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Holstein Type 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)

				a		**b**		
HOL	sta	GBR	=	−0.97	+	1.668	*	AUS
HOL	cwi	GBR	=	0.81	+	2.822	*	AUS
HOL	bde	GBR	=	0.6	+	1.714	*	AUS
HOL	ang	GBR	=	−0.2	+	2.385	*	AUS
HOL	ran	GBR	=	0.28	+	1.99	*	AUS
HOL	rwi	GBR	=	−0.37	+	2.097	*	AUS
HOL	rls	GBR	=	0.04	+	3.827	*	AUS
HOL	rlr	GBR	=	−0.73	+	3.859	*	AUS
HOL	fan	GBR	=	−0.31	+	3.745	*	AUS
HOL	fua	GBR	=	−0.98	+	2.626	*	AUS
HOL	ruh	GBR	=	−1.36	+	2.791	*	AUS
HOL	usu	GBR	=	−0.97	+	3.136	*	AUS
HOL	ude	GBR	=	−1.68	+	1.815	*	AUS
HOL	ftp	GBR	=	−0.64	+	1.937	*	AUS
HOL	ftl	GBR	=	0.31	+	1.569	*	AUS
HOL	rtp	GBR	=	−0.61	+	2.861	*	AUS
HOL	ocs	GBR	=	−0.98	+	0.683	*	AUS
HOL	ous	GBR	=	−1.55	+	1.027	*	AUS
HOL	ofl	GBR	=	−0.89	+	1.174	*	AUS
HOL	sta	GBR	=	−0.19	+	0.96	*	BEL
HOL	cwi	GBR	=	0.36	+	0.737	*	BEL
HOL	bde	GBR	=	0.18	+	0.868	*	BEL
HOL	ang	GBR	=	−0.15	+	1.024	*	BEL
HOL	ran	GBR	=	0.37	+	0.931	*	BEL
HOL	rwi	GBR	=	−0.1	+	0.815	*	BEL
HOL	rls	GBR	=	−0.2	+	0.689	*	BEL
HOL	rlr	GBR	=	−0.15	+	0.529	*	BEL
HOL	fan	GBR	=	0.11	+	0.573	*	BEL
HOL	fua	GBR	=	−0.62	+	0.693	*	BEL
HOL	ruh	GBR	=	−0.62	+	0.92	*	BEL
HOL	usu	GBR	=	−0.43	+	0.59	*	BEL
HOL	ude	GBR	=	−0.68	+	0.879	*	BEL
HOL	ftp	GBR	=	−0.6	+	0.838	*	BEL

