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 Conversion Factors For Production Traits. Source: INTERBULL 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-70.45	1.2368	-3.741	1.3271	-1.931	1.3652	0.4900
BSW	CHE	-131.10	1.1340	-5.100	1.1270	-2.100	1.1380	0.7056
BSW	DEA	255.60	1.2870	14.700	1.4280	13.100	1.4020	0.6724
BSW	FRA	113.30	0.9500	5.100	0.9620	7.500	1.0180	0.6889
BSW	GBR	-11.04	1.9373	1.644	2.2232	2.969	2.3202	0.7056
BSW	ITA	-364.90	0.9700	-9.000	1.0920	-8.400	0.9450	0.7056
BSW	NLD	1258.62	0.8733	44.659	0.9227	42.242	0.9207	0.7225
BSW	NZL	193.41	0.9819	25.336	0.9473	10.592	0.9222	0.3481
BSW	SVN	-7655.00	67.4130	-295.000	2.6000	-258.700	2.2780	0.5184
BSW	USA	22.70	0.9750	0.900	1.0980	-0.300	1.1560	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	44.600	0.5580	0.8281
BSW	DEA	52.500	0.4850	0.8281
BSW	FRA	100.800	5.7400	0.8464
BSW	GBR	100.758	-0.5006	0.8464
BSW	ITA	62.400	0.3630	0.7921
BSW	NLD	-43.183	1.4488	0.7921
BSW	NZL	96.229	-12.7105	0.5041
BSW	SVN	42.100	0.5570	0.7056
BSW	USA	184.800	-28.5500	0.8100

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 Conversion Factors For Type. Source = INTERBULL MACE 2112
 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		-70.151	0.6924	0.69
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-45.392	0.4390	

BSW RUMP	CHE OVERALL RUMP	-26.139	0.2679
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-59.093	0.5944
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-53.220	0.5301
BSW STATURE	CHE STATURE	-50.434	0.4885
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-55.387	0.5565
BSW CHEST WIDTH	CHE CHEST WIDTH	-73.278	0.7572
BSW BODY DEPTH	CHE BODY DEPTH	-56.012	0.5488
BSW LOIN STRENGTH	CHE TOP LINE	-45.402	0.4826
BSW PIN WIDTH	CHE RUMP WIDTH	-50.659	0.5289
BSW RUMP ANGLE	CHE RUMP ANGLE	-57.691	0.5815
BSW BONE QUALITY	CHE HOCK QUALITY	-64.096	0.6170
BSW FOOT ANGLE	CHE FOOT ANGLE	-40.473	0.3964
BSW HEEL DEPTH	CHE HEEL DEPTH	-56.972	0.5766
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.587	0.5539
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.575	0.5194
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-67.939	0.6595
BSW FORE ATTACHMENT	CHE FORE UDDER	-52.281	0.5168
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-53.305	0.5257
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.849	0.3981
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-59.586	0.5905
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-64.294	0.6396
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-44.945	0.4502
BSW ANGULARITY	CHE ANGULARITY	59.350	-0.6552

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Conversion Factors For Type. Source = INTERBULL MACE 2112
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	-61.030	0.5580	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-55.108	0.5030			
BSW RUMP	DEA OVERALL RUMP	-40.316	0.3891			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-45.128	0.4230			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-59.746	0.5516			
BSW STATURE	DEA STATURE	-58.364	0.5437			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-42.905	0.4455			
BSW CHEST WIDTH	DEA CHEST WIDTH	-62.894	0.6199			
BSW BODY DEPTH	DEA BODY DEPTH	-52.352	0.4996			
BSW LOIN STRENGTH	DEA TOP LINE	-52.313	0.5143			
BSW PIN WIDTH	DEA RUMP WIDTH	-49.188	0.4814			
BSW RUMP ANGLE	DEA RUMP ANGLE	-54.996	0.5603			
BSW BONE QUALITY	DEA HOCK QUALITY	-55.393	0.5307			
BSW FOOT ANGLE	DEA FOOT ANGLE	-48.535	0.4646			
BSW HEEL DEPTH	DEA HEEL DEPTH	-55.661	0.5358			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-59.584	0.5849			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.205	0.5000			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-73.290	0.7015			

BSW FORE ATTACHMENT	DEA FORE UDDER	-54.547	0.5221
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-68.097	0.6476
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.695	0.5330
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-53.178	0.4905
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-61.507	0.5754
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-56.289	0.5357

