
Conversion Factors For Production Traits. Source: INTERBULL 1312

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

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	664.08	1.143	23.588	1.118	20.340	1.275	0.6400
JER	DEU	62.90	1.095	25.046	1.065	9.530	0.949	0.7744
JER	DFS	-5807.85	60.344	-145.246	2.006	-139.051	1.632	0.8464
JER	GBR	-433.78	2.532	-1.500	2.999	-7.384	3.042	0.7396
JER	IRL	879.05	2.624	-10.654	3.061	12.281	2.562	0.6400
JER	ITA	98.84	1.012	20.226	0.885	9.797	0.840	0.7569
JER	NLD	2275.29	0.898	50.507	0.990	61.049	0.903	0.7921
JER	NZL	670.41	1.517	22.135	1.475	19.223	1.550	0.5625
JER	USA	695.81	0.875	20.200	0.943	21.077	0.907	0.7921
JER	ZAF	223.20	1.646	7.554	1.595	8.229	1.533	0.7225

Conversion Factors For SCS Traits. Source: INTERBULL 1312

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	4.470	-0.016	0.7569
JER	GBR	2.951	0.018	0.8281
JER	NLD	-1.394	0.045	0.8281
JER	NZL	2.976	0.447	0.5776
JER	USA	-0.025	1.000	0.8649
JER	ZAF	2.960	0.010	0.7569

Conversion Factors For Type. Source = INTERBULL MACE 1312

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

country2=AUS

c	c	f				
a		o				
n		u	r	a	b	
b	t	n	t	v	v	
r	r	t	r	a	a	
e	a	r	a	l	l	
e	i	y	i	u	u	
d	t	2	t	e	e	
					t	
					c	
					o	
					r	
					r	
					2	
JER CONFORMATION	AUS GENERAL APPEARANCE			-34.755	0.2859	0.15
JER FEET AND LEGS	AUS OVERALL FEET & LEG			-84.996	0.8106	
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE			-67.447	0.6289	
JER STATURE	AUS STATURE			-57.901	0.5350	
JER CHEST WIDTH	AUS CHEST WIDTH			-77.448	0.7919	
JER BODY DEPTH	AUS BODY DEPTH			-65.048	0.6598	
JER PIN WIDTH	AUS PIN WIDTH			-89.405	0.8898	

JER RUMP ANGLE	AUS RUMP ANGLE	-57.332	0.5874
JER FOOT ANGLE	AUS FOOT ANGLE	-91.716	0.8938
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	-44.719	0.4801
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-24.701	0.1946
JER UDDER DEPTH	AUS UDDER DEPTH	-63.482	0.5802
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-67.015	0.6747
JER FORE ATTACHMENT	AUS FORE UDDER	-47.044	0.4163
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-53.451	0.5236
JER TEAT LENGTH	AUS TEAT LENGTH	-43.610	0.4243
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-70.878	0.6698
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-87.064	0.8696
JER ANGULARITY	AUS ANGULARITY	-54.110	0.5167

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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	-20.389	0.1554	0.14
JER FEET AND LEGS	DFS OVERALL FEET & LEG	-32.904	0.2988	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE	-45.641	0.4398	
JER STATURE	DFS STATURE	-50.811	0.4811	
JER CHEST WIDTH	DFS CHEST WIDTH	-30.966	0.3052	
JER BODY DEPTH	DFS BODY DEPTH	-35.543	0.3377	
JER PIN WIDTH	DFS RUMP WIDTH	-58.377	0.5211	
JER RUMP ANGLE	DFS RUMP ANGLE	-40.275	0.4302	
JER FOOT ANGLE	DFS FOOT ANGLE	-36.076	0.3698	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET	-33.525	0.3663	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW	-40.477	0.3429	
JER UDDER DEPTH	DFS UDDER DEPTH	-34.423	0.3305	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY	-52.040	0.5130	
JER FORE ATTACHMENT	DFS FORE UDDER	-32.371	0.2891	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT	-43.927	0.4081	
JER TEAT LENGTH	DFS TEAT LENGTH	-33.395	0.3341	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT	-50.963	0.4846	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT	-49.431	0.4646	
JER ANGULARITY	DFS ANGULARITY	-32.204	0.2943	

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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	-6.003	3.1148	0.66
JER FEET AND LEGS	GBR OVERALL FEET & LEG	-3.863	3.5817	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.886	3.9877	
JER STATURE	GBR STATURE	-8.180	6.9438	
JER CHEST WIDTH	GBR CHEST WIDTH	0.187	3.8045	
JER BODY DEPTH	GBR BODY DEPTH	-1.220	3.0981	
JER PIN WIDTH	GBR RUMP WIDTH	-3.637	4.9792	
JER RUMP ANGLE	GBR RUMP ANGLE	-0.765	4.6116	
JER FOOT ANGLE	GBR FOOT ANGLE	-2.147	3.4209	
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	2.360	2.7084	
JER UDDER DEPTH	GBR UDDER DEPTH	-2.210	3.0824	
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.939	3.7676	
JER FORE ATTACHMENT	GBR FORE UDDER	-1.922	3.1638	
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.596	3.6774	
JER TEAT LENGTH	GBR TEAT LENGTH	-1.549	3.4094	
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-6.130	5.4597	
JER ANGULARITY	GBR ANGULARITY	-5.417	4.8093	

Conversion Factors For Type. Source = INTERBULL MACE 1312
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

