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 Conversion Factors For Production Traits. Source: INTERBULL 2104
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
BSW	AUS	-81.12	1.2369	-4.105	1.3260	-2.387	1.3760	0.4900
BSW	CHE	-131.40	1.1610	-5.200	1.1540	-1.900	1.1750	0.7056
BSW	DEA	224.70	1.2930	13.400	1.4310	11.700	1.4090	0.6889
BSW	FRA	99.90	0.9410	4.500	0.9480	7.000	0.9940	0.7056
BSW	GBR	-20.15	2.0494	-0.178	2.3123	1.334	2.4831	0.7056
BSW	ITA	-408.50	0.9770	-11.300	1.0990	-10.100	0.9520	0.7225
BSW	NLD	1252.44	0.8728	43.911	0.9135	42.003	0.9177	0.7225
BSW	NZL	139.13	1.1732	26.444	1.1173	9.852	1.0594	0.3249
BSW	SVN	-7578.00	66.3270	-296.100	2.5930	-258.400	2.2640	0.5776
BSW	USA	22.40	0.9830	0.800	1.1180	-0.200	1.1840	0.7921

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 Conversion Factors For SCS Traits. Source: INTERBULL 2104
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
BSW	CHE	43.300	0.5700	0.8281
BSW	DEA	51.200	0.4960	0.8281
BSW	FRA	100.600	5.8680	0.8464
BSW	GBR	100.612	-0.4972	0.8464
BSW	ITA	61.300	0.3710	0.7921
BSW	NLD	-44.580	1.4616	0.8100
BSW	NZL	94.572	-15.5676	0.6241
BSW	SVN	40.300	0.5720	0.7396
BSW	USA	186.400	-29.1270	0.8281

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 Conversion Factors For Type. Source = INTERBULL MACE 2104
 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		-72.214	0.7177	0.72
BSW DAIRY STRENGTH		CHE OVERALL FRAME		-46.053	0.4474	

BSW RUMP	CHE OVERALL RUMP	-26.150	0.2697
BSW FEET AND LEGS	CHE OVERALL FEET & LEG	-61.158	0.6182
BSW MAMMARY SYSTEM	CHE OVERALL UDDER SCORE	-54.335	0.5448
BSW STATURE	CHE STATURE	-49.854	0.4830
BSW THURL PLACEMENT	CHE THURL PLACEMENT	-55.960	0.5633
BSW CHEST WIDTH	CHE CHEST WIDTH	-72.753	0.7510
BSW BODY DEPTH	CHE BODY DEPTH	-54.846	0.5385
BSW LOIN STRENGTH	CHE TOP LINE	-46.033	0.4916
BSW PIN WIDTH	CHE RUMP WIDTH	-51.109	0.5349
BSW RUMP ANGLE	CHE RUMP ANGLE	-58.181	0.5859
BSW BONE QUALITY	CHE HOCK QUALITY	-64.738	0.6234
BSW FOOT ANGLE	CHE FOOT ANGLE	-39.905	0.3894
BSW HEEL DEPTH	CHE HEEL DEPTH	-58.721	0.5964
BSW REAR LEGS SIDE VIEW	CHE REAR LEG SET	-54.761	0.5543
BSW UDDER DEPTH	CHE UDDER DEPTH	-50.927	0.5144
BSW MEDIAN SUSPENSORY	CHE MEDIAN SUSPENSORY	-66.965	0.6515
BSW FORE ATTACHMENT	CHE FORE UDDER	-52.833	0.5236
BSW FRONT TEAT PLACEMENT	CHE FRONT TEAT PLACEMENT	-53.158	0.5254
BSW TEAT LENGTH	CHE TEAT LENGTH	-41.691	0.3950
BSW REAR ATTACHMENT HEIGHT	CHE REAR UDDER HEIGHT	-59.544	0.5921
BSW REAR ATTACHMENT WIDTH	CHE REAR UDDER WIDTH	-65.757	0.6567
BSW REAR TEAT PLACEMENT	CHE REAR TEAT PLACEMENT	-45.232	0.4543
BSW ANGULARITY	CHE ANGULARITY	58.935	-0.6505

