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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
MSH	AUS	267.70	0.8270	34.800	1.2890	10.400	0.7310	0.4761
MSH	CAN	456.10	0.5190	33.600	0.6720	13.900	0.3810	0.6241
MSH	DEU	878.30	0.5110	71.600	0.7230	29.500	0.4280	0.6084
MSH	DFS	-2278.80	32.9820	-93.000	1.7060	-39.400	0.7500	0.6084
MSH	EST	892.10	0.6260	59.200	0.8930	28.200	0.5010	0.5776
MSH	GBR	174.80	1.3980	18.200	2.1840	6.900	1.3200	0.6084
MSH	IRL	798.43	1.8764	49.166	2.3339	23.580	1.4316	0.5329
MSH	LTU	218.16	0.8799	31.730	1.0184	10.228	0.7242	0.5625
MSH	LVA	693.60	1.1220	47.300	1.5180	21.100	0.9510	0.5776
MSH	NLD	1496.13	0.4291	95.240	0.6238	44.406	0.3097	0.5929
MSH	NOR	-1570.10	25.9610	-73.700	1.3980	-30.800	0.6290	0.6084
MSH	NZL	291.80	0.8680	49.100	1.0830	16.900	0.7210	0.4356
MSH	USA	283.00	0.5200	18.900	0.7770	8.000	0.4330	0.7744
MSH	ZAF	344.13	0.5524	24.748	0.8593	9.119	0.4703	0.6241

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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
MSH	AUS	98.500	-19.8070	0.7225
MSH	CAN	16.000	0.8730	0.7744
MSH	DEU	64.100	0.3800	0.7744
MSH	DFS	62.300	0.4200	0.7744
MSH	EST	73.600	0.2950	0.7569
MSH	GBR	102.900	-0.4810	0.7744
MSH	LTU	102.290	-14.6711	0.7569
MSH	LVA	102.300	-0.0120	0.7569
MSH	NLD	-25.040	1.3298	0.7921
MSH	NOR	64.700	0.3930	0.7569
MSH	NZL	98.100	-12.2660	0.6724
MSH	USA	171.100	-22.8960	0.6889
MSH	ZAF	103.718	-0.2149	0.7744

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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

MSH	CONFORMATION	AUS	CONFORMATION	3.499	4.2336	0.5
3						
MSH	FEET AND LEGS	AUS	OVERALL FEET & LEG	2.249	5.8236	
MSH	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	4.724	3.8628	
MSH	STATURE	AUS	STATURE	1.116	8.3289	
MSH	CHEST WIDTH	AUS	CHEST WIDTH	2.819	12.7742	
MSH	BODY DEPTH	AUS	BODY DEPTH	2.225	9.8797	
MSH	PIN WIDTH	AUS	RUMP WIDTH	1.453	11.9225	
MSH	RUMP ANGLE	AUS	RUMP ANGLE	-2.959	12.0033	
MSH	FOOT ANGLE	AUS	FOOT ANGLE	-0.267	20.0593	
MSH	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	1.964	24.3974	
MSH	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	0.768	24.9033	
MSH	UDDER DEPTH	AUS	UDDER DEPTH	0.011	7.2893	
MSH	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.727	14.4427	
MSH	FORE ATTACHMENT	AUS	FORE UDDER	3.597	14.2167	
MSH	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	4.393	11.1025	
MSH	TEAT LENGTH	AUS	TEAT LENGTH	-0.408	11.6601	
MSH	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	1.552	10.5265	
MSH	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	1.395	14.5552	
MSH	ANGULARITY	AUS	ANGULARITY	3.865	13.2641	

