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 Conversion Factors For Production Traits. Source: INTERBULL 1804  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-34.18	1.2030	0.668	1.2539	-0.293	1.3361	0.4900
BSW	CHE	-174.20	1.0920	-6.700	1.0900	-4.400	1.1310	0.7396
BSW	DEA	172.80	1.2560	9.600	1.3790	10.000	1.4130	0.7396
BSW	FRA	67.50	0.9000	4.200	0.8780	4.500	0.9320	0.7056
BSW	GBR	-175.93	2.1594	-5.880	2.6105	-4.928	2.6318	0.7225
BSW	ITA	-120.50	0.9260	-0.900	1.0410	0.500	0.8950	0.7225
BSW	NLD	1117.92	0.9212	33.276	0.9124	34.344	0.9565	0.7396
BSW	NZL	317.12	1.3255	37.882	1.2828	19.133	1.5179	0.4900
BSW	SVN	-7205.80	62.4610	-282.000	2.4430	-256.500	2.2280	0.6724
BSW	USA	-63.60	0.9740	-3.400	1.0450	-4.100	1.1230	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 1804  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	5.100	-0.0210	0.8464
BSW	DEA	4.800	-0.0190	0.8649
BSW	FRA	2.900	-0.2230	0.8649
BSW	GBR	2.980	0.0178	0.8464
BSW	ITA	4.200	-0.0130	0.8100
BSW	NLD	-3.027	0.0591	0.8100
BSW	NZL	3.171	0.5644	0.7569
BSW	SVN	5.300	-0.0220	0.7921
BSW	USA	-0.100	1.0590	0.8464

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 Conversion Factors For Type. Source = INTERBULL MACE 1804  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=CHE

	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			
BSW CONFORMATION		CHE FINAL SCORE		-78.698	0.7792	0.76
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-49.594	0.4796	

BSW RUMP	CHE OVERALL RUMP	-31.991	0.3286
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-61.866	0.6158
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-55.059	0.5500
BSW STATURE	CHE STATURE	-55.233	0.5331
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-58.783	0.5951
BSW CHEST WIDTH	CHE CHEST WIDTH	-74.740	0.7689
BSW BODY DEPTH	CHE BODY DEPTH	-54.691	0.5399
BSW LOIN STRENGTH	CHE TOP LINE	-50.116	0.5265
BSW PIN WIDTH	CHE RUMP WIDTH	-58.655	0.6078
BSW RUMP ANGLE	CHE RUMP ANGLE	-54.910	0.5593
BSW BONE QUALITY	CHE HOCK QUALITY	-58.637	0.5634
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.959	0.4003
BSW HEEL DEPTH	CHE HEEL DEPTH	-60.003	0.6069
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-50.650	0.5116
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.976	0.5322
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-64.341	0.6270
BSW FORE ATTACHMENT	CHE FORE UDDER	-52.796	0.5239
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-49.839	0.5013
BSW TEAT LENGTH	CHE TEAT LENGTH	-42.050	0.3953
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-61.305	0.6012
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-62.670	0.6187
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-45.840	0.4593
BSW ANGULARITY	CHE ANGULARITY	55.445	-0.6080

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Conversion Factors For Type. Source = INTERBULL MACE 1804  
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	o
e	a	r	a	l	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
BSW CONFORMATION	DEA CONFORMATION	-62.204	0.5718	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-58.202	0.5319			
BSW RUMP	DEA OVERALL RUMP	-40.987	0.3934			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-42.874	0.4076			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-57.896	0.5405			
BSW STATURE	DEA STATURE	-63.431	0.5858			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-40.765	0.4258			
BSW CHEST WIDTH	DEA CHEST WIDTH	-62.815	0.6244			
BSW BODY DEPTH	DEA BODY DEPTH	-51.350	0.4969			
BSW LOIN STRENGTH	DEA TOP LINE	-54.709	0.5400			
BSW PIN WIDTH	DEA RUMP WIDTH	-52.121	0.5166			
BSW RUMP ANGLE	DEA RUMP ANGLE	-51.272	0.5267			
BSW BONE QUALITY	DEA HOCK QUALITY	-50.636	0.4892			
BSW FOOT ANGLE	DEA FOOT ANGLE	-49.762	0.4719			
BSW HEEL DEPTH	DEA HEEL DEPTH	-47.794	0.4671			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-54.438	0.5412			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.767	0.5064			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-68.568	0.6565			

BSW FORE ATTACHMENT	DEA FORE UDDER	-55.501	0.5420
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-65.488	0.6270
BSW TEAT LENGTH	DEA TEAT LENGTH	-51.400	0.5102
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-52.877	0.4859
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-56.179	0.5302
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-57.600	0.5440

