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 Conversion Factors For Production Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-153.23	1.2816	-8.087	1.2908	-5.306	1.3480	0.4624
BSW	CHE	-101.80	1.1210	-6.100	1.0910	-0.100	1.0960	0.6889
BSW	DEA	286.30	1.2310	14.100	1.3780	12.500	1.3240	0.5929
BSW	FRA	121.10	0.9210	5.700	0.9100	8.200	0.9790	0.7396
BSW	GBR	7.79	1.9076	0.107	2.2791	3.651	2.3388	0.6889
BSW	ITA	-378.60	0.9650	-11.500	1.0670	-9.700	0.9340	0.6724
BSW	NLD	1298.81	0.8572	53.005	0.9222	47.137	0.9047	0.7056
BSW	NZL	-84.26	0.9283	12.219	0.8148	2.272	0.8552	0.3721
BSW	SVN	-6476.20	57.5700	-273.300	2.4430	-227.500	2.0200	0.4356
BSW	USA	-190.60	0.9160	-7.800	1.0220	-9.300	1.0410	0.7744

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 Conversion Factors For SCS Traits. Source: INTERBULL 2408
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	45.600	0.5480	0.7921
BSW	DEA	52.200	0.4850	0.7569
BSW	FRA	101.600	5.8410	0.8281
BSW	GBR	100.456	-0.5399	0.8649
BSW	ITA	60.800	0.3800	0.7744
BSW	NLD	-54.404	1.5898	0.8100
BSW	NZL	96.554	-12.3757	0.5041
BSW	SVN	47.900	0.5010	0.6400
BSW	USA	184.400	-28.3790	0.7744

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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		-66.348	0.6683	0.64
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-45.134	0.4520	

BSW RUMP	CHE OVERALL RUMP	-25.319	0.2792
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-55.553	0.5690
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-50.595	0.5109
BSW STATURE	CHE STATURE	-47.094	0.4736
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-52.155	0.5377
BSW CHEST WIDTH	CHE CHEST WIDTH	-70.665	0.7322
BSW BODY DEPTH	CHE BODY DEPTH	-57.038	0.5682
BSW LOIN STRENGTH	CHE TOP LINE	-48.409	0.5304
BSW PIN WIDTH	CHE RUMP WIDTH	-51.608	0.5418
BSW RUMP ANGLE	CHE RUMP ANGLE	-56.951	0.5830
BSW BONE QUALITY	CHE HOCK QUALITY	-65.090	0.6254
BSW FOOT ANGLE	CHE FOOT ANGLE	-38.805	0.3848
BSW HEEL DEPTH	CHE HEEL DEPTH	-53.682	0.5495
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-55.348	0.5508
BSW UDDER DEPTH	CHE UDDER DEPTH	-51.822	0.5245
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-62.417	0.6194
BSW FORE ATTACHMENT	CHE FORE UDDER	-46.939	0.4720
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-51.084	0.5217
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.972	0.4069
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-57.352	0.5687
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-66.631	0.6727
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-44.558	0.4606
BSW ANGULARITY	CHE ANGULARITY	63.722	-0.6916

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-65.090	0.5985	0.66		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-57.781	0.5340			
BSW RUMP	DEA OVERALL RUMP	-45.258	0.4424			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-44.529	0.4216			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-60.238	0.5550			
BSW STATURE	DEA STATURE	-57.996	0.5419			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-44.781	0.4679			
BSW CHEST WIDTH	DEA CHEST WIDTH	-60.324	0.5850			
BSW BODY DEPTH	DEA BODY DEPTH	-55.383	0.5292			
BSW LOIN STRENGTH	DEA TOP LINE	-57.201	0.5661			
BSW PIN WIDTH	DEA RUMP WIDTH	-50.439	0.4943			
BSW RUMP ANGLE	DEA RUMP ANGLE	-56.373	0.5749			
BSW BONE QUALITY	DEA HOCK QUALITY	-54.901	0.5301			
BSW FOOT ANGLE	DEA FOOT ANGLE	-49.702	0.4799			
BSW HEEL DEPTH	DEA HEEL DEPTH	-55.093	0.5283			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-60.323	0.5863			
BSW UDDER DEPTH	DEA UDDER DEPTH	-54.054	0.5123			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-68.034	0.6589			

BSW FORE ATTACHMENT	DEA FORE UDDER	-52.900	0.4974
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-68.594	0.6537
BSW TEAT LENGTH	DEA TEAT LENGTH	-52.880	0.5405
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-56.195	0.5239
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-66.308	0.6283
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-58.017	0.5561

