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 Conversion Factors For Production Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	-461.60	1.2470	-7.900	1.4260	-10.100	1.3730	0.3844
AYS	CAM	-412.43	1.1545	-21.740	0.8572	-10.521	1.4295	0.6241
AYS	DEU	539.40	0.8570	36.200	0.8350	28.300	0.8980	0.8100
AYS	DFS	-4684.60	54.7030	-148.300	1.9660	-110.100	1.5540	0.7744
AYS	EST	534.10	0.9960	18.800	1.0610	23.300	1.0170	0.6400
AYS	GBR	-531.90	2.1040	-24.000	2.4960	-17.100	2.5350	0.6400
AYS	IRL	365.33	2.8296	10.255	2.5752	16.898	2.5616	0.5476
AYS	LTU	-419.92	1.2298	-4.113	0.9693	-2.452	1.1451	0.4356
AYS	LVA	185.70	1.6340	5.600	1.6280	9.100	1.7710	0.5041
AYS	NLD	1544.53	0.7218	62.862	0.7280	58.908	0.6309	0.7744
AYS	NOR	-3307.10	39.8100	-136.300	1.6170	-91.800	1.2380	0.6889
AYS	NZL	-411.90	1.3090	8.800	1.2210	0.000	1.2980	0.3364
AYS	USA	-433.10	0.8070	-23.500	0.9050	-17.500	0.8620	0.7921
AYS	ZAF	-301.27	0.8196	-12.445	0.8632	-7.200	0.8079	0.5776

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 Conversion Factors For SCS Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
AYS	AUS	94.600	-18.4930	0.6400
AYS	CAM	10.891	0.8552	0.7744
AYS	DEU	58.900	0.3920	0.8836
AYS	DFS	57.400	0.4340	0.8649
AYS	EST	69.200	0.2980	0.7921
AYS	GBR	99.000	-0.4890	0.8836
AYS	LTU	98.404	-13.5123	0.6724
AYS	LVA	98.300	-0.0120	0.7396
AYS	NLD	-28.845	1.3278	0.8464
AYS	NOR	63.100	0.3660	0.7225
AYS	NZL	94.200	-11.2380	0.5776
AYS	USA	175.000	-25.4290	0.8464
AYS	ZAF	99.714	-0.1988	0.6724

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	-6.128	2.7564	0.4
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-4.249	2.4973	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-6.284	2.5380	
AYS	STATURE	AUS	STATURE	-5.283	8.1544	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	0.438	12.0982	
AYS	BODY DEPTH	AUS	BODY DEPTH	-1.069	9.5086	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-4.256	11.2563	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-2.617	11.2238	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-4.068	14.9171	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	4.866	19.7150	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-4.548	17.5871	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-4.942	8.8127	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-3.904	12.8616	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-5.304	10.5632	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-0.593	10.3558	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	4.034	8.1613	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-7.563	9.2627	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-1.980	13.7182	
AYS	ANGULARITY	AUS	ANGULARITY	-6.972	9.9316	

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	-8.264	0.5667	0.5
6						
AYS	FEET AND LEGS		CAM OVERALL FEET & LEG	-5.399	0.4798	
AYS	MAMMARY SYSTEM		CAM OVERALL UDDER SCORE	-9.266	0.6693	
AYS	STATURE		CAM STATURE	-6.342	0.9366	
AYS	CHEST WIDTH		CAM CHEST WIDTH	-1.515	0.7820	
AYS	BODY DEPTH		CAM BODY DEPTH	-3.222	0.8312	
AYS	PIN WIDTH		CAM RUMP WIDTH	-5.190	0.8303	
AYS	RUMP ANGLE		CAM RUMP ANGLE	-0.049	0.9493	
AYS	FOOT ANGLE		CAM FOOT ANGLE	-3.681	0.6542	
AYS	REAR LEGS SIDE VIEW		CAM REAR LEG SET	3.516	0.7523	
AYS	REAR LEG REAR VIEW		CAM REAR LEG REAR VIEW	-4.836	0.6523	
AYS	UDDER DEPTH		CAM UDDER DEPTH	-4.832	1.1479	
AYS	MEDIAN SUSPENSORY		CAM MEDIAN SUSPENSORY	-5.464	0.7627	
AYS	FORE ATTACHMENT		CAM FORE UDDER	-7.444	0.6693	
AYS	TEAT PLACEMENT		CAM FRONT TEAT PLACEMENT	-4.423	0.8417	
AYS	TEAT LENGTH		CAM TEAT LENGTH	3.897	0.6475	
AYS	REAR ATTACHMENT HEIGHT		CAM REAR UDDER HEIGHT	-8.742	0.7622	
AYS	REAR TEAT PLACEMENT		CAM REAR TEAT PLACEMENT	-3.187	0.8960	
AYS	ANGULARITY		CAM ANGULARITY	-9.809	0.7145	

