
 -
 Conversion Factors For Production Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
MSH	AUS	301.90	0.7800	34.600	1.2810	11.600	0.7240	0.4624
MSH	CAN	439.60	0.5270	33.100	0.6820	13.600	0.3940	0.6241
MSH	DEU	874.70	0.4880	70.200	0.7170	29.800	0.4130	0.6084
MSH	DFS	-2193.20	32.3140	-100.000	1.7620	-39.600	0.7620	0.6241
MSH	EST	905.30	0.6510	59.800	0.8900	29.700	0.5070	0.5929
MSH	GBR	196.90	1.2890	18.600	2.0850	8.100	1.2730	0.6241
MSH	IRL	821.79	1.8675	50.400	2.3682	24.984	1.4527	0.5476
MSH	LTU	239.04	0.8771	32.398	1.0201	11.634	0.7281	0.5625
MSH	LVA	708.50	1.1240	48.100	1.5190	22.400	0.9650	0.5929
MSH	NLD	1484.01	0.4183	93.508	0.6319	44.805	0.3120	0.6084
MSH	NOR	-1611.70	26.3020	-78.800	1.4440	-31.700	0.6470	0.6241
MSH	NZL	332.10	0.8560	51.800	1.0690	18.700	0.7050	0.4356
MSH	USA	307.60	0.5190	20.800	0.7820	9.200	0.4400	0.7921
MSH	ZAF	351.72	0.5520	25.709	0.8756	10.128	0.4799	0.6400

 -
 Conversion Factors For SCS Traits. Source: INTERBULL 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
MSH	AUS	98.500	-19.7610	0.7396
MSH	CAN	13.600	0.8970	0.7921
MSH	DEU	63.900	0.3820	0.7921
MSH	DFS	62.200	0.4220	0.7921
MSH	EST	73.200	0.2970	0.7744
MSH	GBR	102.800	-0.4980	0.7921
MSH	LTU	102.335	-14.6418	0.7569
MSH	LVA	102.300	-0.0120	0.7569
MSH	NLD	-33.807	1.4139	0.7921
MSH	NOR	64.500	0.3940	0.7744
MSH	NZL	98.000	-12.5970	0.7225
MSH	USA	169.900	-22.5850	0.6724
MSH	ZAF	103.942	-0.2151	0.7744

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2308
 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	3.311	4.0867	0.5
2						
MSH	FEET AND LEGS	AUS	OVERALL FEET & LEG	1.877	6.6672	
MSH	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	4.160	3.9087	
MSH	STATURE	AUS	STATURE	-0.338	8.4744	
MSH	CHEST WIDTH	AUS	CHEST WIDTH	3.026	12.7660	
MSH	BODY DEPTH	AUS	BODY DEPTH	2.125	9.6475	
MSH	PIN WIDTH	AUS	RUMP WIDTH	0.672	12.2308	
MSH	RUMP ANGLE	AUS	RUMP ANGLE	-2.947	12.3592	
MSH	FOOT ANGLE	AUS	FOOT ANGLE	-0.574	19.9439	
MSH	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	1.425	24.2727	
MSH	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	0.912	24.8270	
MSH	UDDER DEPTH	AUS	UDDER DEPTH	-0.704	7.8068	
MSH	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	1.501	14.2105	
MSH	FORE ATTACHMENT	AUS	FORE UDDER	3.733	14.2282	
MSH	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	3.444	11.1910	
MSH	TEAT LENGTH	AUS	TEAT LENGTH	0.720	12.1302	
MSH	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	0.636	10.9579	
MSH	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	0.857	14.2857	
MSH	ANGULARITY	AUS	ANGULARITY	3.263	12.8719	

