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Jersey 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**)

					a		**b**		
JER	milk	GBR	=	−33.61	+	0.409	*	AUS
JER	fat	GBR	=	−5.87	+	0.509	*	AUS
JER	pro	GBR	=	−1.95	+	0.43	*	AUS
JER	milk	GBR	=	37.08	+	0.329	*	CAN
JER	fat	GBR	=	−1.03	+	0.294	*	CAN
JER	pro	GBR	=	0.26	+	0.332	*	CAN
JER	milk	GBR	=	−11.8	+	0.482	*	CHE
JER	fat	GBR	=	2.24	+	0.385	*	CHE
JER	pro	GBR	=	2.33	+	0.416	*	CHE
JER	milk	GBR	=	44.69	+	0.298	*	DEU
JER	fat	GBR	=	5.83	+	0.322	*	DEU
JER	pro	GBR	=	5.16	+	0.3	*	DEU
JER	milk	GBR	=	−2041.66	+	20.185	*	DFS
JER	fat	GBR	=	−57.11	+	0.671	*	DFS
JER	pro	GBR	=	−52.76	+	0.589	*	DFS

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JER   milk   GBR   =       246.22   +        0.906   *   IRL
JER   fat    GBR   =        -9.49   +        1.106   *   IRL
JER   pro    GBR   =         2.66   +        0.919   *   IRL

JER   milk   GBR   =       -16.71   +        0.323   *   ITA
JER   fat    GBR   =          0.9   +        0.266   *   ITA
JER   pro    GBR   =         1.31   +        0.278   *   ITA

JER   milk   GBR   =       827.44   +        0.298   *   NLD
JER   fat    GBR   =         13.6   +        0.283   *   NLD
JER   pro    GBR   =        22.03   +        0.279   *   NLD

JER   milk   GBR   =       -40.97   +        0.474   *   NZL
JER   fat    GBR   =           -7   +        0.402   *   NZL
JER   pro    GBR   =        -1.24   +         0.43   *   NZL

JER   milk   GBR   =       223.58   +         0.25   *   USA
JER   fat    GBR   =         4.35   +        0.291   *   USA
JER   pro    GBR   =         5.76   +        0.288   *   USA

JER   milk   GBR   =         2.86   +        0.441   *   ZAF
JER   fat    GBR   =        -0.37   +        0.403   *   ZAF
JER   pro    GBR   =         1.18   +        0.429   *   ZAF
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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 5.41)

(PTA milk (kg) + 5793)

PTA Prot % = (PTA prot (kg) x 100) – (PTA milk (kg) x 3.85)

(PTA milk (kg) + 5793)