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	u
e	i	y	i		e	e
d	t	2	t			2
BSW CONFORMATION	DEA CONFORMATION	-62.975	0.5757	0.67		
BSW DAIRY STRENGTH	DEA OVERALL FRAME	-56.049	0.5117			
BSW RUMP	DEA OVERALL RUMP	-41.196	0.3983			
BSW FEET AND LEGS	DEA OVERALL FEET & LEG	-45.911	0.4299			
BSW MAMMARY SYSTEM	DEA OVERALL UDDER SCORE	-60.894	0.5595			
BSW STATURE	DEA STATURE	-58.044	0.5390			
BSW THURL PLACEMENT	DEA THURL PLACEMENT	-43.142	0.4492			
BSW CHEST WIDTH	DEA CHEST WIDTH	-62.488	0.6157			
BSW BODY DEPTH	DEA BODY DEPTH	-51.150	0.4887			
BSW LOIN STRENGTH	DEA TOP LINE	-52.569	0.5178			
BSW PIN WIDTH	DEA RUMP WIDTH	-49.683	0.4871			
BSW RUMP ANGLE	DEA RUMP ANGLE	-55.050	0.5598			
BSW BONE QUALITY	DEA HOCK QUALITY	-55.659	0.5314			
BSW FOOT ANGLE	DEA FOOT ANGLE	-48.093	0.4561			
BSW HEEL DEPTH	DEA HEEL DEPTH	-55.478	0.5323			
BSW REAR LEGS SIDE VIEW	DEA REAR LEG SET	-59.187	0.5818			
BSW UDDER DEPTH	DEA UDDER DEPTH	-52.001	0.4965			
BSW MEDIAN SUSPENSORY	DEA MEDIAN SUSPENSORY	-72.502	0.6924			

BSW FORE ATTACHMENT	DEA FORE UDDER	-55.664	0.5332
BSW FRONT TEAT PLACEMENT	DEA FRONT TEAT PLACEMENT	-68.180	0.6461
BSW TEAT LENGTH	DEA TEAT LENGTH	-51.826	0.5259
BSW REAR ATTACHMENT HEIGHT	DEA REAR UDDER HEIGHT	-52.696	0.4830
BSW REAR ATTACHMENT WIDTH	DEA REAR UDDER WIDTH	-62.981	0.5896
BSW REAR TEAT PLACEMENT	DEA REAR TEAT PLACEMENT	-56.510	0.5362

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	-2.688	6.2037	0.61		
BSW DAIRY STRENGTH	FRA OVERALL FRAME	-2.742	6.2216			
BSW RUMP	FRA OVERALL RUMP	-0.052	5.5788			
BSW FEET AND LEGS	FRA OVERALL FEET & LEG	-1.317	3.8499			
BSW MAMMARY SYSTEM	FRA OVERALL UDDER SCORE	-2.383	7.5551			
BSW STATURE	FRA STATURE	-2.098	6.6355			
BSW THURL PLACEMENT	FRA THURL PLACEMENT	1.683	6.3906			
BSW CHEST WIDTH	FRA CHEST DEPTH	0.097	7.4348			
BSW BODY DEPTH	FRA BODY DEPTH	-1.660	5.3735			
BSW LOIN STRENGTH	FRA TOP LINE	-0.180	4.9525			
BSW PIN WIDTH	FRA RUMP WIDTH	0.504	6.8703			
BSW RUMP ANGLE	FRA RUMP ANGLE	1.992	7.0266			
BSW BONE QUALITY	FRA HOCK QUALITY	-2.439	6.4632			
BSW FOOT ANGLE	FRA HEEL DEPTH	-0.191	5.9383			
BSW HEEL DEPTH	FRA HEEL DEPTH	0.118	5.9753			
BSW REAR LEGS SIDE VIEW	FRA REAR LEG SET	-1.611	6.8875			
BSW UDDER DEPTH	FRA UDDER DEPTH	-0.931	6.1618			
BSW MEDIAN SUSPENSORY	FRA MEDIAN SUSPENSORY	-0.765	7.7698			
BSW FORE ATTACHMENT	FRA FORE UDDER	-1.472	7.1694			
BSW FRONT TEAT PLACEMENT	FRA FRONT TEAT PLACEMENT	-2.481	7.6853			
BSW TEAT LENGTH	FRA TEAT LENGTH	0.662	6.3640			
BSW REAR ATTACHMENT HEIGHT	FRA REAR UDDER HEIGHT	-2.207	6.4619			
BSW REAR ATTACHMENT WIDTH	FRA REAR UDDER WIDTH	-1.833	7.8773			
BSW REAR TEAT PLACEMENT	FRA REAR TEAT PLACEMENT	-0.529	6.8004			
BSW ANGULARITY	FRA ANGULARITY	-4.419	8.4983			

