

Holstein Type conversions

August 2021

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	=	-0.91	+	1.648	*	AUS
HOL	cwi	GBR	=	0.65	+	2.614	*	AUS
HOL	bde	GBR	=	0.27	+	1.678	*	AUS
HOL	ang	GBR	=	-0.33	+	2.327	*	AUS
HOL	ran	GBR	=	0.24	+	2.075	*	AUS
HOL	rwi	GBR	=	-0.37	+	2.107	*	AUS
HOL	rls	GBR	=	0.16	+	3.919	*	AUS
HOL	rlr	GBR	=	-0.69	+	3.523	*	AUS
HOL	fan	GBR	=	-0.38	+	3.585	*	AUS
HOL	fua	GBR	=	-0.84	+	2.61	*	AUS
HOL	ruh	GBR	=	-1.03	+	2.565	*	AUS
HOL	usu	GBR	=	-0.76	+	3.078	*	AUS
HOL	ude	GBR	=	-1.29	+	1.952	*	AUS
HOL	ftp	GBR	=	-0.46	+	2.064	*	AUS
HOL	rtp	GBR	=	-0.49	+	3.019	*	AUS
HOL	ftl	GBR	=	0.16	+	1.62	*	AUS
HOL	ocs	GBR	=	-0.98	+	0.7	*	AUS
HOL	ofl	GBR	=	-0.89	+	1.189	*	AUS
HOL	ous	GBR	=	-1.2	+	0.967	*	AUS

HOL	sta	GBR	=	-0.09	+	0.938	*	BEL
HOL	cwi	GBR	=	0.33	+	0.707	*	BEL
HOL	bde	GBR	=	0.04	+	0.846	*	BEL
HOL	ang	GBR	=	-0.09	+	0.967	*	BEL
HOL	ran	GBR	=	0.26	+	0.915	*	BEL
HOL	rwi	GBR	=	-0.09	+	0.82	*	BEL
HOL	rls	GBR	=	-0.17	+	0.683	*	BEL
HOL	rlr	GBR	=	-0.19	+	0.544	*	BEL
HOL	fan	GBR	=	0.09	+	0.545	*	BEL
HOL	fua	GBR	=	-0.38	+	0.713	*	BEL
HOL	ruh	GBR	=	-0.3	+	0.896	*	BEL
HOL	usu	GBR	=	-0.32	+	0.571	*	BEL
HOL	ude	GBR	=	-0.23	+	0.939	*	BEL
HOL	ftp	GBR	=	-0.35	+	0.859	*	BEL
HOL	rtp	GBR	=	-0.35	+	0.99	*	BEL
HOL	ftl	GBR	=	0.14	+	0.9	*	BEL
HOL	ocs	GBR	=	-0.34	+	0.605	*	BEL
HOL	ofl	GBR	=	-0.11	+	0.663	*	BEL
HOL	ous	GBR	=	-0.37	+	0.74	*	BEL
HOL	bcs	GBR	=	0.57	+	1.155	*	BEL
HOL	loc	GBR	=	-0.17	+	0.559	*	BEL
HOL	sta	GBR	=	0.51	+	0.197	*	CAN
HOL	cwi	GBR	=	0	+	0.202	*	CAN
HOL	bde	GBR	=	0.09	+	0.192	*	CAN
HOL	ang	GBR	=	0.47	+	0.187	*	CAN
HOL	ran	GBR	=	-0.02	+	0.225	*	CAN
HOL	rwi	GBR	=	0.27	+	0.213	*	CAN
HOL	rls	GBR	=	-0.16	+	0.192	*	CAN
HOL	rlr	GBR	=	0.03	+	0.167	*	CAN
HOL	fan	GBR	=	0.11	+	0.168	*	CAN
HOL	fua	GBR	=	0.41	+	0.236	*	CAN
HOL	ruh	GBR	=	0.63	+	0.182	*	CAN
HOL	usu	GBR	=	0.38	+	0.181	*	CAN
HOL	ude	GBR	=	0.41	+	0.239	*	CAN
HOL	ftp	GBR	=	0.27	+	0.221	*	CAN
HOL	rtp	GBR	=	0.32	+	0.235	*	CAN
HOL	ftl	GBR	=	-0.1	+	0.233	*	CAN
HOL	ocs	GBR	=	0.44	+	0.151	*	CAN
HOL	ofl	GBR	=	0.1	+	0.164	*	CAN
HOL	ous	GBR	=	0.57	+	0.205	*	CAN
HOL	bcs	GBR	=	-23.31	+	0.232	*	CAN
HOL	loc	GBR	=	-0.02	+	0.17	*	CAN