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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=CAN

b	c	c	f			
r	a	o	o	a	b	t
e	n	u	r	v	v	c
	t	n	t	a	a	o
	a	r	a	l	l	r

e d	i t	y 2	i t	u e	u e	r 2
MSH	CONFORMATION	CAN	CONFORMATION	6.567	0.8159	0.5
6						
MSH	FEET AND LEGS	CAN	OVERALL FEET & LEG	7.054	1.0694	
MSH	MAMMARY SYSTEM	CAN	OVERALL UDDER SCORE	10.744	0.9709	
MSH	STATURE	CAN	STATURE	5.982	0.8676	
MSH	CHEST WIDTH	CAN	CHEST WIDTH	0.624	0.8072	
MSH	BODY DEPTH	CAN	BODY DEPTH	1.172	0.8053	
MSH	PIN WIDTH	CAN	RUMP WIDTH	5.669	0.9238	
MSH	RUMP ANGLE	CAN	RUMP ANGLE	0.192	0.9443	
MSH	FOOT ANGLE	CAN	FOOT ANGLE	4.228	0.9064	
MSH	REAR LEGS SIDE VIEW	CAN	REAR LEG SET	-1.570	0.7943	
MSH	REAR LEG REAR VIEW	CAN	REAR LEG REAR VIEW	3.371	0.8018	
MSH	UDDER DEPTH	CAN	UDDER DEPTH	3.548	0.7292	
MSH	MEDIAN SUSPENSORY	CAN	MEDIAN SUSPENSORY	4.453	0.7811	
MSH	FORE ATTACHMENT	CAN	FORE UDDER	9.070	0.9361	
MSH	TEAT PLACEMENT	CAN	FRONT TEAT PLACEMENT	4.300	0.9781	
MSH	TEAT LENGTH	CAN	TEAT LENGTH	-5.439	1.3335	
MSH	REAR ATTACHMENT HEIGHT	CAN	REAR UDDER HEIGHT	8.230	0.9288	
MSH	REAR TEAT PLACEMENT	CAN	REAR TEAT PLACEMENT	3.302	0.9244	
MSH	ANGULARITY	CAN	ANGULARITY	7.106	0.7186	

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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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MSH	FEET AND LEGS	DEU	OVERALL FEET & LEG	-24.769	0.3343
MSH	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-23.962	0.3438
MSH	STATURE	DEU	STATURE	-33.588	0.4157
MSH	CHEST WIDTH	DEU	CHEST WIDTH	-42.828	0.4583
MSH	BODY DEPTH	DEU	BODY DEPTH	-46.151	0.4926
MSH	PIN WIDTH	DEU	RUMP WIDTH	-50.773	0.5801
MSH	RUMP ANGLE	DEU	RUMP ANGLE	-61.255	0.5829
MSH	FOOT ANGLE	DEU	FOOT ANGLE	-33.081	0.4151
MSH	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-66.762	0.6223
MSH	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-43.494	0.5021
MSH	UDDER DEPTH	DEU	UDDER DEPTH	-27.603	0.3211
MSH	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-34.304	0.3802
MSH	FORE ATTACHMENT	DEU	FORE UDDER	-34.799	0.4291
MSH	TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-41.630	0.4639
MSH	TEAT LENGTH	DEU	TEAT LENGTH	-57.431	0.5076
MSH	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-29.598	0.3633
MSH	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-37.275	0.3838
MSH	ANGULARITY	DEU	ANGULARITY	-76.483	0.8424

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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			
	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
MSH	CONFORMATION	DFS	CONFORMATION	-43.936	0.4557	0.5
8						
MSH	FEET AND LEGS	DFS	OVERALL FEET & LEG	-32.871	0.3934	
MSH	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-45.710	0.5531	

MSH	STATURE	DFS	STATURE	-59.200	0.6337
MSH	CHEST WIDTH	DFS	CHEST WIDTH	-38.408	0.4076
MSH	BODY DEPTH	DFS	BODY DEPTH	-44.249	0.4344
MSH	PIN WIDTH	DFS	RUMP WIDTH	-51.328	0.5566
MSH	RUMP ANGLE	DFS	RUMP ANGLE	-52.932	0.5366
MSH	FOOT ANGLE	DFS	FOOT ANGLE	-63.727	0.6696
MSH	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-58.782	0.6129
MSH	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-41.673	0.4618
MSH	UDDER DEPTH	DFS	UDDER DEPTH	-34.747	0.3965
MSH	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-33.305	0.3390
MSH	FORE ATTACHMENT	DFS	FORE UDDER	-39.080	0.4741
MSH	TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-45.872	0.5076
MSH	TEAT LENGTH	DFS	TEAT LENGTH	-70.056	0.6485
MSH	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-46.155	0.5039
MSH	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-43.112	0.4294
MSH	ANGULARITY	DFS	ANGULARITY	-60.191	0.6326

