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 Conversion Factors For Production Traits. Source: INTERBULL 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-120.44	1.2233	-6.556	1.3067	-3.686	1.3220	0.4624
BSW	CHE	-77.80	1.1400	-4.300	1.1090	0.500	1.1340	0.6889
BSW	DEA	247.40	1.2720	13.600	1.4130	12.300	1.3780	0.6084
BSW	FRA	130.70	0.9410	5.600	0.9550	8.900	1.0220	0.6889
BSW	GBR	21.81	1.9269	1.297	2.2872	4.327	2.3254	0.6889
BSW	ITA	-386.70	0.9720	-11.000	1.0910	-9.500	0.9510	0.6889
BSW	NLD	1385.24	0.8837	51.708	0.9239	47.506	0.9184	0.7056
BSW	NZL	4.87	0.9678	17.429	0.8911	5.456	0.9117	0.3721
BSW	SVN	-6670.10	59.2710	-267.100	2.3880	-229.900	2.0450	0.4356
BSW	USA	-83.80	0.9640	-3.700	1.0860	-4.700	1.1450	0.7744

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 Conversion Factors For SCS Traits. Source: INTERBULL 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	45.000	0.5570	0.8100
BSW	DEA	52.900	0.4830	0.7744
BSW	FRA	101.700	5.6350	0.8281
BSW	GBR	100.775	-0.5184	0.8649
BSW	ITA	61.800	0.3720	0.7744
BSW	NLD	-52.874	1.5727	0.7921
BSW	NZL	96.787	-12.3637	0.5041
BSW	SVN	48.000	0.5030	0.6400
BSW	USA	181.700	-27.4040	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 2304
 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		-67.346	0.6779	0.66
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-43.624	0.4375	

BSW RUMP	CHE OVERALL RUMP	-26.428	0.2862
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-58.423	0.5947
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-50.533	0.5110
BSW STATURE	CHE STATURE	-48.602	0.4830
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-51.667	0.5300
BSW CHEST WIDTH	CHE CHEST WIDTH	-72.562	0.7564
BSW BODY DEPTH	CHE BODY DEPTH	-54.662	0.5441
BSW LOIN STRENGTH	CHE TOP LINE	-44.888	0.4908
BSW PIN WIDTH	CHE RUMP WIDTH	-53.680	0.5586
BSW RUMP ANGLE	CHE RUMP ANGLE	-56.410	0.5746
BSW BONE QUALITY	CHE HOCK QUALITY	-64.624	0.6222
BSW FOOT ANGLE	CHE FOOT ANGLE	-42.046	0.4155
BSW HEEL DEPTH	CHE HEEL DEPTH	-55.861	0.5699
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-55.664	0.5589
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.499	0.5204
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-65.446	0.6485
BSW FORE ATTACHMENT	CHE FORE UDDER	-48.021	0.4835
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-51.167	0.5208
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.660	0.4002
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-58.388	0.5804
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-62.784	0.6346
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-44.592	0.4571
BSW ANGULARITY	CHE ANGULARITY	60.596	-0.6623

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Conversion Factors For Type. Source = INTERBULL MACE 2304
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	r
e	i	y	i		e	e
d	t	2	t			2
BSW CONFORMATION	DEA CONFORMATION	-61.366	0.5632	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-53.781	0.4975			
BSW RUMP	DEA OVERALL RUMP	-45.689	0.4427			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-44.583	0.4202			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-59.422	0.5489			
BSW STATURE	DEA STATURE	-58.074	0.5414			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-44.238	0.4616			
BSW CHEST WIDTH	DEA CHEST WIDTH	-61.060	0.5979			
BSW BODY DEPTH	DEA BODY DEPTH	-52.436	0.5025			
BSW LOIN STRENGTH	DEA TOP LINE	-52.234	0.5178			
BSW PIN WIDTH	DEA RUMP WIDTH	-52.161	0.5072			
BSW RUMP ANGLE	DEA RUMP ANGLE	-55.136	0.5616			
BSW BONE QUALITY	DEA HOCK QUALITY	-54.528	0.5260			
BSW FOOT ANGLE	DEA FOOT ANGLE	-52.068	0.4993			
BSW HEEL DEPTH	DEA HEEL DEPTH	-55.217	0.5283			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-60.664	0.5934			
BSW UDDER DEPTH	DEA UDDER DEPTH	-53.202	0.5041			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-71.413	0.6884			

