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 Conversion Factors For Production Traits. Source: INTERBULL 2208  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-85.65	1.2255	-5.073	1.3192	-2.689	1.3362	0.4761
BSW	CHE	-99.60	1.1340	-4.500	1.1360	-0.700	1.1480	0.7056
BSW	DEA	256.80	1.2690	14.100	1.4340	12.900	1.3880	0.6400
BSW	FRA	138.60	0.9390	6.400	0.9700	8.800	1.0240	0.6889
BSW	GBR	16.53	1.8875	1.568	2.1908	4.098	2.2563	0.7056
BSW	ITA	-355.30	0.9530	-9.500	1.0910	-8.500	0.9410	0.7056
BSW	NLD	1211.87	0.8920	43.748	0.9518	41.054	0.9485	0.7225
BSW	NZL	106.54	0.9527	20.901	0.9162	8.396	0.9078	0.3481
BSW	SVN	-7564.70	66.7170	-292.100	2.5740	-255.500	2.2510	0.4900
BSW	USA	-27.50	0.9670	-0.900	1.0970	-2.100	1.1330	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 2208  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	44.300	0.5610	0.8100
BSW	DEA	51.800	0.4910	0.8100
BSW	FRA	101.200	5.7790	0.8464
BSW	GBR	100.805	-0.5147	0.8464
BSW	ITA	61.700	0.3700	0.7744
BSW	NLD	-44.651	1.4610	0.7921
BSW	NZL	96.260	-12.9244	0.5041
BSW	SVN	41.800	0.5600	0.6724
BSW	USA	181.700	-27.4670	0.8100

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 Conversion Factors For Type. Source = INTERBULL MACE 2208  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=CHE

	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
BSW CONFORMATION		CHE FINAL SCORE		-68.741	0.6857	0.67
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-44.955	0.4414	

BSW RUMP	CHE OVERALL RUMP	-25.889	0.2712
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-59.196	0.5981
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-52.251	0.5253
BSW STATURE	CHE STATURE	-49.772	0.4882
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-52.632	0.5346
BSW CHEST WIDTH	CHE CHEST WIDTH	-74.093	0.7683
BSW BODY DEPTH	CHE BODY DEPTH	-54.257	0.5342
BSW LOIN STRENGTH	CHE TOP LINE	-45.073	0.4843
BSW PIN WIDTH	CHE RUMP WIDTH	-51.827	0.5401
BSW RUMP ANGLE	CHE RUMP ANGLE	-56.598	0.5744
BSW BONE QUALITY	CHE HOCK QUALITY	-65.134	0.6274
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.510	0.4009
BSW HEEL DEPTH	CHE HEEL DEPTH	-56.459	0.5762
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.397	0.5491
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.611	0.5218
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-65.981	0.6506
BSW FORE ATTACHMENT	CHE FORE UDDER	-49.724	0.4955
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-52.796	0.5282
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.205	0.3939
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-59.118	0.5874
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-62.541	0.6276
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-43.988	0.4471
BSW ANGULARITY	CHE ANGULARITY	57.719	-0.6335

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=DEA

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	c
e	a	r	a	l	a	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
BSW CONFORMATION	DEA CONFORMATION	-61.365	0.5627	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-54.769	0.5026			
BSW RUMP	DEA OVERALL RUMP	-43.138	0.4167			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-45.242	0.4258			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-59.311	0.5481			
BSW STATURE	DEA STATURE	-58.534	0.5452			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-41.989	0.4378			
BSW CHEST WIDTH	DEA CHEST WIDTH	-63.167	0.6212			
BSW BODY DEPTH	DEA BODY DEPTH	-51.903	0.4947			
BSW LOIN STRENGTH	DEA TOP LINE	-52.468	0.5167			
BSW PIN WIDTH	DEA RUMP WIDTH	-50.289	0.4902			
BSW RUMP ANGLE	DEA RUMP ANGLE	-54.879	0.5606			
BSW BONE QUALITY	DEA HOCK QUALITY	-55.286	0.5312			
BSW FOOT ANGLE	DEA FOOT ANGLE	-50.950	0.4904			
BSW HEEL DEPTH	DEA HEEL DEPTH	-56.148	0.5420			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-59.339	0.5819			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.382	0.4998			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-71.432	0.6888			

BSW FORE ATTACHMENT	DEA FORE UDDER	-53.006	0.5056
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-68.349	0.6518
BSW TEAT LENGTH	DEA TEAT LENGTH	-51.980	0.5270
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-53.574	0.4962
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-60.609	0.5700
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-55.945	0.5340