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-2.510	5.5804	0.55		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-1.856	5.9249			
BSW RUMP	FRA OVERALL RUMP	0.635	4.7899			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.808	2.8433			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-1.437	7.7218			
BSW STATURE	FRA STATURE	-0.335	6.4610			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	2.220	6.0620			
BSW CHEST WIDTH	FRA CHEST DEPTH	-0.346	7.8984			
BSW BODY DEPTH	FRA BODY DEPTH	-1.712	5.6511			
BSW LOIN STRENGTH	FRA TOP LINE	1.149	5.7048			
BSW PIN WIDTH	FRA RUMP WIDTH	2.032	6.8789			
BSW RUMP ANGLE	FRA RUMP ANGLE	2.488	7.1293			
BSW BONE QUALITY	FRA HOCK QUALITY	-0.944	6.7115			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.793	6.0686			
BSW HEEL DEPTH	FRA HEEL DEPTH	-0.373	6.0617			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.613	7.2283			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.183	6.4590			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.452	7.4009			
BSW FORE ATTACHMENT	FRA FORE UDDER	-0.920	7.1080			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-0.885	8.0266			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.592	6.5552			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-1.837	6.9437			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.948	8.5632			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	0.491	7.3898			
BSW ANGULARITY	FRA ANGULARITY	-3.110	8.7813			

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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 CONFORMATION	GBR CONFORMATION	-2.661	3.3870	0.55
BSW FEET AND LEGS	GBR OVERALL FEET & LEG	-0.788	3.7601	
BSW MAMMARY SYSTEM	GBR OVERALL UDDER SCORE	-2.165	3.7776	
BSW STATURE	GBR STATURE	-0.385	6.8842	
BSW CHEST WIDTH	GBR CHEST WIDTH	0.015	4.8715	
BSW BODY DEPTH	GBR BODY DEPTH	-0.338	3.5724	
BSW PIN WIDTH	GBR RUMP WIDTH	2.091	5.4790	
BSW RUMP ANGLE	GBR RUMP ANGLE	0.082	3.5008	
BSW FOOT ANGLE	GBR FOOT ANGLE	-0.263	5.5145	
BSW REAR LEGS SIDE VIEW	GBR REAR LEG SET	-2.067	4.3537	
BSW UDDER DEPTH	GBR UDDER DEPTH	-1.689	3.0549	
BSW MEDIAN SUSPENSORY	GBR MEDIAN SUSPENSORY	-0.618	2.3256	
BSW FORE ATTACHMENT	GBR FORE UDDER	-3.066	4.2270	
BSW TEAT PLACEMENT	GBR FRONT TEAT PLACEMENT	-0.455	5.0584	
BSW TEAT LENGTH	GBR TEAT LENGTH	0.214	3.9594	
BSW REAR ATTACHMENT HEIGHT	GBR REAR UDDER HEIGHT	-1.037	3.1221	
BSW ANGULARITY	GBR ANGULARITY	-1.970	10.0493	

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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	-79.649	0.7304	0.59
BSW DAIRY STRENGTH	ITA OVERALL FRAME	-36.860	0.3302	
BSW RUMP	ITA OVERALL RUMP	-40.293	0.3869	
BSW FEET AND LEGS	ITA OVERALL FEET & LEG	-32.570	0.2923	
BSW MAMMARY SYSTEM	ITA OVERALL UDDER SCORE	-75.337	0.6912	
BSW STATURE	ITA STATURE	-48.482	0.4402	
BSW THURL PLACEMENT	ITA THURL PLACEMENT	-20.912	0.2205	
BSW CHEST WIDTH	ITA STRENGTH	-30.191	0.2915	
BSW BODY DEPTH	ITA BODY DEPTH	-32.109	0.3053	
BSW LOIN STRENGTH	ITA TOP LINE	-28.433	0.2809	
BSW PIN WIDTH	ITA RUMP WIDTH	-32.975	0.3208	
BSW RUMP ANGLE	ITA RUMP ANGLE	-26.526	0.2767	
BSW BONE QUALITY	ITA HOCK QUALITY	-35.636	0.3252	
BSW FOOT ANGLE	ITA FOOT ANGLE	-35.160	0.3166	
BSW HEEL DEPTH	ITA HEEL DEPTH	-34.173	0.3151	

BSW REAR LEGS SIDE VIEW	ITA REAR LEG SET	-30.414	0.2986
BSW UDDER DEPTH	ITA UDDER DEPTH	-35.601	0.3214
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-39.195	0.3653
BSW FORE ATTACHMENT	ITA FORE UDDER	-34.276	0.3007
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-33.075	0.2983
BSW TEAT LENGTH	ITA TEAT LENGTH	-33.282	0.3416
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-48.750	0.4364
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-54.155	0.5003
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-33.157	0.3134

