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 Conversion Factors For Production Traits. Source: INTERBULL 2108  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-79.32	1.2382	-4.121	1.3282	-2.417	1.3795	0.4900
BSW	CHE	-132.90	1.1380	-5.300	1.1280	-2.100	1.1450	0.7056
BSW	DEA	244.60	1.2870	13.900	1.4260	12.400	1.4060	0.6889
BSW	FRA	100.10	0.9510	4.500	0.9540	7.000	1.0030	0.7056
BSW	GBR	-23.43	2.0428	-0.276	2.2716	1.329	2.4370	0.7056
BSW	ITA	-394.20	0.9720	-10.700	1.0940	-9.500	0.9490	0.7225
BSW	NLD	1242.08	0.8683	43.541	0.9106	41.745	0.9146	0.7225
BSW	NZL	133.95	1.1515	25.439	1.0730	9.928	1.0435	0.3249
BSW	SVN	-7683.10	67.3430	-300.600	2.6350	-262.600	2.3040	0.5776
BSW	USA	27.10	0.9790	1.000	1.0990	-0.200	1.1650	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 2108  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	43.200	0.5710	0.8281
BSW	DEA	50.800	0.5010	0.8281
BSW	FRA	100.600	5.9190	0.8464
BSW	GBR	100.720	-0.5090	0.8464
BSW	ITA	61.100	0.3740	0.7921
BSW	NLD	-46.248	1.4787	0.8100
BSW	NZL	94.817	-15.4199	0.6241
BSW	SVN	40.000	0.5760	0.7396
BSW	USA	187.300	-29.4430	0.8281

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 Conversion Factors For Type. Source = INTERBULL MACE 2108  
 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		-70.991	0.7030	0.72
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-45.840	0.4437	

BSW RUMP	CHE OVERALL RUMP	-25.798	0.2642
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-60.835	0.6129
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-53.915	0.5386
BSW STATURE	CHE STATURE	-50.432	0.4885
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-55.414	0.5571
BSW CHEST WIDTH	CHE CHEST WIDTH	-73.370	0.7576
BSW BODY DEPTH	CHE BODY DEPTH	-56.074	0.5500
BSW LOIN STRENGTH	CHE TOP LINE	-45.700	0.4858
BSW PIN WIDTH	CHE RUMP WIDTH	-51.032	0.5326
BSW RUMP ANGLE	CHE RUMP ANGLE	-57.603	0.5806
BSW BONE QUALITY	CHE HOCK QUALITY	-64.163	0.6176
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.626	0.3975
BSW HEEL DEPTH	CHE HEEL DEPTH	-58.173	0.5894
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.936	0.5565
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.392	0.5179
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-67.463	0.6554
BSW FORE ATTACHMENT	CHE FORE UDDER	-52.887	0.5228
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-53.286	0.5264
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.617	0.3958
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-59.510	0.5907
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-65.011	0.6468
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-45.136	0.4524
BSW ANGULARITY	CHE ANGULARITY	58.822	-0.6494

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Conversion Factors For Type. Source = INTERBULL MACE 2108  
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	-61.938	0.5654	0.67		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-55.941	0.5101			
BSW RUMP	DEA OVERALL RUMP	-40.704	0.3926			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-45.261	0.4233			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-60.670	0.5581			
BSW STATURE	DEA STATURE	-58.598	0.5447			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-42.602	0.4429			
BSW CHEST WIDTH	DEA CHEST WIDTH	-63.170	0.6226			
BSW BODY DEPTH	DEA BODY DEPTH	-52.621	0.5028			
BSW LOIN STRENGTH	DEA TOP LINE	-52.275	0.5137			
BSW PIN WIDTH	DEA RUMP WIDTH	-49.638	0.4856			
BSW RUMP ANGLE	DEA RUMP ANGLE	-54.562	0.5557			
BSW BONE QUALITY	DEA HOCK QUALITY	-55.554	0.5310			
BSW FOOT ANGLE	DEA FOOT ANGLE	-48.902	0.4674			
BSW HEEL DEPTH	DEA HEEL DEPTH	-55.128	0.5303			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-59.563	0.5856			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.379	0.5009			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-73.140	0.6991			

BSW FORE ATTACHMENT	DEA FORE UDDER	-55.774	0.5340
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-68.209	0.6475
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.114	0.5292
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-52.989	0.4867
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-62.211	0.5816
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-56.581	0.5372

