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 Conversion Factors For Production Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	-309.60	1.1260	-4.200	1.3460	-6.200	1.3020	0.3969
AYS	CAM	-416.68	1.1367	-24.025	0.8592	-12.149	1.3665	0.6400
AYS	DEU	567.30	0.8200	36.500	0.8390	28.000	0.8400	0.8281
AYS	DFS	-4339.40	52.4100	-156.000	2.0310	-108.300	1.5400	0.7744
AYS	EST	635.10	1.0150	24.900	1.0500	27.200	0.9760	0.6400
AYS	GBR	-383.60	1.9870	-17.900	2.4130	-11.800	2.5210	0.6561
AYS	IRL	518.84	2.8058	17.810	2.5958	22.104	2.5601	0.5625
AYS	LTU	-364.57	1.3953	-1.617	1.0950	0.959	1.2770	0.4356
AYS	LVA	293.60	1.6760	12.200	1.6890	13.600	1.8290	0.5329
AYS	NLD	1396.88	0.6910	56.857	0.7428	52.204	0.6073	0.7569
AYS	NOR	-3093.20	38.4580	-128.600	1.5910	-86.000	1.2070	0.6889
AYS	NZL	-244.40	1.2160	16.100	1.2290	6.200	1.2110	0.3249
AYS	USA	-259.00	0.7980	-16.300	0.8790	-10.400	0.8540	0.7921
AYS	ZAF	-186.29	0.8256	-7.131	0.8838	-3.429	0.8245	0.5929

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 Conversion Factors For SCS Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
AYS	AUS	94.700	-17.6570	0.6561
AYS	CAM	10.416	0.8556	0.7921
AYS	DEU	58.900	0.3890	0.8836
AYS	DFS	57.700	0.4270	0.8836
AYS	EST	70.200	0.2860	0.7744
AYS	GBR	99.300	-0.4790	0.8836
AYS	LTU	96.579	-14.6870	0.7225
AYS	LVA	98.400	-0.0110	0.7396
AYS	NLD	-29.229	1.3015	0.8281
AYS	NOR	63.100	0.3620	0.7396
AYS	NZL	94.300	-10.9760	0.5929
AYS	USA	175.700	-25.5900	0.8464
AYS	ZAF	99.852	-0.1964	0.6889

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 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

AYS	CONFORMATION	AUS	CONFORMATION	-6.162	2.7102	0.4
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-4.595	2.6674	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-6.304	2.6336	
AYS	STATURE	AUS	STATURE	-5.487	8.3459	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	1.338	12.6671	
AYS	BODY DEPTH	AUS	BODY DEPTH	-0.760	9.6337	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-3.622	10.7806	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-3.976	12.9726	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-3.924	13.9770	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	5.443	19.9908	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-4.947	19.4581	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-5.297	9.3340	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-4.114	12.6129	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-4.959	11.2402	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-0.795	9.6499	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	3.829	8.2358	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-8.221	9.4903	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-1.893	13.4648	
AYS	ANGULARITY	AUS	ANGULARITY	-6.912	9.6069	

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

country2=CAM

	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 d	i t	y 2	i t	u e	u e	r 2
AYS	CONFORMATION	CAM	CONFORMATION	-8.500	0.5717	0.5
AYS	FEET AND LEGS	CAM	OVERALL FEET & LEG	-5.670	0.4733	
AYS	MAMMARY SYSTEM	CAM	OVERALL UDDER SCORE	-9.351	0.6687	
AYS	STATURE	CAM	STATURE	-5.340	0.9170	
AYS	CHEST WIDTH	CAM	CHEST WIDTH	-1.420	0.8267	
AYS	BODY DEPTH	CAM	BODY DEPTH	-3.316	0.9049	
AYS	PIN WIDTH	CAM	RUMP WIDTH	-3.873	0.7835	
AYS	RUMP ANGLE	CAM	RUMP ANGLE	-0.576	1.0434	
AYS	FOOT ANGLE	CAM	FOOT ANGLE	-3.425	0.6198	
AYS	REAR LEGS SIDE VIEW	CAM	REAR LEG SET	3.881	0.7630	
AYS	REAR LEG REAR VIEW	CAM	REAR LEG REAR VIEW	-5.476	0.6808	
AYS	UDDER DEPTH	CAM	UDDER DEPTH	-4.517	1.1647	
AYS	MEDIAN SUSPENSORY	CAM	MEDIAN SUSPENSORY	-5.676	0.7238	
AYS	FORE ATTACHMENT	CAM	FORE UDDER	-7.767	0.6802	
AYS	TEAT PLACEMENT	CAM	FRONT TEAT PLACEMENT	-3.532	0.7649	
AYS	TEAT LENGTH	CAM	TEAT LENGTH	3.277	0.6470	
AYS	REAR ATTACHMENT HEIGHT	CAM	REAR UDDER HEIGHT	-8.938	0.7174	
AYS	REAR TEAT PLACEMENT	CAM	REAR TEAT PLACEMENT	-2.734	0.8576	
AYS	ANGULARITY	CAM	ANGULARITY	-9.479	0.7351	

