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 Conversion Factors For Production Traits. Source: INTERBULL 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

breed	country2	amilk	bmilk	afat	bfat	aprot	bprot	pcorr2
AYS	AUS	348.30	1.2050	24.200	1.3210	18.800	1.2940	0.4761
AYS	CAM	-491.86	1.2064	-29.867	0.8723	-17.055	1.5134	0.7921
AYS	DEU	468.60	0.8840	36.500	0.8270	24.900	0.8530	0.7744
AYS	DFS	-4386.40	53.7230	-153.300	1.9960	-113.200	1.5700	0.7921
AYS	EST	438.20	1.1370	20.500	1.1390	20.300	1.0840	0.6724
AYS	GBR	-363.80	2.2180	-15.100	2.4190	-9.300	2.4470	0.6889
AYS	IRL	820.67	3.0887	28.986	2.4304	30.582	2.4940	0.5625
AYS	LTU	-486.50	1.5340	-5.900	1.3110	-7.300	1.6500	0.6889
AYS	LVA	211.90	1.8210	17.200	1.6790	13.100	1.9700	0.6724
AYS	NLD	1426.01	0.7444	52.064	0.7048	49.534	0.6128	0.7744
AYS	NOR	-3463.40	41.7410	-131.300	1.6210	-93.100	1.2660	0.7744
AYS	NZL	-3.30	1.6520	29.600	1.4750	17.100	1.8000	0.4761
AYS	USA	-207.70	0.8700	-13.600	0.8980	-8.600	0.8840	0.7921
AYS	ZAF	-15.04	0.8799	-2.850	0.9335	0.600	0.8956	0.6561

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 Conversion Factors For SCS Traits. Source: INTERBULL 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

breed	country2	a	b	scorr2
AYS	AUS	3.800	-0.0070	0.7921
AYS	CAM	-0.820	1.3079	0.8836
AYS	DEU	4.700	-0.0160	0.8649
AYS	DFS	4.700	-0.0170	0.8836
AYS	EST	4.800	-0.0170	0.7921
AYS	GBR	3.000	0.0190	0.8649
AYS	LTU	3.100	0.6000	0.8100
AYS	LVA	3.100	0.4910	0.8100
AYS	NLD	-2.746	0.0568	0.8281
AYS	NOR	4.600	-0.0160	0.8464
AYS	NZL	3.200	0.5260	0.7569
AYS	USA	0.100	0.9550	0.8649
AYS	ZAF	3.021	0.0087	0.7921

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 Conversion Factors For Type. Source = INTERBULL MACE 1712
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

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
AYS	CONFORMATION	AUS	CONFORMATION	-73.968	0.6822	0.35
AYS	FEET AND LEGS	AUS	OVERALL FEET & LEG	-39.299	0.3408	
AYS	MAMMARY SYSTEM	AUS	OVERALL UDDER SCORE	-69.104	0.6378	
AYS	STATURE	AUS	STATURE	-85.723	0.8184	
AYS	CHEST WIDTH	AUS	CHEST WIDTH	-73.573	0.7512	
AYS	BODY DEPTH	AUS	BODY DEPTH	-74.489	0.7285	
AYS	PIN WIDTH	AUS	RUMP WIDTH	-87.365	0.8573	
AYS	RUMP ANGLE	AUS	RUMP ANGLE	-73.839	0.7241	
AYS	FOOT ANGLE	AUS	FOOT ANGLE	-60.147	0.5926	
AYS	REAR LEGS SIDE VIEW	AUS	REAR LEG SET	-59.004	0.6321	
AYS	REAR LEG REAR VIEW	AUS	REAR LEG REAR VIEW	-59.066	0.5615	
AYS	UDDER DEPTH	AUS	UDDER DEPTH	-63.512	0.5900	
AYS	MEDIAN SUSPENSORY	AUS	MEDIAN SUSPENSORY	-61.454	0.5859	
AYS	FORE ATTACHMENT	AUS	FORE UDDER	-71.131	0.6644	
AYS	TEAT PLACEMENT	AUS	FRONT TEAT PLACEMENT	-77.888	0.7697	
AYS	TEAT LENGTH	AUS	TEAT LENGTH	-65.617	0.6703	
AYS	REAR ATTACHMENT HEIGHT	AUS	REAR UDDER HEIGHT	-81.883	0.7343	
AYS	REAR TEAT PLACEMENT	AUS	REAR TEAT PLACEMENT	-88.327	0.8540	
AYS	ANGULARITY	AUS	ANGULARITY	-62.272	0.5601	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CAM