HOL	sta	GBR	=	-10.12	+	0.098	*	CHE
HOL	cwi	GBR	=	-9.56	+	0.097	*	CHE
HOL	bde	GBR	=	-11.09	+	0.108	*	CHE
HOL	ang	GBR	=	-9.57	+	0.091	*	CHE
HOL	ran	GBR	=	-11.53	+	0.116	*	CHE
HOL	rwi	GBR	=	-10.12	+	0.1	*	CHE
HOL	rls	GBR	=	-10.34	+	0.104	*	CHE
HOL	rlr	GBR	=	-7.49	+	0.071	*	CHE
HOL	fan	GBR	=	-8.48	+	0.084	*	CHE
HOL	fua	GBR	=	-9.93	+	0.099	*	CHE
HOL	ruh	GBR	=	-10.85	+	0.105	*	CHE
HOL	usu	GBR	=	-9.39	+	0.089	*	CHE
HOL	ude	GBR	=	-10.09	+	0.101	*	CHE
HOL	ftp	GBR	=	-10.97	+	0.106	*	CHE
HOL	rtp	GBR	=	-12.48	+	0.12	*	CHE
HOL	ftl	GBR	=	-11.2	+	0.109	*	CHE
HOL	ocs	GBR	=	-8.8	+	0.085	*	CHE
HOL	ofl	GBR	=	-10.47	+	0.102	*	CHE
HOL	ous	GBR	=	-10.79	+	0.103	*	CHE
HOL	bcs	GBR	=	-11.89	+	0.124	*	CHE
HOL	loc	GBR	=	-10.87	+	0.107	*	CHE

HOL	sta	GBR	=	-8.28	+	0.082	*	CZE
HOL	cwi	GBR	=	-8.71	+	0.089	*	CZE
HOL	bde	GBR	=	-7.97	+	0.076	*	CZE
HOL	ang	GBR	=	-8.33	+	0.079	*	CZE
HOL	ran	GBR	=	-9.21	+	0.092	*	CZE
HOL	rwi	GBR	=	-8.44	+	0.081	*	CZE
HOL	rls	GBR	=	-8.1	+	0.08	*	CZE
HOL	rlr	GBR	=	-5.31	+	0.051	*	CZE
HOL	fan	GBR	=	-7.53	+	0.077	*	CZE
HOL	fua	GBR	=	-9.56	+	0.093	*	CZE
HOL	ruh	GBR	=	-7.69	+	0.074	*	CZE
HOL	usu	GBR	=	-6.45	+	0.063	*	CZE
HOL	ude	GBR	=	-9.43	+	0.094	*	CZE
HOL	ftp	GBR	=	-9.64	+	0.098	*	CZE
HOL	rtp	GBR	=	-9.82	+	0.098	*	CZE
HOL	ftl	GBR	=	-8.91	+	0.089	*	CZE
HOL	ocs	GBR	=	-7	+	0.069	*	CZE
HOL	ofl	GBR	=	-5.87	+	0.058	*	CZE
HOL	ous	GBR	=	-8.55	+	0.086	*	CZE
HOL	bcs	GBR	=	-9.05	+	0.095	*	CZE
HOL	loc	GBR	=	-5.59	+	0.056	*	CZE

