

Effect of genotyped cows in the reference population on the genomic evaluation of Holstein cattle in Japan.

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Supplementary Table S2. Realized reliabilities and regression coefficients for three reference populations in the validation study.

Traits	Realized reliability ¹						Regression coefficient ¹					
	POPbase		POPcow		POPbull		POPbase		POPcow		POPbull	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Production traits												
Milk yield	0.32	0.01	0.33	0.01	0.35	0.01	0.79	0.02	0.81	0.02	0.79	0.01
Fat yield	0.31	0.01	0.33	0.01	0.34	0.01	0.98	0.03	1.00	0.03	1.01	0.02
Protein yield	0.27	0.01	0.28	0.01	0.29	0.01	0.75	0.02	0.76	0.02	0.76	0.01
Conformation traits												
Stature	0.46	0.01	0.48	0.01	0.49	0.00	1.03	0.02	1.04	0.02	1.02	0.01
Chest width	0.30	0.01	0.31	0.01	0.31	0.01	0.98	0.03	0.99	0.02	0.97	0.01
Body depth	0.36	0.01	0.37	0.01	0.40	0.00	1.02	0.02	1.03	0.02	1.02	0.01
Angularity	0.37	0.01	0.38	0.01	0.38	0.01	1.06	0.03	1.08	0.02	1.05	0.01
Rump angle	0.39	0.01	0.40	0.01	0.41	0.00	1.19	0.03	1.21	0.02	1.16	0.01
Rear leg set	0.26	0.01	0.26	0.01	0.29	0.01	1.02	0.03	1.02	0.03	1.03	0.01
Foot angle	0.21	0.02	0.21	0.02	0.24	0.01	1.10	0.05	1.11	0.05	1.13	0.02
Fore udder attachment	0.32	0.01	0.33	0.01	0.35	0.00	1.06	0.03	1.07	0.03	1.08	0.01
Rear udder height	0.37	0.02	0.38	0.02	0.40	0.00	1.06	0.03	1.09	0.03	1.07	0.01
Rear udder width	0.21	0.01	0.22	0.01	0.24	0.00	0.83	0.03	0.86	0.03	0.85	0.01
Udder support	0.37	0.01	0.37	0.01	0.41	0.00	1.03	0.02	1.04	0.02	1.05	0.01
Udder depth	0.44	0.01	0.45	0.01	0.48	0.00	1.11	0.02	1.12	0.02	1.11	0.01
Front teat placement	0.43	0.02	0.44	0.01	0.47	0.00	1.20	0.03	1.22	0.02	1.22	0.01

¹POPbase: 2000 bull reference, POPbull: 2800 bull reference, POPcow: 2000 bull and 800 cow references.