721	0.402
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-68.962	0.658
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-81.400	0.805
JER ANGULARITY	AUS ANGULARITY	-33.000	0.323

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=DNK

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	DNK OVERALL CONFORMATION	-18.927	0.147	0.14
JER FEET AND LEGS	DNK OVERALL FEET & LEG	-33.982	0.324	
JER MAMMARY SYSTEM	DNK OVERALL UDDER SCORE	-43.483	0.421	
JER STATURE	DNK STATURE	-47.765	0.441	
JER CHEST WIDTH	DNK CHEST WIDTH	-28.799	0.271	
JER BODY DEPTH	DNK BODY DEPTH	-30.422	0.295	
JER PIN WIDTH	DNK RUMP WIDTH	-56.372	0.503	
JER RUMP ANGLE	DNK RUMP ANGLE	-41.104	0.437	
JER FOOT ANGLE	DNK FOOT ANGLE	-37.391	0.385	
JER REAR LEGS SIDE VIEW	DNK REAR LEG SET	-34.752	0.383	
JER REAR LEG REAR VIEW	DNK REAR LEG REAR VIEW	-33.079	0.292	
JER UDDER DEPTH	DNK UDDER DEPTH	-36.972	0.360	
JER MEDIAN SUSPENSORY	DNK MEDIAN SUSPENSORY	-48.995	0.493	
JER FORE ATTACHMENT	DNK FORE UDDER	-32.450	0.294	
JER FRONT TEAT PLACEMENT	DNK FRONT TEAT PLACEMENT	-41.772	0.397	
JER TEAT LENGTH	DNK TEAT LENGTH	-31.083	0.303	
JER REAR ATTACHMENT HEIGHT	DNK REAR UDDER WIDTH	-46.406	0.447	
JER REAR TEAT PLACEMENT	DNK REAR TEAT PLACEMENT	-45.115	0.431	
JER ANGULARITY	DNK DAIRY FORM	-20.465	0.187	

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104  
 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	-4.078	3.187 0.66
JER FEET AND LEGS	GBR OVERALL FEET & LEG	-3.027	3.772
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-2.335	3.749
JER STATURE	GBR STATURE	-6.910	5.990
JER CHEST WIDTH	GBR CHEST WIDTH	-1.049	3.270
JER BODY DEPTH	GBR BODY DEPTH	0.899	2.340
JER PIN WIDTH	GBR RUMP WIDTH	-3.435	4.749
JER RUMP ANGLE	GBR RUMP ANGLE	-0.257	4.720
JER FOOT ANGLE	GBR FOOT ANGLE	-1.395	3.786
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	2.796	2.706
JER UDDER DEPTH	GBR UDDER DEPTH	-2.072	3.140
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.859	3.686
JER FORE ATTACHMENT	GBR FORE UDDER	-1.804	3.172
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.408	3.513
JER TEAT LENGTH	GBR TEAT LENGTH	-1.042	2.929
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-4.345	4.981
JER REAR TEAT PLACEMENT	GBR REAR TEAT PLACEMENT	-1.496	0.000
JER ANGULARITY	GBR ANGULARITY	-2.402	3.451

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104  
 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	-3.893	5.569 0.61
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-2.109	4.009
JER STATURE	ITA STATURE	-2.718	4.392
JER CHEST WIDTH	ITA CHEST WIDTH	-1.272	4.300
JER BODY DEPTH	ITA BODY DEPTH	2.420	2.542
JER PIN WIDTH	ITA RUMP WIDTH	-1.466	3.705
JER RUMP ANGLE	ITA RUMP ANGLE	0.493	3.856
JER FOOT ANGLE	ITA FOOT ANGLE	-0.041	2.899
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	3.116	2.279
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-2.847	1.092
JER UDDER DEPTH	ITA UDDER DEPTH	-2.234	3.779
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	0.112	2.209
JER FORE ATTACHMENT	ITA FORE UDDER	-3.545	3.086
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-0.971	1.949
JER TEAT LENGTH	ITA TEAT LENGTH	-0.631	1.434
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-1.464	4.113
JER ANGULARITY	ITA ANGULARITY	0.339	2.398