b	c	c	f	a	b	t
r	a	o	o	v	v	c
e	n	u	r	a	a	o
e	t	r	a	l	l	r
d	i	y	i	u	u	r
	t	2	t	e	e	2
AYS	CONFORMATION	CAM	CONFORMATION	-8.979	0.7634	0.74
AYS	FEET AND LEGS	CAM	OVERALL FEET & LEG	-5.875	0.6192	
AYS	MAMMARY SYSTEM	CAM	OVERALL UDDER SCORE	-8.860	0.7285	
AYS	STATURE	CAM	STATURE	-4.305	1.0104	
AYS	CHEST WIDTH	CAM	CHEST WIDTH	0.212	0.8580	
AYS	BODY DEPTH	CAM	BODY DEPTH	-2.968	0.9207	
AYS	PIN WIDTH	CAM	RUMP WIDTH	-2.364	0.8864	
AYS	RUMP ANGLE	CAM	RUMP ANGLE	0.681	0.9416	
AYS	FOOT ANGLE	CAM	FOOT ANGLE	-0.852	0.6075	
AYS	REAR LEGS SIDE VIEW	CAM	REAR LEG SET	4.048	0.8124	
AYS	REAR LEG REAR VIEW	CAM	REAR LEG REAR VIEW	-4.094	0.7553	
AYS	UDDER DEPTH	CAM	UDDER DEPTH	-4.772	1.0489	
AYS	MEDIAN SUSPENSORY	CAM	MEDIAN SUSPENSORY	-3.921	0.7170	
AYS	FORE ATTACHMENT	CAM	FORE UDDER	-6.154	0.6943	
AYS	TEAT PLACEMENT	CAM	FRONT TEAT PLACEMENT	-4.108	0.7259	
AYS	TEAT LENGTH	CAM	TEAT LENGTH	1.048	0.6971	

AYS	REAR ATTACHMENT HEIGHT	CAM	REAR UDDER HEIGHT	-10.233	0.8243
AYS	REAR TEAT PLACEMENT	CAM	REAR TEAT PLACEMENT	-4.173	0.9162
AYS	ANGULARITY	CAM	ANGULARITY	-9.245	0.6951

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	
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
AYS	FEET AND LEGS	DEU	OVERALL FEET & LEG	-31.869	0.3106	
AYS	MAMMARY SYSTEM	DEU	OVERALL UDDER SCORE	-34.334	0.3286	
AYS	STATURE	DEU	STATURE	-41.675	0.4331	
AYS	CHEST WIDTH	DEU	CHEST WIDTH	-46.659	0.4765	
AYS	BODY DEPTH	DEU	BODY DEPTH	-49.838	0.5110	
AYS	PIN WIDTH	DEU	RUMP WIDTH	-54.755	0.5705	
AYS	RUMP ANGLE	DEU	RUMP ANGLE	-66.278	0.6249	
AYS	FOOT ANGLE	DEU	FOOT ANGLE	-33.761	0.3673	
AYS	REAR LEGS SIDE VIEW	DEU	REAR LEG SET	-63.150	0.6170	
AYS	REAR LEG REAR VIEW	DEU	REAR LEG REAR VIEW	-56.196	0.5759	
AYS	UDDER DEPTH	DEU	UDDER DEPTH	-44.941	0.4394	
AYS	MEDIAN SUSPENSORY	DEU	MEDIAN SUSPENSORY	-41.251	0.4046	
AYS	FORE ATTACHMENT	DEU	FORE UDDER	-49.821	0.4662	
AYS	FRONT TEAT PLACEMENT	DEU	FRONT TEAT PLACEMENT	-39.484	0.3822	
AYS	TEAT LENGTH	DEU	TEAT LENGTH	-36.189	0.3493	
AYS	REAR ATTACHMENT HEIGHT	DEU	REAR UDDER HEIGHT	-40.672	0.3646	
AYS	REAR TEAT PLACEMENT	DEU	REAR TEAT PLACEMENT	-44.409	0.4112	
AYS	ANGULARITY	DEU	ANGULARITY	-44.504	0.4450	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

	c	c	f			
	a	o	o		b	t
b	n	u	r	a	v	c
r	t	n	t	v	v	
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
AYS	CONFORMATION	DFS	OVERALL CONFORMATION	-50.679	0.4545	0.58