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Conversion Factors For Type. Source = INTERBULL MACE 2108  
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	-2.796	6.1065	0.61		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.862	6.1966			
BSW RUMP	FRA OVERALL RUMP	-0.182	5.4013			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.441	3.9443			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.493	7.6788			
BSW STATURE	FRA STATURE	-2.124	6.7418			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.574	6.3399			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.152	7.4816			
BSW BODY DEPTH	FRA BODY DEPTH	-1.821	5.5647			
BSW LOIN STRENGTH	FRA TOP LINE	-0.375	4.9180			
BSW PIN WIDTH	FRA RUMP WIDTH	0.370	6.6422			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.005	6.9320			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.389	6.4928			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.014	5.9899			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.132	5.8822			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.584	6.9568			
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.036	6.2981			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.788	7.8557			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.503	7.2925			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.522	7.7492			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.806	6.4539			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-2.246	6.4402			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-2.095	7.8049			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.603	6.8395			
BSW ANGULARITY	FRA ANGULARITY	-4.625	8.4400			

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Conversion Factors For Type. Source = INTERBULL MACE 2108  
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 FEET AND LEGS		GBR OVERALL FEET & LEG		-1.504	3.6203	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-3.197	4.6569	
BSW STATURE		GBR STATURE		-1.722	8.9751	
BSW CHEST WIDTH		GBR CHEST WIDTH		0.090	5.1745	
BSW BODY DEPTH		GBR BODY DEPTH		-0.022	3.4652	
BSW PIN WIDTH		GBR RUMP WIDTH		-0.137	4.7193	
BSW RUMP ANGLE		GBR RUMP ANGLE		1.312	3.6189	
BSW FOOT ANGLE		GBR FOOT ANGLE		-0.772	5.9866	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.358	5.0754	
BSW UDDER DEPTH		GBR UDDER DEPTH		-1.403	3.2985	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.868	2.3054	
BSW FORE ATTACHMENT		GBR FORE UDDER		-3.680	5.1027	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-1.048	5.4473	
BSW TEAT LENGTH		GBR TEAT LENGTH		0.109	4.3099	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-1.151	3.4962	
BSW ANGULARITY		GBR ANGULARITY		-3.108	9.9589	

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Conversion Factors For Type. Source = INTERBULL MACE 2108  
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		-78.887	0.7187	0.66
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-37.081	0.3297	
BSW RUMP		ITA OVERALL RUMP		-37.800	0.3567	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-36.341	0.3205	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-76.447	0.6944	
BSW STATURE		ITA STATURE		-48.069	0.4334	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-21.496	0.2257	
BSW CHEST WIDTH		ITA STRENGTH		-30.580	0.2992	
BSW BODY DEPTH		ITA BODY DEPTH		-30.740	0.2933	
BSW LOIN STRENGTH		ITA TOP LINE		-25.877	0.2526	
BSW PIN WIDTH		ITA RUMP WIDTH		-31.974	0.3055	
BSW RUMP ANGLE		ITA RUMP ANGLE		-27.093	0.2789	
BSW BONE QUALITY		ITA HOCK QUALITY		-37.036	0.3271	
BSW FOOT ANGLE		ITA FOOT ANGLE		-33.017	0.2932	
BSW HEEL DEPTH		ITA HEEL DEPTH		-33.531	0.3069	
BSW REAR LEGS SIDE VIEW		ITA REAR LEG SET		-30.850	0.2988	

BSW UDDER DEPTH	ITA UDDER DEPTH	-33.235	0.2988
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.971	0.3946
BSW FORE ATTACHMENT	ITA FORE UDDER	-34.014	0.3017
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-33.840	0.2942
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.151	0.3262
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.654	0.4413
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-53.935	0.4871
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.781	0.3007

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Conversion Factors For Type. Source = INTERBULL MACE 2108  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=NLD

