

# Montbeliarde Fitness conversions

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## When to use these formulas

These conversions should only be used for converting cow evaluations and bulls which do not have an Interbull evaluation. Please check with AHDB Dairy if in doubt.

The formulae provide a guide only to the expected evaluations of the relevant bull or cow in the UK.

## How to convert a foreign proof using figures in the table below

$$\text{Approximate UK PTA} = a + (b * \text{Foreign proof})$$

## How to adjust the converted reliability

To take into account the loss of accuracy when converting a foreign proof into a UK equivalent, Interbull guidelines recommend that the foreign reliabilities should be adjusted by the squared correlations between the foreign and UK genetic evaluations.

## Somatic Cell Count (SCC)

The foreign SCC reliability must therefore be multiplied by 0.90 (i.e. **UK reliability = 0.90 \* Foreign reliability**)

	<b>a</b>		<b>b</b>	
GBR =	84.26	+	-0.898	* CHE
GBR =	79.2	+	-0.836	* DEA
GBR =	-1.94	+	-9.393	* FRM
GBR =	97.22	+	-0.951	* HRV
GBR =	-60	+	0.591	* HUN
GBR =	70.27	+	-0.758	* ITA
GBR =	253.03	+	-2.599	* NLD
GBR =	101.61	+	-1.015	* SVN
GBR =	-153.73	+	49.803	* USA

## Mastitis

The foreign Mastitis reliability must therefore be multiplied by 0.75 (i.e. **UK reliability = 0.75 \* Foreign reliability**)

	<b>a</b>		<b>b</b>	
GBR =	22.53	+	-0.225	* CHE
GBR =	15.63	+	-0.157	* DEA
GBR =	0.77	+	-1.765	* FRM
GBR =	21.19	+	-0.2	* HRV
GBR =	-12.03	+	0.127	* HUN
GBR =	14.34	+	-0.146	* ITA
GBR =	49.28	+	-0.484	* NLD
GBR =	22.08	+	-0.212	* SVN
GBR =	-31.38	+	10.39	* USA

## Lifespan (LS)

The foreign LS reliability must therefore be multiplied by 0.70 (i.e. **UK reliability = 0.70 \* Foreign reliability**)

	<b>a</b>		<b>b</b>		
GBR =	( 0.08	+	0.221	* FRM	) * 305
GBR =	( 0.26	+	0	* NLD	) * 305
GBR =	( -0.86	+	0.009	* SVN	) * 305
GBR =	( -0.04	+	0.103	* USA	) * 305