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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		-1.697	3.8362	
BSW MAMMARY SYSTEM		GBR OVERALL UDDER SCORE		-3.390	4.6268	
BSW STATURE		GBR STATURE		-1.704	8.8779	
BSW CHEST WIDTH		GBR CHEST WIDTH		-0.544	4.9259	
BSW BODY DEPTH		GBR BODY DEPTH		-0.548	3.6621	
BSW PIN WIDTH		GBR RUMP WIDTH		-0.569	4.7137	
BSW RUMP ANGLE		GBR RUMP ANGLE		1.039	3.4410	
BSW FOOT ANGLE		GBR FOOT ANGLE		-0.577	5.9268	
BSW REAR LEGS SIDE VIEW		GBR REAR LEG SET		-2.639	5.2806	
BSW UDDER DEPTH		GBR UDDER DEPTH		-1.120	3.3191	
BSW MEDIAN SUSPENSORY		GBR MEDIAN SUSPENSORY		-1.127	2.1734	
BSW FORE ATTACHMENT		GBR FORE UDDER		-3.757	4.8807	
BSW TEAT PLACEMENT		GBR FRONT TEAT PLACEMENT		-0.966	5.4451	
BSW TEAT LENGTH		GBR TEAT LENGTH		0.519	4.6899	
BSW REAR ATTACHMENT HEIGHT		GBR REAR UDDER HEIGHT		-1.365	3.4871	
BSW ANGULARITY		GBR ANGULARITY		-3.167	10.4427	

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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		-78.823	0.7174	0.66
BSW DAIRY STRENGTH		ITA OVERALL FRAME		-36.578	0.3252	
BSW RUMP		ITA OVERALL RUMP		-37.840	0.3571	
BSW FEET AND LEGS		ITA OVERALL FEET & LEG		-35.651	0.3136	
BSW MAMMARY SYSTEM		ITA OVERALL UDDER SCORE		-76.336	0.6926	
BSW STATURE		ITA STATURE		-47.216	0.4246	
BSW THURL PLACEMENT		ITA THURL PLACEMENT		-21.378	0.2255	
BSW CHEST WIDTH		ITA STRENGTH		-30.355	0.2957	
BSW BODY DEPTH		ITA BODY DEPTH		-30.029	0.2870	
BSW LOIN STRENGTH		ITA TOP LINE		-25.864	0.2538	
BSW PIN WIDTH		ITA RUMP WIDTH		-31.586	0.3025	
BSW RUMP ANGLE		ITA RUMP ANGLE		-27.382	0.2809	
BSW BONE QUALITY		ITA HOCK QUALITY		-37.214	0.3274	
BSW FOOT ANGLE		ITA FOOT ANGLE		-32.783	0.2885	
BSW HEEL DEPTH		ITA HEEL DEPTH		-33.603	0.3066	
BSW REAR LEGS SIDE VIEW		ITA REAR LEG SET		-30.588	0.2967	

