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 Conversion Factors For Production Traits. Source: INTERBULL 1808
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-34.09	1.1956	1.137	1.2415	-0.055	1.3333	0.4900
BSW	CHE	-179.70	1.0410	-6.400	1.0580	-4.600	1.0770	0.7396
BSW	DEA	206.40	1.2590	11.800	1.3970	11.800	1.4230	0.7396
BSW	FRA	58.90	0.9160	4.300	0.8960	4.400	0.9570	0.7056
BSW	GBR	-198.23	2.1658	-6.571	2.5885	-5.813	2.6138	0.7225
BSW	ITA	-109.60	0.9250	-0.200	1.0470	0.900	0.9020	0.7225
BSW	NLD	1060.12	0.8902	32.772	0.9011	33.072	0.9299	0.7396
BSW	NZL	313.65	1.3210	38.622	1.2896	19.286	1.5252	0.4900
BSW	SVN	-7182.90	62.1270	-278.000	2.4070	-256.300	2.2220	0.6724
BSW	USA	-90.00	0.9730	-4.100	1.0550	-4.900	1.1340	0.8100

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 Conversion Factors For SCS Traits. Source: INTERBULL 1808
 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	-0.2270	0.8649
BSW	GBR	2.978	0.0179	0.8464
BSW	ITA	4.300	-0.0130	0.8100
BSW	NLD	-3.137	0.0601	0.8100
BSW	NZL	3.167	0.5621	0.7569
BSW	SVN	5.300	-0.0220	0.7921
BSW	USA	-0.100	1.0710	0.8464

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 Conversion Factors For Type. Source = INTERBULL MACE 1808
 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			-77.958	0.7716	0.76
BSW DAIRY STRENGTH		CHE OVERALL FRAME			-49.907	0.4825	

BSW RUMP	CHE OVERALL RUMP	-31.029	0.3168
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-61.479	0.6123
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-54.530	0.5445
BSW STATURE	CHE STATURE	-54.785	0.5283
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-57.813	0.5831
BSW CHEST WIDTH	CHE CHEST WIDTH	-74.327	0.7647
BSW BODY DEPTH	CHE BODY DEPTH	-56.066	0.5522
BSW LOIN STRENGTH	CHE TOP LINE	-50.979	0.5343
BSW PIN WIDTH	CHE RUMP WIDTH	-57.981	0.6012
BSW RUMP ANGLE	CHE RUMP ANGLE	-55.215	0.5612
BSW BONE QUALITY	CHE HOCK QUALITY	-59.282	0.5692
BSW FOOT ANGLE	CHE FOOT ANGLE	-39.482	0.3871
BSW HEEL DEPTH	CHE HEEL DEPTH	-60.133	0.6091
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-50.423	0.5079
BSW UDDER DEPTH	CHE UDDER DEPTH	-52.604	0.5283
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-62.846	0.6129
BSW FORE ATTACHMENT	CHE FORE UDDER	-53.520	0.5312
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-49.377	0.4974
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.432	0.3896
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-61.577	0.6038
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-63.154	0.6232
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-45.357	0.4541
BSW ANGULARITY	CHE ANGULARITY	55.056	-0.6029

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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	l	r
e	i	y	i	u	u	r
d	t	2	t	e	e	2
BSW CONFORMATION	DEA CONFORMATION	-62.144	0.5727	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-58.155	0.5342			
BSW RUMP	DEA OVERALL RUMP	-40.361	0.3868			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-42.111	0.4025			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-57.562	0.5365			
BSW STATURE	DEA STATURE	-62.579	0.5803			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-40.289	0.4182			
BSW CHEST WIDTH	DEA CHEST WIDTH	-62.355	0.6203			
BSW BODY DEPTH	DEA BODY DEPTH	-52.247	0.5065			
BSW LOIN STRENGTH	DEA TOP LINE	-55.751	0.5487			
BSW PIN WIDTH	DEA RUMP WIDTH	-52.166	0.5174			
BSW RUMP ANGLE	DEA RUMP ANGLE	-51.862	0.5329			
BSW BONE QUALITY	DEA HOCK QUALITY	-51.037	0.4942			
BSW FOOT ANGLE	DEA FOOT ANGLE	-47.828	0.4582			
BSW HEEL DEPTH	DEA HEEL DEPTH	-49.951	0.4893			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-53.829	0.5355			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.409	0.5038			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-67.132	0.6418			