HOL	ftl	GBR	=	0.28	+	0.906	*	BEL
HOL	rtp	GBR	=	-0.54	+	0.971	*	BEL
HOL	ocs	GBR	=	-0.5	+	0.578	*	BEL
HOL	ous	GBR	=	-0.68	+	0.767	*	BEL
HOL	ofl	GBR	=	-0.09	+	0.672	*	BEL
HOL	loc	GBR	=	-0.12	+	0.557	*	BEL
HOL	bcs	GBR	=	0.57	+	1.25	*	BEL
HOL	sta	GBR	=	0.48	+	0.21	*	CAN
HOL	cwi	GBR	=	0.01	+	0.213	*	CAN
HOL	bde	GBR	=	0.01	+	0.198	*	CAN
HOL	ang	GBR	=	0.43	+	0.197	*	CAN
HOL	ran	GBR	=	-0.05	+	0.224	*	CAN
HOL	rwi	GBR	=	0.23	+	0.216	*	CAN
HOL	rls	GBR	=	-0.18	+	0.197	*	CAN
HOL	rlr	GBR	=	-0.11	+	0.16	*	CAN
HOL	fan	GBR	=	0	+	0.167	*	CAN
HOL	fua	GBR	=	0.44	+	0.227	*	CAN
HOL	ruh	GBR	=	0.58	+	0.168	*	CAN
HOL	usu	GBR	=	0.2	+	0.178	*	CAN
HOL	ude	GBR	=	0.45	+	0.218	*	CAN
HOL	ftp	GBR	=	0.25	+	0.213	*	CAN
HOL	ftl	GBR	=	-0.23	+	0.23	*	CAN
HOL	rtp	GBR	=	0.26	+	0.231	*	CAN
HOL	ocs	GBR	=	0.23	+	0.165	*	CAN
HOL	ous	GBR	=	0.51	+	0.18	*	CAN
HOL	ofl	GBR	=	-0.06	+	0.204	*	CAN
HOL	loc	GBR	=	-0.15	+	0.163	*	CAN
HOL	bcs	GBR	=	-25.46	+	0.253	*	CAN
HOL	sta	GBR	=	-9.76	+	0.097	*	CHE
HOL	cwi	GBR	=	-9.83	+	0.099	*	CHE
HOL	bde	GBR	=	-10.74	+	0.106	*	CHE
HOL	ang	GBR	=	-8.64	+	0.084	*	CHE
HOL	ran	GBR	=	-11.56	+	0.117	*	CHE
HOL	rwi	GBR	=	-10.02	+	0.1	*	CHE
HOL	rls	GBR	=	-9.8	+	0.099	*	CHE
HOL	rlr	GBR	=	-6.65	+	0.064	*	CHE
HOL	fan	GBR	=	-8.5	+	0.084	*	CHE
HOL	fua	GBR	=	-9.82	+	0.097	*	CHE
HOL	ruh	GBR	=	-9.9	+	0.097	*	CHE
HOL	usu	GBR	=	-9.38	+	0.09	*	CHE
HOL	ude	GBR	=	-9.66	+	0.096	*	CHE
HOL	ftp	GBR	=	-10.58	+	0.103	*	CHE
HOL	ftl	GBR	=	-10.96	+	0.108	*	CHE
HOL	rtp	GBR	=	-12.18	+	0.117	*	CHE
HOL	ocs	GBR	=	-8.86	+	0.086	*	CHE
HOL	ous	GBR	=	-10.55	+	0.102	*	CHE
HOL	ofl	GBR	=	-10.13	+	0.1	*	CHE
HOL	loc	GBR	=	-10.85	+	0.108	*	CHE
HOL	bcs	GBR	=	-12.3	+	0.125	*	CHE

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HOL   sta   GBR   =      -8.35   +       0.08   *   CZE
HOL   cwi   GBR   =      -8.52   +      0.087   *   CZE
HOL   bde   GBR   =      -7.74   +      0.076   *   CZE
HOL   ang   GBR   =      -9.02   +      0.086   *   CZE
HOL   ran   GBR   =      -9.15   +      0.093   *   CZE
HOL   rwi   GBR   =      -8.15   +      0.078   *   CZE
HOL   rls   GBR   =      -7.99   +      0.079   *   CZE
HOL   rlr   GBR   =      -5.43   +      0.052   *   CZE
HOL   fan   GBR   =       -8.2   +      0.082   *   CZE
HOL   fua   GBR   =      -9.24   +      0.087   *   CZE
HOL   ruh   GBR   =         -8   +      0.075   *   CZE
HOL   usu   GBR   =      -6.07   +      0.059   *   CZE
HOL   ude   GBR   =      -9.43   +       0.09   *   CZE
HOL   ftp   GBR   =      -9.23   +      0.092   *   CZE
HOL   ftl   GBR   =      -8.89   +      0.089   *   CZE
HOL   rtp   GBR   =      -9.74   +      0.095   *   CZE
HOL   ocs   GBR   =      -7.15   +      0.067   *   CZE
HOL   ous   GBR   =      -8.98   +      0.085   *   CZE
HOL   ofl   GBR   =      -5.68   +      0.054   *   CZE
HOL   loc   GBR   =      -5.76   +      0.056   *   CZE
HOL   bcs   GBR   =      -9.32   +      0.098   *   CZE

HOL   sta   GBR   =      -8.14   +       0.08   *   DEU
HOL   cwi   GBR   =     -10.85   +      0.108   *   DEU
HOL   bde   GBR   =     -10.55   +      0.102   *   DEU
HOL   ang   GBR   =      -9.07   +       0.09   *   DEU
HOL   ran   GBR   =     -10.96   +      0.111   *   DEU
HOL   rwi   GBR   =     -10.66   +      0.104   *   DEU
HOL   rls   GBR   =      -10.1   +      0.098   *   DEU
HOL   rlr   GBR   =      -8.29   +      0.083   *   DEU
HOL   fan   GBR   =     -10.28   +      0.104   *   DEU
HOL   fua   GBR   =      -9.97   +        0.1   *   DEU
HOL   ruh   GBR   =      -8.36   +      0.085   *   DEU
HOL   usu   GBR   =      -9.44   +       0.09   *   DEU
HOL   ude   GBR   =      -8.21   +      0.083   *   DEU
HOL   ftp   GBR   =      -8.82   +      0.086   *   DEU
HOL   ftl   GBR   =      -8.96   +      0.094   *   DEU
HOL   rtp   GBR   =      -9.73   +      0.092   *   DEU
HOL   ocs   GBR   =      -6.81   +      0.068   *   DEU
HOL   ous   GBR   =      -7.97   +        0.08   *   DEU
HOL   ofl   GBR   =      -9.57   +      0.097   *   DEU
HOL   loc   GBR   =     -11.16   +      0.113   *   DEU
HOL   bcs   GBR   =     -10.04   +      0.101   *   DEU

