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 Conversion Factors For Production Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-88.01	1.2188	-5.227	1.3144	-2.652	1.3250	0.4761
BSW	CHE	-100.70	1.1220	-4.500	1.1170	-0.700	1.1280	0.7056
BSW	DEA	278.00	1.2570	15.100	1.4250	13.500	1.3670	0.6241
BSW	FRA	139.10	0.9260	6.500	0.9590	8.700	1.0060	0.6889
BSW	GBR	23.07	1.8838	1.956	2.1805	4.271	2.2432	0.7056
BSW	ITA	-328.50	0.9440	-8.700	1.0810	-7.500	0.9290	0.6889
BSW	NLD	1188.26	0.8777	42.465	0.9355	39.090	0.9179	0.7056
BSW	NZL	109.93	0.9586	20.974	0.9129	8.436	0.9070	0.3600
BSW	SVN	-6618.30	59.1320	-264.500	2.3770	-224.000	2.0040	0.4356
BSW	USA	-24.40	0.9670	-0.900	1.0990	-2.100	1.1330	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 2212
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	45.600	0.5500	0.8100
BSW	DEA	52.900	0.4820	0.7921
BSW	FRA	101.400	5.6810	0.8464
BSW	GBR	100.829	-0.5112	0.8649
BSW	ITA	62.300	0.3660	0.7744
BSW	NLD	-41.785	1.4327	0.7921
BSW	NZL	96.360	-12.8767	0.5041
BSW	SVN	48.300	0.5000	0.6241
BSW	USA	180.900	-27.1720	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 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		-67.362	0.6710	0.66
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-44.209	0.4346	

BSW RUMP	CHE OVERALL RUMP	-26.159	0.2742
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-57.834	0.5844
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-51.655	0.5178
BSW STATURE	CHE STATURE	-49.424	0.4842
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-52.907	0.5380
BSW CHEST WIDTH	CHE CHEST WIDTH	-72.419	0.7512
BSW BODY DEPTH	CHE BODY DEPTH	-54.006	0.5319
BSW LOIN STRENGTH	CHE TOP LINE	-45.240	0.4863
BSW PIN WIDTH	CHE RUMP WIDTH	-51.594	0.5378
BSW RUMP ANGLE	CHE RUMP ANGLE	-56.992	0.5789
BSW BONE QUALITY	CHE HOCK QUALITY	-64.662	0.6226
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.901	0.4038
BSW HEEL DEPTH	CHE HEEL DEPTH	-55.385	0.5638
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.154	0.5470
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.654	0.5220
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-66.141	0.6511
BSW FORE ATTACHMENT	CHE FORE UDDER	-49.681	0.4950
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-51.870	0.5190
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.404	0.3958
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-58.370	0.5793
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-62.063	0.6231
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-44.003	0.4474
BSW ANGULARITY	CHE ANGULARITY	57.730	-0.6342

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Conversion Factors For Type. Source = INTERBULL MACE 2212
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEA

	c	c	f			
	a	o	o		b	t
	n	u	r		v	c
b	t	n	t		a	a
r	r	t	r		l	r
e	a	r	a		u	u
e	i	y	i		e	e
d	t	2	t			2
BSW CONFORMATION	DEA CONFORMATION	-60.246	0.5532	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-53.895	0.4953			
BSW RUMP	DEA OVERALL RUMP	-42.638	0.4114			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-44.487	0.4189			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-59.345	0.5492			
BSW STATURE	DEA STATURE	-58.074	0.5421			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-42.066	0.4404			
BSW CHEST WIDTH	DEA CHEST WIDTH	-61.557	0.6057			
BSW BODY DEPTH	DEA BODY DEPTH	-51.694	0.4940			
BSW LOIN STRENGTH	DEA TOP LINE	-52.276	0.5158			
BSW PIN WIDTH	DEA RUMP WIDTH	-49.656	0.4837			
BSW RUMP ANGLE	DEA RUMP ANGLE	-55.299	0.5654			
BSW BONE QUALITY	DEA HOCK QUALITY	-55.169	0.5297			
BSW FOOT ANGLE	DEA FOOT ANGLE	-50.918	0.4887			
BSW HEEL DEPTH	DEA HEEL DEPTH	-55.655	0.5356			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-59.080	0.5784			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.649	0.5022			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-71.375	0.6875			