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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 y 2	c o u n t r y 2	f o r e i g n c o u n t r y 2	a v e r a g e	b v a r i a n c e	t c o r r e c t i o n
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AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-21.983	0.2109
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-29.833	0.2878
AYS	STATURE	DEU	STATURE	-44.526	0.4666
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-49.990	0.5051
AYS	BODY DEPTH	DEU	BODY DEPTH	-51.060	0.5130
AYS	PIN WIDTH	DEU	RUMP WIDTH	-58.582	0.6056
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-63.498	0.6011
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-35.218	0.3806
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-67.147	0.6640
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-51.032	0.5255
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-42.230	0.4296
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-44.086	0.4269
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-41.392	0.4026
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-45.639	0.4564
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-35.689	0.3544
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-37.614	0.3455
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-43.098	0.4103
AYS	ANGULARITY	DEU	ANGULARITY	-55.865	0.5313

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Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	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	DFS	OVERALL CONFORMATION	-33.631	0.2632	0.3
6						
AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-27.578	0.2598	
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-44.613	0.4237	

AYS	STATURE	DFS	STATURE	-72.040	0.7013
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-40.821	0.4065
AYS	BODY DEPTH	DFS	BODY DEPTH	-47.377	0.4320
AYS	PIN WIDTH	DFS	RUMP WIDTH	-58.115	0.5670
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-53.818	0.5438
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-52.257	0.5114
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-62.230	0.6732
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-49.640	0.4815
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-49.808	0.5129
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-37.173	0.3235
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-39.464	0.3812
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-48.302	0.4826
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-42.631	0.4345
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-51.665	0.4681
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-46.284	0.4324
AYS	ANGULARITY	DFS	ANGULARITY	-63.758	0.5651

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-1.704	2.1933	
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.379	2.6965	
AYS	STATURE	GBR	STATURE	-3.586	4.5883	
AYS	CHEST WIDTH	GBR	CHEST WIDTH	1.126	3.8461	

AYS	BODY DEPTH	GBR	BODY DEPTH	0.424	3.3892
AYS	PIN WIDTH	GBR	RUMP WIDTH	-1.457	4.1929
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-1.398	3.4948
AYS	FOOT ANGLE	GBR	FOOT ANGLE	-2.019	3.2539
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.116	3.0936
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.741	3.1480
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-2.014	2.6522
AYS	FORE ATTACHMENT	GBR	FORE UDDER	-0.408	3.2660
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	1.833	3.7876
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-0.219	3.4160
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.163	3.3265
AYS	ANGULARITY	GBR	ANGULARITY	-5.682	5.0155

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Conversion Factors For Type. Source = INTERBULL MACE 2408
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=LVA

	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	STATURE	LVA	STATURE	-13.819	8.4752	
AYS	CHEST WIDTH	LVA	CHEST WIDTH	-4.313	15.0824	
AYS	BODY DEPTH	LVA	BODY DEPTH	-6.120	13.7605	
AYS	PIN WIDTH	LVA	RUMP WIDTH	-8.906	14.2982	
AYS	RUMP ANGLE	LVA	RUMP ANGLE	-10.287	12.3216	
AYS	FOOT ANGLE	LVA	FOOT ANGLE	-2.026	15.4307	
AYS	REAR LEGS SIDE VIEW	LVA	REAR LEG SET	-8.652	18.4635	
AYS	REAR LEG REAR VIEW	LVA	REAR LEG REAR VIEW	-5.878	23.6861	
AYS	UDDER DEPTH	LVA	UDDER DEPTH	-9.531	12.0776	

AYS	MEDIAN SUSPENSORY	LVA	MEDIAN SUSPENSORY	-7.343	12.1205
AYS	FORE ATTACHMENT	LVA	FORE UDDER	-11.368	13.8888
AYS	TEAT PLACEMENT	LVA	FRONT TEAT PLACEMENT	-7.084	14.2021
AYS	TEAT LENGTH	LVA	TEAT LENGTH	-3.269	9.5227
AYS	REAR ATTACHMENT HEIGHT	LVA	REAR UDDER HEIGHT	-14.689	11.5776
AYS	REAR TEAT PLACEMENT	LVA	REAR TEAT PLACEMENT	-10.965	15.1475
AYS	ANGULARITY	LVA	ANGULARITY	-17.078	17.0966