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	ITA CONFORMATION	-4.881	5.6385	0.61
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-3.024	3.7018	
JER STATURE	ITA STATURE	-3.007	4.2188	
JER CHEST WIDTH	ITA CHEST WIDTH	-0.928	4.2254	
JER BODY DEPTH	ITA BODY DEPTH	-1.438	2.8364	
JER PIN WIDTH	ITA RUMP WIDTH	-2.225	3.0150	
JER RUMP ANGLE	ITA RUMP ANGLE	0.568	4.0668	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.140	2.5798	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	3.029	2.2464	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-4.508	1.1320	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.428	3.3933	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-0.812	2.3179	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.973	2.7839	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.211	1.9768	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.444	1.5455	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.019	4.5273	
JER ANGULARITY	ITA ANGULARITY	-1.376	3.5837	

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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		-104.415	1.1943	0.53
JER FEET AND LEGS	NLD OVERALL FEET & LEG		-132.543	1.1364	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE		-102.671	1.0915	
JER STATURE	NLD STATURE		-81.155	1.1206	
JER CHEST WIDTH	NLD CHEST WIDTH		-64.796	0.8361	
JER BODY DEPTH	NLD BODY DEPTH		-126.409	1.5186	
JER PIN WIDTH	NLD RUMP WIDTH		-45.346	0.5304	
JER RUMP ANGLE	NLD RUMP ANGLE		-97.963	1.0520	
JER FOOT ANGLE	NLD FOOT ANGLE		-114.659	1.1904	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET		-106.246	1.0720	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW		-81.828	0.6899	
JER UDDER DEPTH	NLD UDDER DEPTH		-81.605	0.8730	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY		-96.432	0.9898	
JER FORE ATTACHMENT	NLD FORE UDDER		-70.835	0.6961	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT		-106.237	1.0577	
JER TEAT LENGTH	NLD TEAT LENGTH		-97.898	0.9402	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT		-139.765	1.4029	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT		-105.528	1.0839	
JER ANGULARITY	NLD ANGULARITY		-95.551	1.1150	

Conversion Factors For Type. Source = INTERBULL MACE 1312
 Converted Canadian Proof = A + (B* Foreign Proof)
 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		-8.753	8.4926	0.24
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE		-7.830	9.6324	
JER STATURE	NZL STATURE		7.242	15.1665	
JER CHEST WIDTH	NZL CHEST WIDTH		4.336	8.8890	
JER BODY DEPTH	NZL BODY DEPTH		2.158	9.3581	
JER PIN WIDTH	NZL RUMP WIDTH		4.734	19.4356	

JER RUMP ANGLE	NZL RUMP ANGLE	2.012	17.2112
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	1.124	26.8634
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-2.630	8.3592
JER FORE ATTACHMENT	NZL FORE UDDER	-6.239	6.4620
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-3.940	18.3448
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-9.695	11.9840
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-0.842	15.7896

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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)	-4.433	4.8416	0.55
JER FEET AND LEGS	USA OVERALL FEET & LEG	-3.047	5.4335	
JER MAMMARY SYSTEM	USA OVERALL UDDER SCORE	-3.291	7.7052	
JER STATURE	USA STATURE	-1.626	4.3706	
JER CHEST WIDTH	USA STRENGTH	-1.590	6.5703	
JER PIN WIDTH	USA THURL WIDTH	-1.358	5.5543	
JER RUMP ANGLE	USA RUMP ANGLE	1.936	4.7697	
JER FOOT ANGLE	USA FOOT ANGLE	-2.576	6.5061	
JER REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	2.706	7.6138	
JER UDDER DEPTH	USA UDDER DEPTH	-3.796	3.0474	
JER MEDIAN SUSPENSORY	USA UDDER CLEFT	-0.021	7.2066	
JER FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-3.992	4.0603	
JER FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-1.593	5.0154	
JER TEAT LENGTH	USA TEAT LENGTH	-0.389	4.5110	
JER REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-2.154	4.9652	
JER ANGULARITY	USA DAIRY FORM	-0.397	5.5086	

Conversion Factors For Type. Source = INTERBULL MACE 1312
 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	-64.509	0.5971
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JER CHEST WIDTH	ZAF CHEST WIDTH	-54.845	0.5327
JER BODY DEPTH	ZAF BODY DEPTH	-47.243	0.4611
JER PIN WIDTH	ZAF RUMP WIDTH	-46.665	0.4434
JER RUMP ANGLE	ZAF RUMP ANGLE	-51.830	0.5323
JER FOOT ANGLE	ZAF FOOT ANGLE	-36.999	0.3502
JER REAR LEGS SIDE VIEW	ZAF REAR LEG SET	-23.738	0.2653
JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-5.566	0.0083
JER UDDER DEPTH	ZAF UDDER DEPTH	-40.382	0.3665
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-53.005	0.5250
JER FORE ATTACHMENT	ZAF FORE UDDER	-38.851	0.3419
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-51.467	0.4962
JER TEAT LENGTH	ZAF TEAT LENGTH	-41.101	0.4028
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-52.605	0.4878
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-57.867	0.5693
JER ANGULARITY	ZAF ANGULARITY	-48.383	0.4594

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2013

BREED	BMILK	BFAT	BPRT
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AYS	7444	304	251
BSW	8070	334	283
CN	5778	247	202
GUE	6906	297	232
JER	6289	311	240
HOL	9756	369	313
MS	6706	250	228

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

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

EXAMPLE :

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(369 + 50 * .5) / (9756 + 1000 * .5) - (369 / 9756)] \\ &= 200 * [(369 + 25) / (9756 + 500) - (0.03782)] \\ &= 200 * [0.03842 - 0.03782] \\ &= 200 * 0.00059 \\ &= 0.12 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(313 + 40 * .5) / (9756 + 1000 * .5) - (313 / 9756)] \\ &= 200 * [(313 + 20) / (9756 + 500) - (0.03208)] \\ &= 200 * [0.03247 - 0.03208] \\ &= 200 * 0.00039 \\ &= 0.08 \end{aligned}$$