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Conversion Factors For Type. Source = INTERBULL MACE 2112
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	-3.013	5.8608	0.58		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.867	6.0403			
BSW RUMP	FRA OVERALL RUMP	-0.228	5.4553			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.472	3.8006			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.515	7.6230			
BSW STATURE	FRA STATURE	-2.116	6.7573			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.549	6.2701			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.161	7.4501			
BSW BODY DEPTH	FRA BODY DEPTH	-1.861	5.5232			
BSW LOIN STRENGTH	FRA TOP LINE	-0.338	4.9519			
BSW PIN WIDTH	FRA RUMP WIDTH	0.375	6.5580			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.057	6.9357			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.364	6.5246			
BSW FOOT ANGLE	FRA HEEL DEPTH	0.016	6.0360			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.237	5.7511			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.495	7.0110			
BSW UDDER DEPTH	FRA UDDER DEPTH	-1.107	6.3392			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.868	7.9503			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.505	7.2431			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.640	7.7662			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.783	6.4996			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-2.314	6.5330			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-2.118	7.7883			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.624	6.8271			
BSW ANGULARITY	FRA ANGULARITY	-4.631	8.4666			

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Conversion Factors For Type. Source = INTERBULL MACE 2112
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	-1.620	3.4547
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-3.465	4.4281
BSW STATURE	GBR STATURE	-0.896	7.0673
BSW CHEST WIDTH	GBR CHEST WIDTH	0.206	5.2497
BSW BODY DEPTH	GBR BODY DEPTH	-0.127	3.4244
BSW PIN WIDTH	GBR RUMP WIDTH	0.184	4.7690
BSW RUMP ANGLE	GBR RUMP ANGLE	0.981	3.6606
BSW FOOT ANGLE	GBR FOOT ANGLE	-0.627	5.9546
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-2.369	4.7768
BSW UDDER DEPTH	GBR UDDER DEPTH	-1.459	3.2467
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-1.001	2.4045
BSW FORE ATTACHMENT	GBR FORE UDDER	-3.593	5.1232
BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.574	5.0996
BSW TEAT LENGTH	GBR TEAT LENGTH	0.467	4.3937
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-0.941	3.4794
BSW ANGULARITY	GBR ANGULARITY	-3.160	10.1343

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Conversion Factors For Type. Source = INTERBULL MACE 2112
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	-76.652	0.6969	0.62
BSW DAIRY STRENGTH	ITA OVERALL FRAME	-36.432	0.3230	
BSW RUMP	ITA OVERALL RUMP	-37.698	0.3558	
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-35.101	0.3088	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-74.719	0.6793	
BSW STATURE	ITA STATURE	-48.001	0.4328	
BSW THURL PLACEMENT	ITA THURL PLACEMENT	-21.284	0.2235	
BSW CHEST WIDTH	ITA STRENGTH	-30.473	0.2985	
BSW BODY DEPTH	ITA BODY DEPTH	-30.887	0.2941	
BSW LOIN STRENGTH	ITA TOP LINE	-25.760	0.2516	
BSW PIN WIDTH	ITA RUMP WIDTH	-31.727	0.3036	
BSW RUMP ANGLE	ITA RUMP ANGLE	-27.109	0.2801	
BSW BONE QUALITY	ITA HOCK QUALITY	-36.886	0.3268	
BSW FOOT ANGLE	ITA FOOT ANGLE	-32.668	0.2910	
BSW HEEL DEPTH	ITA HEEL DEPTH	-31.782	0.2879	
BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-30.712	0.2986	

BSW UDDER DEPTH	ITA UDDER DEPTH	-33.283	0.2998
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.924	0.3945
BSW FORE ATTACHMENT	ITA FORE UDDER	-33.500	0.2970
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-33.915	0.2947
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.562	0.3296
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.377	0.4397
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-53.377	0.4825
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.586	0.2997

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Conversion Factors For Type. Source = INTERBULL MACE 2112
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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

