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 Conversion Factors For Production Traits. Source: INTERBULL 2404  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	-485.10	1.2340	-9.800	1.4480	-11.500	1.3810	0.3844
AYS	CAM	-533.40	1.1490	-28.817	0.8496	-14.448	1.4081	0.6241
AYS	DEU	515.80	0.8530	34.700	0.8370	26.900	0.8880	0.8100
AYS	DFS	-4678.50	54.4240	-150.400	1.9640	-110.700	1.5440	0.7744
AYS	EST	514.60	0.9910	18.500	1.0670	22.600	1.0200	0.6400
AYS	GBR	-560.80	2.0930	-25.300	2.4600	-18.600	2.5180	0.6400
AYS	IRL	363.13	2.8522	9.821	2.5911	16.889	2.5916	0.5476
AYS	LTU	-436.06	1.2230	-4.768	0.9658	-3.043	1.1404	0.4356
AYS	LVA	166.30	1.6370	5.100	1.6730	8.400	1.7820	0.5041
AYS	NLD	1528.38	0.7223	63.729	0.7431	58.177	0.6293	0.7744
AYS	NOR	-3338.40	39.7180	-136.900	1.6090	-92.700	1.2320	0.6889
AYS	NZL	-440.00	1.2940	7.700	1.2190	-0.800	1.2870	0.3364
AYS	USA	-407.60	0.8140	-22.800	0.9020	-16.300	0.8690	0.7921
AYS	ZAF	-314.53	0.8257	-13.361	0.8614	-7.652	0.8111	0.5776

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 Conversion Factors For SCS Traits. Source: INTERBULL 2404  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
AYS	AUS	94.400	-18.4930	0.6400
AYS	CAM	10.078	0.8623	0.7744
AYS	DEU	58.200	0.3970	0.8836
AYS	DFS	57.000	0.4330	0.8649
AYS	EST	69.200	0.2950	0.7921
AYS	GBR	99.000	-0.4820	0.8836
AYS	LTU	98.232	-13.4785	0.6724
AYS	LVA	98.300	-0.0120	0.7396
AYS	NLD	-31.327	1.3522	0.8464
AYS	NOR	62.800	0.3660	0.7225
AYS	NZL	94.100	-11.2260	0.5776
AYS	USA	175.100	-25.4750	0.8464
AYS	ZAF	99.546	-0.1979	0.6724

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 Conversion Factors For Type. Source = INTERBULL MACE 2404  
 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	-6.047	2.8142	0.4
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-4.375	2.5018	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-6.132	2.5546	
AYS	STATURE	AUS	STATURE	-5.370	8.2283	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	0.731	12.0962	
AYS	BODY DEPTH	AUS	BODY DEPTH	-0.987	9.4900	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-4.024	11.3054	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-2.983	11.4259	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-4.125	14.9622	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	5.035	19.7545	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-4.504	17.7339	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-4.765	8.9016	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-4.030	12.8828	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-5.393	10.6140	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-0.682	10.3810	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	3.931	8.1489	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-7.526	9.3891	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-1.966	13.7079	
AYS	ANGULARITY	AUS	ANGULARITY	-7.030	9.9142	

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 Conversion Factors For Type. Source = INTERBULL MACE 2404  
 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	-8.256	0.5709	0.5
6						
AYS	FEET AND LEGS		CAM OVERALL FEET & LEG	-5.520	0.4857	
AYS	MAMMARY SYSTEM		CAM OVERALL UDDER SCORE	-9.257	0.6615	
AYS	STATURE		CAM STATURE	-6.415	0.9368	
AYS	CHEST WIDTH		CAM CHEST WIDTH	-1.342	0.7896	
AYS	BODY DEPTH		CAM BODY DEPTH	-3.201	0.8351	
AYS	PIN WIDTH		CAM RUMP WIDTH	-4.960	0.8420	
AYS	RUMP ANGLE		CAM RUMP ANGLE	-0.126	0.9231	
AYS	FOOT ANGLE		CAM FOOT ANGLE	-3.752	0.6616	
AYS	REAR LEGS SIDE VIEW		CAM REAR LEG SET	3.523	0.7592	
AYS	REAR LEG REAR VIEW		CAM REAR LEG REAR VIEW	-4.922	0.6541	
AYS	UDDER DEPTH		CAM UDDER DEPTH	-4.717	1.1710	
AYS	MEDIAN SUSPENSORY		CAM MEDIAN SUSPENSORY	-5.610	0.7578	
AYS	FORE ATTACHMENT		CAM FORE UDDER	-7.635	0.6530	
AYS	TEAT PLACEMENT		CAM FRONT TEAT PLACEMENT	-4.562	0.8382	
AYS	TEAT LENGTH		CAM TEAT LENGTH	3.913	0.6471	
AYS	REAR ATTACHMENT HEIGHT		CAM REAR UDDER HEIGHT	-8.796	0.7578	
AYS	REAR TEAT PLACEMENT		CAM REAR TEAT PLACEMENT	-3.269	0.8905	
AYS	ANGULARITY		CAM ANGULARITY	-9.922	0.7294	