AYS	FEET AND LEGS	DFS	OVERALL FEET & LEG	-40.199	0.3729
AYS	MAMMARY SYSTEM	DFS	OVERALL UDDER SCORE	-45.459	0.4235
AYS	STATURE	DFS	STATURE	-66.455	0.6463
AYS	CHEST WIDTH	DFS	CHEST WIDTH	-43.674	0.4537
AYS	BODY DEPTH	DFS	BODY DEPTH	-46.009	0.4266
AYS	PIN WIDTH	DFS	RUMP WIDTH	-52.301	0.5207
AYS	RUMP ANGLE	DFS	RUMP ANGLE	-54.765	0.5516
AYS	FOOT ANGLE	DFS	FOOT ANGLE	-51.112	0.5223
AYS	REAR LEGS SIDE VIEW	DFS	REAR LEG SET	-63.089	0.6715
AYS	REAR LEG REAR VIEW	DFS	REAR LEG REAR VIEW	-52.794	0.5164
AYS	UDDER DEPTH	DFS	UDDER DEPTH	-48.281	0.4725
AYS	MEDIAN SUSPENSORY	DFS	MEDIAN SUSPENSORY	-36.030	0.3346
AYS	FORE ATTACHMENT	DFS	FORE UDDER	-43.615	0.4168
AYS	FRONT TEAT PLACEMENT	DFS	FRONT TEAT PLACEMENT	-41.080	0.4114
AYS	TEAT LENGTH	DFS	TEAT LENGTH	-44.307	0.4305
AYS	REAR ATTACHMENT HEIGHT	DFS	REAR UDDER HEIGHT	-55.725	0.4955
AYS	REAR TEAT PLACEMENT	DFS	REAR TEAT PLACEMENT	-46.642	0.4486
AYS	ANGULARITY	DFS	ANGULARITY	-64.420	0.5834

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

	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	r
	t	2	t			2
AYS	FEET AND LEGS	GBR	OVERALL FEET & LEG	-3.238	3.1162	
AYS	MAMMARY SYSTEM	GBR	OVERALL UDDER SCORE	-1.409	3.3368	
AYS	STATURE	GBR	STATURE	-2.266	4.6832	
AYS	CHEST WIDTH	GBR	CHEST WIDTH	2.170	3.9561	
AYS	BODY DEPTH	GBR	BODY DEPTH	0.758	3.6172	
AYS	PIN WIDTH	GBR	RUMP WIDTH	-0.649	4.2450	
AYS	RUMP ANGLE	GBR	RUMP ANGLE	-2.202	3.7939	
AYS	FOOT ANGLE	GBR	FOOT ANGLE	-1.097	3.0519	
AYS	REAR LEGS SIDE VIEW	GBR	REAR LEG SET	-0.281	3.6967	
AYS	UDDER DEPTH	GBR	UDDER DEPTH	-0.570	2.8523	
AYS	MEDIAN SUSPENSORY	GBR	MEDIAN SUSPENSORY	-0.947	2.7863	
AYS	FORE ATTACHMENT	GBR	FORE UDDER	0.074	3.1351	
AYS	TEAT PLACEMENT	GBR	FRONT TEAT PLACEMENT	2.223	3.2998	
AYS	TEAT LENGTH	GBR	TEAT LENGTH	-1.020	3.3604	
AYS	REAR ATTACHMENT HEIGHT	GBR	REAR UDDER HEIGHT	-3.338	3.9688	
AYS	ANGULARITY	GBR	ANGULARITY	-5.349	5.0184	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