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	-90.611	0.9496	0.5
0						
AYS	FEET AND LEGS	NLD	OVERALL FEET & LEG	-40.973	0.4161	
AYS	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-98.129	1.0692	
AYS	STATURE	NLD	STATURE	-109.226	1.2388	
AYS	CHEST WIDTH	NLD	CHEST WIDTH	-104.619	1.1565	
AYS	BODY DEPTH	NLD	BODY DEPTH	-89.751	1.0180	
AYS	PIN WIDTH	NLD	RUMP WIDTH	-89.307	0.9694	
AYS	RUMP ANGLE	NLD	RUMP ANGLE	-97.364	0.9744	
AYS	FOOT ANGLE	NLD	FOOT ANGLE	-92.302	0.9663	
AYS	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-114.473	1.1096	
AYS	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-103.429	1.0793	
AYS	UDDER DEPTH	NLD	UDDER DEPTH	-116.376	1.2477	
AYS	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-101.911	1.0406	

AYS	FORE ATTACHMENT	NLD	FORE UDDER	-114.665	1.2107
AYS	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-122.381	1.3049
AYS	TEAT LENGTH	NLD	TEAT LENGTH	-87.609	0.9003
AYS	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-97.971	1.0643
AYS	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-104.097	1.0766
AYS	ANGULARITY	NLD	ANGULARITY	-91.335	1.0076

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	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	NOR	OVERALL CONFORMATION	-31.007	0.2120	0.4
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-28.596	0.2298	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-42.418	0.3285	
AYS	STATURE	NOR	STATURE	-50.081	0.4306	
AYS	CHEST WIDTH	NOR	CHEST WIDTH	-32.491	0.3607	
AYS	BODY DEPTH	NOR	BODY DEPTH	-36.202	0.3144	
AYS	PIN WIDTH	NOR	RUMP WIDTH	-39.161	0.4061	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-42.544	0.4418	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-41.203	0.3799	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-42.629	0.4696	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-41.584	0.3757	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-43.536	0.3675	
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-42.564	0.3412	
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-44.025	0.3719	
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-44.606	0.3957	

AYS	TEAT LENGTH	NOR	TEAT LENGTH	-37.012	0.3668
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-48.734	0.3822
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-38.762	0.3513
AYS	ANGULARITY	NOR	ANGULARITY	-47.313	0.3289

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Conversion Factors For Type. Source = INTERBULL MACE 2408
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	c	c	f			
b	t	n	t	v	v	t
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	NZL	OVERALL CONFORMATION	-8.016	9.7107	0.3
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-8.676	12.0776	
AYS	STATURE	NZL	STATURE	-12.004	11.1943	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	0.881	13.3770	
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.424	12.0477	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-5.502	17.1758	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.564	18.0508	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	5.044	36.8790	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-6.841	12.7181	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-6.720	12.2679	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-5.798	20.7381	
AYS	TEAT LENGTH	NZL	TEAT LENGTH	4.098	11.7945	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-7.409	12.4494	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-6.543	16.3855	

Conversion Factors For Type. Source = INTERBULL MACE 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	c a n t r e e d	c o u n t r y	f o r e i g n	a d j u s t e d	b v a l u e	t c o r r e c t e d	2
AYS	CONFORMATION	USA	CONFORMATION	-3.185	6.4604	0.5	
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.739	2.0127		
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-1.570	4.8694		
AYS	STATURE	USA	STATURE	-0.050	2.6824		
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.556	4.4955		
AYS	BODY DEPTH	USA	BODY DEPTH	0.408	3.5835		
AYS	PIN WIDTH	USA	RUMP WIDTH	0.236	4.1877		
AYS	RUMP ANGLE	USA	RUMP ANGLE	-1.673	3.4471		
AYS	FOOT ANGLE	USA	FOOT ANGLE	-1.964	5.3553		
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	-0.293	6.7568		
AYS	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-2.245	-5.1177		
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.611	4.2550		
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-3.107	4.0497		
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.795	3.4480		
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.721	4.0042		
AYS	TEAT LENGTH	USA	TEAT LENGTH	1.535	2.8684		
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.434	3.6441		
AYS	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	-0.059	3.9110		
AYS	ANGULARITY	USA	ANGULARITY	-2.041	4.9914		

 CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2024

BREED	BMILK	BFAT	BPRT
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AYS	8168	340	281
BSW	8791	374	314
CN	5568	240	201
GUE	7268	337	256
JER	7180	370	281
HOL	11058	443	366
MS	7222	291	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% = $200 * [(443 + 50 * 0.5) / (11058 + 1000 * 0.5) - (443 / 11058)]$
 = $200 * [(443 + 25) / (11058 + 500) - (0.04006)]$
 = $200 * [0.04049 - 0.04006]$
 = $200 * 0.00043$
 = 0.09

EBVPROT% = $200 * [(366 + 40 * 0.5) / (11058 + 1000 * 0.5) - (366 / 11058)]$
 = $200 * [(366 + 20) / (11058 + 500) - (0.03310)]$
 = $200 * [0.03340 - 0.03310]$
 = $200 * 0.00030$
 = 0.06