HOL   sta   GBR   =     -10.06   +      0.096   *   DFS
HOL   cwi   GBR   =     -11.01   +      0.105   *   DFS
HOL   bde   GBR   =     -11.81   +      0.103   *   DFS
HOL   ang   GBR   =     -12.57   +      0.122   *   DFS
HOL   ran   GBR   =     -11.62   +      0.117   *   DFS
HOL   rwi   GBR   =     -10.77   +        0.1   *   DFS
HOL   rls   GBR   =      -8.52   +      0.088   *   DFS
HOL   rlr   GBR   =      -7.34   +      0.068   *   DFS
HOL   fan   GBR   =      -8.85   +      0.088   *   DFS
HOL   fua   GBR   =     -10.35   +        0.1   *   DFS
HOL   ruh   GBR   =     -11.05   +      0.107   *   DFS
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HOL   usu   GBR   =      -10.74   +      0.094   *   DFS
HOL   ude   GBR   =       -8.79   +      0.093   *   DFS
HOL   ftp   GBR   =      -11.08   +      0.109   *   DFS
HOL   ftl   GBR   =      -11.26   +      0.115   *   DFS
HOL   rtp   GBR   =      -12.72   +      0.121   *   DFS
HOL   ocs   GBR   =      -10.88   +       0.09   *   DFS
HOL   ous   GBR   =        -9.4   +      0.089   *   DFS
HOL   ofl   GBR   =       -8.88   +      0.088   *   DFS
HOL   loc   GBR   =       -8.03   +      0.075   *   DFS
HOL   bcs   GBR   =      -11.35   +      0.118   *   DFS

HOL   sta   GBR   =       -0.21   +      1.392   *   ESP
HOL   cwi   GBR   =       -0.02   +      1.125   *   ESP
HOL   bde   GBR   =        0.32   +      1.122   *   ESP
HOL   ang   GBR   =       -0.16   +      1.623   *   ESP
HOL   ran   GBR   =        0.12   +      1.173   *   ESP
HOL   rwi   GBR   =       -0.02   +      1.186   *   ESP
HOL   rls   GBR   =       -0.23   +      0.966   *   ESP
HOL   rlr   GBR   =       -0.18   +      0.968   *   ESP
HOL   fan   GBR   =           0   +      1.218   *   ESP
HOL   fua   GBR   =       -0.66   +      1.636   *   ESP
HOL   ruh   GBR   =       -0.43   +      1.552   *   ESP
HOL   usu   GBR   =       -0.47   +      1.704   *   ESP
HOL   ude   GBR   =       -0.81   +      1.403   *   ESP
HOL   ftp   GBR   =       -0.42   +        1.5   *   ESP
HOL   ftl   GBR   =        0.41   +      1.159   *   ESP
HOL   rtp   GBR   =       -0.38   +       1.61   *   ESP
HOL   ocs   GBR   =       -0.38   +      1.224   *   ESP
HOL   ous   GBR   =       -0.67   +       1.55   *   ESP
HOL   ofl   GBR   =       -0.38   +      1.492   *   ESP
HOL   loc   GBR   =       -0.43   +      1.424   *   ESP
HOL   bcs   GBR   =        0.09   +      1.417   *   ESP