 -
 Conversion Factors For Type. Source = INTERBULL MACE 2308
 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	6.900	0.8080	0.5
MSH	FEET AND LEGS	CAN	OVERALL FEET & LEG	7.048	1.0475	
MSH	MAMMARY SYSTEM	CAN	OVERALL UDDER SCORE	10.352	0.9312	
MSH	STATURE	CAN	STATURE	5.035	0.8759	
MSH	CHEST WIDTH	CAN	CHEST WIDTH	0.916	0.7668	
MSH	BODY DEPTH	CAN	BODY DEPTH	1.444	0.7818	
MSH	PIN WIDTH	CAN	RUMP WIDTH	5.631	0.9615	
MSH	RUMP ANGLE	CAN	RUMP ANGLE	0.480	0.9129	
MSH	FOOT ANGLE	CAN	FOOT ANGLE	3.778	0.9287	
MSH	REAR LEGS SIDE VIEW	CAN	REAR LEG SET	-1.604	0.7722	
MSH	REAR LEG REAR VIEW	CAN	REAR LEG REAR VIEW	3.949	0.7556	
MSH	UDDER DEPTH	CAN	UDDER DEPTH	3.274	0.7367	
MSH	MEDIAN SUSPENSORY	CAN	MEDIAN SUSPENSORY	4.633	0.7876	
MSH	FORE ATTACHMENT	CAN	FORE UDDER	8.673	0.8888	
MSH	TEAT PLACEMENT	CAN	FRONT TEAT PLACEMENT	3.518	1.0253	
MSH	TEAT LENGTH	CAN	TEAT LENGTH	-4.584	1.3796	
MSH	REAR ATTACHMENT HEIGHT	CAN	REAR UDDER HEIGHT	8.123	0.9524	
MSH	REAR TEAT PLACEMENT	CAN	REAR TEAT PLACEMENT	2.752	0.9477	
MSH	ANGULARITY	CAN	ANGULARITY	7.427	0.7417	

-
Conversion Factors For Type. Source = INTERBULL MACE 2308
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
-----------------------	---------------------------------	--------------------------------------	---	---------------------------------	---------------------------------	---

MSH	FEET AND LEGS	DEU	OVERALL FEET & LEG	-24.331	0.3322
MSH	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-24.162	0.3406
MSH	STATURE	DEU	STATURE	-34.727	0.4183
MSH	CHEST WIDTH	DEU	CHEST WIDTH	-40.434	0.4407
MSH	BODY DEPTH	DEU	BODY DEPTH	-43.845	0.4709
MSH	PIN WIDTH	DEU	RUMP WIDTH	-49.315	0.5657
MSH	RUMP ANGLE	DEU	RUMP ANGLE	-59.242	0.5650
MSH	FOOT ANGLE	DEU	FOOT ANGLE	-31.913	0.4012
MSH	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-67.037	0.6206
MSH	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-43.027	0.4993
MSH	UDDER DEPTH	DEU	UDDER DEPTH	-28.294	0.3243
MSH	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-35.723	0.3968
MSH	FORE ATTACHMENT	DEU	FORE UDDER	-34.033	0.4150
MSH	TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-42.033	0.4597
MSH	TEAT LENGTH	DEU	TEAT LENGTH	-56.818	0.5043
MSH	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-30.738	0.3713
MSH	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-36.952	0.3771
MSH	ANGULARITY	DEU	ANGULARITY	-73.189	0.8036

-
Conversion Factors For Type. Source = INTERBULL MACE 2308
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	-44.320	0.4614	0.5
8						
MSH	FEET AND LEGS	DFS	OVERALL FEET & LEG	-33.058	0.3947	
MSH	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-45.735	0.5483	

MSH	STATURE	DFS	STATURE	-59.526	0.6286
MSH	CHEST WIDTH	DFS	CHEST WIDTH	-37.775	0.4046
MSH	BODY DEPTH	DFS	BODY DEPTH	-42.131	0.4128
MSH	PIN WIDTH	DFS	RUMP WIDTH	-50.827	0.5488
MSH	RUMP ANGLE	DFS	RUMP ANGLE	-51.232	0.5213
MSH	FOOT ANGLE	DFS	FOOT ANGLE	-62.425	0.6547
MSH	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-58.100	0.5952
MSH	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-41.423	0.4623
MSH	UDDER DEPTH	DFS	UDDER DEPTH	-35.292	0.3968
MSH	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-33.912	0.3466
MSH	FORE ATTACHMENT	DFS	FORE UDDER	-38.903	0.4659
MSH	TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-46.432	0.5059
MSH	TEAT LENGTH	DFS	TEAT LENGTH	-70.246	0.6521
MSH	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-47.660	0.5149
MSH	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-42.919	0.4244
MSH	ANGULARITY	DFS	ANGULARITY	-59.865	0.6303

Conversion Factors For Type. Source = INTERBULL MACE 2308
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	c	c	f			
	a	o	o	a	b	t
	n	u	r	v	v	c
b	t	n	t	a	a	o
r	r	t	r	l	l	r
e	a	r	a	u	u	r
e	i	y	i	e	e	2
d	t	2	t			
MSH	FEET AND LEGS	GBR	OVERALL FEET & LEG	6.387	3.4976	
MSH	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	10.471	3.6317	
MSH	STATURE	GBR	STATURE	2.095	4.3211	
MSH	CHEST WIDTH	GBR	CHEST WIDTH	4.062	3.2316	