BSW CONFORMATION	NLD CONFORMATION	-155.093	1.5537	0.53
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-145.007	1.3222	
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-147.479	1.5704	
BSW STATURE	NLD STATURE	-143.535	1.4514	
BSW CHEST WIDTH	NLD CHEST WIDTH	-162.342	1.6208	
BSW BODY DEPTH	NLD BODY DEPTH	-126.090	1.3229	
BSW PIN WIDTH	NLD RUMP WIDTH	-139.754	1.5747	
BSW RUMP ANGLE	NLD RUMP ANGLE	-146.016	1.4447	
BSW FOOT ANGLE	NLD FOOT ANGLE	-146.329	1.2738	
BSW HEEL DEPTH	NLD HEEL DEPTH	-140.443	1.2246	
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-126.936	1.3310	
BSW UDDER DEPTH	NLD UDDER DEPTH	-149.755	1.5572	
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-163.599	1.7282	
BSW FORE ATTACHMENT	NLD FORE UDDER	-132.663	1.3665	
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-141.842	1.4055	
BSW TEAT LENGTH	NLD TEAT LENGTH	-123.240	1.1969	
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-124.496	1.3772	
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-120.838	1.3374	
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-134.496	1.3943	
BSW ANGULARITY	NLD ANGULARITY	-168.835	1.7961	

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Conversion Factors For Type. Source = INTERBULL MACE 2112
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=SVN

	c	c	f			
	a	o	o	a	b	t
	n	u	r			

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	-37.724	0.2473	0.45
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-34.068	0.2466	
BSW RUMP	SVN OVERALL RUMP	-25.296	0.2095	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-28.608	0.2199	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-44.165	0.3130	
BSW STATURE	SVN STATURE	-48.637	0.3751	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-17.177	0.1714	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.419	0.3252	
BSW BODY DEPTH	SVN BODY DEPTH	-24.899	0.2161	
BSW LOIN STRENGTH	SVN TOP LINE	-26.130	0.2500	
BSW PIN WIDTH	SVN RUMP WIDTH	-27.470	0.2358	
BSW RUMP ANGLE	SVN RUMP ANGLE	-27.066	0.2904	
BSW BONE QUALITY	SVN HOCK QUALITY	-38.200	0.3099	
BSW FOOT ANGLE	SVN FOOT ANGLE	-30.149	0.2554	
BSW HEEL DEPTH	SVN HEEL DEPTH	-24.271	0.2086	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-30.147	0.3053	
BSW UDDER DEPTH	SVN UDDER DEPTH	-34.640	0.2836	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-36.717	0.2898	
BSW FORE ATTACHMENT	SVN FORE UDDER	-32.786	0.2428	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-49.904	0.3972	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.774	0.3222	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-41.703	0.3205	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-48.083	0.3724	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-43.830	0.3605	

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 Conversion Factors For Type. Source = INTERBULL MACE 2112
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

	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	USA PTA TYPE (FINAL SCORE)	1.339	12.6083	0.69
BSW DAIRY STRENGTH	USA OVERALL FRAME	0.209	3.3913	
BSW RUMP	USA OVERALL RUMP	0.034	6.2596	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	0.083	5.0889	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.515	6.6381	
BSW STATURE	USA STATURE	0.638	3.7917	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.969	5.0406	
BSW CHEST WIDTH	USA STRENGTH	0.901	8.3883	
BSW BODY DEPTH	USA BODY DEPTH	0.797	6.3733	
BSW PIN WIDTH	USA RUMP WIDTH	0.426	6.5013	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.471	4.9264	

BSW FOOT ANGLE	USA FOOT ANGLE	1.176	8.7498
BSW HEEL DEPTH	USA HEEL DEPTH	0.409	7.9121
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.010	9.3245
BSW UDDER DEPTH	USA UDDER DEPTH	0.611	5.1085
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	0.964	6.4575
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	1.097	5.2288
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.241	5.0209
BSW TEAT LENGTH	USA TEAT LENGTH	0.570	3.4735
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.346	5.7344
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.504	7.3272
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.440	4.3739
BSW ANGULARITY	USA ANGULARITY	0.522	6.7598

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2021

BREED	BMILK	BFAT	BPRT
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AYS	7970	333	273
BSW	8445	360	302
CN	5642	243	201
GUE	7093	331	251
JER	6976	359	271
HOL	10720	424	350
MS	7057	279	234

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(424+50*0.5) / (10720+1000*0.5) - (424/11E3)] \\
 &= 200 * [(424+25) / (10720+500) - (0.03955)] \\
 &= 200 * [0.04002 - 0.03955] \\
 &= 200 * 0.00047 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(350+40*0.5) / (10720+1000*0.5) - (350/11E3)] \\
 &= 200 * [(350+20) / (10720+500) - (0.03265)] \\
 &= 200 * [0.03298 - 0.03265] \\
 &= 200 * 0.00033 \\
 &= 0.07
 \end{aligned}$$