HOL	sta	GBR	=	-8.34	+	0.081	*	DEU
HOL	cwi	GBR	=	-10.49	+	0.104	*	DEU
HOL	bde	GBR	=	-10.52	+	0.102	*	DEU
HOL	ang	GBR	=	-8.58	+	0.084	*	DEU
HOL	ran	GBR	=	-11	+	0.111	*	DEU
HOL	rwi	GBR	=	-10.8	+	0.105	*	DEU
HOL	rls	GBR	=	-10.3	+	0.101	*	DEU
HOL	rlr	GBR	=	-8.26	+	0.082	*	DEU
HOL	fan	GBR	=	-10.16	+	0.104	*	DEU
HOL	fua	GBR	=	-10.67	+	0.106	*	DEU
HOL	ruh	GBR	=	-8.71	+	0.088	*	DEU
HOL	usu	GBR	=	-8.8	+	0.085	*	DEU
HOL	ude	GBR	=	-8.81	+	0.089	*	DEU
HOL	ftp	GBR	=	-9.11	+	0.09	*	DEU
HOL	rtp	GBR	=	-9.93	+	0.097	*	DEU
HOL	ftl	GBR	=	-9.33	+	0.095	*	DEU
HOL	ocs	GBR	=	-7.13	+	0.07	*	DEU
HOL	ofl	GBR	=	-9.38	+	0.095	*	DEU
HOL	ous	GBR	=	-8.04	+	0.081	*	DEU
HOL	bcs	GBR	=	-9.71	+	0.099	*	DEU
HOL	loc	GBR	=	-10.72	+	0.108	*	DEU

HOL	sta	GBR	=	-10.28	+	0.096	*	DFS
HOL	cwi	GBR	=	-10.59	+	0.103	*	DFS
HOL	bde	GBR	=	-11.88	+	0.103	*	DFS
HOL	ang	GBR	=	-12.59	+	0.119	*	DFS
HOL	ran	GBR	=	-11.57	+	0.116	*	DFS
HOL	rwi	GBR	=	-10.65	+	0.097	*	DFS
HOL	rls	GBR	=	-8.61	+	0.089	*	DFS
HOL	rlr	GBR	=	-7.66	+	0.072	*	DFS
HOL	fan	GBR	=	-8.36	+	0.083	*	DFS
HOL	fua	GBR	=	-10.53	+	0.102	*	DFS
HOL	ruh	GBR	=	-10.99	+	0.105	*	DFS
HOL	usu	GBR	=	-10.24	+	0.091	*	DFS
HOL	ude	GBR	=	-9.72	+	0.102	*	DFS
HOL	ftp	GBR	=	-11.71	+	0.115	*	DFS
HOL	rtp	GBR	=	-13.23	+	0.125	*	DFS
HOL	ftl	GBR	=	-11.57	+	0.116	*	DFS
HOL	ocs	GBR	=	-10.72	+	0.091	*	DFS
HOL	ofl	GBR	=	-8.93	+	0.088	*	DFS
HOL	ous	GBR	=	-8.77	+	0.083	*	DFS
HOL	bcs	GBR	=	-10.64	+	0.112	*	DFS
HOL	loc	GBR	=	-8.11	+	0.077	*	DFS

HOL	sta	GBR	=	-0.39	+	1.224	*	ESP
HOL	cwi	GBR	=	-0.05	+	1.096	*	ESP
HOL	bde	GBR	=	0.14	+	1.156	*	ESP
HOL	ang	GBR	=	-0.34	+	1.392	*	ESP
HOL	ran	GBR	=	0.03	+	1.164	*	ESP
HOL	rwi	GBR	=	-0.12	+	1.183	*	ESP
HOL	rls	GBR	=	-0.3	+	0.948	*	ESP
HOL	rlr	GBR	=	-0.1	+	0.94	*	ESP
HOL	fan	GBR	=	-0.08	+	1.203	*	ESP
HOL	fua	GBR	=	-0.68	+	1.329	*	ESP
HOL	ruh	GBR	=	-0.47	+	1.353	*	ESP
HOL	usu	GBR	=	-0.5	+	1.421	*	ESP
HOL	ude	GBR	=	-0.75	+	1.145	*	ESP
HOL	ftp	GBR	=	-0.36	+	1.386	*	ESP
HOL	rtp	GBR	=	-0.39	+	1.545	*	ESP
HOL	ftl	GBR	=	0.25	+	1.136	*	ESP
HOL	ocs	GBR	=	-0.48	+	1.103	*	ESP
HOL	ofl	GBR	=	-0.43	+	1.285	*	ESP
HOL	ous	GBR	=	-0.69	+	1.29	*	ESP
HOL	bcs	GBR	=	0.32	+	1.331	*	ESP
HOL	loc	GBR	=	-0.44	+	1.274	*	ESP

