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Fleckvieh Production 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

Approximate UK PTA = a + (b * 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.

When converting the foreign production proofs to UK equivalents, the foreign production reliability must therefore be multiplied by 0.8 (i.e. **UK reliability = 0.8 * Foreign reliability**)

				а		b		
SIM	milk	GBR	=	-536.19	+	0.395	*	CHE
SIM	fat	GBR	=	-16.36	+	0.337	*	CHE
SIM	pro	GBR	=	-14.96	+	0.415	*	CHE
SIM	milk	GBR	=	37.27	+	0.377	*	DEA
SIM	fat	GBR	=	1.63	+	0.352	*	DEA
SIM	pro	GBR	=	1.84	+	0.373	*	DEA
SIM	milk	GBR	=	-108.64	+	0.266	*	FRA
SIM	fat	GBR	=	-2.4	+	0.231	*	FRA
SIM	pro	GBR	=	-1.72	+	0.246	*	FRA
SIM	milk	GBR	=	-2787.81	+	23.792	*	HRV
SIM	fat	GBR	=	-75.32	+	0.64	*	HRV
SIM	pro	GBR	=	-85.11	+	0.727	*	HRV
SIM	milk	GBR	=	-133.47	+	0.966	*	IRL
SIM	fat	GBR	=	-3.1	+	0.772	*	IRL
SIM	pro	GBR	=	-4.28	+	0.805	*	IRL
SIM	milk	GBR	=	-88.93	+	0.366	*	ITA
SIM	fat	GBR	=	-2.28	+	0.331	*	ITA



```
pro GBR = -2.13 + 0.371 *
SIM
                                     ITA
                         0.254 *
SIM milk GBR =
                 301.27 +
                                     NLD
SIM fat GBR =
                 13.36 +
                            0.233
                                     NLD
                  11.74 +
                            0.248 *
SIM pro GBR =
                                     NLD
SIM milk GBR = -2922.96 + 25.215 *
                                     SVN
SIM fat GBR =
                -90.92 +
                            0.784
                                     SVN
SIM pro GBR =
                 -94.11 +
                             0.81
                                     SVN
                            0.295 *
SIM milk GBR =
                391.54 +
                                     USA
                            0.306 *
                 13.18 +
SIM fat GBR =
                                     USA
                  9.52 +
                             0.317 *
SIM
   pro GBR =
                                     USA
```

Calculating percentage PTAs

Apply the following formula using the converted yield PTAs to obtain estimates for the percentage PTAs.

PTA Fat % = $(PTA \text{ fat } (kg) \times 100) - (PTA \text{ milk } (kg) \times 3.99)$ (PTA milk (kg) + 6765)PTA Prot % = $(PTA \text{ prot } (kg) \times 100) - (PTA \text{ milk } (kg) \times 3.43)$ (PTA milk (kg) + 6765)