HOL   sta   GBR   =       -7.87   +       0.07   *   EST
HOL   cwi   GBR   =       -4.95   +      0.051   *   EST
HOL   bde   GBR   =        -6.6   +      0.064   *   EST
HOL   ang   GBR   =       -4.36   +      0.042   *   EST
HOL   ran   GBR   =       -6.93   +      0.071   *   EST
HOL   rwi   GBR   =       -7.47   +      0.069   *   EST
HOL   rls   GBR   =       -5.02   +       0.05   *   EST
HOL   rlr   GBR   =       -3.65   +      0.034   *   EST
HOL   fan   GBR   =       -4.94   +      0.048   *   EST
HOL   fua   GBR   =       -7.49   +      0.062   *   EST
HOL   ruh   GBR   =       -7.89   +      0.067   *   EST
HOL   usu   GBR   =       -5.78   +       0.05   *   EST
HOL   ude   GBR   =       -9.14   +      0.079   *   EST
HOL   ftp   GBR   =       -7.08   +      0.064   *   EST
HOL   ftl   GBR   =       -7.07   +      0.074   *   EST
HOL   rtp   GBR   =       -9.23   +      0.084   *   EST
HOL   ocs   GBR   =       -5.87   +      0.047   *   EST
HOL   ous   GBR   =       -9.24   +      0.078   *   EST
HOL   ofl   GBR   =       -4.52   +      0.043   *   EST
HOL   loc   GBR   =       -3.06   +      0.028   *   EST
HOL   bcs   GBR   =       -7.14   +      0.076   *   EST
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HOL   sta   GBR   =         0.37   +       1.009   *   FRA
HOL   cwi   GBR   =         0.51   +       1.021   *   FRA
HOL   bde   GBR   =          0.3   +       1.002   *   FRA
HOL   ang   GBR   =         0.15   +       1.134   *   FRA
HOL   ran   GBR   =         0.31   +        1.34   *   FRA
HOL   rwi   GBR   =         0.31   +       1.112   *   FRA
HOL   rls   GBR   =        -0.27   +       1.226   *   FRA
HOL   rlr   GBR   =        -0.19   +       0.886   *   FRA
HOL   fan   GBR   =         0.22   +       1.431   *   FRA
HOL   fua   GBR   =        -0.12   +       1.136   *   FRA
HOL   ruh   GBR   =         0.03   +       1.092   *   FRA
HOL   usu   GBR   =        -0.24   +       1.079   *   FRA
HOL   ude   GBR   =         0.06   +       1.003   *   FRA
HOL   ftp   GBR   =         -0.2   +       1.136   *   FRA
HOL   ftl   GBR   =         0.36   +       1.182   *   FRA
HOL   rtp   GBR   =        -0.28   +       1.348   *   FRA
HOL   ocs   GBR   =         0.04   +        0.82   *   FRA
HOL   ous   GBR   =         0.05   +       0.993   *   FRA
HOL   ofl   GBR   =        -0.11   +       1.324   *   FRA
HOL   loc   GBR   =        -0.16   +        1.33   *   FRA
HOL   bcs   GBR   =         0.23   +       1.539   *   FRA

HOL   sta   GBR   =        -0.42   +       1.131   *   HUN
HOL   cwi   GBR   =          0.1   +       1.036   *   HUN
HOL   bde   GBR   =         0.04   +       1.128   *   HUN
HOL   ang   GBR   =        -0.14   +       0.962   *   HUN
HOL   ran   GBR   =         0.04   +        1.29   *   HUN
HOL   rwi   GBR   =        -0.21   +       1.178   *   HUN
HOL   rls   GBR   =        -0.23   +       1.096   *   HUN
HOL   rlr   GBR   =        -0.09   +       0.632   *   HUN
HOL   fan   GBR   =          0.2   +       1.002   *   HUN
HOL   fua   GBR   =        -0.58   +       1.141   *   HUN
HOL   ruh   GBR   =        -0.48   +       1.118   *   HUN
HOL   usu   GBR   =        -0.26   +       0.938   *   HUN
HOL   ude   GBR   =        -0.73   +       1.156   *   HUN
HOL   ftp   GBR   =        -0.32   +       1.324   *   HUN
HOL   ftl   GBR   =         0.44   +       1.065   *   HUN
HOL   rtp   GBR   =        -0.31   +        1.25   *   HUN
HOL   ocs   GBR   =        -0.47   +       0.828   *   HUN
HOL   ous   GBR   =        -0.55   +       0.948   *   HUN
HOL   ofl   GBR   =        -0.22   +       0.846   *   HUN
HOL   loc   GBR   =        -0.23   +       0.881   *   HUN
HOL   bcs   GBR   =         0.23   +       1.427   *   HUN