HOL	sta	GBR	=	-8.03	+	0.07	*	EST
HOL	cwi	GBR	=	-4.58	+	0.047	*	EST
HOL	bde	GBR	=	-6.51	+	0.061	*	EST
HOL	ang	GBR	=	-4.2	+	0.039	*	EST
HOL	ran	GBR	=	-6.71	+	0.069	*	EST
HOL	rwi	GBR	=	-7.5	+	0.068	*	EST
HOL	rls	GBR	=	-4.77	+	0.048	*	EST
HOL	rlr	GBR	=	-4.14	+	0.038	*	EST
HOL	fan	GBR	=	-4.65	+	0.045	*	EST
HOL	fua	GBR	=	-7.67	+	0.064	*	EST
HOL	ruh	GBR	=	-7.75	+	0.067	*	EST
HOL	usu	GBR	=	-5.71	+	0.05	*	EST
HOL	ude	GBR	=	-9.43	+	0.082	*	EST
HOL	ftp	GBR	=	-7.52	+	0.069	*	EST
HOL	rtp	GBR	=	-9	+	0.083	*	EST
HOL	ftl	GBR	=	-7.07	+	0.073	*	EST
HOL	ocs	GBR	=	-6.48	+	0.053	*	EST
HOL	ofl	GBR	=	-5.45	+	0.05	*	EST
HOL	ous	GBR	=	-9.01	+	0.077	*	EST
HOL	bcs	GBR	=	-6.79	+	0.072	*	EST
HOL	loc	GBR	=	-3.36	+	0.031	*	EST

HOL	sta	GBR	=	0.06	+	1.029	*	FRA
HOL	cwi	GBR	=	0.47	+	0.967	*	FRA
HOL	bde	GBR	=	0.09	+	0.962	*	FRA
HOL	ang	GBR	=	-0.03	+	1.106	*	FRA
HOL	ran	GBR	=	0.33	+	1.285	*	FRA
HOL	rwi	GBR	=	-0.01	+	1.09	*	FRA
HOL	rls	GBR	=	-0.13	+	1.197	*	FRA
HOL	rlr	GBR	=	-0.22	+	0.859	*	FRA
HOL	fan	GBR	=	0.06	+	1.293	*	FRA
HOL	fua	GBR	=	-0.39	+	1.199	*	FRA
HOL	ruh	GBR	=	-0.16	+	1.121	*	FRA
HOL	usu	GBR	=	-0.16	+	1.052	*	FRA
HOL	ude	GBR	=	-0.19	+	1.073	*	FRA
HOL	ftp	GBR	=	-0.2	+	1.133	*	FRA
HOL	rtp	GBR	=	-0.21	+	1.356	*	FRA
HOL	ftl	GBR	=	0.31	+	1.164	*	FRA
HOL	ocs	GBR	=	-0.24	+	0.841	*	FRA
HOL	ofl	GBR	=	-0.32	+	1.225	*	FRA
HOL	ous	GBR	=	-0.17	+	1.022	*	FRA
HOL	bcs	GBR	=	0.39	+	1.415	*	FRA
HOL	loc	GBR	=	-0.32	+	1.237	*	FRA

HOL	sta	GBR	=	-0.24	+	1.149	*	HUN
HOL	cwi	GBR	=	0.16	+	1.045	*	HUN
HOL	bde	GBR	=	-0.12	+	1.128	*	HUN
HOL	ang	GBR	=	-0.17	+	0.935	*	HUN
HOL	ran	GBR	=	-0.04	+	1.279	*	HUN
HOL	rwi	GBR	=	-0.21	+	1.174	*	HUN
HOL	rls	GBR	=	-0.19	+	1.175	*	HUN
HOL	rlr	GBR	=	-0.27	+	0.581	*	HUN
HOL	fan	GBR	=	0.07	+	1.045	*	HUN
HOL	fua	GBR	=	-0.31	+	1.184	*	HUN
HOL	ruh	GBR	=	-0.22	+	1.222	*	HUN
HOL	usu	GBR	=	-0.2	+	1.007	*	HUN
HOL	ude	GBR	=	-0.29	+	1.242	*	HUN
HOL	ftp	GBR	=	-0.07	+	1.355	*	HUN
HOL	rtp	GBR	=	-0.04	+	1.308	*	HUN
HOL	ftl	GBR	=	0.37	+	1.102	*	HUN
HOL	ocs	GBR	=	-0.27	+	0.956	*	HUN
HOL	ofl	GBR	=	-0.32	+	0.783	*	HUN
HOL	ous	GBR	=	-0.18	+	1.042	*	HUN
HOL	bcs	GBR	=	0.22	+	1.356	*	HUN
HOL	loc	GBR	=	-0.43	+	0.689	*	HUN