BSW FORE ATTACHMENT	DEA FORE UDDER	-55.978	0.5468
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-64.999	0.6226
BSW TEAT LENGTH	DEA TEAT LENGTH	-50.522	0.5021
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-53.071	0.4883
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-57.401	0.5383
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-56.946	0.5364

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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	-2.366	6.4986	0.67		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.850	6.8783			
BSW RUMP	FRA OVERALL RUMP	-0.403	5.9248			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.033	3.5286			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-1.895	7.1215			
BSW STATURE	FRA STATURE	-2.863	7.2830			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.859	6.0661			
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.785	7.3517			
BSW BODY DEPTH	FRA BODY DEPTH	-1.332	5.5764			
BSW LOIN STRENGTH	FRA TOP LINE	-0.502	5.2728			
BSW PIN WIDTH	FRA RUMP WIDTH	-0.946	6.8712			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.045	6.7073			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.241	5.9049			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.415	5.4163			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.009	6.2209			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.266	6.4629			
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.411	6.2514			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	0.171	7.5200			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.630	6.8666			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.017	7.3194			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.596	6.1271			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.842	6.8840			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.493	7.4893			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.600	6.9489			
BSW ANGULARITY	FRA ANGULARITY	-3.806	7.7124			

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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		-0.720	3.9753	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-1.880	4.9059	
BSW STATURE		GBR STATURE		-3.219	8.5014	
BSW CHEST WIDTH		GBR CHEST WIDTH		-1.021	5.5549	
BSW BODY DEPTH		GBR BODY DEPTH		0.130	4.2576	
BSW PIN WIDTH		GBR RUMP WIDTH		-0.575	5.7383	
BSW RUMP ANGLE		GBR RUMP ANGLE		0.856	3.5296	
BSW FOOT ANGLE		GBR FOOT ANGLE		0.782	7.5119	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.956	5.6677	
BSW UDDER DEPTH		GBR UDDER DEPTH		-0.998	3.2935	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-0.642	2.6015	
BSW FORE ATTACHMENT		GBR FORE UDDER		-2.665	4.8594	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-1.217	5.3781	
BSW TEAT LENGTH		GBR TEAT LENGTH		0.534	4.3172	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-0.926	4.6340	
BSW ANGULARITY		GBR ANGULARITY		-2.564	10.1746	

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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		-77.590	0.7056	0.69
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-35.472	0.3233	
BSW RUMP		ITA OVERALL RUMP		-37.710	0.3559	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-33.079	0.2880	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-55.136	0.4868	
BSW STATURE		ITA STATURE		-48.582	0.4402	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-21.541	0.2228	
BSW CHEST WIDTH		ITA STRENGTH		-29.918	0.2900	
BSW BODY DEPTH		ITA BODY DEPTH		-29.172	0.2835	
BSW LOIN STRENGTH		ITA TOP LINE		-26.615	0.2630	
BSW PIN WIDTH		ITA RUMP WIDTH		-33.423	0.3221	
BSW RUMP ANGLE		ITA RUMP ANGLE		-25.946	0.2735	
BSW BONE QUALITY		ITA HOCK QUALITY		-33.978	0.2951	
BSW FOOT ANGLE		ITA FOOT ANGLE		-28.908	0.2563	
BSW HEEL DEPTH		ITA HEEL DEPTH		-33.314	0.3025	
BSW REAR LEGS SIDE VIEW		ITA REAR LEG SET		-27.391	0.2723	

BSW UDDER DEPTH	ITA UDDER DEPTH	-32.503	0.2910
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-40.417	0.3755
BSW FORE ATTACHMENT	ITA FORE UDDER	-32.668	0.2959
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-29.938	0.2661
BSW TEAT LENGTH	ITA TEAT LENGTH	-29.693	0.3049
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.921	0.4400
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-49.703	0.4461
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.343	0.2964