HOL   sta   GBR   =        -1.97   +        1.43   *   IRL
HOL   cwi   GBR   =         0.55   +       1.004   *   IRL
HOL   bde   GBR   =        -0.63   +       1.105   *   IRL
HOL   ang   GBR   =        -1.75   +       1.915   *   IRL
HOL   ran   GBR   =        -0.08   +       0.758   *   IRL
HOL   rwi   GBR   =        -1.32   +       0.731   *   IRL
HOL   rls   GBR   =         0.34   +        0.81   *   IRL
HOL   rlr   GBR   =        -1.33   +       0.726   *   IRL
HOL   fan   GBR   =        -0.56   +       0.836   *   IRL
HOL   fua   GBR   =        -2.03   +       0.936   *   IRL
HOL   ruh   GBR   =        -2.58   +       1.173   *   IRL
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HOL   usu   GBR   =       -2.16   +       1.119   *   IRL
HOL   ude   GBR   =          -2   +       0.913   *   IRL
HOL   ftp   GBR   =       -1.64   +       0.993   *   IRL
HOL   ftl   GBR   =        0.41   +       0.736   *   IRL
HOL   rtp   GBR   =       -1.46   +       1.067   *   IRL
HOL   ocs   GBR   =       -2.56   +       1.095   *   IRL
HOL   ous   GBR   =       -3.02   +       1.502   *   IRL
HOL   ofl   GBR   =       -1.49   +       0.992   *   IRL
HOL   loc   GBR   =       -1.27   +       0.721   *   IRL
HOL   bcs   GBR   =        1.33   +       1.592   *   IRL

HOL   sta   GBR   =       -0.15   +       0.877   *   ITA
HOL   cwi   GBR   =        0.08   +       0.702   *   ITA
HOL   bde   GBR   =        0.01   +       0.875   *   ITA
HOL   ang   GBR   =       -0.13   +       0.883   *   ITA
HOL   ran   GBR   =        0.01   +        0.92   *   ITA
HOL   rwi   GBR   =       -0.14   +       0.813   *   ITA
HOL   rls   GBR   =       -0.16   +       0.806   *   ITA
HOL   rlr   GBR   =       -0.25   +       0.536   *   ITA
HOL   fan   GBR   =        0.04   +       0.653   *   ITA
HOL   fua   GBR   =       -0.38   +       0.827   *   ITA
HOL   ruh   GBR   =        -0.2   +       0.822   *   ITA
HOL   usu   GBR   =       -0.17   +       0.761   *   ITA
HOL   ude   GBR   =       -0.37   +       0.835   *   ITA
HOL   ftp   GBR   =       -0.18   +       0.987   *   ITA
HOL   ftl   GBR   =        0.06   +       0.858   *   ITA
HOL   rtp   GBR   =       -0.14   +       0.955   *   ITA
HOL   ocs   GBR   =       -0.25   +       0.995   *   ITA
HOL   ous   GBR   =       -0.06   +       0.896   *   ITA
HOL   ofl   GBR   =       -0.18   +        0.62   *   ITA
HOL   loc   GBR   =       -0.28   +       0.572   *   ITA
HOL   bcs   GBR   =      -20.62   +       0.211   *   ITA