HOL	sta	GBR	=	-1.81	+	1.436	*	IRL
HOL	cwi	GBR	=	0.49	+	0.954	*	IRL
HOL	bde	GBR	=	-0.79	+	1.122	*	IRL
HOL	ang	GBR	=	-1.65	+	1.851	*	IRL
HOL	ran	GBR	=	-0.08	+	0.785	*	IRL
HOL	rwi	GBR	=	-1.27	+	0.72	*	IRL
HOL	rls	GBR	=	0.39	+	0.8	*	IRL
HOL	rlr	GBR	=	-1.09	+	0.712	*	IRL
HOL	fan	GBR	=	-0.47	+	0.816	*	IRL
HOL	fua	GBR	=	-1.66	+	1.023	*	IRL
HOL	ruh	GBR	=	-2.15	+	1.188	*	IRL
HOL	usu	GBR	=	-1.77	+	1.102	*	IRL
HOL	ude	GBR	=	-1.61	+	0.993	*	IRL
HOL	ftp	GBR	=	-1.37	+	1.022	*	IRL
HOL	rtp	GBR	=	-1.2	+	1.098	*	IRL
HOL	ftl	GBR	=	0.22	+	0.742	*	IRL
HOL	ocs	GBR	=	-2.24	+	1.092	*	IRL
HOL	ofl	GBR	=	-1.35	+	0.996	*	IRL
HOL	ous	GBR	=	-2.41	+	1.445	*	IRL
HOL	bcs	GBR	=	1.28	+	1.434	*	IRL
HOL	loc	GBR	=	-1.06	+	0.701	*	IRL

HOL	sta	GBR	=	-0.26	+	0.918	*	ITA
HOL	cwi	GBR	=	0.03	+	0.685	*	ITA
HOL	bde	GBR	=	-0.11	+	0.896	*	ITA
HOL	ang	GBR	=	-0.23	+	0.878	*	ITA
HOL	ran	GBR	=	0.1	+	0.904	*	ITA
HOL	rwi	GBR	=	-0.26	+	0.868	*	ITA
HOL	rls	GBR	=	-0.18	+	0.781	*	ITA
HOL	rlr	GBR	=	-0.23	+	0.577	*	ITA
HOL	fan	GBR	=	0.01	+	0.653	*	ITA
HOL	fua	GBR	=	-0.48	+	0.863	*	ITA
HOL	ruh	GBR	=	-0.26	+	0.842	*	ITA
HOL	usu	GBR	=	-0.13	+	0.791	*	ITA
HOL	ude	GBR	=	-0.45	+	0.889	*	ITA
HOL	ftp	GBR	=	-0.21	+	1	*	ITA
HOL	rtp	GBR	=	-0.11	+	0.96	*	ITA
HOL	ftl	GBR	=	0.08	+	0.863	*	ITA
HOL	ocs	GBR	=	-0.34	+	1.032	*	ITA
HOL	ofl	GBR	=	-0.19	+	0.61	*	ITA
HOL	ous	GBR	=	-0.36	+	1.049	*	ITA
HOL	bcs	GBR	=	-19.58	+	0.2	*	ITA
HOL	loc	GBR	=	-0.29	+	0.579	*	ITA

