
 -
 Conversion Factors For Production Traits. Source: INTERBULL 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
JER	AUS	113.10	1.2700	-3.100	1.6780	0.100	1.3580	0.4900
JER	CHE	-25.87	1.5335	20.864	1.3837	6.385	1.3146	0.6561
JER	DEU	193.60	0.8791	25.496	1.0512	13.288	0.9045	0.7921
JER	DFS	-5851.80	59.0570	-164.500	2.1510	-143.000	1.6530	0.7921
JER	GBR	-101.60	2.8470	5.800	2.7150	-1.000	2.7310	0.6724
JER	IRL	478.40	2.3590	-23.800	3.6000	1.400	1.8880	0.5476
JER	ITA	-5.12	0.9783	11.376	0.9085	5.388	0.8510	0.7396
JER	NLD	2400.07	0.8713	45.706	0.9102	60.728	0.8443	0.7569
JER	NZL	268.10	1.3540	5.700	1.1580	4.300	1.0820	0.4096
JER	USA	861.30	0.7850	28.300	0.9100	26.100	0.8310	0.7921
JER	ZAF	178.23	1.3771	11.568	1.5108	7.397	1.4284	0.6561

 -
 Conversion Factors For SCS Traits. Source: INTERBULL 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
JER	AUS	97.300	-19.6510	0.6400
JER	CHE	59.105	0.4314	0.7921
JER	DFS	60.900	0.4430	0.8281
JER	GBR	100.400	-0.4800	0.8464
JER	ITA	21.996	0.7732	0.7569
JER	NLD	-22.470	1.3052	0.8281
JER	NZL	97.700	-10.7280	0.5184
JER	USA	195.000	-31.5600	0.8100
JER	ZAF	101.095	-0.2451	0.7396

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2112
 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

JER CONFORMATION AUS GENERAL APPEARANCE -4.771 3.8492 0.30

JER FEET AND LEGS	AUS OVERALL FEET & LEG	-41.326	0.3914
JER MAMMARY SYSTEM	AUS OVERALL UDDER SCORE	-5.292	5.0612
JER STATURE	AUS STATURE	-5.598	10.8391
JER CHEST WIDTH	AUS CHEST WIDTH	1.298	14.7894
JER BODY DEPTH	AUS BODY DEPTH	1.155	12.8300
JER PIN WIDTH	AUS PIN WIDTH	-0.475	15.2856
JER RUMP ANGLE	AUS RUMP ANGLE	0.678	14.2635
JER FOOT ANGLE	AUS FOOT ANGLE	-3.128	15.7532
JER REAR LEGS SIDE VIEW	AUS REAR LEG SET	2.915	23.1725
JER REAR LEG REAR VIEW	AUS REAR LEG REAR VIEW	-4.619	11.5101
JER UDDER DEPTH	AUS UDDER DEPTH	-5.732	13.5063
JER MEDIAN SUSPENSORY	AUS MEDIAN SUSPENSORY	-0.561	13.4117
JER FORE ATTACHMENT	AUS FORE UDDER	-5.826	11.0571
JER FRONT TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.877	12.3370
JER TEAT LENGTH	AUS TEAT LENGTH	-0.100	17.1678
JER REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-3.996	12.1915
JER REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.400	16.3830
JER ANGULARITY	AUS ANGULARITY	-3.390	14.1528

-
Conversion Factors For Type. Source = INTERBULL MACE 2112
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CHE

	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	CHE CONFORMATION	-58.245	0.5592	0.74		
JER FEET AND LEGS	CHE OVERALL FEET & LEG	-42.253	0.4015			
JER MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-51.924	0.5071			
JER STATURE	CHE STATURE	-59.997	0.5676			
JER CHEST WIDTH	CHE CHEST WIDTH	-46.295	0.4653			
JER BODY DEPTH	CHE BODY DEPTH	-36.986	0.3700			
JER PIN WIDTH	CHE RUMP WIDTH	-51.466	0.4922			
JER RUMP ANGLE	CHE RUMP ANGLE	-41.307	0.4314			
JER FOOT ANGLE	CHE FOOT ANGLE	-42.479	0.4010			
JER REAR LEGS SIDE VIEW	CHE REAR LEG SET	-57.316	0.5921			
JER REAR LEG REAR VIEW	CHE REAR LEG REAR VIEW	-40.432	0.3731			
JER UDDER DEPTH	CHE UDDER DEPTH	-50.170	0.5037			
JER MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-59.059	0.5782			
JER FORE ATTACHMENT	CHE FORE UDDER	-45.348	0.4337			
JER TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-61.393	0.6003			
JER TEAT LENGTH	CHE TEAT LENGTH	-45.057	0.4458			
JER REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-49.581	0.4795			
JER REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-57.923	0.5674			
JER ANGULARITY	CHE ANGULARITY	59.706	-0.6206			