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Conversion Factors For Type. Source = INTERBULL MACE 1804  
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		-2.445	6.4055	0.67
BSW DAIRY STRENGTH		FRA OVERALL FRAME		-2.859	6.9538	
BSW RUMP		FRA OVERALL RUMP		-0.241	6.1732	
BSW FEET AND LEGS		FRA OVERALL FEET & LEG		-1.199	3.4683	
BSW MAMMARY SYSTEM		FRA OVERALL UDDER SCORE		-2.001	7.0371	
BSW STATURE		FRA STATURE		-2.906	7.4130	
BSW THURL PLACEMENT		FRA THURL PLACEMENT		2.267	6.2419	
BSW CHEST WIDTH		FRA CHEST DEPTH		-0.843	7.5159	
BSW BODY DEPTH		FRA BODY DEPTH		-1.229	5.5874	
BSW LOIN STRENGTH		FRA TOP LINE		-0.409	5.2443	
BSW PIN WIDTH		FRA RUMP WIDTH		-0.998	6.9145	
BSW RUMP ANGLE		FRA RUMP ANGLE		2.072	6.6703	
BSW BONE QUALITY		FRA HOCK QUALITY		-2.179	5.8244	
BSW FOOT ANGLE		FRA HEEL DEPTH		-0.599	5.6294	
BSW HEEL DEPTH		FRA HEEL DEPTH		-0.164	6.2833	
BSW REAR LEGS SIDE VIEW		FRA REAR LEG SET		-1.208	6.6353	
BSW UDDER DEPTH		FRA UDDER DEPTH		-1.458	6.2311	
BSW MEDIAN SUSPENSORY		FRA MEDIAN SUSPENSORY		0.019	7.7515	
BSW FORE ATTACHMENT		FRA FORE UDDER		-1.785	6.6393	
BSW FRONT TEAT PLACEMENT		FRA FRONT TEAT PLACEMENT		-2.148	7.3719	
BSW TEAT LENGTH		FRA TEAT LENGTH		0.524	6.3127	
BSW REAR ATTACHMENT HEIGHT		FRA REAR UDDER HEIGHT		-1.803	6.9557	
BSW REAR ATTACHMENT WIDTH		FRA REAR UDDER WIDTH		-1.467	7.3821	
BSW REAR TEAT PLACEMENT		FRA REAR TEAT PLACEMENT		-0.601	7.0353	
BSW ANGULARITY		FRA ANGULARITY		-3.671	7.7861	

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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	-0.645	4.0241
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-1.910	4.7902
BSW STATURE	GBR STATURE	-3.216	8.5850
BSW CHEST WIDTH	GBR CHEST WIDTH	-1.185	5.5523
BSW BODY DEPTH	GBR BODY DEPTH	0.127	4.1407
BSW PIN WIDTH	GBR RUMP WIDTH	-0.610	5.8157
BSW RUMP ANGLE	GBR RUMP ANGLE	0.868	3.3909
BSW FOOT ANGLE	GBR FOOT ANGLE	0.787	7.6548
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-2.801	5.6568
BSW UDDER DEPTH	GBR UDDER DEPTH	-0.959	3.4031
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.783	2.6380
BSW FORE ATTACHMENT	GBR FORE UDDER	-2.766	4.9791
BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-1.343	5.4165
BSW TEAT LENGTH	GBR TEAT LENGTH	0.533	4.2950
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-1.008	4.5116
BSW ANGULARITY	GBR ANGULARITY	-2.759	9.5449

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Conversion Factors For Type. Source = INTERBULL MACE 1804  
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	-77.662	0.7034	0.69
BSW DAIRY STRENGTH	ITA OVERALL FRAME	-35.396	0.3226	
BSW RUMP	ITA OVERALL RUMP	-37.720	0.3571	
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-33.131	0.2868	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-55.261	0.4849	
BSW STATURE	ITA STATURE	-49.049	0.4437	
BSW THURL PLACEMENT	ITA THURL PLACEMENT	-20.710	0.2171	
BSW CHEST WIDTH	ITA STRENGTH	-30.099	0.2899	
BSW BODY DEPTH	ITA BODY DEPTH	-28.635	0.2779	
BSW LOIN STRENGTH	ITA TOP LINE	-26.224	0.2597	
BSW PIN WIDTH	ITA RUMP WIDTH	-33.215	0.3186	
BSW RUMP ANGLE	ITA RUMP ANGLE	-25.535	0.2708	
BSW BONE QUALITY	ITA HOCK QUALITY	-33.182	0.2880	
BSW FOOT ANGLE	ITA FOOT ANGLE	-29.116	0.2577	
BSW HEEL DEPTH	ITA HEEL DEPTH	-33.199	0.2994	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-27.544	0.2757	

BSW UDDER DEPTH	ITA UDDER DEPTH	-32.827	0.2931
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-41.747	0.3861
BSW FORE ATTACHMENT	ITA FORE UDDER	-31.963	0.2889
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-30.001	0.2656
BSW TEAT LENGTH	ITA TEAT LENGTH	-29.928	0.3089
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.285	0.4331
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-49.449	0.4412
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.622	0.2993

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Conversion Factors For Type. Source = INTERBULL MACE 1804  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=NLD