HOL	sta	GBR	=	0.04	+	0.867	*	JPN
HOL	cwi	GBR	=	0.09	+	0.546	*	JPN
HOL	bde	GBR	=	0.01	+	0.801	*	JPN
HOL	ang	GBR	=	0.2	+	0.822	*	JPN
HOL	ran	GBR	=	0.07	+	0.901	*	JPN
HOL	rwi	GBR	=	0.04	+	0.909	*	JPN
HOL	rls	GBR	=	-0.11	+	0.668	*	JPN
HOL	rlr	GBR	=	-0.36	+	0.345	*	JPN
HOL	fan	GBR	=	0.02	+	0.524	*	JPN
HOL	fua	GBR	=	-0.27	+	0.862	*	JPN
HOL	ruh	GBR	=	0.04	+	0.773	*	JPN
HOL	usu	GBR	=	-0.1	+	0.519	*	JPN
HOL	ude	GBR	=	-0.24	+	0.941	*	JPN
HOL	ftp	GBR	=	-0.08	+	0.82	*	JPN
HOL	rtp	GBR	=	-0.01	+	0.897	*	JPN
HOL	ftl	GBR	=	0.06	+	0.905	*	JPN
HOL	ocs	GBR	=	-0.15	+	1.426	*	JPN
HOL	ofl	GBR	=	-0.37	+	1.476	*	JPN
HOL	ous	GBR	=	-0.14	+	1.521	*	JPN
HOL	bcs	GBR	=	-0.13	+	0.818	*	JPN
HOL	sta	GBR	=	-0.77	+	0.243	*	KOR
HOL	cwi	GBR	=	0.52	+	0.354	*	KOR
HOL	bde	GBR	=	-0.36	+	0.201	*	KOR
HOL	ang	GBR	=	-0.46	+	0.516	*	KOR
HOL	ran	GBR	=	-0.08	+	0.263	*	KOR
HOL	rwi	GBR	=	-0.44	+	0.31	*	KOR
HOL	rls	GBR	=	0.21	+	0.458	*	KOR
HOL	rlr	GBR	=	-0.41	+	0.385	*	KOR
HOL	fan	GBR	=	-0.32	+	0.664	*	KOR
HOL	fua	GBR	=	-0.86	+	0.286	*	KOR
HOL	ruh	GBR	=	-1.06	+	0.285	*	KOR
HOL	usu	GBR	=	-0.7	+	0.312	*	KOR
HOL	ude	GBR	=	-1.72	+	0.228	*	KOR
HOL	ftp	GBR	=	-1.13	+	0.38	*	KOR
HOL	rtp	GBR	=	-0.67	+	0.609	*	KOR
HOL	ftl	GBR	=	0.46	+	0.293	*	KOR
HOL	ocs	GBR	=	-1.23	+	0.108	*	KOR
HOL	bcs	GBR	=	0.43	+	0.494	*	KOR
HOL	loc	GBR	=	-0.31	+	0.076	*	KOR

HOL	sta	GBR	=	-25.96	+	0.254	*	NLD
HOL	cwi	GBR	=	-25.36	+	0.261	*	NLD
HOL	bde	GBR	=	-23.62	+	0.233	*	NLD
HOL	ang	GBR	=	-26.26	+	0.256	*	NLD
HOL	ran	GBR	=	-25.79	+	0.265	*	NLD
HOL	rwi	GBR	=	-24.32	+	0.237	*	NLD
HOL	rls	GBR	=	-22.85	+	0.225	*	NLD
HOL	rlr	GBR	=	-23.99	+	0.243	*	NLD
HOL	fan	GBR	=	-23.83	+	0.241	*	NLD
HOL	fua	GBR	=	-26.14	+	0.254	*	NLD
HOL	ruh	GBR	=	-28.79	+	0.281	*	NLD
HOL	usu	GBR	=	-28.53	+	0.278	*	NLD
HOL	ude	GBR	=	-27.03	+	0.264	*	NLD
HOL	ftp	GBR	=	-25.13	+	0.25	*	NLD
HOL	rtp	GBR	=	-28.65	+	0.282	*	NLD
HOL	ftl	GBR	=	-25.9	+	0.26	*	NLD
HOL	ocs	GBR	=	-30.44	+	0.296	*	NLD
HOL	ofl	GBR	=	-23.33	+	0.238	*	NLD
HOL	ous	GBR	=	-26.15	+	0.254	*	NLD
HOL	bcs	GBR	=	-27.74	+	0.288	*	NLD
HOL	loc	GBR	=	-26.33	+	0.267	*	NLD