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-139.881	1.4581	0.52		
BSW FEET AND LEGS	NLD OVERALL FEET & LEG	-125.338	1.1746			
BSW MAMMARY SYSTEM	NLD OVERALL UDDER SCORE	-128.368	1.4106			
BSW STATURE	NLD STATURE	-133.540	1.3708			
BSW CHEST WIDTH	NLD CHEST WIDTH	-146.669	1.4832			
BSW BODY DEPTH	NLD BODY DEPTH	-117.304	1.2479			
BSW PIN WIDTH	NLD RUMP WIDTH	-142.840	1.6333			
BSW RUMP ANGLE	NLD RUMP ANGLE	-141.927	1.4075			
BSW FOOT ANGLE	NLD FOOT ANGLE	-137.988	1.2162			
BSW HEEL DEPTH	NLD HEEL DEPTH	-135.282	1.1884			
BSW REAR LEGS SIDE VIEW	NLD REAR LEG SET	-127.848	1.3334			
BSW UDDER DEPTH	NLD UDDER DEPTH	-139.798	1.4863			
BSW MEDIAN SUSPENSORY	NLD MEDIAN SUSPENSORY	-144.130	1.5359			
BSW FORE ATTACHMENT	NLD FORE UDDER	-118.530	1.2497			
BSW TEAT PLACEMENT	NLD FRONT TEAT PLACEMENT	-139.776	1.4028			
BSW TEAT LENGTH	NLD TEAT LENGTH	-124.393	1.2154			
BSW REAR ATTACHMENT HEIGHT	NLD REAR UDDER HEIGHT	-118.025	1.3347			
BSW REAR ATTACHMENT WIDTH	NLD REAR UDDER WIDTH	-122.894	1.3947			
BSW REAR TEAT PLACEMENT	NLD REAR TEAT PLACEMENT	-135.624	1.4085			
BSW ANGULARITY	NLD ANGULARITY	-165.829	1.8194			

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Conversion Factors For Type. Source = INTERBULL MACE 2408
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	-38.750	0.2627	0.35
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-32.906	0.2472	
BSW RUMP	SVN OVERALL RUMP	-27.184	0.2329	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-29.685	0.2337	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-44.768	0.3225	
BSW STATURE	SVN STATURE	-45.433	0.3564	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-15.579	0.1587	
BSW CHEST WIDTH	SVN CHEST WIDTH	-29.918	0.2935	
BSW BODY DEPTH	SVN BODY DEPTH	-26.697	0.2372	
BSW LOIN STRENGTH	SVN TOP LINE	-28.255	0.2674	
BSW PIN WIDTH	SVN RUMP WIDTH	-28.678	0.2528	
BSW RUMP ANGLE	SVN RUMP ANGLE	-25.478	0.2776	
BSW BONE QUALITY	SVN HOCK QUALITY	-37.160	0.3106	
BSW FOOT ANGLE	SVN FOOT ANGLE	-31.079	0.2700	
BSW HEEL DEPTH	SVN HEEL DEPTH	-23.401	0.2054	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-30.576	0.3043	
BSW UDDER DEPTH	SVN UDDER DEPTH	-33.174	0.2697	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-36.660	0.3031	
BSW FORE ATTACHMENT	SVN FORE UDDER	-31.494	0.2341	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-47.175	0.3775	
BSW TEAT LENGTH	SVN TEAT LENGTH	-26.467	0.3121	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-36.102	0.2760	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-43.288	0.3429	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-41.932	0.3471	

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 Conversion Factors For Type. Source = INTERBULL MACE 2408
 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)	0.080	13.1137	0.62
BSW DAIRY STRENGTH	USA OVERALL FRAME	-0.510	3.3877	
BSW RUMP	USA OVERALL RUMP	-0.177	7.1354	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	1.402	5.9269	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.112	9.4251	
BSW STATURE	USA STATURE	-0.208	3.7536	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-1.934	4.8466	
BSW CHEST WIDTH	USA STRENGTH	-0.109	7.9838	
BSW BODY DEPTH	USA BODY DEPTH	0.296	6.3333	
BSW PIN WIDTH	USA RUMP WIDTH	-0.029	6.4967	

BSW RUMP ANGLE	USA RUMP ANGLE	-1.534	5.0017
BSW FOOT ANGLE	USA FOOT ANGLE	0.318	8.5447
BSW HEEL DEPTH	USA HEEL DEPTH	-0.203	8.2294
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	-0.451	9.5310
BSW UDDER DEPTH	USA UDDER DEPTH	0.248	5.3132
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.177	6.4482
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	-0.103	5.2325
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	-0.523	5.0934
BSW TEAT LENGTH	USA TEAT LENGTH	1.235	3.6994
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	-0.335	6.2249
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	-0.164	7.7390
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.229	4.5047
BSW ANGULARITY	USA ANGULARITY	0.451	6.9419

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2024

BREED	BMILK	BFAT	BPRT
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AYS	8168	340	281
BSW	8791	374	314
CN	5568	240	201
GUE	7268	337	256
JER	7180	370	281
HOL	11058	443	366
MS	7222	291	248

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(443+50*0.5) / (11058+1000*0.5) - (443/11058)] \\
 &= 200 * [(443+25) / (11058+500) - (0.04006)] \\
 &= 200 * [0.04049 - 0.04006] \\
 &= 200 * 0.00043 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(366+40*0.5) / (11058+1000*0.5) - (366/11058)] \\
 &= 200 * [(366+20) / (11058+500) - (0.03310)] \\
 &= 200 * [0.03340 - 0.03310] \\
 &= 200 * 0.00030 \\
 &= 0.06
 \end{aligned}$$