Conversion Factors For Type. Source = INTERBULL MACE 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	c	c	f			
	a	o	o		b	t
b	n	u	r	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	DFS CONFORMATION			-27.337	0.2334	0.44
JER FEET AND LEGS	DFS OVERALL FEET & LEG			-28.606	0.2642	
JER MAMMARY SYSTEM	DFS OVERALL UDDER SCORE			-40.959	0.3954	
JER STATURE	DFS STATURE			-57.512	0.5407	
JER CHEST WIDTH	DFS CHEST WIDTH			-35.811	0.3437	
JER BODY DEPTH	DFS BODY DEPTH			-38.525	0.3572	
JER PIN WIDTH	DFS RUMP WIDTH			-52.449	0.4851	
JER RUMP ANGLE	DFS RUMP ANGLE			-46.877	0.4783	
JER FOOT ANGLE	DFS FOOT ANGLE			-42.253	0.4131	
JER REAR LEGS SIDE VIEW	DFS REAR LEG SET			-41.797	0.4477	
JER REAR LEG REAR VIEW	DFS REAR LEG REAR VIEW			-41.150	0.3658	
JER UDDER DEPTH	DFS UDDER DEPTH			-38.591	0.3989	
JER MEDIAN SUSPENSORY	DFS MEDIAN SUSPENSORY			-46.462	0.4327	
JER FORE ATTACHMENT	DFS FORE UDDER			-39.077	0.3736	
JER TEAT PLACEMENT	DFS FRONT TEAT PLACEMENT			-50.391	0.4748	
JER TEAT LENGTH	DFS TEAT LENGTH			-36.272	0.3641	
JER REAR ATTACHMENT HEIGHT	DFS REAR UDDER HEIGHT			-55.466	0.5303	
JER REAR TEAT PLACEMENT	DFS REAR TEAT PLACEMENT			-50.606	0.4669	
JER ANGULARITY	DFS ANGULARITY			-48.872	0.4639	

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o		b	t
b	n	u	r	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 FEET AND LEGS	GBR OVERALL FEET & LEG			-1.697	2.5094	
JER MAMMARY SYSTEM	GBR OVERALL UDDER SCORE			-1.779	3.6670	
JER STATURE	GBR STATURE			-5.517	5.9450	
JER CHEST WIDTH	GBR CHEST WIDTH			0.185	3.3030	
JER BODY DEPTH	GBR BODY DEPTH			0.271	3.1542	
JER PIN WIDTH	GBR RUMP WIDTH			-2.476	4.0581	
JER RUMP ANGLE	GBR RUMP ANGLE			-0.325	4.7535	

JER FOOT ANGLE	GBR FOOT ANGLE	-1.742	3.1689
JER REAR LEGS SIDE VIEW	GBR REAR LEG SET	1.172	3.0052
JER UDDER DEPTH	GBR UDDER DEPTH	-0.763	3.4856
JER MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.682	3.0576
JER FORE ATTACHMENT	GBR FORE UDDER	-1.007	3.1965
JER TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.708	4.4576
JER TEAT LENGTH	GBR TEAT LENGTH	-0.395	3.5970
JER REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-3.109	4.2506
JER ANGULARITY	GBR ANGULARITY	-4.714	4.9491