HOL	sta	GBR	=	-5.48	+	2.288	*	NZL
HOL	cwi	GBR	=	0.24	+	2.903	*	NZL
HOL	bde	GBR	=	-1.93	+	2.261	*	NZL
HOL	ran	GBR	=	-0.16	+	3.904	*	NZL
HOL	rwi	GBR	=	-3.53	+	3.76	*	NZL
HOL	rls	GBR	=	1.63	+	6.202	*	NZL
HOL	fua	GBR	=	-2.92	+	2.877	*	NZL
HOL	ruh	GBR	=	-3.78	+	3.259	*	NZL
HOL	usu	GBR	=	-3.54	+	2.218	*	NZL
HOL	ftp	GBR	=	-2.49	+	4.068	*	NZL
HOL	rtp	GBR	=	-3.01	+	3.041	*	NZL
HOL	ocs	GBR	=	-4.05	+	2.567	*	NZL
HOL	ous	GBR	=	-4.34	+	2.866	*	NZL
HOL	bcs	GBR	=	2.15	+	8.882	*	NZL

HOL	sta	GBR	=	-11.26	+	0.107	*	POL
HOL	cwi	GBR	=	-8.93	+	0.093	*	POL
HOL	bde	GBR	=	-9.93	+	0.096	*	POL
HOL	ang	GBR	=	-10.17	+	0.096	*	POL
HOL	ran	GBR	=	-11.6	+	0.117	*	POL
HOL	rwi	GBR	=	-11.09	+	0.106	*	POL
HOL	rls	GBR	=	-9.82	+	0.098	*	POL
HOL	rlr	GBR	=	-6.75	+	0.062	*	POL
HOL	fan	GBR	=	-8.02	+	0.08	*	POL
HOL	fua	GBR	=	-11.53	+	0.107	*	POL
HOL	ruh	GBR	=	-12.05	+	0.113	*	POL
HOL	usu	GBR	=	-9.44	+	0.088	*	POL
HOL	ude	GBR	=	-11.7	+	0.11	*	POL
HOL	ftp	GBR	=	-11.27	+	0.109	*	POL
HOL	rtp	GBR	=	-12.53	+	0.121	*	POL
HOL	ftl	GBR	=	-11.16	+	0.112	*	POL
HOL	ocs	GBR	=	-9.43	+	0.085	*	POL
HOL	ofl	GBR	=	-8.13	+	0.075	*	POL
HOL	ous	GBR	=	-11.72	+	0.108	*	POL
HOL	bcs	GBR	=	-11.37	+	0.118	*	POL
HOL	loc	GBR	=	-7.18	+	0.068	*	POL

HOL	sta	GBR	=	-1.21	+	0.838	*	PRT
HOL	cwi	GBR	=	-0.12	+	0.518	*	PRT
HOL	bde	GBR	=	-0.15	+	0.553	*	PRT
HOL	ang	GBR	=	-1.39	+	0.853	*	PRT
HOL	ran	GBR	=	0.21	+	0.73	*	PRT
HOL	rwi	GBR	=	-0.75	+	0.706	*	PRT
HOL	rls	GBR	=	-0.51	+	0.451	*	PRT
HOL	rlr	GBR	=	-0.42	+	0.358	*	PRT
HOL	fan	GBR	=	-0.41	+	0.446	*	PRT
HOL	fua	GBR	=	-1.29	+	0.607	*	PRT
HOL	ruh	GBR	=	-1.57	+	0.845	*	PRT
HOL	usu	GBR	=	-1.03	+	0.67	*	PRT
HOL	ude	GBR	=	-1.22	+	0.705	*	PRT
HOL	ftp	GBR	=	-1.04	+	0.842	*	PRT
HOL	rtp	GBR	=	-0.94	+	0.896	*	PRT
HOL	ftl	GBR	=	0.18	+	0.661	*	PRT
HOL	ocs	GBR	=	-0.59	+	3.038	*	PRT
HOL	ofl	GBR	=	-0.34	+	5.293	*	PRT
HOL	ous	GBR	=	-0.68	+	2.464	*	PRT
HOL	bcs	GBR	=	0.59	+	0.627	*	PRT
HOL	loc	GBR	=	-0.59	+	0.408	*	PRT