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=FRA

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	o
e	r	t	r	a	a	r
e	a	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2
BSW CONFORMATION	FRA OVERALL SCORE	-2.632	5.8074	0.56		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.483	6.0749			
BSW RUMP	FRA OVERALL RUMP	-0.003	5.6031			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.522	3.7740			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.151	7.6072			
BSW STATURE	FRA STATURE	-1.670	6.8288			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.713	6.0423			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.345	7.6002			
BSW BODY DEPTH	FRA BODY DEPTH	-1.828	5.2989			
BSW LOIN STRENGTH	FRA TOP LINE	0.094	4.9690			
BSW PIN WIDTH	FRA RUMP WIDTH	0.735	6.7402			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.257	6.8843			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.083	6.4863			
BSW FOOT ANGLE	FRA HEEL DEPTH	0.019	6.1667			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.183	5.6976			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.605	6.9160			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.925	6.3088			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.664	7.8086			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.229	6.9249			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.152	7.8877			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.793	6.4372			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-2.221	6.7513			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.736	7.6620			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.372	6.8103			
BSW ANGULARITY	FRA ANGULARITY	-4.059	7.9513			

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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
BSW CONFORMATION		GBR CONFORMATION		-2.726	3.3239	0.58
BSW FEET AND LEGS		GBR OVERALL FEET & LEG		-1.531	3.6218	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-2.837	3.9397	
BSW STATURE		GBR STATURE		-0.908	7.1672	
BSW CHEST WIDTH		GBR CHEST WIDTH		0.523	5.1569	
BSW BODY DEPTH		GBR BODY DEPTH		-0.118	3.5608	
BSW PIN WIDTH		GBR RUMP WIDTH		0.739	4.7519	
BSW RUMP ANGLE		GBR RUMP ANGLE		0.397	3.2027	
BSW FOOT ANGLE		GBR FOOT ANGLE		-0.148	5.6616	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.454	4.5425	
BSW UDDER DEPTH		GBR UDDER DEPTH		-1.416	3.0383	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.651	2.3593	
BSW FORE ATTACHMENT		GBR FORE UDDER		-2.965	4.6884	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-0.669	5.1098	
BSW TEAT LENGTH		GBR TEAT LENGTH		0.356	4.1824	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-0.555	3.2471	
BSW ANGULARITY		GBR ANGULARITY		-2.348	9.4704	

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=ITA

	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
BSW CONFORMATION		ITA FINAL SCORE		-76.633	0.7004	0.61
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-36.294	0.3241	
BSW RUMP		ITA OVERALL RUMP		-38.775	0.3670	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-35.425	0.3124	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-73.750	0.6742	
BSW STATURE		ITA STATURE		-48.727	0.4401	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-20.376	0.2172	
BSW CHEST WIDTH		ITA STRENGTH		-30.835	0.3040	
BSW BODY DEPTH		ITA BODY DEPTH		-30.267	0.2871	
BSW LOIN STRENGTH		ITA TOP LINE		-25.959	0.2551	
BSW PIN WIDTH		ITA RUMP WIDTH		-33.433	0.3182	
BSW RUMP ANGLE		ITA RUMP ANGLE		-26.481	0.2762	
BSW BONE QUALITY		ITA HOCK QUALITY		-36.484	0.3244	
BSW FOOT ANGLE		ITA FOOT ANGLE		-36.642	0.3292	
BSW HEEL DEPTH		ITA HEEL DEPTH		-33.544	0.3058	

BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-30.896	0.3001
BSW UDDER DEPTH	ITA UDDER DEPTH	-34.192	0.3081
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.066	0.3898
BSW FORE ATTACHMENT	ITA FORE UDDER	-33.212	0.2945
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-34.404	0.3020
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.358	0.3287
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.423	0.4409
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-52.247	0.4763
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.509	0.3020

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=NLD

	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
BSW CONFORMATION	NLD CONFORMATION	-151.053	1.5150	0.52		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-140.931	1.2842			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-144.256	1.5427			
BSW STATURE	NLD STATURE	-145.719	1.4726			
BSW CHEST WIDTH	NLD CHEST WIDTH	-162.644	1.6240			
BSW BODY DEPTH	NLD BODY DEPTH	-122.278	1.2806			
BSW PIN WIDTH	NLD RUMP WIDTH	-142.676	1.6045			
BSW RUMP ANGLE	NLD RUMP ANGLE	-144.426	1.4308			
BSW FOOT ANGLE	NLD FOOT ANGLE	-153.092	1.3355			
BSW HEEL DEPTH	NLD HEEL DEPTH	-145.713	1.2716			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-127.565	1.3369			
BSW UDDER DEPTH	NLD UDDER DEPTH	-151.234	1.5726			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-160.305	1.6939			
BSW FORE ATTACHMENT	NLD FORE UDDER	-127.441	1.3116			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-139.791	1.3835			
BSW TEAT LENGTH	NLD TEAT LENGTH	-120.954	1.1772			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-123.319	1.3617			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-118.270	1.3070			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-131.565	1.3637			
BSW ANGULARITY	NLD ANGULARITY	-163.195	1.7406			