MSH	BODY DEPTH	GBR	BODY DEPTH	3.265	3.1020
MSH	PIN WIDTH	GBR	RUMP WIDTH	4.628	3.9975
MSH	RUMP ANGLE	GBR	RUMP ANGLE	-1.097	3.2958
MSH	FOOT ANGLE	GBR	FOOT ANGLE	1.886	3.9234
MSH	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-2.410	3.2072
MSH	UDDER DEPTH	GBR	UDDER DEPTH	2.667	2.3376
MSH	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	3.924	2.7701
MSH	FORE ATTACHMENT	GBR	FORE UDDER	9.342	3.5478
MSH	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	6.020	4.0553
MSH	TEAT LENGTH	GBR	TEAT LENGTH	-4.794	4.9102
MSH	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	6.912	3.7831
MSH	ANGULARITY	GBR	ANGULARITY	3.847	4.4594

-
Conversion Factors For Type. Source = INTERBULL MACE 2308
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			
MSH	STATURE	LVA	STATURE	-8.408	8.4815	
MSH	CHEST WIDTH	LVA	CHEST WIDTH	-1.886	16.9000	
MSH	BODY DEPTH	LVA	BODY DEPTH	-2.722	14.0384	
MSH	PIN WIDTH	LVA	RUMP WIDTH	-3.723	14.7155	
MSH	RUMP ANGLE	LVA	RUMP ANGLE	-9.699	12.3339	
MSH	FOOT ANGLE	LVA	FOOT ANGLE	1.462	23.7694	
MSH	REAR LEGS SIDE VIEW	LVA	REAR LEG SET	-13.015	20.1638	
MSH	REAR LEG REAR VIEW	LVA	REAR LEG REAR VIEW	0.098	23.6152	
MSH	UDDER DEPTH	LVA	UDDER DEPTH	-4.224	9.9192	

MSH	MEDIAN SUSPENSORY	LVA	MEDIAN SUSPENSORY	-2.631	15.5944
MSH	FORE ATTACHMENT	LVA	FORE UDDER	-4.163	16.1694
MSH	TEAT PLACEMENT	LVA	FRONT TEAT PLACEMENT	-3.589	15.9949
MSH	TEAT LENGTH	LVA	TEAT LENGTH	-10.406	14.1487
MSH	REAR ATTACHMENT HEIGHT	LVA	REAR UDDER HEIGHT	-7.210	14.0788
MSH	REAR TEAT PLACEMENT	LVA	REAR TEAT PLACEMENT	-8.039	14.6114
MSH	ANGULARITY	LVA	ANGULARITY	-8.237	20.7007

-
Conversion Factors For Type. Source = INTERBULL MACE 2308
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	-124.213	1.4290	0.6
MSH	FEET AND LEGS	NLD	OVERALL FEET & LEG	-62.620	0.7247	
MSH	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-104.863	1.2594	
MSH	STATURE	NLD	STATURE	-94.699	1.1245	
MSH	CHEST WIDTH	NLD	CHEST WIDTH	-93.743	1.0526	
MSH	BODY DEPTH	NLD	BODY DEPTH	-86.938	1.0105	
MSH	PIN WIDTH	NLD	RUMP WIDTH	-79.410	0.9155	
MSH	RUMP ANGLE	NLD	RUMP ANGLE	-90.314	0.9049	
MSH	FOOT ANGLE	NLD	FOOT ANGLE	-107.140	1.1705	
MSH	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-106.717	1.0030	
MSH	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-87.405	0.9594	
MSH	UDDER DEPTH	NLD	UDDER DEPTH	-86.441	0.9604	
MSH	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-98.081	1.0580	

MSH	FORE ATTACHMENT	NLD	FORE UDDER	-117.478	1.3349
MSH	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-118.204	1.3009
MSH	TEAT LENGTH	NLD	TEAT LENGTH	-134.760	1.3286
MSH	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-105.441	1.2478
MSH	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-98.028	1.0430
MSH	ANGULARITY	NLD	ANGULARITY	-90.165	1.1051