HOL	sta	GBR	=	-8.64	+	0.068	*	SVN
HOL	cwi	GBR	=	-5.29	+	0.055	*	SVN
HOL	bde	GBR	=	-6.58	+	0.057	*	SVN
HOL	ang	GBR	=	-6.43	+	0.049	*	SVN
HOL	ran	GBR	=	-7.16	+	0.073	*	SVN
HOL	rwi	GBR	=	-6.34	+	0.054	*	SVN
HOL	rls	GBR	=	-4.83	+	0.049	*	SVN
HOL	rlr	GBR	=	-3.93	+	0.03	*	SVN
HOL	fan	GBR	=	-4.52	+	0.043	*	SVN
HOL	fua	GBR	=	-7.13	+	0.053	*	SVN
HOL	ruh	GBR	=	-8.79	+	0.067	*	SVN
HOL	usu	GBR	=	-5.33	+	0.04	*	SVN
HOL	ude	GBR	=	-9.2	+	0.075	*	SVN
HOL	ftp	GBR	=	-9.07	+	0.075	*	SVN
HOL	rtp	GBR	=	-10.74	+	0.09	*	SVN
HOL	ftl	GBR	=	-6.78	+	0.071	*	SVN
HOL	ocs	GBR	=	-7.42	+	0.054	*	SVN
HOL	ofl	GBR	=	-5.41	+	0.041	*	SVN
HOL	ous	GBR	=	-8.96	+	0.066	*	SVN
HOL	bcs	GBR	=	-4.14	+	0.052	*	SVN
HOL	loc	GBR	=	-4.36	+	0.032	*	SVN

HOL	sta	GBR	=	-0.04	+	0.867	*	USA
HOL	cwi	GBR	=	0.23	+	0.828	*	USA
HOL	bde	GBR	=	-0.09	+	0.95	*	USA
HOL	ang	GBR	=	-0.02	+	0.925	*	USA
HOL	ran	GBR	=	-0.15	+	0.947	*	USA
HOL	rwi	GBR	=	0.06	+	0.953	*	USA
HOL	rls	GBR	=	-0.05	+	0.724	*	USA
HOL	rlr	GBR	=	0.06	+	0.606	*	USA
HOL	fan	GBR	=	0.15	+	0.783	*	USA
HOL	fua	GBR	=	0.26	+	0.828	*	USA
HOL	ruh	GBR	=	0.33	+	0.747	*	USA
HOL	usu	GBR	=	0.23	+	0.858	*	USA
HOL	ude	GBR	=	0.21	+	0.863	*	USA
HOL	ftp	GBR	=	0.28	+	0.969	*	USA
HOL	rtp	GBR	=	0.23	+	0.915	*	USA
HOL	ftl	GBR	=	-0.12	+	0.887	*	USA
HOL	ocs	GBR	=	0.17	+	0.947	*	USA
HOL	ofl	GBR	=	0.08	+	0.793	*	USA
HOL	ous	GBR	=	0.44	+	0.979	*	USA
HOL	bcs	GBR	=	0.11	+	-0.782	*	USA
HOL	loc	GBR	=	0.06	+	0.724	*	USA

HOL	sta	GBR	=	-0.44	+	1.403	*	ZAF
HOL	cwi	GBR	=	0.2	+	1.526	*	ZAF
HOL	bde	GBR	=	-0.23	+	1.41	*	ZAF
HOL	ang	GBR	=	-0.28	+	1.777	*	ZAF
HOL	ran	GBR	=	0.07	+	1.506	*	ZAF
HOL	rwi	GBR	=	-0.26	+	1.347	*	ZAF
HOL	rls	GBR	=	0.04	+	1.499	*	ZAF
HOL	rlr	GBR	=	-0.27	+	1.079	*	ZAF
HOL	fan	GBR	=	-0.13	+	1.41	*	ZAF
HOL	fua	GBR	=	-0.22	+	1.401	*	ZAF
HOL	ruh	GBR	=	-0.43	+	1.47	*	ZAF
HOL	usu	GBR	=	-0.15	+	1.289	*	ZAF
HOL	ude	GBR	=	-0.24	+	1.367	*	ZAF
HOL	ftp	GBR	=	0.01	+	1.558	*	ZAF
HOL	rtp	GBR	=	-0.02	+	2.309	*	ZAF
HOL	ftl	GBR	=	0.01	+	1.407	*	ZAF

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DAIRY

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