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 Conversion Factors For Production Traits. Source: INTERBULL 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-156.27	1.2801	-7.835	1.2842	-5.326	1.3455	0.4624
BSW	CHE	-96.40	1.1280	-5.500	1.0860	0.100	1.1090	0.6889
BSW	DEA	263.90	1.2410	13.400	1.3750	11.800	1.3330	0.5929
BSW	FRA	126.50	0.9250	6.100	0.9200	8.400	0.9920	0.7396
BSW	GBR	2.86	1.8920	-0.110	2.2206	3.009	2.2916	0.6889
BSW	ITA	-398.10	0.9700	-11.800	1.0600	-10.400	0.9370	0.6724
BSW	NLD	1334.08	0.8744	54.232	0.9232	47.551	0.9059	0.7056
BSW	NZL	-82.74	0.9292	13.004	0.8245	2.387	0.8625	0.3721
BSW	SVN	-6588.20	58.5430	-272.300	2.4310	-230.200	2.0410	0.4356
BSW	USA	-156.40	0.9440	-6.700	1.0510	-8.200	1.1090	0.7744

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 Conversion Factors For SCS Traits. Source: INTERBULL 2404
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	43.300	0.5740	0.7921
BSW	DEA	50.500	0.5040	0.7569
BSW	FRA	101.800	6.1550	0.8281
BSW	GBR	100.733	-0.5495	0.8649
BSW	ITA	59.300	0.3960	0.7744
BSW	NLD	-59.631	1.6459	0.8100
BSW	NZL	96.635	-12.6799	0.5041
BSW	SVN	44.700	0.5330	0.6400
BSW	USA	187.900	-29.4960	0.7744

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 Conversion Factors For Type. Source = INTERBULL MACE 2404
 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		-65.491	0.6603	0.64
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-44.672	0.4482	

BSW RUMP	CHE OVERALL RUMP	-25.169	0.2774
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-55.549	0.5662
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-50.111	0.5071
BSW STATURE	CHE STATURE	-47.313	0.4757
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-51.268	0.5298
BSW CHEST WIDTH	CHE CHEST WIDTH	-69.781	0.7253
BSW BODY DEPTH	CHE BODY DEPTH	-57.202	0.5701
BSW LOIN STRENGTH	CHE TOP LINE	-48.246	0.5271
BSW PIN WIDTH	CHE RUMP WIDTH	-51.674	0.5415
BSW RUMP ANGLE	CHE RUMP ANGLE	-56.858	0.5835
BSW BONE QUALITY	CHE HOCK QUALITY	-63.998	0.6149
BSW FOOT ANGLE	CHE FOOT ANGLE	-38.885	0.3843
BSW HEEL DEPTH	CHE HEEL DEPTH	-54.276	0.5542
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.995	0.5479
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.782	0.5340
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-64.373	0.6383
BSW FORE ATTACHMENT	CHE FORE UDDER	-46.950	0.4734
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-51.515	0.5250
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.564	0.4021
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-57.095	0.5684
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-65.958	0.6679
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-44.408	0.4578
BSW ANGULARITY	CHE ANGULARITY	63.026	-0.6859

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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	-64.553	0.5930	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-57.064	0.5270			
BSW RUMP	DEA OVERALL RUMP	-44.743	0.4361			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-44.481	0.4185			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-59.795	0.5504			
BSW STATURE	DEA STATURE	-58.075	0.5407			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-44.349	0.4637			
BSW CHEST WIDTH	DEA CHEST WIDTH	-59.694	0.5802			
BSW BODY DEPTH	DEA BODY DEPTH	-55.363	0.5281			
BSW LOIN STRENGTH	DEA TOP LINE	-56.336	0.5561			
BSW PIN WIDTH	DEA RUMP WIDTH	-50.345	0.4912			
BSW RUMP ANGLE	DEA RUMP ANGLE	-56.135	0.5735			
BSW BONE QUALITY	DEA HOCK QUALITY	-54.034	0.5219			
BSW FOOT ANGLE	DEA FOOT ANGLE	-49.540	0.4765			
BSW HEEL DEPTH	DEA HEEL DEPTH	-56.716	0.5419			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-59.993	0.5842			
BSW UDDER DEPTH	DEA UDDER DEPTH	-55.103	0.5217			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-70.390	0.6800			