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Conversion Factors For Type. Source = INTERBULL MACE 2212
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

b r e e d	c a n t r a i t	c o u n t r y 2	f o r e i g n c o u n t r y 2	a b v a l u e	b v a l u e	t c o r r e c t i o n f a c t o r
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AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-22.276	0.2143
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-30.202	0.2897
AYS	STATURE	DEU	STATURE	-42.440	0.4454
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-49.988	0.5189
AYS	BODY DEPTH	DEU	BODY DEPTH	-51.330	0.5143
AYS	PIN WIDTH	DEU	RUMP WIDTH	-52.602	0.5521
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-67.935	0.6388
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-33.379	0.3657
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-65.284	0.6421
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-51.643	0.5319
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-42.392	0.4289
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-43.752	0.4234
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-44.231	0.4283
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-43.126	0.4271
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-35.116	0.3416
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-37.141	0.3381
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-41.747	0.3950
AYS	ANGULARITY	DEU	ANGULARITY	-40.100	0.3794

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	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			
AYS	CONFORMATION	DFS	OVERALL CONFORMATION	-35.473	0.2820	0.3
7						
AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-28.526	0.2663	
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-45.381	0.4288	

AYS	STATURE	DFS	STATURE	-70.749	0.6905
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-41.984	0.4260
AYS	BODY DEPTH	DFS	BODY DEPTH	-46.872	0.4260
AYS	PIN WIDTH	DFS	RUMP WIDTH	-52.974	0.5218
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-57.099	0.5767
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-48.955	0.4812
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-62.352	0.6741
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-52.082	0.5027
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-49.758	0.5110
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-37.682	0.3287
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-42.042	0.4050
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-44.965	0.4478
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-42.906	0.4294
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-52.820	0.4755
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-45.230	0.4249
AYS	ANGULARITY	DFS	ANGULARITY	-65.358	0.5843

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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
AYS	FEET AND LEGS	GBR	OVERALL FEET & LEG	-1.864	2.3758	
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.197	2.8500	
AYS	STATURE	GBR	STATURE	-3.268	4.5821	
AYS	CHEST WIDTH	GBR	CHEST WIDTH	1.533	3.9266	

AYS	BODY DEPTH	GBR	BODY DEPTH	0.322	3.3670
AYS	PIN WIDTH	GBR	RUMP WIDTH	-1.100	3.9952
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-1.794	3.7983
AYS	FOOT ANGLE	GBR	FOOT ANGLE	-1.773	3.2870
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.093	3.3669
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.818	3.0509
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-1.992	2.7193
AYS	FORE ATTACHMENT	GBR	FORE UDDER	-0.118	3.4111
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	1.928	3.5317
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-0.352	3.3572
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.564	3.5375
AYS	ANGULARITY	GBR	ANGULARITY	-5.998	5.0846

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Conversion Factors For Type. Source = INTERBULL MACE 2212
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=LVA

	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			
						t
AYS	STATURE	LVA	STATURE	-13.653	8.6689	
AYS	CHEST WIDTH	LVA	CHEST WIDTH	-3.864	16.7010	
AYS	BODY DEPTH	LVA	BODY DEPTH	-5.846	14.3027	
AYS	PIN WIDTH	LVA	RUMP WIDTH	-7.454	13.4859	
AYS	RUMP ANGLE	LVA	RUMP ANGLE	-11.573	13.7720	
AYS	FOOT ANGLE	LVA	FOOT ANGLE	-1.963	16.3718	
AYS	REAR LEGS SIDE VIEW	LVA	REAR LEG SET	-8.490	18.5975	
AYS	REAR LEG REAR VIEW	LVA	REAR LEG REAR VIEW	-5.622	22.7984	
AYS	UDDER DEPTH	LVA	UDDER DEPTH	-9.675	12.2398	

AYS	MEDIAN SUSPENSORY	LVA	MEDIAN SUSPENSORY	-8.035	14.0009
AYS	FORE ATTACHMENT	LVA	FORE UDDER	-11.624	13.9585
AYS	TEAT PLACEMENT	LVA	FRONT TEAT PLACEMENT	-6.873	13.5185
AYS	TEAT LENGTH	LVA	TEAT LENGTH	-3.567	9.4350
AYS	REAR ATTACHMENT HEIGHT	LVA	REAR UDDER HEIGHT	-15.253	11.9313
AYS	REAR TEAT PLACEMENT	LVA	REAR TEAT PLACEMENT	-11.160	15.0906
AYS	ANGULARITY	LVA	ANGULARITY	-16.415	17.5557

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

	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			2
AYS	CONFORMATION	NLD	CONFORMATION	-108.636	1.1294	0.5
AYS	FEET AND LEGS	NLD	OVERALL FEET & LEG	-47.207	0.4663	
AYS	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-115.813	1.2307	
AYS	STATURE	NLD	STATURE	-113.581	1.2620	
AYS	CHEST WIDTH	NLD	CHEST WIDTH	-126.372	1.3733	
AYS	BODY DEPTH	NLD	BODY DEPTH	-103.519	1.1554	
AYS	PIN WIDTH	NLD	RUMP WIDTH	-84.160	0.9057	
AYS	RUMP ANGLE	NLD	RUMP ANGLE	-101.604	1.0116	
AYS	FOOT ANGLE	NLD	FOOT ANGLE	-92.100	0.9569	
AYS	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-119.384	1.1625	
AYS	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-117.308	1.1903	
AYS	UDDER DEPTH	NLD	UDDER DEPTH	-125.232	1.3176	
AYS	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-103.518	1.0471	