HOL   sta   GBR   =       -0.17   +       0.867   *   JPN
HOL   cwi   GBR   =         0.1   +        0.57   *   JPN
HOL   bde   GBR   =        0.21   +       0.805   *   JPN
HOL   ang   GBR   =        0.18   +       0.839   *   JPN
HOL   ran   GBR   =        0.11   +       0.902   *   JPN
HOL   rwi   GBR   =        -0.1   +       0.884   *   JPN
HOL   rls   GBR   =       -0.07   +       0.668   *   JPN
HOL   rlr   GBR   =       -0.38   +       0.324   *   JPN
HOL   fan   GBR   =       -0.17   +        0.56   *   JPN
HOL   fua   GBR   =        -0.7   +       0.815   *   JPN
HOL   ruh   GBR   =       -0.37   +       0.751   *   JPN
HOL   usu   GBR   =       -0.18   +       0.479   *   JPN
HOL   ude   GBR   =        -0.8   +       0.871   *   JPN
HOL   ftp   GBR   =       -0.29   +       0.809   *   JPN
HOL   ftl   GBR   =        0.17   +        0.91   *   JPN
HOL   rtp   GBR   =       -0.24   +       0.881   *   JPN
HOL   ocs   GBR   =       -0.45   +        1.45   *   JPN
HOL   ous   GBR   =       -0.65   +       1.553   *   JPN
HOL   ofl   GBR   =       -0.44   +       1.409   *   JPN
HOL   bcs   GBR   =       -0.11   +       0.854   *   JPN
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HOL   sta   GBR   =        -0.53   +       0.209   *   KOR
HOL   cwi   GBR   =         0.66   +       0.386   *   KOR
HOL   bde   GBR   =          0.4   +       0.277   *   KOR
HOL   ang   GBR   =        -0.36   +       0.568   *   KOR
HOL   ran   GBR   =        -0.03   +       0.276   *   KOR
HOL   rwi   GBR   =        -0.37   +       0.317   *   KOR
HOL   rls   GBR   =         0.17   +       0.473   *   KOR
HOL   rlr   GBR   =        -0.39   +       0.388   *   KOR
HOL   fan   GBR   =        -0.28   +       0.667   *   KOR
HOL   fua   GBR   =        -0.96   +       0.278   *   KOR
HOL   ruh   GBR   =         -1.2   +       0.284   *   KOR
HOL   usu   GBR   =        -0.83   +       0.326   *   KOR
HOL   ude   GBR   =        -1.97   +        0.22   *   KOR
HOL   ftp   GBR   =         -1.1   +       0.382   *   KOR
HOL   ftl   GBR   =          0.6   +       0.321   *   KOR
HOL   rtp   GBR   =         -0.7   +       0.632   *   KOR
HOL   ocs   GBR   =        -1.19   +       0.093   *   KOR
HOL   loc   GBR   =        -0.29   +       0.078   *   KOR
HOL   bcs   GBR   =         0.42   +        0.56   *   KOR

HOL   sta   GBR   =        -6.64   +       2.544   *   LVA
HOL   cwi   GBR   =        -1.02   +       1.868   *   LVA
HOL   bde   GBR   =        -2.03   +       3.291   *   LVA
HOL   ang   GBR   =        -2.65   +       2.745   *   LVA
HOL   ran   GBR   =        -1.33   +       2.659   *   LVA
HOL   rwi   GBR   =        -3.18   +       2.705   *   LVA
HOL   rls   GBR   =        -0.42   +       2.458   *   LVA
HOL   rlr   GBR   =        -0.77   +       1.988   *   LVA
HOL   fan   GBR   =           -1   +       3.304   *   LVA
HOL   fua   GBR   =        -2.92   +       3.443   *   LVA
HOL   ruh   GBR   =        -4.49   +       2.672   *   LVA
HOL   usu   GBR   =        -2.85   +       3.797   *   LVA
HOL   ude   GBR   =         -3.7   +       3.121   *   LVA
HOL   ftp   GBR   =        -1.58   +       2.421   *   LVA
HOL   ftl   GBR   =        -0.86   +       2.409   *   LVA
HOL   rtp   GBR   =        -3.51   +       3.002   *   LVA

HOL   sta   GBR   =       -24.82   +       0.244   *   NLD
HOL   cwi   GBR   =       -25.71   +       0.266   *   NLD
HOL   bde   GBR   =       -21.72   +       0.217   *   NLD
HOL   ang   GBR   =        -26.1   +       0.257   *   NLD
HOL   ran   GBR   =       -25.86   +       0.267   *   NLD
HOL   rwi   GBR   =        -24.1   +       0.237   *   NLD
HOL   rls   GBR   =       -22.64   +       0.222   *   NLD
HOL   rlr   GBR   =        -20.1   +       0.208   *   NLD
HOL   fan   GBR   =       -23.05   +       0.235   *   NLD
HOL   fua   GBR   =       -24.85   +       0.244   *   NLD
HOL   ruh   GBR   =       -28.36   +        0.28   *   NLD
HOL   usu   GBR   =       -29.78   +       0.291   *   NLD
HOL   ude   GBR   =       -25.01   +       0.246   *   NLD
HOL   ftp   GBR   =       -24.22   +       0.241   *   NLD
HOL   ftl   GBR   =       -25.64   +       0.258   *   NLD
HOL   rtp   GBR   =       -28.16   +       0.276   *   NLD
HOL   ocs   GBR   =       -28.44   +       0.279   *   NLD
HOL   ous   GBR   =        -26.2   +       0.257   *   NLD
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HOL  ofl  GBR  =     -19.91  +     0.208  *  NLD
HOL  loc  GBR  =     -22.94  +     0.238  *  NLD
HOL  bcs  GBR  =     -30.93  +     0.318  *  NLD