-
Conversion Factors For Type. Source = INTERBULL MACE 2112
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	-3.157	5.4954	0.58
JER FEET AND LEGS	ITA OVERALL FEET & LEG	-1.441	3.0843	
JER STATURE	ITA STATURE	-4.524	4.6476	
JER CHEST WIDTH	ITA CHEST WIDTH	0.978	3.6122	
JER BODY DEPTH	ITA BODY DEPTH	0.573	2.8895	
JER PIN WIDTH	ITA RUMP WIDTH	-2.705	3.3432	
JER RUMP ANGLE	ITA RUMP ANGLE	0.553	4.5470	
JER FOOT ANGLE	ITA FOOT ANGLE	-1.263	2.7307	
JER REAR LEGS SIDE VIEW	ITA REAR LEG SET	0.992	3.2476	
JER REAR LEG REAR VIEW	ITA REAR LEG REAR VIEW	-1.478	5.2448	
JER UDDER DEPTH	ITA UDDER DEPTH	-2.825	3.7953	
JER MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-1.487	3.1941	
JER FORE ATTACHMENT	ITA FORE UDDER	-3.361	3.4044	
JER TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-2.481	3.1182	
JER TEAT LENGTH	ITA TEAT LENGTH	-0.356	3.1008	
JER REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-2.857	3.7907	
JER ANGULARITY	ITA ANGULARITY	-2.553	4.6979	

-
Conversion Factors For Type. Source = INTERBULL MACE 2112
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	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	NLD CONFORMATION	-119.314	1.3056	0.55
JER FEET AND LEGS	NLD OVERALL FEET & LEG	-82.868	0.7432	
JER MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-115.193	1.2331	
JER STATURE	NLD STATURE	-99.214	1.3355	
JER CHEST WIDTH	NLD CHEST WIDTH	-103.429	1.3432	
JER BODY DEPTH	NLD BODY DEPTH	-82.832	1.0069	
JER PIN WIDTH	NLD RUMP WIDTH	-93.889	1.1632	
JER RUMP ANGLE	NLD RUMP ANGLE	-111.596	1.1802	
JER FOOT ANGLE	NLD FOOT ANGLE	-109.503	1.1744	
JER REAR LEGS SIDE VIEW	NLD REAR LEG SET	-162.938	1.5833	
JER REAR LEG REAR VIEW	NLD REAR LEG REAR VIEW	-136.519	1.2362	
JER UDDER DEPTH	NLD UDDER DEPTH	-107.781	1.2190	
JER MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-107.021	1.1040	
JER FORE ATTACHMENT	NLD FORE UDDER	-104.360	1.0756	
JER TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-107.521	1.1025	
JER TEAT LENGTH	NLD TEAT LENGTH	-116.663	1.1135	
JER REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-121.718	1.2385	
JER REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-120.685	1.2557	
JER ANGULARITY	NLD ANGULARITY	-94.306	1.0303	

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2112
 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	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	NZL OVERALL CONFORMATION	-9.337	9.0522	0.31
JER MAMMARY SYSTEM	NZL OVERALL UDDER SCORE	-9.877	10.4420	
JER STATURE	NZL STATURE	3.114	15.6912	
JER CHEST WIDTH	NZL CHEST WIDTH	5.354	11.7835	
JER BODY DEPTH	NZL BODY DEPTH	3.732	10.0873	
JER PIN WIDTH	NZL RUMP WIDTH	3.583	17.1174	
JER RUMP ANGLE	NZL RUMP ANGLE	1.282	17.1614	
JER REAR LEGS SIDE VIEW	NZL REAR LEG SET	-0.045	35.2018	
JER MEDIAN SUSPENSORY	NZL MEDIAN SUSPENSORY	-5.213	9.2742	
JER FORE ATTACHMENT	NZL FORE UDDER	-6.784	9.6156	
JER FRONT TEAT PLACEMENT	NZL FRONT TEAT PLACEMENT	-5.354	19.5585	
JER TEAT LENGTH	NZL TEAT LENGTH	0.073	9.8987	
JER REAR ATTACHMENT HEIGHT	NZL REAR UDDER HEIGHT	-10.509	11.8025	
JER REAR TEAT PLACEMENT	NZL REAR TEAT PLACEMENT	-2.316	14.8568	

