Fleckvieh Production conversions

August 2024

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**)

				a		b		
SIM	milk	GBR	=	−561.34	+	0.393	*	CHE
SIM	fat	GBR	=	−17.49	+	0.339	*	CHE
SIM	pro	GBR	=	−16.03	+	0.416	*	CHE
SIM	milk	GBR	=	25.78	+	0.374	*	DEA
SIM	fat	GBR	=	1.09	+	0.349	*	DEA
SIM	pro	GBR	=	1.72	+	0.372	*	DEA
SIM	milk	GBR	=	−157.56	+	0.269	*	FRA
SIM	fat	GBR	=	−3.6	+	0.231	*	FRA
SIM	pro	GBR	=	−2.53	+	0.258	*	FRA
SIM	milk	GBR	=	−2834.64	+	24.24	*	HRV
SIM	fat	GBR	=	−77.44	+	0.659	*	HRV
SIM	pro	GBR	=	−85.07	+	0.729	*	HRV
SIM	milk	GBR	=	−133.63	+	0.976	*	IRL
SIM	fat	GBR	=	−3.15	+	0.783	*	IRL
SIM	pro	GBR	=	−4.22	+	0.828	*	IRL

```
SIM   milk   GBR   =      -99.81   +        0.372   *   ITA
SIM    fat   GBR   =       -2.87   +        0.337   *   ITA
SIM    pro   GBR   =       -2.26   +        0.381   *   ITA

SIM   milk   GBR   =      290.56   +        0.254   *   NLD
SIM    fat   GBR   =       12.51   +        0.235   *   NLD
SIM    pro   GBR   =       11.65   +        0.253   *   NLD

SIM   milk   GBR   =    -2872.29   +       24.588   *   SVN
SIM    fat   GBR   =      -90.12   +         0.77   *   SVN
SIM    pro   GBR   =      -93.43   +          0.8   *   SVN

SIM   milk   GBR   =      212.73   +        0.302   *   USA
SIM    fat   GBR   =        1.17   +        0.324   *   USA
SIM    pro   GBR   =        1.37   +        0.325   *   USA
```

Calculating percentage PTAs

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

PTA Fat % = (PTA fat (kg) x 100) – (PTA milk (kg) x 3.99)

(PTA milk (kg) + 6765)

PTA Prot % = (PTA prot (kg) x 100) – (PTA milk (kg) x 3.43)

(PTA milk (kg) + 6765)