HOL  sta  GBR  =      -5.53  +     2.223  *  NZL
HOL  cwi  GBR  =       0.35  +      2.96  *  NZL
HOL  bde  GBR  =      -1.73  +     2.334  *  NZL
HOL  ran  GBR  =      -0.11  +     3.868  *  NZL
HOL  rwi  GBR  =       -3.6  +     3.785  *  NZL
HOL  rls  GBR  =       1.63  +     6.447  *  NZL
HOL  fua  GBR  =       -3.2  +     2.739  *  NZL
HOL  ruh  GBR  =      -4.23  +     3.326  *  NZL
HOL  usu  GBR  =      -3.96  +     2.233  *  NZL
HOL  ftp  GBR  =      -2.71  +     3.964  *  NZL
HOL  ftl  GBR  =       0.82  +     2.346  *  NZL
HOL  rtp  GBR  =      -3.21  +     2.888  *  NZL
HOL  ocs  GBR  =      -4.36  +      2.61  *  NZL
HOL  ous  GBR  =      -4.94  +     2.993  *  NZL
HOL  bcs  GBR  =        1.8  +     9.333  *  NZL

HOL  sta  GBR  =     -11.42  +     0.107  *  POL
HOL  cwi  GBR  =       -8.8  +     0.091  *  POL
HOL  bde  GBR  =      -9.64  +     0.095  *  POL
HOL  ang  GBR  =     -10.68  +     0.101  *  POL
HOL  ran  GBR  =     -11.51  +     0.116  *  POL
HOL  rwi  GBR  =     -11.03  +     0.105  *  POL
HOL  rls  GBR  =      -9.72  +     0.097  *  POL
HOL  rlr  GBR  =      -6.65  +     0.061  *  POL
HOL  fan  GBR  =       -8.8  +     0.087  *  POL
HOL  fua  GBR  =     -11.65  +     0.105  *  POL
HOL  ruh  GBR  =     -12.93  +     0.119  *  POL
HOL  usu  GBR  =     -10.09  +     0.092  *  POL
HOL  ude  GBR  =     -11.66  +     0.106  *  POL
HOL  ftp  GBR  =     -11.34  +     0.107  *  POL
HOL  ftl  GBR  =     -10.86  +      0.11  *  POL
HOL  rtp  GBR  =     -12.46  +     0.118  *  POL
HOL  ocs  GBR  =      -9.39  +     0.083  *  POL
HOL  ous  GBR  =     -12.96  +     0.116  *  POL
HOL  ofl  GBR  =      -7.43  +     0.068  *  POL
HOL  loc  GBR  =       -7.2  +     0.067  *  POL
HOL  bcs  GBR  =     -12.37  +     0.128  *  POL

HOL  sta  GBR  =      -1.14  +     0.828  *  PRT
HOL  cwi  GBR  =      -0.25  +     0.561  *  PRT
HOL  bde  GBR  =       0.23  +     0.533  *  PRT
HOL  ang  GBR  =      -1.12  +     0.769  *  PRT
HOL  ran  GBR  =       0.29  +      0.72  *  PRT
HOL  rwi  GBR  =      -0.72  +     0.649  *  PRT
HOL  rls  GBR  =      -0.21  +     0.475  *  PRT
HOL  rlr  GBR  =      -0.44  +     0.374  *  PRT
HOL  fan  GBR  =      -0.32  +     0.424  *  PRT
HOL  fua  GBR  =      -1.21  +     0.534  *  PRT
HOL  ruh  GBR  =      -1.74  +     0.874  *  PRT
HOL  usu  GBR  =      -1.12  +     0.604  *  PRT
HOL  ude  GBR  =      -1.49  +     0.717  *  PRT
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HOL   ftp   GBR   =        -1.12   +         0.8   *   PRT
HOL   ftl   GBR   =         0.29   +       0.648   *   PRT
HOL   rtp   GBR   =        -1.12   +       0.933   *   PRT
HOL   ocs   GBR   =         -0.8   +       2.799   *   PRT
HOL   ous   GBR   =        -1.13   +        2.47   *   PRT
HOL   ofl   GBR   =        -0.35   +        5.07   *   PRT
HOL   loc   GBR   =        -0.71   +       0.473   *   PRT
HOL   bcs   GBR   =         0.53   +       0.729   *   PRT