	c	c	f			
	a	o	o		b	t
	n	u	r		v	c
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
BSW CONFORMATION	NLD CONFORMATION	-157.085	1.5735	0.55		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-144.819	1.3192			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-147.981	1.5759			
BSW STATURE	NLD STATURE	-143.762	1.4538			
BSW CHEST WIDTH	NLD CHEST WIDTH	-164.352	1.6399			
BSW BODY DEPTH	NLD BODY DEPTH	-126.451	1.3268			
BSW PIN WIDTH	NLD RUMP WIDTH	-140.619	1.5834			
BSW RUMP ANGLE	NLD RUMP ANGLE	-144.666	1.4306			
BSW FOOT ANGLE	NLD FOOT ANGLE	-146.486	1.2749			
BSW HEEL DEPTH	NLD HEEL DEPTH	-144.079	1.2569			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-127.340	1.3337			
BSW UDDER DEPTH	NLD UDDER DEPTH	-149.543	1.5556			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-161.387	1.7054			
BSW FORE ATTACHMENT	NLD FORE UDDER	-133.421	1.3753			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-142.539	1.4144			
BSW TEAT LENGTH	NLD TEAT LENGTH	-121.841	1.1836			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-124.459	1.3770			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-121.593	1.3452			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-134.915	1.3995			
BSW ANGULARITY	NLD ANGULARITY	-166.096	1.7656			

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Conversion Factors For Type. Source = INTERBULL MACE 2108  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=SVN

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

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	SVN CONFORMATION	-38.705	0.2565	0.49
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-34.269	0.2483	
BSW RUMP	SVN OVERALL RUMP	-25.288	0.2088	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-28.913	0.2222	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-44.999	0.3199	
BSW STATURE	SVN STATURE	-48.341	0.3725	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-17.033	0.1705	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.534	0.3261	
BSW BODY DEPTH	SVN BODY DEPTH	-24.548	0.2130	
BSW LOIN STRENGTH	SVN TOP LINE	-26.234	0.2509	
BSW PIN WIDTH	SVN RUMP WIDTH	-27.681	0.2372	
BSW RUMP ANGLE	SVN RUMP ANGLE	-26.991	0.2893	
BSW BONE QUALITY	SVN HOCK QUALITY	-37.933	0.3077	
BSW FOOT ANGLE	SVN FOOT ANGLE	-29.974	0.2534	
BSW HEEL DEPTH	SVN HEEL DEPTH	-24.618	0.2117	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-30.226	0.3057	
BSW UDDER DEPTH	SVN UDDER DEPTH	-34.603	0.2835	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-37.046	0.2927	
BSW FORE ATTACHMENT	SVN FORE UDDER	-33.354	0.2472	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-49.505	0.3941	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.634	0.3207	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-42.046	0.3231	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-48.475	0.3752	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.966	0.3613	

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 Conversion Factors For Type. Source = INTERBULL MACE 2108  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

	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	USA PTA TYPE (FINAL SCORE)	1.568	12.3905	0.72
BSW DAIRY STRENGTH	USA OVERALL FRAME	0.300	3.3842	
BSW RUMP	USA OVERALL RUMP	-0.009	6.1227	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	0.099	5.4277	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.575	6.8483	
BSW STATURE	USA STATURE	0.662	3.7943	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-2.041	5.0683	
BSW CHEST WIDTH	USA STRENGTH	0.957	8.3800	
BSW BODY DEPTH	USA BODY DEPTH	1.131	6.7517	
BSW PIN WIDTH	USA RUMP WIDTH	0.536	6.6638	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.491	4.9278	

BSW FOOT ANGLE	USA FOOT ANGLE	1.069	8.6248
BSW HEEL DEPTH	USA HEEL DEPTH	0.502	8.0948
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.058	9.3866
BSW UDDER DEPTH	USA UDDER DEPTH	0.632	5.1522
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.111	6.4354
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	1.139	5.2759
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.096	4.9819
BSW TEAT LENGTH	USA TEAT LENGTH	0.554	3.4281
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.290	5.5783
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.617	7.3146
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.574	4.4350
BSW ANGULARITY	USA ANGULARITY	0.486	6.6763

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CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2021

BREED	BMILK	BFAT	BPRT
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AYS	7972	333	273
BSW	8455	361	303
CN	5795	255	210
GUE	7049	327	249
JER	6987	360	271
HOL	10720	424	350
MS	7100	281	235

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (424+50*0.5) / (10720+1000*0.5) - (424/11E3) ] \\
 &= 200 * [ (424+25) / (10720+500) - (0.03955) ] \\
 &= 200 * [ 0.04002 - 0.03955 ] \\
 &= 200 * 0.00047 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (350+40*0.5) / (10720+1000*0.5) - (350/11E3) ] \\
 &= 200 * [ (350+20) / (10720+500) - (0.03265) ] \\
 &= 200 * [ 0.03298 - 0.03265 ] \\
 &= 200 * 0.00033 \\
 &= 0.07
 \end{aligned}$$