BSW FORE ATTACHMENT	DEA FORE UDDER	-52.457	0.4984
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-67.506	0.6464
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.504	0.5331
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-54.351	0.5033
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-62.004	0.5864
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-57.647	0.5515

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Conversion Factors For Type. Source = INTERBULL MACE 2304
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=FRA

	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	FRA OVERALL SCORE	-2.438	5.7962	0.55		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-1.870	5.8656			
BSW RUMP	FRA OVERALL RUMP	0.645	6.0035			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.516	3.8364			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-1.741	7.5943			
BSW STATURE	FRA STATURE	-1.268	6.7522			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.830	5.8355			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.472	7.5457			
BSW BODY DEPTH	FRA BODY DEPTH	-1.509	5.2967			
BSW LOIN STRENGTH	FRA TOP LINE	0.627	5.0500			
BSW PIN WIDTH	FRA RUMP WIDTH	1.516	6.9835			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.308	6.8348			
BSW BONE QUALITY	FRA HOCK QUALITY	-1.514	6.5217			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.097	6.3132			
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.245	5.8456			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.487	6.9962			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.958	6.3088			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.822	7.8114			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.024	6.9736			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-1.545	7.8527			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.636	6.4532			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.962	6.6516			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.339	7.9991			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.203	7.0649			
BSW ANGULARITY	FRA ANGULARITY	-3.745	8.3297			

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Conversion Factors For Type. Source = INTERBULL MACE 2304
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		-2.364	3.3546	0.56
BSW FEET AND LEGS		GBR OVERALL FEET & LEG		-1.034	3.7158	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-2.015	3.7133	
BSW STATURE		GBR STATURE		-0.319	7.0558	
BSW CHEST WIDTH		GBR CHEST WIDTH		0.704	4.9826	
BSW BODY DEPTH		GBR BODY DEPTH		0.203	3.5143	
BSW PIN WIDTH		GBR RUMP WIDTH		1.343	5.2178	
BSW RUMP ANGLE		GBR RUMP ANGLE		0.081	3.3043	
BSW FOOT ANGLE		GBR FOOT ANGLE		-0.045	5.6135	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.232	4.5347	
BSW UDDER DEPTH		GBR UDDER DEPTH		-1.820	3.0360	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.488	2.3905	
BSW FORE ATTACHMENT		GBR FORE UDDER		-2.684	4.4150	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-0.239	4.9285	
BSW TEAT LENGTH		GBR TEAT LENGTH		-0.028	4.0958	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-0.684	3.1601	
BSW ANGULARITY		GBR ANGULARITY		-1.854	9.8057	

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Conversion Factors For Type. Source = INTERBULL MACE 2304
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		-76.995	0.7053	0.59
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-34.959	0.3161	
BSW RUMP		ITA OVERALL RUMP		-40.295	0.3835	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-33.708	0.2987	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-72.764	0.6665	
BSW STATURE		ITA STATURE		-48.518	0.4388	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-19.981	0.2132	
BSW CHEST WIDTH		ITA STRENGTH		-30.432	0.2994	
BSW BODY DEPTH		ITA BODY DEPTH		-30.905	0.2949	
BSW LOIN STRENGTH		ITA TOP LINE		-25.592	0.2554	
BSW PIN WIDTH		ITA RUMP WIDTH		-34.470	0.3292	
BSW RUMP ANGLE		ITA RUMP ANGLE		-26.483	0.2752	
BSW BONE QUALITY		ITA HOCK QUALITY		-35.599	0.3208	
BSW FOOT ANGLE		ITA FOOT ANGLE		-34.963	0.3109	
BSW HEEL DEPTH		ITA HEEL DEPTH		-34.820	0.3151	

BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-31.128	0.3056
BSW UDDER DEPTH	ITA UDDER DEPTH	-34.662	0.3107
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-41.420	0.3827
BSW FORE ATTACHMENT	ITA FORE UDDER	-33.610	0.2974
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-33.912	0.3026
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.736	0.3341
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-48.839	0.4360
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-52.092	0.4777
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.888	0.3072