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=SVN

c	c	f
a	o	o

b	n	u	r	a	b	t
r	t	n	t	v	v	c
e	r	t	r	a	a	o
e	a	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2

BSW CONFORMATION	SVN CONFORMATION	-38.588	0.2564	0.41
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-34.850	0.2559	
BSW RUMP	SVN OVERALL RUMP	-25.266	0.2081	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-28.344	0.2137	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-45.125	0.3240	
BSW STATURE	SVN STATURE	-49.833	0.3856	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.056	0.1626	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.683	0.3299	
BSW BODY DEPTH	SVN BODY DEPTH	-24.993	0.2182	
BSW LOIN STRENGTH	SVN TOP LINE	-26.290	0.2507	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.452	0.2425	
BSW RUMP ANGLE	SVN RUMP ANGLE	-26.035	0.2812	
BSW BONE QUALITY	SVN HOCK QUALITY	-39.186	0.3176	
BSW FOOT ANGLE	SVN FOOT ANGLE	-31.843	0.2697	
BSW HEEL DEPTH	SVN HEEL DEPTH	-24.642	0.2127	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-30.347	0.3066	
BSW UDDER DEPTH	SVN UDDER DEPTH	-35.171	0.2866	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-35.933	0.2868	
BSW FORE ATTACHMENT	SVN FORE UDDER	-32.477	0.2421	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-50.257	0.4000	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.414	0.3197	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-40.843	0.3145	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-47.621	0.3717	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.362	0.3570	

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Conversion Factors For Type. Source = INTERBULL MACE 2208  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

b	c	c	f	a	b	t
r	a	o	o	v	v	c
e	n	u	r	a	a	o
e	t	n	t	l	l	r
d	r	t	r	u	u	r
	a	r	a	e	e	2
	i	y	i			
	t	2	t			

  

BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)	1.208	12.5834	0.67
BSW DAIRY STRENGTH	USA OVERALL FRAME	0.048	3.4458	
BSW RUMP	USA OVERALL RUMP	-0.007	6.4665	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.129	4.9268	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.616	6.3688	
BSW STATURE	USA STATURE	0.501	3.8299	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.738	4.8488	
BSW CHEST WIDTH	USA STRENGTH	0.843	8.3494	
BSW BODY DEPTH	USA BODY DEPTH	0.516	6.1488	
BSW PIN WIDTH	USA RUMP WIDTH	0.263	6.6049	

BSW RUMP ANGLE	USA RUMP ANGLE	-1.377	4.9001
BSW FOOT ANGLE	USA FOOT ANGLE	1.150	8.8493
BSW HEEL DEPTH	USA HEEL DEPTH	0.424	8.2124
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.175	9.4120
BSW UDDER DEPTH	USA UDDER DEPTH	0.571	5.1218
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.332	6.5166
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.932	5.0364
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.138	5.0119
BSW TEAT LENGTH	USA TEAT LENGTH	0.683	3.4322
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.307	5.7738
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.503	7.2240
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.661	4.2840
BSW ANGULARITY	USA ANGULARITY	0.555	6.5322

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CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2022

BREED	BMILK	BFAT	BPRT
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AYS	8023	334	275
BSW	8527	363	305
CN	5948	258	218
GUE	6854	315	242
JER	7070	365	275
HOL	10837	431	355
MS	7478	286	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (431+50*0.5) / (10837+1000*0.5) - (431/11E3) ] \\
 &= 200 * [ (431+25) / (10837+500) - (0.03977) ] \\
 &= 200 * [ 0.04022 - 0.03977 ] \\
 &= 200 * 0.00045 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (355+40*0.5) / (10837+1000*0.5) - (355/11E3) ] \\
 &= 200 * [ (355+20) / (10837+500) - (0.03276) ] \\
 &= 200 * [ 0.03308 - 0.03276 ] \\
 &= 200 * 0.00032 \\
 &= 0.06
 \end{aligned}$$