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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	r	r	v	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	-162.217	1.5934	0.61		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-128.123	1.1411			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-146.316	1.5515			
BSW STATURE	NLD STATURE	-139.924	1.3922			
BSW CHEST WIDTH	NLD CHEST WIDTH	-173.490	1.7213			
BSW BODY DEPTH	NLD BODY DEPTH	-126.806	1.3195			
BSW PIN WIDTH	NLD RUMP WIDTH	-156.623	1.7603			
BSW RUMP ANGLE	NLD RUMP ANGLE	-144.299	1.4237			
BSW FOOT ANGLE	NLD FOOT ANGLE	-131.703	1.1409			
BSW HEEL DEPTH	NLD HEEL DEPTH	-142.754	1.2424			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-116.229	1.2222			
BSW UDDER DEPTH	NLD UDDER DEPTH	-149.616	1.5286			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-140.888	1.4898			
BSW FORE ATTACHMENT	NLD FORE UDDER	-133.463	1.3706			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-145.286	1.4311			
BSW TEAT LENGTH	NLD TEAT LENGTH	-121.180	1.1652			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-116.995	1.2841			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-110.340	1.2172			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-147.120	1.5148			
BSW ANGULARITY	NLD ANGULARITY	-148.927	1.5723			

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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	r	a	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	-38.555	0.2653	0.62
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-33.706	0.2473	
BSW RUMP	SVN OVERALL RUMP	-25.373	0.2152	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-28.177	0.2241	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-38.836	0.2809	
BSW STATURE	SVN STATURE	-49.718	0.3808	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-16.276	0.1653	
BSW CHEST WIDTH	SVN CHEST WIDTH	-31.557	0.3213	
BSW BODY DEPTH	SVN BODY DEPTH	-22.868	0.2023	
BSW LOIN STRENGTH	SVN TOP LINE	-27.722	0.2707	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.959	0.2508	
BSW RUMP ANGLE	SVN RUMP ANGLE	-27.775	0.2996	
BSW BONE QUALITY	SVN HOCK QUALITY	-34.397	0.2806	
BSW FOOT ANGLE	SVN FOOT ANGLE	-29.582	0.2530	
BSW HEEL DEPTH	SVN HEEL DEPTH	-25.142	0.2234	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-26.089	0.2683	
BSW UDDER DEPTH	SVN UDDER DEPTH	-33.389	0.2774	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-33.208	0.2675	
BSW FORE ATTACHMENT	SVN FORE UDDER	-31.839	0.2397	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-45.360	0.3690	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.628	0.3096	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-42.148	0.3240	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-45.548	0.3600	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.620	0.3586	

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Conversion Factors For Type. Source = INTERBULL MACE 1808
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)	0.229	10.2425	0.76
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.353	3.7582	
BSW RUMP	USA OVERALL RUMP	-0.079	8.6474	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	-0.247	6.6125	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.195	6.7859	
BSW STATURE	USA STATURE	-0.584	4.0915	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-2.107	6.4618	
BSW CHEST WIDTH	USA STRENGTH	-0.506	9.1745	
BSW BODY DEPTH	USA BODY DEPTH	-0.030	6.3804	
BSW PIN WIDTH	USA RUMP WIDTH	0.631	8.6450	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.094	5.8085	

BSW FOOT ANGLE	USA FOOT ANGLE	-0.216	9.5810
BSW HEEL DEPTH	USA HEEL DEPTH	0.085	10.5238
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.140	9.5666
BSW UDDER DEPTH	USA UDDER DEPTH	0.022	5.1404
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.098	5.7273
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	0.718	5.2105
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.323	5.2471
BSW TEAT LENGTH	USA TEAT LENGTH	0.471	4.2310
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.664	5.2353
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	-0.171	6.7336
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	-0.015	4.9029
BSW ANGULARITY	USA ANGULARITY	0.297	5.5283

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2018

BREED	BMILK	BFAT	BPRT
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AYS	7802	325	263
BSW	8550	359	301
CN	5896	253	207
GUE	6583	305	225
JER	6643	336	255
HOL	10228	399	329
MS	6829	270	227

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(399+50*0.5) / (10228+1000*0.5) - (399 / 1E4)] \\
 &= 200 * [(399+25) / (10228+500) - (0.03901)] \\
 &= 200 * [0.03952 - 0.03901] \\
 &= 200 * 0.00051 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(329+40*0.5) / (10228+1000*0.5) - (329 / 1E4)] \\
 &= 200 * [(329+20) / (10228+500) - (0.03217)] \\
 &= 200 * [0.03253 - 0.03217] \\
 &= 200 * 0.00037 \\
 &= 0.07
 \end{aligned}$$