HOL   sta   GBR   =        -8.02   +       0.065   *   SVN
HOL   cwi   GBR   =        -4.92   +       0.051   *   SVN
HOL   bde   GBR   =        -6.84   +       0.062   *   SVN
HOL   ang   GBR   =        -6.85   +       0.054   *   SVN
HOL   ran   GBR   =        -6.81   +       0.069   *   SVN
HOL   rwi   GBR   =        -6.65   +       0.058   *   SVN
HOL   rls   GBR   =        -4.73   +       0.048   *   SVN
HOL   rlr   GBR   =        -3.44   +       0.026   *   SVN
HOL   fan   GBR   =        -4.86   +       0.046   *   SVN
HOL   fua   GBR   =        -5.78   +       0.041   *   SVN
HOL   ruh   GBR   =        -8.57   +       0.067   *   SVN
HOL   usu   GBR   =        -5.14   +       0.039   *   SVN
HOL   ude   GBR   =        -8.69   +        0.07   *   SVN
HOL   ftp   GBR   =        -8.61   +       0.071   *   SVN
HOL   ftl   GBR   =        -6.28   +       0.067   *   SVN
HOL   rtp   GBR   =       -10.41   +       0.088   *   SVN
HOL   ocs   GBR   =        -8.03   +       0.059   *   SVN
HOL   ous   GBR   =        -9.95   +       0.075   *   SVN
HOL   ofl   GBR   =        -4.93   +       0.038   *   SVN
HOL   loc   GBR   =        -5.01   +        0.04   *   SVN
HOL   bcs   GBR   =        -4.84   +       0.058   *   SVN

HOL   sta   GBR   =        -0.28   +       0.892   *   USA
HOL   cwi   GBR   =         0.18   +       0.835   *   USA
HOL   bde   GBR   =        -0.04   +       0.971   *   USA
HOL   ang   GBR   =        -0.15   +       0.954   *   USA
HOL   ran   GBR   =        -0.14   +       0.966   *   USA
HOL   rwi   GBR   =         -0.1   +       0.967   *   USA
HOL   rls   GBR   =         0.01   +       0.737   *   USA
HOL   rlr   GBR   =        -0.04   +       0.583   *   USA
HOL   fan   GBR   =        -0.05   +       0.818   *   USA
HOL   fua   GBR   =        -0.27   +       0.804   *   USA
HOL   ruh   GBR   =        -0.17   +       0.752   *   USA
HOL   usu   GBR   =        -0.09   +       0.893   *   USA
HOL   ude   GBR   =         -0.3   +        0.82   *   USA
HOL   ftp   GBR   =        -0.03   +       0.961   *   USA
HOL   ftl   GBR   =         0.01   +       0.908   *   USA
HOL   rtp   GBR   =        -0.05   +       0.906   *   USA
HOL   ocs   GBR   =        -0.24   +       0.917   *   USA
HOL   ous   GBR   =        -0.12   +        0.97   *   USA
HOL   ofl   GBR   =        -0.06   +       0.786   *   USA
HOL   loc   GBR   =        -0.04   +       0.732   *   USA
HOL   bcs   GBR   =         0.17   +      -0.854   *   USA
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HOL   sta   GBR   =       -0.55   +       1.399   *   ZAF
HOL   cwi   GBR   =        0.15   +       1.572   *   ZAF
HOL   bde   GBR   =       -0.13   +       1.405   *   ZAF
HOL   ang   GBR   =       -0.25   +       1.796   *   ZAF
HOL   ran   GBR   =        0.14   +         1.5   *   ZAF
HOL   rwi   GBR   =       -0.27   +       1.341   *   ZAF
HOL   rls   GBR   =        0.14   +       1.487   *   ZAF
HOL   rlr   GBR   =       -0.31   +       1.015   *   ZAF
HOL   fan   GBR   =       -0.14   +       1.396   *   ZAF
HOL   fua   GBR   =       -0.55   +       1.336   *   ZAF
HOL   ruh   GBR   =       -0.73   +       1.492   *   ZAF
HOL   usu   GBR   =       -0.34   +       1.304   *   ZAF
HOL   ude   GBR   =       -0.57   +       1.263   *   ZAF
HOL   ftp   GBR   =       -0.23   +        1.51   *   ZAF
HOL   ftl   GBR   =        0.11   +        1.39   *   ZAF
HOL   rtp   GBR   =       -0.19   +       2.161   *   ZAF
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