 -

Conversion Factors For Type. Source = INTERBULL MACE 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	c	c	f			
	a	o	o		b	t
b	n	u	r	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		USA PTA TYPE (FINAL SCORE)		-0.668	4.5650	0.62
JER FEET AND LEGS		USA OVERALL FEET & LEG		-1.503	2.3885	
JER MAMMARY SYSTEM		USA OVERALL UDDER SCORE		0.132	5.3644	
JER STATURE		USA STATURE		-0.004	3.7779	
JER CHEST WIDTH		USA STRENGTH		-0.528	5.9344	
JER BODY DEPTH		USA BODY DEPTH		0.335	4.2308	
JER PIN WIDTH		USA THURL WIDTH		-0.097	5.0942	
JER RUMP ANGLE		USA RUMP ANGLE		2.192	4.4145	
JER FOOT ANGLE		USA FOOT ANGLE		-1.946	5.9963	
JER REAR LEGS SIDE VIEW		USA REAR LEGS - SIDE VIEW		1.983	6.0581	
JER REAR LEG REAR VIEW		USA REAR LEG REAR VIEW		-2.539	-4.8171	
JER UDDER DEPTH		USA UDDER DEPTH		-1.502	2.7056	
JER MEDIAN SUSPENSORY		USA UDDER CLEFT		0.032	5.5674	
JER FORE ATTACHMENT		USA FORE UDDER ATTACHMENT		-1.635	3.1793	
JER FRONT TEAT PLACEMENT		USA FRONT TEAT PLACEMENT		-0.126	4.4874	
JER TEAT LENGTH		USA TEAT LENGTH		-0.318	4.7381	
JER REAR ATTACHMENT HEIGHT		USA REAR UDDER HEIGHT		-0.160	4.4466	
JER REAR TEAT PLACEMENT		USA REAR TEAT PLACEMENT		0.684	4.1849	
JER ANGULARITY		USA DAIRY FORM		0.585	5.6339	

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ZAF

	c	c	f			
	a	o	o		b	t
b	n	u	r	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 STATURE		ZAF STATURE		-69.453	0.6465	
JER CHEST WIDTH		ZAF CHEST WIDTH		-60.112	0.5955	
JER BODY DEPTH		ZAF BODY DEPTH		-47.068	0.4682	
JER PIN WIDTH		ZAF RUMP WIDTH		-54.593	0.5398	
JER RUMP ANGLE		ZAF RUMP ANGLE		-56.576	0.5755	
JER FOOT ANGLE		ZAF FOOT ANGLE		-42.849	0.4086	
JER REAR LEGS SIDE VIEW		ZAF REAR LEG SET		-33.335	0.3497	

JER REAR LEG REAR VIEW	ZAF REAR LEG REAR VIEW	-31.009	0.2826
JER UDDER DEPTH	ZAF UDDER DEPTH	-47.343	0.4514
JER MEDIAN SUSPENSORY	ZAF MEDIAN SUSPENSORY	-50.545	0.5010
JER FORE ATTACHMENT	ZAF FORE UDDER	-45.395	0.4264
JER TEAT PLACEMENT	ZAF FRONT TEAT PLACEMENT	-58.708	0.5800
JER TEAT LENGTH	ZAF TEAT LENGTH	-47.081	0.4618
JER REAR ATTACHMENT HEIGHT	ZAF REAR UDDER HEIGHT	-56.278	0.5455
JER REAR TEAT PLACEMENT	ZAF REAR TEAT PLACEMENT	-63.017	0.6219
JER ANGULARITY	ZAF ANGULARITY	-56.117	0.5465

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2021

BREED	BMILK	BFAT	BPRT
-----	-----	-----	-----
AYS	7970	333	273
BSW	8445	360	302
CN	5642	243	201
GUE	7093	331	251
JER	6976	359	271
HOL	10720	424	350
MS	7057	279	234

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(424+50*0.5) / (10720+1000*0.5) - (424/11E3)] \\
 &= 200 * [(424+25) / (10720+500) - (0.03955)] \\
 &= 200 * [0.04002 - 0.03955] \\
 &= 200 * 0.00047 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(350+40*0.5) / (10720+1000*0.5) - (350/11E3)] \\
 &= 200 * [(350+20) / (10720+500) - (0.03265)] \\
 &= 200 * [0.03298 - 0.03265] \\
 &= 200 * 0.00033 \\
 &= 0.07
 \end{aligned}$$