-
Conversion Factors For Type. Source = INTERBULL MACE 2308
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
MSH	CONFORMATION	NOR	CONFORMATION	-30.169	0.3031	0.5
8						
MSH	FEET AND LEGS	NOR	OVERALL FEET & LEG	-37.548	0.3854	
MSH	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-41.568	0.4190	
MSH	STATURE	NOR	STATURE	-41.652	0.4022	
MSH	CHEST WIDTH	NOR	CHEST WIDTH	-30.631	0.3666	
MSH	BODY DEPTH	NOR	BODY DEPTH	-32.528	0.3130	
MSH	PIN WIDTH	NOR	RUMP WIDTH	-35.282	0.4192	
MSH	RUMP ANGLE	NOR	RUMP ANGLE	-40.926	0.4300	
MSH	FOOT ANGLE	NOR	FOOT ANGLE	-43.077	0.4456	
MSH	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-43.768	0.4429	
MSH	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-36.094	0.3780	
MSH	UDDER DEPTH	NOR	UDDER DEPTH	-31.102	0.2951	
MSH	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-41.123	0.3854	
MSH	FORE ATTACHMENT	NOR	FORE UDDER	-42.048	0.4418	
MSH	TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-43.563	0.4295	

MSH	TEAT LENGTH	NOR	TEAT LENGTH	-60.752	0.5442
MSH	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-43.305	0.4090
MSH	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-38.098	0.3807
MSH	ANGULARITY	NOR	ANGULARITY	-40.581	0.3696

-
Conversion Factors For Type. Source = INTERBULL MACE 2308
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	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	NZL	CONFORMATION	1.171	16.6256	0.5
3						
MSH	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	1.394	15.7028	
MSH	STATURE	NZL	STATURE	-6.187	11.1490	
MSH	CHEST WIDTH	NZL	CHEST WIDTH	3.348	15.2171	
MSH	BODY DEPTH	NZL	BODY DEPTH	0.954	13.7914	
MSH	PIN WIDTH	NZL	RUMP WIDTH	0.169	17.5703	
MSH	RUMP ANGLE	NZL	RUMP ANGLE	-4.302	18.4715	
MSH	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	1.471	44.2877	
MSH	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-1.032	14.4405	
MSH	FORE ATTACHMENT	NZL	FORE UDDER	1.777	14.6200	
MSH	TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-1.861	22.8524	
MSH	TEAT LENGTH	NZL	TEAT LENGTH	1.105	18.9555	
MSH	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	1.703	15.5913	
MSH	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-3.497	16.0070	

-

Conversion Factors For Type. Source = INTERBULL MACE 2308
 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	7.688	8.7861	0.6
1						
MSH	FEET AND LEGS	USA	OVERALL FEET & LEG	5.476	3.9031	
MSH	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	10.098	5.7712	
MSH	STATURE	USA	STATURE	5.009	2.3150	
MSH	CHEST WIDTH	USA	CHEST WIDTH	2.968	4.1808	
MSH	BODY DEPTH	USA	BODY DEPTH	3.772	3.6685	
MSH	PIN WIDTH	USA	RUMP WIDTH	5.688	4.0709	
MSH	RUMP ANGLE	USA	RUMP ANGLE	-1.129	3.2167	
MSH	FOOT ANGLE	USA	FOOT ANGLE	2.403	5.6066	
MSH	REAR LEGS SIDE VIEW	USA	REAR LEG SET	-3.428	5.9584	
MSH	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	3.799	-5.4917	
MSH	UDDER DEPTH	USA	UDDER DEPTH	3.086	3.2133	
MSH	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	2.491	3.9951	
MSH	FORE ATTACHMENT	USA	FORE UDDER	8.461	3.6235	
MSH	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	3.734	4.2283	
MSH	TEAT LENGTH	USA	TEAT LENGTH	-3.131	4.1734	
MSH	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	7.951	3.8492	
MSH	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	2.737	3.8888	
MSH	ANGULARITY	USA	ANGULARITY	8.056	4.9589	

 CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2023

BREED BMILK BFAT BPRT

AYS	8079	337	277
BSW	8742	370	313
CN	5847	253	210
GUE	7418	335	255
JER	7090	366	276
HOL	10961	437	361
MS	6971	275	237

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

EXAMPLE:

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

$EBVFAT\% = 200 * [(437 + 50 * 0.5) / (10961 + 1000 * 0.5) - (437 / 11E3)]$
 $= 200 * [(437 + 25) / (10961 + 500) - (0.03987)]$
 $= 200 * [0.04031 - 0.03987]$
 $= 200 * 0.00044$
 $= 0.09$

$EBVPROT\% = 200 * [(361 + 40 * 0.5) / (10961 + 1000 * 0.5) - (361 / 11E3)]$
 $= 200 * [(361 + 20) / (10961 + 500) - (0.03293)]$
 $= 200 * [0.03324 - 0.03293]$
 $= 200 * 0.00031$
 $= 0.06$