BSW UDDER DEPTH	ITA UDDER DEPTH	-32.750	0.2945
BSW MEDIAN SUSPENSORY	ITA MEDIAN SUSPENSORY	-42.746	0.3923
BSW FORE ATTACHMENT	ITA FORE UDDER	-33.542	0.2974
BSW TEAT PLACEMENT	ITA FRONT TEAT PLACEMENT	-33.772	0.2931
BSW TEAT LENGTH	ITA TEAT LENGTH	-32.092	0.3250
BSW REAR ATTACHMENT HEIGHT	ITA REAR UDDER HEIGHT	-49.526	0.4400
BSW REAR ATTACHMENT WIDTH	ITA REAR UDDER WIDTH	-54.953	0.4978
BSW REAR TEAT PLACEMENT	ITA REAR TEAT PLACEMENT	-32.698	0.2998

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	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		-163.431	1.6415	0.55
BSW FEET AND LEGS		NLD OVERALL FEET & LEG		-144.853	1.3221	
BSW MAMMARY SYSTEM		NLD OVERALL UDDER SCORE		-151.532	1.6152	
BSW STATURE		NLD STATURE		-141.214	1.4280	
BSW CHEST WIDTH		NLD CHEST WIDTH		-162.302	1.6193	
BSW BODY DEPTH		NLD BODY DEPTH		-122.887	1.2909	
BSW PIN WIDTH		NLD RUMP WIDTH		-142.329	1.6037	
BSW RUMP ANGLE		NLD RUMP ANGLE		-145.385	1.4376	
BSW FOOT ANGLE		NLD FOOT ANGLE		-142.892	1.2427	
BSW HEEL DEPTH		NLD HEEL DEPTH		-144.307	1.2598	
BSW REAR LEGS SIDE VIEW		NLD REAR LEG SET		-126.038	1.3197	
BSW UDDER DEPTH		NLD UDDER DEPTH		-148.446	1.5460	
BSW MEDIAN SUSPENSORY		NLD MEDIAN SUSPENSORY		-159.513	1.6859	
BSW FORE ATTACHMENT		NLD FORE UDDER		-133.787	1.3808	
BSW TEAT PLACEMENT		NLD FRONT TEAT PLACEMENT		-142.040	1.4099	
BSW TEAT LENGTH		NLD TEAT LENGTH		-121.068	1.1752	
BSW REAR ATTACHMENT HEIGHT		NLD REAR UDDER HEIGHT		-123.518	1.3669	
BSW REAR ATTACHMENT WIDTH		NLD REAR UDDER WIDTH		-122.813	1.3609	
BSW REAR TEAT PLACEMENT		NLD REAR TEAT PLACEMENT		-134.523	1.3967	
BSW ANGULARITY		NLD ANGULARITY		-166.583	1.7739	

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Conversion Factors For Type. Source = INTERBULL MACE 2104
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	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	-38.540	0.2541	0.49
BSW DAIRY STRENGTH	SVN OVERALL FRAME	-34.138	0.2470	
BSW RUMP	SVN OVERALL RUMP	-25.576	0.2131	
BSW FEET AND LEGS	SVN OVERALL FEET & LEG	-29.145	0.2288	
BSW MAMMARY SYSTEM	SVN OVERALL UDDER SCORE	-44.648	0.3161	
BSW STATURE	SVN STATURE	-47.613	0.3662	
BSW THURL PLACEMENT	SVN THURL PLACEMENT	-17.063	0.1719	
BSW CHEST WIDTH	SVN CHEST WIDTH	-32.073	0.3208	
BSW BODY DEPTH	SVN BODY DEPTH	-23.671	0.2055	
BSW LOIN STRENGTH	SVN TOP LINE	-26.279	0.2534	
BSW PIN WIDTH	SVN RUMP WIDTH	-27.553	0.2372	
BSW RUMP ANGLE	SVN RUMP ANGLE	-27.262	0.2919	
BSW BONE QUALITY	SVN HOCK QUALITY	-37.742	0.3057	
BSW FOOT ANGLE	SVN FOOT ANGLE	-29.789	0.2496	
BSW HEEL DEPTH	SVN HEEL DEPTH	-25.011	0.2149	
BSW REAR LEGS SIDE VIEW	SVN REAR LEG SET	-29.867	0.3029	
BSW UDDER DEPTH	SVN UDDER DEPTH	-34.324	0.2816	
BSW MEDIAN SUSPENSORY	SVN MEDIAN SUSPENSORY	-35.939	0.2830	
BSW FORE ATTACHMENT	SVN FORE UDDER	-33.227	0.2459	
BSW TEAT PLACEMENT	SVN FRONT TEAT PLACEMENT	-49.535	0.3941	
BSW TEAT LENGTH	SVN TEAT LENGTH	-27.609	0.3191	
BSW REAR ATTACHMENT HEIGHT	SVN REAR UDDER HEIGHT	-41.912	0.3216	
BSW REAR ATTACHMENT WIDTH	SVN REAR UDDER WIDTH	-48.700	0.3777	
BSW REAR TEAT PLACEMENT	SVN REAR TEAT PLACEMENT	-44.024	0.3616	