	c	c	f			
b	n	o	r	a	b	t
r	r	u	r	v	v	c
e	a	r	r	a	a	o
e	i	y	i	l	l	r
d	t	2	t	u	u	r
				e	e	2
AYS	CONFORMATION	NLD	CONFORMATION	-123.078	1.2831	0.61
AYS	FEET AND LEGS	NLD	OVERALL FEET & LEG	-53.503	0.5166	
AYS	MAMMARY SYSTEM	NLD	OVERALL UDDER SCORE	-108.025	1.1352	
AYS	STATURE	NLD	STATURE	-101.625	1.1243	
AYS	CHEST WIDTH	NLD	CHEST WIDTH	-150.647	1.6114	
AYS	BODY DEPTH	NLD	BODY DEPTH	-111.265	1.2224	
AYS	PIN WIDTH	NLD	RUMP WIDTH	-88.216	0.9570	
AYS	RUMP ANGLE	NLD	RUMP ANGLE	-101.078	0.9993	
AYS	FOOT ANGLE	NLD	FOOT ANGLE	-93.516	0.9810	
AYS	REAR LEGS SIDE VIEW	NLD	REAR LEG SET	-113.085	1.1097	
AYS	REAR LEG REAR VIEW	NLD	REAR LEG REAR VIEW	-100.638	1.0105	
AYS	UDDER DEPTH	NLD	UDDER DEPTH	-108.952	1.1258	
AYS	MEDIAN SUSPENSORY	NLD	MEDIAN SUSPENSORY	-93.477	0.9535	
AYS	FORE ATTACHMENT	NLD	FORE UDDER	-120.805	1.2333	
AYS	TEAT PLACEMENT	NLD	FRONT TEAT PLACEMENT	-110.798	1.1496	
AYS	TEAT LENGTH	NLD	TEAT LENGTH	-80.832	0.8235	
AYS	REAR ATTACHMENT HEIGHT	NLD	REAR UDDER HEIGHT	-87.384	0.9174	
AYS	REAR TEAT PLACEMENT	NLD	REAR TEAT PLACEMENT	-111.545	1.1400	
AYS	ANGULARITY	NLD	ANGULARITY	-94.549	1.0338	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NOR

	c	c	f			
b	n	o	r	a	b	t
r	r	u	r	v	v	c
e	a	r	r	a	a	o
e	i	y	i	l	l	r
d	t	2	t	u	u	r
				e	e	2
AYS	CONFORMATION	NOR	OVERALL CONFORMATION	-39.380	0.3185	0.71
AYS	FEET AND LEGS	NOR	OVERALL FEET & LEG	-31.836	0.2509	
AYS	MAMMARY SYSTEM	NOR	OVERALL UDDER SCORE	-43.972	0.3680	
AYS	STATURE	NOR	STATURE	-48.090	0.4115	
AYS	BODY DEPTH	NOR	BODY DEPTH	-36.117	0.3200	
AYS	RUMP ANGLE	NOR	RUMP ANGLE	-42.016	0.4412	
AYS	FOOT ANGLE	NOR	FOOT ANGLE	-30.853	0.2981	
AYS	REAR LEGS SIDE VIEW	NOR	REAR LEG SET	-33.030	0.3741	
AYS	REAR LEG REAR VIEW	NOR	REAR LEG REAR VIEW	-36.124	0.3317	
AYS	UDDER DEPTH	NOR	UDDER DEPTH	-44.411	0.3872	

AYS	MEDIAN SUSPENSORY	NOR	MEDIAN SUSPENSORY	-33.769	0.2791
AYS	FORE ATTACHMENT	NOR	FORE UDDER	-39.820	0.3484
AYS	FRONT TEAT PLACEMENT	NOR	FRONT TEAT PLACEMENT	-36.508	0.3512
AYS	TEAT LENGTH	NOR	TEAT LENGTH	-34.892	0.3374
AYS	REAR ATTACHMENT HEIGHT	NOR	REAR UDDER HEIGHT	-45.893	0.3502
AYS	REAR TEAT PLACEMENT	NOR	REAR TEAT PLACEMENT	-36.221	0.3398

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Conversion Factors For Type. Source = INTERBULL MACE 1712
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