BSW FORE ATTACHMENT	DEA FORE UDDER	-53.108	0.4998
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-69.140	0.6578
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.590	0.5367
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-56.025	0.5233
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-65.713	0.6234
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-57.674	0.5515

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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	-2.421	5.5620	0.55		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-1.718	5.8697			
BSW RUMP	FRA OVERALL RUMP	0.548	4.8372			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-2.045	2.8242			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-1.349	7.5908			
BSW STATURE	FRA STATURE	-0.390	6.4482			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	2.343	6.0735			
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.051	7.8249			
BSW BODY DEPTH	FRA BODY DEPTH	-1.647	5.6191			
BSW LOIN STRENGTH	FRA TOP LINE	1.127	5.5789			
BSW PIN WIDTH	FRA RUMP WIDTH	2.051	6.8157			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.613	7.1385			
BSW BONE QUALITY	FRA HOCK QUALITY	-0.853	6.5355			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.968	6.0763			
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.759	6.1622			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.525	7.1321			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.221	6.6149			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.601	7.5813			
BSW FORE ATTACHMENT	FRA FORE UDDER	-0.871	7.1150			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-1.000	8.0131			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.422	6.4605			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.596	6.9172			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.730	8.6273			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	0.398	7.3167			
BSW ANGULARITY	FRA ANGULARITY	-3.137	8.6616			

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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		-2.724	3.3567	0.55
BSW FEET AND LEGS		GBR OVERALL FEET & LEG		-1.327	3.6964	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-2.083	3.6959	
BSW STATURE		GBR STATURE		-0.520	7.0047	
BSW CHEST WIDTH		GBR CHEST WIDTH		0.301	4.8142	
BSW BODY DEPTH		GBR BODY DEPTH		-0.244	3.6588	
BSW PIN WIDTH		GBR RUMP WIDTH		1.680	5.2604	
BSW RUMP ANGLE		GBR RUMP ANGLE		0.267	3.4728	
BSW FOOT ANGLE		GBR FOOT ANGLE		-0.500	5.4389	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.159	4.3479	
BSW UDDER DEPTH		GBR UDDER DEPTH		-1.914	3.0130	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.628	2.3531	
BSW FORE ATTACHMENT		GBR FORE UDDER		-3.158	4.2208	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-0.505	4.9728	
BSW TEAT LENGTH		GBR TEAT LENGTH		-0.043	4.1035	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-0.779	3.0535	
BSW ANGULARITY		GBR ANGULARITY		-2.082	9.8102	

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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		-78.909	0.7226	0.59
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-36.262	0.3247	
BSW RUMP		ITA OVERALL RUMP		-39.812	0.3813	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-32.922	0.2921	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-74.876	0.6863	
BSW STATURE		ITA STATURE		-48.462	0.4388	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-20.325	0.2163	
BSW CHEST WIDTH		ITA STRENGTH		-29.989	0.2906	
BSW BODY DEPTH		ITA BODY DEPTH		-32.131	0.3053	
BSW LOIN STRENGTH		ITA TOP LINE		-27.990	0.2754	
BSW PIN WIDTH		ITA RUMP WIDTH		-32.944	0.3182	
BSW RUMP ANGLE		ITA RUMP ANGLE		-26.301	0.2761	
BSW BONE QUALITY		ITA HOCK QUALITY		-34.823	0.3172	
BSW FOOT ANGLE		ITA FOOT ANGLE		-34.141	0.3042	
BSW HEEL DEPTH		ITA HEEL DEPTH		-34.516	0.3158	

BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-30.371	0.2979
BSW UDDER DEPTH	ITA UDDER DEPTH	-36.346	0.3271
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-40.492	0.3757
BSW FORE ATTACHMENT	ITA FORE UDDER	-34.199	0.2997
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-33.412	0.2996
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.999	0.3381
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-48.939	0.4392
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-53.329	0.4923
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.104	0.3113