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 Conversion Factors For Type. Source = INTERBULL MACE 2104
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

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

BSW CONFORMATION	USA PTA TYPE (FINAL SCORE)	1.736	12.5801	0.72
BSW DAIRY STRENGTH	USA OVERALL FRAME	0.461	3.4077	
BSW RUMP	USA OVERALL RUMP	0.109	6.3283	
BSW FEET AND LEGS	USA OVERALL FEET & LEG	0.198	5.4796	
BSW MAMMARY SYSTEM	USA OVERALL UDDER SCORE	0.676	6.8467	
BSW STATURE	USA STATURE	0.691	3.7386	
BSW THURL PLACEMENT	USA THURL PLACEMENT	-2.058	5.1772	
BSW CHEST WIDTH	USA STRENGTH	0.853	8.2517	
BSW BODY DEPTH	USA BODY DEPTH	1.173	6.2043	
BSW PIN WIDTH	USA RUMP WIDTH	0.701	6.6696	
BSW RUMP ANGLE	USA RUMP ANGLE	-1.567	4.9795	

BSW FOOT ANGLE	USA FOOT ANGLE	0.977	8.4213
BSW HEEL DEPTH	USA HEEL DEPTH	0.651	8.3392
BSW REAR LEGS SIDE VIEW	USA REAR LEG SET	0.030	9.3969
BSW UDDER DEPTH	USA UDDER DEPTH	0.698	5.1330
BSW MEDIAN SUSPENSORY	USA UDDER CLEFT	1.272	6.3130
BSW FORE ATTACHMENT	USA FORE UDDER ATTACHMENT	1.097	5.2616
BSW FRONT TEAT PLACEMENT	USA FRONT TEAT PLACEMENT	0.057	4.9708
BSW TEAT LENGTH	USA TEAT LENGTH	0.491	3.4341
BSW REAR ATTACHMENT HEIGHT	USA REAR UDDER HEIGHT	0.225	5.5117
BSW REAR ATTACHMENT WIDTH	USA REAR UDDER WIDTH	0.780	7.4552
BSW REAR TEAT PLACEMENT	USA REAR TEAT PLACEMENT	0.776	4.4693
BSW ANGULARITY	USA ANGULARITY	0.663	6.7932

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2021

BREED	BMILK	BFAT	BPRT
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AYS	7937	332	272
BSW	8455	361	303
CN	5698	249	206
GUE	7048	329	249
JER	6989	360	271
HOL	10718	424	350
MS	6898	276	229

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

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

EXAMPLE:

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(424+50*0.5) / (10718+1000*0.5) - (424/11E3)] \\
 &= 200 * [(424+25) / (10718+500) - (0.03956)] \\
 &= 200 * [0.04002 - 0.03956] \\
 &= 200 * 0.00047 \\
 &= 0.09
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(350+40*0.5) / (10718+1000*0.5) - (350/11E3)] \\
 &= 200 * [(350+20) / (10718+500) - (0.03266)] \\
 &= 200 * [0.03298 - 0.03266] \\
 &= 200 * 0.00033 \\
 &= 0.07
 \end{aligned}$$