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Conversion Factors For Type. Source = INTERBULL MACE 2404  
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 e r a g e	t c o r r e c t i o n
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AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-22.003	0.2094
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-29.712	0.2867
AYS	STATURE	DEU	STATURE	-43.900	0.4611
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-50.098	0.5074
AYS	BODY DEPTH	DEU	BODY DEPTH	-51.091	0.5128
AYS	PIN WIDTH	DEU	RUMP WIDTH	-58.545	0.6082
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-64.177	0.6071
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-35.163	0.3804
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-67.204	0.6628
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-50.771	0.5206
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-41.984	0.4292
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-44.066	0.4267
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-41.680	0.4057
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-45.542	0.4549
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-35.777	0.3536
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-37.531	0.3435
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-42.967	0.4088
AYS	ANGULARITY	DEU	ANGULARITY	-58.058	0.5558

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 Conversion Factors For Type. Source = INTERBULL MACE 2404  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 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			2
AYS	CONFORMATION	DFS	OVERALL CONFORMATION	-33.768	0.2662	0.3
6						
AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-27.788	0.2605	
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-45.075	0.4279	

AYS	STATURE	DFS	STATURE	-72.099	0.7008
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-41.039	0.4110
AYS	BODY DEPTH	DFS	BODY DEPTH	-47.619	0.4369
AYS	PIN WIDTH	DFS	RUMP WIDTH	-58.051	0.5680
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-53.900	0.5442
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-52.653	0.5142
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-62.083	0.6752
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-49.437	0.4796
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-50.079	0.5160
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-37.270	0.3250
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-39.747	0.3834
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-48.584	0.4841
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-43.072	0.4372
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-52.096	0.4710
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-46.065	0.4308
AYS	ANGULARITY	DFS	ANGULARITY	-63.966	0.5696

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Conversion Factors For Type. Source = INTERBULL MACE 2404  
 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	-1.757	2.1576	
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.387	2.7174	
AYS	STATURE	GBR	STATURE	-3.590	4.5821	
AYS	CHEST WIDTH	GBR	CHEST WIDTH	1.129	3.8457	

AYS	BODY DEPTH	GBR	BODY DEPTH	0.483	3.3978
AYS	PIN WIDTH	GBR	RUMP WIDTH	-1.458	4.2009
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-1.400	3.4948
AYS	FOOT ANGLE	GBR	FOOT ANGLE	-2.071	3.2138
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.064	3.1119
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.723	3.1639
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-2.032	2.7127
AYS	FORE ATTACHMENT	GBR	FORE UDDER	-0.421	3.2994
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	1.868	3.7773
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-0.216	3.4094
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-2.123	3.2973
AYS	ANGULARITY	GBR	ANGULARITY	-5.688	5.0164

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Conversion Factors For Type. Source = INTERBULL MACE 2404  
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	-13.964	8.5468	
AYS	CHEST WIDTH	LVA	CHEST WIDTH	-4.224	15.4331	
AYS	BODY DEPTH	LVA	BODY DEPTH	-5.923	13.7966	
AYS	PIN WIDTH	LVA	RUMP WIDTH	-8.752	14.3152	
AYS	RUMP ANGLE	LVA	RUMP ANGLE	-10.357	12.3882	
AYS	FOOT ANGLE	LVA	FOOT ANGLE	-2.715	17.2648	
AYS	REAR LEGS SIDE VIEW	LVA	REAR LEG SET	-8.398	18.4503	
AYS	REAR LEG REAR VIEW	LVA	REAR LEG REAR VIEW	-5.774	22.9684	
AYS	UDDER DEPTH	LVA	UDDER DEPTH	-9.654	12.0866	

AYS	MEDIAN SUSPENSORY	LVA	MEDIAN SUSPENSORY	-7.448	12.3460
AYS	FORE ATTACHMENT	LVA	FORE UDDER	-11.504	13.8446
AYS	TEAT PLACEMENT	LVA	FRONT TEAT PLACEMENT	-7.224	14.4376
AYS	TEAT LENGTH	LVA	TEAT LENGTH	-3.094	9.5191
AYS	REAR ATTACHMENT HEIGHT	LVA	REAR UDDER HEIGHT	-15.033	11.6862
AYS	REAR TEAT PLACEMENT	LVA	REAR TEAT PLACEMENT	-11.073	15.4163
AYS	ANGULARITY	LVA	ANGULARITY	-16.984	17.2662