	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	NLD CONFORMATION	-168.057	1.6513	0.61
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-129.198	1.1510	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-147.218	1.5592	
BSW STATURE	NLD STATURE	-140.385	1.3967	
BSW CHEST WIDTH	NLD CHEST WIDTH	-172.742	1.7133	
BSW BODY DEPTH	NLD BODY DEPTH	-124.753	1.2993	
BSW PIN WIDTH	NLD RUMP WIDTH	-156.656	1.7607	
BSW RUMP ANGLE	NLD RUMP ANGLE	-142.445	1.4064	
BSW FOOT ANGLE	NLD FOOT ANGLE	-132.328	1.1449	
BSW HEEL DEPTH	NLD HEEL DEPTH	-138.556	1.2044	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-115.038	1.2110	
BSW UDDER DEPTH	NLD UDDER DEPTH	-148.560	1.5175	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-142.011	1.5014	
BSW FORE ATTACHMENT	NLD FORE UDDER	-134.236	1.3771	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-143.842	1.4168	
BSW TEAT LENGTH	NLD TEAT LENGTH	-121.341	1.1660	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-119.410	1.3114	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-112.618	1.2427	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-144.058	1.4840	
BSW ANGULARITY	NLD ANGULARITY	-149.944	1.5857	

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Conversion Factors For Type. Source = INTERBULL MACE 1804  
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	a		

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	-39.141	0.2694	0.62
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-33.715	0.2472	
BSW RUMP	SVN OVERALL RUMP	-25.743	0.2183	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-28.186	0.2209	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-39.030	0.2815	
BSW STATURE	SVN STATURE	-49.947	0.3822	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.457	0.1687	
BSW CHEST WIDTH	SVN CHEST WIDTH	-31.801	0.3229	
BSW BODY DEPTH	SVN BODY DEPTH	-22.452	0.1997	
BSW LOIN STRENGTH	SVN TOP LINE	-27.180	0.2668	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.700	0.2481	
BSW RUMP ANGLE	SVN RUMP ANGLE	-27.389	0.2957	
BSW BONE QUALITY	SVN HOCK QUALITY	-34.322	0.2786	
BSW FOOT ANGLE	SVN FOOT ANGLE	-30.791	0.2610	
BSW HEEL DEPTH	SVN HEEL DEPTH	-25.101	0.2213	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-25.952	0.2677	
BSW UDDER DEPTH	SVN UDDER DEPTH	-33.443	0.2773	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-34.283	0.2751	
BSW FORE ATTACHMENT	SVN FORE UDDER	-31.886	0.2407	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-45.678	0.3716	
BSW TEAT LENGTH	SVN TEAT LENGTH	-28.073	0.3148	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-41.299	0.3162	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-44.655	0.3523	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-44.101	0.3640	

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 Conversion Factors For Type. Source = INTERBULL MACE 1804  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

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

BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)	0.251	10.2470	0.76
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.321	3.7504	
BSW RUMP	USA OVERALL RUMP	0.094	8.6800	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.250	6.7499	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.148	6.7400	
BSW STATURE	USA STATURE	-0.606	4.1197	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.950	6.6004	
BSW CHEST WIDTH	USA STRENGTH	-0.556	9.0845	
BSW BODY DEPTH	USA BODY DEPTH	0.012	5.9439	
BSW PIN WIDTH	USA RUMP WIDTH	0.626	8.5805	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.029	5.7199	

BSW FOOT ANGLE	USA FOOT ANGLE	-0.507	9.6197
BSW HEEL DEPTH	USA HEEL DEPTH	-0.133	10.2128
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.035	9.6411
BSW UDDER DEPTH	USA UDDER DEPTH	0.064	5.1633
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.015	5.8843
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.677	5.1339
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.441	5.2552
BSW TEAT LENGTH	USA TEAT LENGTH	0.458	4.3126
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.621	5.1995
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	-0.217	6.5807
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.022	4.9437
BSW ANGULARITY	USA ANGULARITY	0.350	5.5049

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CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2018

BREED	BMILK	BFAT	BPRT
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AYS	7805	325	264
BSW	8505	360	301
CN	5915	253	208
GUE	6546	306	226
JER	6660	336	255
HOL	10222	399	329
MS	6812	269	227

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

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

EXAMPLE:

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [ (399 + 50 * 0.5) / (10222 + 1000 * 0.5) - (399 / 1E4) ] \\ &= 200 * [ (399 + 25) / (10222 + 500) - (0.03903) ] \\ &= 200 * [ 0.03954 - 0.03903 ] \\ &= 200 * 0.00051 \\ &= 0.10 \end{aligned}$$

$$\begin{aligned} \text{EBVPROT\%} &= 200 * [ (329 + 40 * 0.5) / (10222 + 1000 * 0.5) - (329 / 1E4) ] \\ &= 200 * [ (329 + 20) / (10222 + 500) - (0.03219) ] \\ &= 200 * [ 0.03255 - 0.03219 ] \\ &= 200 * 0.00036 \\ &= 0.07 \end{aligned}$$