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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
MSH	FEET AND LEGS	GBR	OVERALL FEET & LEG	6.334	3.4306	
MSH	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	10.782	3.7105	
MSH	STATURE	GBR	STATURE	2.981	4.2335	
MSH	CHEST WIDTH	GBR	CHEST WIDTH	3.723	3.3106	

MSH	BODY DEPTH	GBR	BODY DEPTH	3.331	3.1034
MSH	PIN WIDTH	GBR	RUMP WIDTH	4.677	3.9077
MSH	RUMP ANGLE	GBR	RUMP ANGLE	-1.264	3.3641
MSH	FOOT ANGLE	GBR	FOOT ANGLE	2.205	3.8464
MSH	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-2.379	3.3299
MSH	UDDER DEPTH	GBR	UDDER DEPTH	2.948	2.3931
MSH	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	3.947	2.7030
MSH	FORE ATTACHMENT	GBR	FORE UDDER	9.790	3.6891
MSH	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	6.780	4.0466
MSH	TEAT LENGTH	GBR	TEAT LENGTH	-5.631	4.8261
MSH	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	7.121	3.6899
MSH	ANGULARITY	GBR	ANGULARITY	3.875	4.3670

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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
MSH	STATURE	LVA	STATURE	-7.664	8.5146	
MSH	CHEST WIDTH	LVA	CHEST WIDTH	-2.326	17.2207	
MSH	BODY DEPTH	LVA	BODY DEPTH	-2.864	14.1470	
MSH	PIN WIDTH	LVA	RUMP WIDTH	-3.742	14.9324	
MSH	RUMP ANGLE	LVA	RUMP ANGLE	-10.154	12.5769	
MSH	FOOT ANGLE	LVA	FOOT ANGLE	1.459	24.7822	
MSH	REAR LEGS SIDE VIEW	LVA	REAR LEG SET	-12.543	20.7078	
MSH	REAR LEG REAR VIEW	LVA	REAR LEG REAR VIEW	-0.445	24.3334	
MSH	UDDER DEPTH	LVA	UDDER DEPTH	-3.986	9.9237	

MSH	MEDIAN SUSPENSORY	LVA	MEDIAN SUSPENSORY	-2.711	15.1646
MSH	FORE ATTACHMENT	LVA	FORE UDDER	-4.189	16.6247
MSH	TEAT PLACEMENT	LVA	FRONT TEAT PLACEMENT	-3.015	16.1155
MSH	TEAT LENGTH	LVA	TEAT LENGTH	-10.686	14.0036
MSH	REAR ATTACHMENT HEIGHT	LVA	REAR UDDER HEIGHT	-7.026	14.0830
MSH	REAR TEAT PLACEMENT	LVA	REAR TEAT PLACEMENT	-7.681	14.8857
MSH	ANGULARITY	LVA	ANGULARITY	-8.312	20.4528

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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
MSH	CONFORMATION	NLD	CONFORMATION	-127.573	1.4770	0.6
1						
MSH	FEET AND LEGS	NLD	OVERALL FEET & LEG	-60.374	0.7129	
MSH	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-108.978	1.3210	
MSH	STATURE	NLD	STATURE	-93.745	1.1329	
MSH	CHEST WIDTH	NLD	CHEST WIDTH	-92.238	1.0465	
MSH	BODY DEPTH	NLD	BODY DEPTH	-90.519	1.0672	
MSH	PIN WIDTH	NLD	RUMP WIDTH	-79.038	0.9208	
MSH	RUMP ANGLE	NLD	RUMP ANGLE	-93.427	0.9367	
MSH	FOOT ANGLE	NLD	FOOT ANGLE	-108.314	1.1842	
MSH	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-106.531	1.0059	
MSH	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-87.840	0.9715	
MSH	UDDER DEPTH	NLD	UDDER DEPTH	-87.000	0.9740	
MSH	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-94.574	1.0226	