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 Conversion Factors For Type. Source = INTERBULL MACE 2404  
 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	-96.346	1.0182	0.5
0						
AYS	FEET AND LEGS	NLD	OVERALL FEET & LEG	-40.408	0.4087	
AYS	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-101.542	1.1092	
AYS	STATURE	NLD	STATURE	-109.943	1.2489	
AYS	CHEST WIDTH	NLD	CHEST WIDTH	-108.963	1.2054	
AYS	BODY DEPTH	NLD	BODY DEPTH	-95.419	1.0886	
AYS	PIN WIDTH	NLD	RUMP WIDTH	-88.449	0.9628	
AYS	RUMP ANGLE	NLD	RUMP ANGLE	-97.017	0.9699	
AYS	FOOT ANGLE	NLD	FOOT ANGLE	-92.250	0.9641	
AYS	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-113.963	1.1044	
AYS	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-103.819	1.0825	
AYS	UDDER DEPTH	NLD	UDDER DEPTH	-120.001	1.2886	
AYS	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-102.328	1.0466	

AYS	FORE ATTACHMENT	NLD	FORE UDDER	-117.361	1.2409
AYS	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-120.776	1.2878
AYS	TEAT LENGTH	NLD	TEAT LENGTH	-87.264	0.8972
AYS	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-97.188	1.0552
AYS	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-103.105	1.0679
AYS	ANGULARITY	NLD	ANGULARITY	-96.475	1.0783

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Conversion Factors For Type. Source = INTERBULL MACE 2404  
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	-31.068	0.2131	0.4
8						
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-28.605	0.2292	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-42.697	0.3305	
AYS	STATURE	NOR	STATURE	-50.245	0.4309	
AYS	CHEST WIDTH	NOR	CHEST WIDTH	-32.615	0.3634	
AYS	BODY DEPTH	NOR	BODY DEPTH	-36.773	0.3191	
AYS	PIN WIDTH	NOR	RUMP WIDTH	-39.328	0.4082	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-42.569	0.4418	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-41.379	0.3799	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-42.611	0.4709	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-41.507	0.3743	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-43.741	0.3698	
AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-42.583	0.3417	
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-44.413	0.3746	
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-44.870	0.3983	



AYS	TEAT LENGTH	NOR	TEAT LENGTH	-37.123	0.3676
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-48.850	0.3826
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-38.319	0.3490
AYS	ANGULARITY	NOR	ANGULARITY	-47.759	0.3324

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Conversion Factors For Type. Source = INTERBULL MACE 2404  
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	-7.982	9.7440	0.3
1						
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-8.590	12.1249	
AYS	STATURE	NZL	STATURE	-12.055	11.1807	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	1.002	13.4344	
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.343	12.0902	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-5.335	17.2499	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-4.627	18.1138	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	5.198	36.8911	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-6.834	12.7145	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-6.761	12.3320	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-5.845	20.7756	
AYS	TEAT LENGTH	NZL	TEAT LENGTH	4.295	11.7520	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-7.377	12.4784	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-6.531	16.2969	

Conversion Factors For Type. Source = INTERBULL MACE 2404  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

	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	USA	CONFORMATION	-3.124	6.4682	0.5
8						
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.840	2.0006	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-1.534	4.8461	
AYS	STATURE	USA	STATURE	-0.179	2.6350	
AYS	CHEST WIDTH	USA	CHEST WIDTH	0.545	4.4843	
AYS	BODY DEPTH	USA	BODY DEPTH	0.435	3.5835	
AYS	PIN WIDTH	USA	RUMP WIDTH	0.322	4.1690	
AYS	RUMP ANGLE	USA	RUMP ANGLE	-1.729	3.4399	
AYS	FOOT ANGLE	USA	FOOT ANGLE	-2.099	5.3182	
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	-0.172	6.7588	
AYS	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-2.275	-5.0929	
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.581	4.2389	
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-3.150	4.0477	
AYS	FORE ATTACHMENT	USA	FORE UDDER	-0.833	3.4462	
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	-0.756	3.9486	
AYS	TEAT LENGTH	USA	TEAT LENGTH	1.567	2.8877	
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.363	3.6314	
AYS	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	-0.091	3.8363	
AYS	ANGULARITY	USA	ANGULARITY	-2.048	4.9848	

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 CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2024

BREED      BMILK      BFAT      BPRT  
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AYS	8203	342	282
BSW	8779	374	314
CN	5591	241	203
GUE	7216	335	253
JER	7169	370	280
HOL	11061	443	366
MS	7112	285	244

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% =  $200 * [(443 + 50 * 0.5) / (11061 + 1000 * 0.5) - (443 / 11061)]$   
 =  $200 * [(443 + 25) / (11061 + 500) - (0.04005)]$   
 =  $200 * [0.04048 - 0.04005]$   
 =  $200 * 0.00043$   
 = 0.09

EBVPROT% =  $200 * [(366 + 40 * 0.5) / (11061 + 1000 * 0.5) - (366 / 11061)]$   
 =  $200 * [(366 + 20) / (11061 + 500) - (0.03309)]$   
 =  $200 * [0.03339 - 0.03309]$   
 =  $200 * 0.00030$   
 = 0.06