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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	-137.012	1.4272	0.52
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-124.792	1.1641	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-127.372	1.3998	
BSW STATURE	NLD STATURE	-133.786	1.3733	
BSW CHEST WIDTH	NLD CHEST WIDTH	-145.889	1.4778	
BSW BODY DEPTH	NLD BODY DEPTH	-117.487	1.2518	
BSW PIN WIDTH	NLD RUMP WIDTH	-140.700	1.6078	
BSW RUMP ANGLE	NLD RUMP ANGLE	-143.355	1.4230	
BSW FOOT ANGLE	NLD FOOT ANGLE	-136.538	1.2010	
BSW HEEL DEPTH	NLD HEEL DEPTH	-135.849	1.1909	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-125.927	1.3136	
BSW UDDER DEPTH	NLD UDDER DEPTH	-141.745	1.5048	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-149.589	1.5949	
BSW FORE ATTACHMENT	NLD FORE UDDER	-118.511	1.2501	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-140.907	1.4144	
BSW TEAT LENGTH	NLD TEAT LENGTH	-121.958	1.1910	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-118.257	1.3403	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-122.403	1.3915	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-135.812	1.4113	
BSW ANGULARITY	NLD ANGULARITY	-164.101	1.8015	

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Conversion Factors For Type. Source = INTERBULL MACE 2404
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	-37.802	0.2538	0.35
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-32.549	0.2444	
BSW RUMP	SVN OVERALL RUMP	-26.871	0.2302	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-30.496	0.2362	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-43.183	0.3083	
BSW STATURE	SVN STATURE	-45.466	0.3551	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-15.060	0.1548	
BSW CHEST WIDTH	SVN CHEST WIDTH	-29.341	0.2897	
BSW BODY DEPTH	SVN BODY DEPTH	-26.623	0.2367	
BSW LOIN STRENGTH	SVN TOP LINE	-27.744	0.2604	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.498	0.2499	
BSW RUMP ANGLE	SVN RUMP ANGLE	-25.171	0.2753	
BSW BONE QUALITY	SVN HOCK QUALITY	-37.062	0.3090	
BSW FOOT ANGLE	SVN FOOT ANGLE	-31.534	0.2703	
BSW HEEL DEPTH	SVN HEEL DEPTH	-23.893	0.2073	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-30.139	0.3005	
BSW UDDER DEPTH	SVN UDDER DEPTH	-33.705	0.2725	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-37.493	0.3081	
BSW FORE ATTACHMENT	SVN FORE UDDER	-31.253	0.2321	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-47.759	0.3811	
BSW TEAT LENGTH	SVN TEAT LENGTH	-26.361	0.3101	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-35.694	0.2737	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-43.609	0.3453	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-41.574	0.3427	

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 Conversion Factors For Type. Source = INTERBULL MACE 2404
 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)	0.159	13.0522	0.62
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.449	3.4018	
BSW RUMP	USA OVERALL RUMP	-0.177	6.9930	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	1.086	5.9108	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.258	9.2040	
BSW STATURE	USA STATURE	-0.227	3.7742	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.818	4.8062	
BSW CHEST WIDTH	USA STRENGTH	0.018	8.0069	
BSW BODY DEPTH	USA BODY DEPTH	0.278	6.3045	
BSW PIN WIDTH	USA RUMP WIDTH	0.022	6.5136	

BSW RUMP ANGLE	USA RUMP ANGLE	-1.482	4.9950
BSW FOOT ANGLE	USA FOOT ANGLE	0.271	8.5073
BSW HEEL DEPTH	USA HEEL DEPTH	-0.197	8.2379
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.366	9.4437
BSW UDDER DEPTH	USA UDDER DEPTH	0.166	5.4112
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.041	6.6227
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-0.010	5.2006
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.619	5.1159
BSW TEAT LENGTH	USA TEAT LENGTH	1.147	3.6459
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.205	6.1753
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.021	7.6078
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.158	4.4536
BSW ANGULARITY	USA ANGULARITY	0.348	6.8854

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2024

BREED	BMILK	BFAT	BPRT
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AYS	8203	342	282
BSW	8779	374	314
CN	5591	241	203
GUE	7216	335	253
JER	7169	370	280
HOL	11061	443	366
MS	7112	285	244

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(443+50*0.5) / (11061+1000*0.5) - (443/11061)] \\
 &= 200 * [(443+25) / (11061+500) - (0.04005)] \\
 &= 200 * [0.04048 - 0.04005] \\
 &= 200 * 0.00043 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(366+40*0.5) / (11061+1000*0.5) - (366/11061)] \\
 &= 200 * [(366+20) / (11061+500) - (0.03309)] \\
 &= 200 * [0.03339 - 0.03309] \\
 &= 200 * 0.00030 \\
 &= 0.06
 \end{aligned}$$