MSH	FORE ATTACHMENT	NLD	FORE UDDER	-118.526	1.3558
MSH	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-118.260	1.3142
MSH	TEAT LENGTH	NLD	TEAT LENGTH	-132.001	1.2951
MSH	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-104.888	1.2531
MSH	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-96.668	1.0344
MSH	ANGULARITY	NLD	ANGULARITY	-88.652	1.1039

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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
	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
MSH	CONFORMATION	NOR	CONFORMATION	-30.643	0.3023	0.5
6						
MSH	FEET AND LEGS	NOR	OVERALL FEET & LEG	-37.510	0.3859	
MSH	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-41.831	0.4237	
MSH	STATURE	NOR	STATURE	-40.835	0.4031	
MSH	CHEST WIDTH	NOR	CHEST WIDTH	-31.590	0.3722	
MSH	BODY DEPTH	NOR	BODY DEPTH	-33.678	0.3214	
MSH	PIN WIDTH	NOR	RUMP WIDTH	-35.054	0.4216	
MSH	RUMP ANGLE	NOR	RUMP ANGLE	-42.159	0.4402	
MSH	FOOT ANGLE	NOR	FOOT ANGLE	-44.076	0.4560	
MSH	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-44.738	0.4546	
MSH	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-35.981	0.3756	
MSH	UDDER DEPTH	NOR	UDDER DEPTH	-30.777	0.2941	
MSH	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-39.767	0.3727	
MSH	FORE ATTACHMENT	NOR	FORE UDDER	-42.837	0.4522	
MSH	TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-43.142	0.4313	

MSH	TEAT LENGTH	NOR	TEAT LENGTH	-60.301	0.5375
MSH	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-42.175	0.4042
MSH	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-37.752	0.3826
MSH	ANGULARITY	NOR	ANGULARITY	-40.358	0.3603

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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
MSH	CONFORMATION	NZL	CONFORMATION	0.502	16.5815	0.5
3						
MSH	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	1.466	15.8202	
MSH	STATURE	NZL	STATURE	-5.425	10.9409	
MSH	CHEST WIDTH	NZL	CHEST WIDTH	3.042	15.4589	
MSH	BODY DEPTH	NZL	BODY DEPTH	1.006	14.2860	
MSH	PIN WIDTH	NZL	RUMP WIDTH	0.192	17.6486	
MSH	RUMP ANGLE	NZL	RUMP ANGLE	-4.609	18.7894	
MSH	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	2.162	45.3573	
MSH	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-1.375	13.7439	
MSH	FORE ATTACHMENT	NZL	FORE UDDER	2.088	14.7183	
MSH	TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-1.232	22.8805	
MSH	TEAT LENGTH	NZL	TEAT LENGTH	0.078	16.7138	
MSH	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	1.792	15.1695	
MSH	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-3.169	15.9727	

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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=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
MSH	CONFORMATION	USA	CONFORMATION	7.230	8.7560	0.6
1						
MSH	FEET AND LEGS	USA	OVERALL FEET & LEG	5.397	3.9089	
MSH	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	10.184	5.8332	
MSH	STATURE	USA	STATURE	5.768	2.3608	
MSH	CHEST WIDTH	USA	CHEST WIDTH	2.736	4.2758	
MSH	BODY DEPTH	USA	BODY DEPTH	3.823	3.8326	
MSH	PIN WIDTH	USA	RUMP WIDTH	5.932	4.1527	
MSH	RUMP ANGLE	USA	RUMP ANGLE	-1.382	3.3071	
MSH	FOOT ANGLE	USA	FOOT ANGLE	2.373	5.7210	
MSH	REAR LEGS SIDE VIEW	USA	REAR LEG SET	-2.909	6.1852	
MSH	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	3.522	-5.5399	
MSH	UDDER DEPTH	USA	UDDER DEPTH	3.269	3.2092	
MSH	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	2.277	3.8782	
MSH	FORE ATTACHMENT	USA	FORE UDDER	8.714	3.6967	
MSH	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	4.336	4.2693	
MSH	TEAT LENGTH	USA	TEAT LENGTH	-3.773	4.1657	
MSH	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	8.004	3.8265	
MSH	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	3.286	3.9446	
MSH	ANGULARITY	USA	ANGULARITY	7.628	4.8609	

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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