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 Conversion Factors For Production Traits. Source: INTERBULL 2004
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
GUE	AUS	-164.590	1.2641	-12.083	1.3754	-2.829	1.2187	0.5041
GUE	GBR	-466.200	2.8980	-16.800	2.7670	-14.600	3.0220	0.7225
GUE	NZL	690.577	1.8173	27.876	1.5207	31.161	1.6447	0.4900
GUE	USA	173.900	0.9460	-0.900	1.0480	4.200	1.0340	0.8281

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 Conversion Factors For SCS Traits. Source: INTERBULL 2004
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
GUE	AUS	99.430	-21.5163	0.7569
GUE	GBR	102.671	-0.4011	0.8281
GUE	NZL	103.426	-8.3283	0.7569
GUE	USA	165.300	-21.6590	0.8464

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 Conversion Factors For Type. Source = INTERBULL MACE 2004
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

	c	c	f			
	a	o	o		a	b
	n	u	r		v	v
b	t	n	t		a	a
r	r	t	r		l	l
e	a	r	a		u	u
e	i	y	i		e	e
d	t	2	t			
GUE CONFORMATION		AUS CONFORMATION		1.4990	9.5242	0.35
GUE FEET AND LEGS		AUS OVERALL FEET & LEG		-40.2515	0.4132	
GUE MAMMARY SYSTEM		AUS OVERALL UDDER SCORE		1.6705	9.9747	
GUE STATURE		AUS STATURE		-1.9696	6.8060	
GUE CHEST WIDTH		AUS CHEST WIDTH		-0.9672	13.3821	
GUE BODY DEPTH		AUS BODY DEPTH		0.5067	12.4374	
GUE PIN WIDTH		AUS RUMP WIDTH		0.3262	9.4894	
GUE RUMP ANGLE		AUS RUMP ANGLE		-0.4246	7.8507	
GUE FOOT ANGLE		AUS FOOT ANGLE		1.5729	14.6759	
GUE REAR LEGS SIDE VIEW		AUS REAR LEG SET		-2.0507	17.2142	
GUE REAR LEG REAR VIEW		AUS REAR LEG REAR VIEW		0.2077	9.8146	
GUE UDDER DEPTH		AUS UDDER DEPTH		0.5910	10.8018	
GUE MEDIAN SUSPENSORY		AUS MEDIAN SUSPENSORY		1.4206	15.3512	

GUE FORE ATTACHMENT	AUS FORE UDDER	0.4210	12.0665
GUE TEAT PLACEMENT	AUS FRONT TEAT PLACEMENT	-0.4457	12.1107
GUE TEAT LENGTH	AUS TEAT LENGTH	1.3661	5.4172
GUE REAR ATTACHMENT HEIGHT	AUS REAR UDDER HEIGHT	-1.9033	12.9009
GUE REAR TEAT PLACEMENT	AUS REAR TEAT PLACEMENT	-0.3169	9.8718
GUE ANGULARITY	AUS ANGULARITY	0.1823	12.7540

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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

GUE FEET AND LEGS	GBR OVERALL FEET & LEG	1.3075	3.9243
GUE MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	0.2927	4.0973
GUE STATURE	GBR STATURE	-5.5723	4.9736
GUE CHEST WIDTH	GBR CHEST WIDTH	0.0152	3.7254
GUE BODY DEPTH	GBR BODY DEPTH	-1.4915	3.5488
GUE PIN WIDTH	GBR RUMP WIDTH	-1.2507	4.1932
GUE RUMP ANGLE	GBR RUMP ANGLE	0.0090	3.8875
GUE FOOT ANGLE	GBR FOOT ANGLE	1.3113	3.5920
GUE REAR LEGS SIDE VIEW	GBR REAR LEG SET	-1.4697	3.6127
GUE UDDER DEPTH	GBR UDDER DEPTH	0.8524	3.7230
GUE MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.0667	3.2225
GUE FORE ATTACHMENT	GBR FORE UDDER	1.8465	4.0033
GUE TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.2461	4.1490
GUE TEAT LENGTH	GBR TEAT LENGTH	-1.1708	2.2898
GUE REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-2.4803	2.6097
GUE ANGULARITY	GBR ANGULARITY	-3.9686	3.9717

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Conversion Factors For Type. Source = INTERBULL MACE 2004
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	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

GUE CONFORMATION	USA PTA TYPE (FINAL SCORE)	3.3232	7.5343	0.64
GUE FEET AND LEGS	USA OVERALL FEET & LEG	2.7961	6.2301	
GUE MAMMARY SYSTEM	USA OVERALL UDDER SCORE	3.6677	8.6534	
GUE STATURE	USA STATURE	0.1252	2.2076	
GUE CHEST WIDTH	USA STRENGTH	1.3178	4.1671	
GUE BODY DEPTH	USA BODY DEPTH	0.7683	2.7544	
GUE PIN WIDTH	USA THURL WIDTH	1.5010	3.4454	
GUE RUMP ANGLE	USA RUMP ANGLE	-0.1647	3.1126	
GUE FOOT ANGLE	USA FOOT ANGLE	2.4667	7.3130	
GUE REAR LEGS SIDE VIEW	USA REAR LEGS - SIDE VIEW	-1.2785	8.4990	
GUE REAR LEG REAR VIEW	USA REAR LEG REAR VIEW	1.5028	7.1560	
GUE UDDER DEPTH	USA UDDER DEPTH	1.8171	3.2004	
GUE MEDIAN SUSPENSORY	USA UDDER CLEFT	0.0626	4.3856	
GUE FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	2.9392	3.7044	
GUE FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	1.3136	3.2324	
GUE TEAT LENGTH	USA TEAT LENGTH	-0.6129	2.1736	
GUE REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.6553	3.8551	
GUE REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	1.7503	3.2207	
GUE ANGULARITY	USA DAIRY FORM	0.7083	3.6287	

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2020

BREED	BMILK	BFAT	BPRT
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AYS	7954	332	270
BSW	8543	365	305
CN	6174	262	221
GUE	6981	334	244
JER	6880	354	267
HOL	10563	416	343
MS	7056	274	233

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

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

EXAMPLE:

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

$$EBVFAT\% = 200 * [(416+50*0.5) / (10563+1000*0.5) - (416/11E3)]$$

$$= 200 * [(416+25) / (10563+500) - (0.03938)]$$

$$= 200 * [0.03986 - 0.03938]$$

$$= 200 * 0.00048$$

$$= 0.10$$

$$EBVPROT\% = 200 * [(343+40*0.5) / (10563+1000*0.5) - (343/11E3)]$$

$$= 200 * [(343+20) / (10563+500) - (0.03247)]$$

$$= 200 * [0.03281 - 0.03247]$$

$$= 200 * 0.00034$$

$$= 0.07$$