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=NLD

c a n b t r r e a e i d t	c f o o u r n t t r r a y i 2 t	a v a l u e	b v a l u e	t c o r r e 2
JER CONFORMATION	NLD CONFORMATION	-124.612	1.456	0.53
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-122.006	1.054	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-110.164	1.194	
JER STATURE	NLD STATURE	-74.932	1.025	
JER CHEST WIDTH	NLD CHEST WIDTH	-88.440	1.100	
JER BODY DEPTH	NLD BODY DEPTH	-109.336	1.352	
JER PIN WIDTH	NLD RUMP WIDTH	10.065	-0.144	
JER RUMP ANGLE	NLD RUMP ANGLE	-101.267	1.087	
JER FOOT ANGLE	NLD FOOT ANGLE	-124.370	1.294	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-91.137	0.928	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-64.017	0.548	
JER UDDER DEPTH	NLD UDDER DEPTH	-92.503	0.999	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-94.378	0.980	
JER FORE ATTACHMENT	NLD FORE UDDER	-75.592	0.754	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-107.890	1.085	
JER TEAT LENGTH	NLD TEAT LENGTH	-104.694	1.007	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-133.090	1.361	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-99.978	1.030	
JER ANGULARITY	NLD ANGULARITY	-71.685	0.752	

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=NZL

c a n b t r r e a e i d t	c f o o u r n t t r r a y i 2 t	a v a l u e	b v a l u e	t c o r r e 2
JER CONFORMATION	NZL OVERALL CONFORMATION	-6.948	8.289	0.24
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-5.775	9.181	
JER STATURE	NZL STATURE	7.572	14.518	
JER CHEST WIDTH	NZL CHEST WIDTH	1.678	6.846	
JER BODY DEPTH	NZL BODY DEPTH	3.061	10.029	

JER PIN WIDTH	NZL RUMP WIDTH	3.181	17.820
JER RUMP ANGLE	NZL RUMP ANGLE	1.999	17.292
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	1.270	30.930
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-1.357	7.685
JER FORE ATTACHMENT	NZL FORE UDDER	-5.798	6.581
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-2.672	17.902
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-7.517	10.869
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-0.608	14.535

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104  
 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)	-2.756	4.754	0.55
JER FEET AND LEGS	USA OVERALL FEET & LEG	-2.673	5.398	
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-1.667	7.483	
JER STATURE	USA STATURE	-1.816	3.977	
JER CHEST WIDTH	USA STRENGTH	-1.846	6.149	
JER PIN WIDTH	USA THURL WIDTH	-1.122	5.316	
JER RUMP ANGLE	USA RUMP ANGLE	1.866	4.909	
JER FOOT ANGLE	USA FOOT ANGLE	-2.150	7.031	
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	3.428	8.010	
JER UDDER DEPTH	USA UDDER DEPTH	-3.659	3.324	
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	0.748	6.890	
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-3.352	4.350	
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.636	5.006	
JER TEAT LENGTH	USA TEAT LENGTH	-0.450	4.171	
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.911	4.754	
JER ANGULARITY	USA DAIRY FORM	1.029	4.277	

-----

Conversion Factors For Type. Source = INTERBULL MACE 1104  
 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	-5.916	24.591
JER CHEST WIDTH	ZAF CHEST WIDTH	-2.590	25.538
JER BODY DEPTH	ZAF BODY DEPTH	-1.722	18.432
JER PIN WIDTH	ZAF RUMP WIDTH	-4.023	36.652
JER RUMP ANGLE	ZAF RUMP ANGLE	0.811	24.861
JER FOOT ANGLE	ZAF FOOT ANGLE	-1.321	21.810
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	3.119	42.238
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-3.038	0.926
JER UDDER DEPTH	ZAF UDDER DEPTH	-2.975	23.958
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-0.478	31.762
JER FORE ATTACHMENT	ZAF FORE UDDER	-4.044	18.884
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-1.388	17.302
JER TEAT LENGTH	ZAF TEAT LENGTH	-0.512	10.498
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-3.625	20.500
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-1.203	15.174
JER ANGULARITY	ZAF ANGULARITY	-2.477	20.725

-----

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2011

BREED	BMILK	BFAT	BPRT
-----	-----	-----	-----
AYS	7320	295	246
BSW	7988	326	278
CN	5285	227	188
GUE	6709	303	231
JER	6256	305	239
HOL	9606	359	308
MS	6506	230	215

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (359 + 50 * .5) / (9606 + 1000 * .5) - (359 / 9606) ] \\ &= 200 * [ (359 + 25) / (9606 + 500) - (0.03737) ] \\ &= 200 * [ 0.03800 - 0.03737 ] \\ &= 200 * 0.00062 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [ (308 + 40 * .5) / (9606 + 1000 * .5) - (308 / 9606) ] \\ &= 200 * [ (308 + 20) / (9606 + 500) - (0.03206) ] \\ &= 200 * [ 0.03246 - 0.03206 ] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$