	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
AYS	CONFORMATION	NZL	OVERALL CONFORMATION	-8.712	12.8881	0.37
AYS	MAMMARY SYSTEM	NZL	OVERALL UDDER SCORE	-8.369	12.9352	
AYS	STATURE	NZL	STATURE	-11.549	10.5065	
AYS	CHEST WIDTH	NZL	CHEST WIDTH	0.901	13.3405	
AYS	BODY DEPTH	NZL	BODY DEPTH	-2.364	12.4671	
AYS	PIN WIDTH	NZL	RUMP WIDTH	-4.242	16.8831	
AYS	RUMP ANGLE	NZL	RUMP ANGLE	-5.290	18.6427	
AYS	REAR LEGS SIDE VIEW	NZL	REAR LEG SET	3.996	45.9368	
AYS	MEDIAN SUSPENSORY	NZL	MEDIAN SUSPENSORY	-4.301	12.5366	
AYS	FORE ATTACHMENT	NZL	FORE UDDER	-7.591	14.3423	
AYS	FRONT TEAT PLACEMENT	NZL	FRONT TEAT PLACEMENT	-4.077	17.5073	
AYS	REAR ATTACHMENT HEIGHT	NZL	REAR UDDER HEIGHT	-7.810	14.8387	
AYS	REAR TEAT PLACEMENT	NZL	REAR TEAT PLACEMENT	-5.728	16.6331	

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Conversion Factors For Type. Source = INTERBULL MACE 1712
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
AYS	CONFORMATION	USA	CONFORMATION	-3.056	5.6100	0.69
AYS	FEET AND LEGS	USA	OVERALL FEET & LEG	-2.654	3.7022	
AYS	MAMMARY SYSTEM	USA	OVERALL UDDER SCORE	-1.003	5.1302	

AYS	STATURE	USA	STATURE	-1.257	2.6715
AYS	CHEST WIDTH	USA	CHEST WIDTH	-0.343	5.3087
AYS	BODY DEPTH	USA	BODY DEPTH	-0.984	4.2923
AYS	PIN WIDTH	USA	RUMP WIDTH	-0.271	4.6221
AYS	RUMP ANGLE	USA	RUMP ANGLE	-1.011	5.3098
AYS	FOOT ANGLE	USA	FOOT ANGLE	-0.700	5.8895
AYS	REAR LEGS SIDE VIEW	USA	REAR LEG SET	0.882	7.8307
AYS	REAR LEG REAR VIEW	USA	REAR LEG REAR VIEW	-3.882	6.3693
AYS	UDDER DEPTH	USA	UDDER DEPTH	-0.402	4.7654
AYS	MEDIAN SUSPENSORY	USA	MEDIAN SUSPENSORY	-2.406	4.4740
AYS	FORE ATTACHMENT	USA	FORE UDDER	-1.200	4.6475
AYS	TEAT PLACEMENT	USA	FRONT TEAT PLACEMENT	0.058	3.9541
AYS	TEAT LENGTH	USA	TEAT LENGTH	-0.373	4.1055
AYS	REAR ATTACHMENT HEIGHT	USA	REAR UDDER HEIGHT	-1.572	4.3211
AYS	REAR TEAT PLACEMENT	USA	REAR TEAT PLACEMENT	-0.151	4.6774
AYS	ANGULARITY	USA	ANGULARITY	-1.781	5.4926

CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2017

BREED	BMILK	BFAT	BPRT
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AYS	7672	318	259
BSW	8298	351	293
CN	5624	246	202
GUE	6778	314	234
JER	6549	329	251
HOL	10093	391	324
MS	6673	258	221

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

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

EXAMPLE:

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

$$EBVFAT\% = 200 * [(391+50*.5) / (10093+1000*.5) - (391 / 1E4)]$$

$$= 200 * [(391+25) / (10093+500) - (0.03874)]$$

$$= 200 * [0.03927 - 0.03874]$$

$$= 200 * 0.00053$$

$$= 0.11$$

$$EBVPROT\% = 200 * [(324+40*.5) / (10093+1000*.5) - (324 / 1E4)]$$

$$= 200 * [(324+20) / (10093+500) - (0.03210)]$$

$$= 200 * [0.03247 - 0.03210]$$

$$= 200 * 0.00037$$

$$= 0.07$$