AYS	FORE ATTACHMENT	NLD	FORE UDDER	-125.932	1.3006
AYS	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-115.316	1.2111
AYS	TEAT LENGTH	NLD	TEAT LENGTH	-85.886	0.8799
AYS	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-98.390	1.0415
AYS	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-103.801	1.0690
AYS	ANGULARITY	NLD	ANGULARITY	-102.981	1.1241

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Conversion Factors For Type. Source = INTERBULL MACE 2212
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NOR

	c	c	f			
	a	o	o	a	b	t
b	n	u	r	v	v	c
r	t	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
AYS	CONFORMATION	NOR	OVERALL CONFORMATION	-31.025	0.2167	0.4
8						
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-28.390	0.2291	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-42.097	0.3227	
AYS	STATURE	NOR	STATURE	-49.552	0.4265	
AYS	CHEST WIDTH	NOR	CHEST WIDTH	-33.341	0.3819	
AYS	BODY DEPTH	NOR	BODY DEPTH	-36.817	0.3237	
AYS	PIN WIDTH	NOR	RUMP WIDTH	-36.156	0.3785	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-45.602	0.4720	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-38.070	0.3546	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-42.310	0.4704	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-42.766	0.3856	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-43.333	0.3663	
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-42.431	0.3439	
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-45.865	0.3903	
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-40.952	0.3662	

AYS	TEAT LENGTH	NOR	TEAT LENGTH	-37.518	0.3652
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-49.651	0.3860
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-38.408	0.3559
AYS	ANGULARITY	NOR	ANGULARITY	-47.793	0.3400

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Conversion Factors For Type. Source = INTERBULL MACE 2212
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	c	c	f			
	a	o	o		a	b
	n	u	r		v	v
b	t	n	t		a	a
r	r	r	r		l	l
e	a	y	a		u	u
e	i	2	i		e	e
d	t	2	t			2
AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-8.933	10.1065	0.3
2						
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-10.123	12.3863	
AYS	STATURE	NZL	STATURE	-12.727	11.2582	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	0.718	12.8780	
AYS	BODY DEPTH	NZL	BODY DEPTH	-0.899	10.5613	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-5.162	16.2052	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.978	18.8885	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	5.352	36.6757	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-7.227	11.4817	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-8.176	12.3709	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-6.347	21.3128	
AYS	TEAT LENGTH	NZL	TEAT LENGTH	5.774	12.6973	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-8.906	13.2113	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-6.357	16.6827	

Conversion Factors For Type. Source = INTERBULL MACE 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	c a n t r y 1	c o u n t r y 2	f o r e i g n c o u n t r y	a d j u s t e d	b i a s e d	t e s t r e l i a b i l i t y
AYS	CONFORMATION	USA	CONFORMATION	-2.751	6.6121	0.5
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.599	2.0792	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-1.166	4.8435	
AYS	STATURE	USA	STATURE	0.354	2.5791	
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.989	4.6414	
AYS	BODY DEPTH	USA	BODY DEPTH	0.444	3.5018	
AYS	PIN WIDTH	USA	RUMP WIDTH	0.874	3.8368	
AYS	RUMP ANGLE	USA	RUMP ANGLE	-2.009	3.6402	
AYS	FOOT ANGLE	USA	FOOT ANGLE	-1.344	5.1233	
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	-0.189	6.7537	
AYS	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-2.376	-5.3023	
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.279	4.1792	
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-2.886	4.0016	
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.330	3.5644	
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.544	3.6558	
AYS	TEAT LENGTH	USA	TEAT LENGTH	1.227	2.8254	
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.225	3.6084	
AYS	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	0.049	3.7574	
AYS	ANGULARITY	USA	ANGULARITY	-1.429	5.0103	

 CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2022

BREED BMILK BFAT BPRT

AYS	8022	335	275
BSW	8509	362	304
CN	5772	250	212
GUE	6832	315	242
JER	7049	363	274
HOL	10836	431	355
MS	7483	287	248

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% = $200 * [(431 + 50 * 0.5) / (10836 + 1000 * 0.5) - (431 / 11E3)]$
= $200 * [(431 + 25) / (10836 + 500) - (0.03977)]$
= $200 * [0.04023 - 0.03977]$
= $200 * 0.00045$
= 0.09

EBVPROT% = $200 * [(355 + 40 * 0.5) / (10836 + 1000 * 0.5) - (355 / 11E3)]$
= $200 * [(355 + 20) / (10836 + 500) - (0.03276)]$
= $200 * [0.03308 - 0.03276]$
= $200 * 0.00032$
= 0.06