BSW FORE ATTACHMENT	DEA FORE UDDER	-52.974	0.5058
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-67.309	0.6436
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.133	0.5280
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-53.605	0.4972
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-60.789	0.5736
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-56.167	0.5370

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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	-2.817	5.7609	0.55		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.443	5.9241			
BSW RUMP	FRA OVERALL RUMP	0.028	5.6498			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.597	3.7536			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.080	7.5449			
BSW STATURE	FRA STATURE	-1.679	6.7644			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.764	5.8099			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.442	7.5514			
BSW BODY DEPTH	FRA BODY DEPTH	-1.826	5.2554			
BSW LOIN STRENGTH	FRA TOP LINE	0.020	4.9620			
BSW PIN WIDTH	FRA RUMP WIDTH	0.646	6.7106			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.322	6.9032			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.036	6.5329			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.052	6.2731			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.015	5.7109			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.442	6.8510			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.936	6.3493			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.824	7.7732			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.230	7.0973			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.160	7.8020			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.802	6.4039			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-2.258	6.6725			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.694	7.6283			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.459	6.8938			
BSW ANGULARITY	FRA ANGULARITY	-4.237	7.9181			

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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		-2.514	3.2977	0.56
BSW FEET AND LEGS		GBR OVERALL FEET & LEG		-1.291	3.6588	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-2.229	3.8832	
BSW STATURE		GBR STATURE		-0.765	7.0443	
BSW CHEST WIDTH		GBR CHEST WIDTH		0.578	5.0352	
BSW BODY DEPTH		GBR BODY DEPTH		-0.031	3.4712	
BSW PIN WIDTH		GBR RUMP WIDTH		0.863	4.7080	
BSW RUMP ANGLE		GBR RUMP ANGLE		0.414	3.2855	
BSW FOOT ANGLE		GBR FOOT ANGLE		-0.144	5.6256	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.410	4.5479	
BSW UDDER DEPTH		GBR UDDER DEPTH		-1.541	3.0952	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.577	2.3641	
BSW FORE ATTACHMENT		GBR FORE UDDER		-2.874	4.7211	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-0.740	4.9901	
BSW TEAT LENGTH		GBR TEAT LENGTH		0.375	4.2082	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-0.692	3.1846	
BSW ANGULARITY		GBR ANGULARITY		-2.327	9.5534	

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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		-75.151	0.6868	0.61
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-35.681	0.3192	
BSW RUMP		ITA OVERALL RUMP		-38.766	0.3674	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-34.281	0.3017	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-72.483	0.6623	
BSW STATURE		ITA STATURE		-48.411	0.4378	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-20.058	0.2145	
BSW CHEST WIDTH		ITA STRENGTH		-30.161	0.2983	
BSW BODY DEPTH		ITA BODY DEPTH		-30.435	0.2890	
BSW LOIN STRENGTH		ITA TOP LINE		-25.859	0.2549	
BSW PIN WIDTH		ITA RUMP WIDTH		-32.981	0.3151	
BSW RUMP ANGLE		ITA RUMP ANGLE		-26.571	0.2781	
BSW BONE QUALITY		ITA HOCK QUALITY		-36.102	0.3216	
BSW FOOT ANGLE		ITA FOOT ANGLE		-37.387	0.3346	
BSW HEEL DEPTH		ITA HEEL DEPTH		-33.099	0.3011	

BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-30.642	0.2997
BSW UDDER DEPTH	ITA UDDER DEPTH	-34.317	0.3097
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-41.649	0.3852
BSW FORE ATTACHMENT	ITA FORE UDDER	-33.392	0.2959
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-33.615	0.2966
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.538	0.3307
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-48.685	0.4348
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-52.081	0.4759
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.509	0.3029

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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	-151.316	1.5195	0.52		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-140.601	1.2801			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-143.366	1.5327			
BSW STATURE	NLD STATURE	-144.792	1.4620			
BSW CHEST WIDTH	NLD CHEST WIDTH	-159.842	1.5963			
BSW BODY DEPTH	NLD BODY DEPTH	-120.958	1.2665			
BSW PIN WIDTH	NLD RUMP WIDTH	-141.578	1.5911			
BSW RUMP ANGLE	NLD RUMP ANGLE	-145.248	1.4394			
BSW FOOT ANGLE	NLD FOOT ANGLE	-153.298	1.3358			
BSW HEEL DEPTH	NLD HEEL DEPTH	-143.809	1.2541			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-126.523	1.3270			
BSW UDDER DEPTH	NLD UDDER DEPTH	-151.139	1.5714			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-158.933	1.6786			
BSW FORE ATTACHMENT	NLD FORE UDDER	-127.196	1.3086			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-138.110	1.3666			
BSW TEAT LENGTH	NLD TEAT LENGTH	-121.538	1.1830			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-121.527	1.3412			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-117.511	1.2983			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-132.962	1.3777			
BSW ANGULARITY	NLD ANGULARITY	-159.752	1.7008			