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Conversion Factors For Type. Source = INTERBULL MACE 2304
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	-137.447	1.4081	0.53
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-130.332	1.1975	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-130.959	1.4312	
BSW STATURE	NLD STATURE	-135.027	1.3792	
BSW CHEST WIDTH	NLD CHEST WIDTH	-152.454	1.5313	
BSW BODY DEPTH	NLD BODY DEPTH	-116.249	1.2268	
BSW PIN WIDTH	NLD RUMP WIDTH	-146.744	1.6629	
BSW RUMP ANGLE	NLD RUMP ANGLE	-142.748	1.4107	
BSW FOOT ANGLE	NLD FOOT ANGLE	-148.961	1.3049	
BSW HEEL DEPTH	NLD HEEL DEPTH	-141.201	1.2350	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-128.274	1.3421	
BSW UDDER DEPTH	NLD UDDER DEPTH	-143.362	1.5119	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-155.672	1.6572	
BSW FORE ATTACHMENT	NLD FORE UDDER	-120.514	1.2655	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-140.715	1.4090	
BSW TEAT LENGTH	NLD TEAT LENGTH	-124.062	1.2105	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-121.454	1.3682	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-119.234	1.3474	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-136.779	1.4203	
BSW ANGULARITY	NLD ANGULARITY	-158.818	1.7163	

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Conversion Factors For Type. Source = INTERBULL MACE 2304
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	-36.495	0.2431	0.35
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-30.566	0.2274	
BSW RUMP	SVN OVERALL RUMP	-25.740	0.2153	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-29.610	0.2293	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-41.880	0.2967	
BSW STATURE	SVN STATURE	-44.900	0.3501	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-15.780	0.1618	
BSW CHEST WIDTH	SVN CHEST WIDTH	-29.344	0.2936	
BSW BODY DEPTH	SVN BODY DEPTH	-25.262	0.2274	
BSW LOIN STRENGTH	SVN TOP LINE	-25.201	0.2422	
BSW PIN WIDTH	SVN RUMP WIDTH	-29.437	0.2562	
BSW RUMP ANGLE	SVN RUMP ANGLE	-24.851	0.2693	
BSW BONE QUALITY	SVN HOCK QUALITY	-37.448	0.3098	
BSW FOOT ANGLE	SVN FOOT ANGLE	-32.063	0.2752	
BSW HEEL DEPTH	SVN HEEL DEPTH	-23.629	0.2054	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-30.433	0.3022	
BSW UDDER DEPTH	SVN UDDER DEPTH	-31.845	0.2574	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-38.196	0.3117	
BSW FORE ATTACHMENT	SVN FORE UDDER	-30.069	0.2230	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-46.242	0.3700	
BSW TEAT LENGTH	SVN TEAT LENGTH	-26.836	0.3117	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-35.660	0.2730	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-41.393	0.3256	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-41.459	0.3414	

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 Conversion Factors For Type. Source = INTERBULL MACE 2304
 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)	0.848	12.6105	0.64
BSW DAIRY STRENGTH	USA OVERALL FRAME	0.035	3.2486	
BSW RUMP	USA OVERALL RUMP	0.030	6.9164	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	1.325	6.1118	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.851	8.9901	
BSW STATURE	USA STATURE	0.150	3.7892	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.662	4.8599	
BSW CHEST WIDTH	USA STRENGTH	0.621	8.2400	
BSW BODY DEPTH	USA BODY DEPTH	0.534	6.1532	
BSW PIN WIDTH	USA RUMP WIDTH	0.067	6.8733	

BSW RUMP ANGLE	USA RUMP ANGLE	-1.493	4.9850
BSW FOOT ANGLE	USA FOOT ANGLE	0.850	8.9575
BSW HEEL DEPTH	USA HEEL DEPTH	0.051	8.3989
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.152	9.5532
BSW UDDER DEPTH	USA UDDER DEPTH	0.221	5.2295
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.215	6.6957
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.626	5.0440
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.194	5.0505
BSW TEAT LENGTH	USA TEAT LENGTH	0.797	3.5419
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.028	5.9501
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.344	7.2616
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.459	4.4727
BSW ANGULARITY	USA ANGULARITY	0.598	6.6968

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2023

BREED	BMILK	BFAT	BPRT
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AYS	8071	337	277
BSW	8728	369	313
CN	5590	242	201
GUE	7470	339	257
JER	7090	366	276
HOL	10959	437	361
MS	6969	278	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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(437+50*0.5) / (10959+1000*0.5) - (437/11E3)] \\
 &= 200 * [(437+25) / (10959+500) - (0.03988)] \\
 &= 200 * [0.04032 - 0.03988] \\
 &= 200 * 0.00044 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(361+40*0.5) / (10959+1000*0.5) - (361/11E3)] \\
 &= 200 * [(361+20) / (10959+500) - (0.03294)] \\
 &= 200 * [0.03325 - 0.03294] \\
 &= 200 * 0.00031 \\
 &= 0.06
 \end{aligned}$$