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Conversion Factors For Type. Source = INTERBULL MACE 2212
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	-36.021	0.2385	0.35
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-31.387	0.2313	
BSW RUMP	SVN OVERALL RUMP	-25.591	0.2133	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-27.798	0.2144	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-41.355	0.2914	
BSW STATURE	SVN STATURE	-44.701	0.3483	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-15.708	0.1615	
BSW CHEST WIDTH	SVN CHEST WIDTH	-28.742	0.2894	
BSW BODY DEPTH	SVN BODY DEPTH	-24.647	0.2199	
BSW LOIN STRENGTH	SVN TOP LINE	-24.688	0.2349	
BSW PIN WIDTH	SVN RUMP WIDTH	-27.693	0.2421	
BSW RUMP ANGLE	SVN RUMP ANGLE	-24.801	0.2700	
BSW BONE QUALITY	SVN HOCK QUALITY	-37.648	0.3089	
BSW FOOT ANGLE	SVN FOOT ANGLE	-31.802	0.2733	
BSW HEEL DEPTH	SVN HEEL DEPTH	-23.069	0.2029	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-29.789	0.2949	
BSW UDDER DEPTH	SVN UDDER DEPTH	-31.112	0.2543	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-38.595	0.3150	
BSW FORE ATTACHMENT	SVN FORE UDDER	-29.648	0.2200	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-45.599	0.3632	
BSW TEAT LENGTH	SVN TEAT LENGTH	-26.113	0.3032	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-34.941	0.2691	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-41.076	0.3233	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-40.424	0.3327	

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 Conversion Factors For Type. Source = INTERBULL MACE 2212
 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)	1.052	12.6305	0.66
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.050	3.2786	
BSW RUMP	USA OVERALL RUMP	0.088	6.4972	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	1.389	5.9156	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	1.017	9.0548	
BSW STATURE	USA STATURE	0.321	3.7926	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.581	4.9476	
BSW CHEST WIDTH	USA STRENGTH	0.828	8.2340	
BSW BODY DEPTH	USA BODY DEPTH	0.374	6.1848	
BSW PIN WIDTH	USA RUMP WIDTH	0.173	6.5880	

BSW RUMP ANGLE	USA RUMP ANGLE	-1.276	5.0165
BSW FOOT ANGLE	USA FOOT ANGLE	0.997	8.7299
BSW HEEL DEPTH	USA HEEL DEPTH	0.332	8.1427
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.124	9.4321
BSW UDDER DEPTH	USA UDDER DEPTH	0.549	5.2167
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.134	6.6776
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.782	5.1089
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.254	4.9797
BSW TEAT LENGTH	USA TEAT LENGTH	0.640	3.4643
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.054	6.0648
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.283	7.2552
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.534	4.3896
BSW ANGULARITY	USA ANGULARITY	0.298	6.4488

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2022

BREED	BMILK	BFAT	BPRT
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AYS	8022	335	275
BSW	8509	362	304
CN	5772	250	212
GUE	6832	315	242
JER	7049	363	274
HOL	10836	431	355
MS	7483	287	248

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

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

EXAMPLE:

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(431 + 50 * 0.5) / (10836 + 1000 * 0.5) - (431 / 111E3)] \\ &= 200 * [(431 + 25) / (10836 + 500) - (0.03977)] \\ &= 200 * [0.04023 - 0.03977] \\ &= 200 * 0.00045 \\ &= 0.09 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [(355 + 40 * 0.5) / (10836 + 1000 * 0.5) - (355 / 111E3)] \\ &= 200 * [(355 + 20) / (10836 + 500) - (0.03276)] \\ &= 200 * [0.03308 - 0.03276] \\ &= 200 * 0.00032 \\ &= 0.06 \end{aligned}$$