

Table S2 Slope of regression of true on predicted breeding values in simulated data estimated with different methods, where PLS is Partial Least Squares, BayesSSVS is Bayesian Stochastic Search Variable Selection, RR-BLUP is Ridge Regression, and BLUP (GBLUP) is Genomic Best Linear Unbiased Prediction.

		Trait 1							
		All Generations		Generation 6		Generation 8		Generation 10	
Method	Mean	slope	se	slope	se	slope	se	slope	se
Genomic		1.028	0.065	1.023	0.065	1.057	0.067	1.008	0.063
PLS		0.519	0.014	0.513	0.015	0.534	0.019	0.519	0.023
BayesSSVS		1.202	0.068	1.186	0.058	1.243	0.078	1.192	0.089
BayesC		1.057	0.044	1.058	0.040	1.083	0.051	1.030	0.058
BayesB1		1.062	0.043	1.063	0.038	1.087	0.050	1.035	0.058
BayesA1		1.071	0.045	1.071	0.041	1.096	0.050	1.046	0.057
Lasso1		1.085	0.047	1.083	0.041	1.112	0.054	1.061	0.062
Lasso2		1.078	0.044	1.076	0.038	1.105	0.052	1.053	0.060
RR-BLUP		1.082	0.044	1.080	0.040	1.109	0.052	1.059	0.059
GBLUP		1.093	0.048	1.074	0.041	1.140	0.056	1.081	0.067
BLUP		1.018	0.057	1.002	0.044	1.036	0.133	1.059	0.212

		Trait 2							
		All Generations		Generation 6		Generation 8		Generation 10	
Method	Mean	slope	se	slope	se	slope	se	slope	se
Genomic		0.961	0.059	0.953	0.059	0.958	0.058	0.966	0.061
PLS		0.503	0.013	0.493	0.015	0.511	0.032	0.504	0.026
BayesSSVS		1.006	0.095	0.981	0.077	1.012	0.110	1.038	0.124
BayesC		1.039	0.049	1.022	0.036	1.036	0.064	1.066	0.077
BayesB1		1.049	0.041	1.031	0.030	1.051	0.059	1.072	0.065
BayesA1		1.051	0.043	1.030	0.030	1.054	0.062	1.070	0.068
Lasso1		1.032	0.045	1.035	0.031	1.020	0.063	1.015	0.084
Lasso2		1.040	0.044	1.044	0.032	1.028	0.060	1.022	0.081
RR-BLUP		0.902	0.078	0.915	0.062	0.886	0.091	0.883	0.111
GBLUP		1.030	0.045	1.021	0.031	1.029	0.064	1.028	0.096
BLUP		1.041	0.051	1.059	0.048	0.960	0.114	0.880	0.149

		Trait 3							
		All Generations		Generation 6		Generation 8		Generation 10	
Method	Mean	slope	se	slope	se	slope	se	slope	se
Genomic		0.887	0.058	0.912	0.061	0.854	0.056	0.871	0.055
PLS		0.429	0.013	0.429	0.019	0.413	0.024	0.449	0.031
BayesSSVS		0.988	0.062	1.030	0.049	0.963	0.107	0.932	0.077
BayesC		0.924	0.042	0.953	0.039	0.888	0.081	0.901	0.059
BayesB1		0.902	0.043	0.942	0.041	0.870	0.083	0.854	0.046
BayesA1		0.923	0.046	0.954	0.039	0.892	0.085	0.894	0.067
Lasso1		0.949	0.043	0.977	0.040	0.910	0.082	0.932	0.065
Lasso2		0.946	0.041	0.973	0.038	0.906	0.080	0.931	0.063
RR-BLUP		0.946	0.045	0.973	0.041	0.908	0.082	0.931	0.068
GBLUP		0.973	0.042	0.973	0.036	0.934	0.078	1.017	0.065
BLUP		0.896	0.053	0.925	0.036	0.764	0.132	0.951	0.289

Method	Trait 4							
	All Generations		Generation 6		Generation 8		Generation 10	
Mean	slope	se	slope	se	slope	se	slope	se
Genomic	0.929	0.061	0.985	0.064	0.893	0.058	0.855	0.059
PLS	0.454	0.026	0.481	0.022	0.440	0.044	0.410	0.027
BayesSSVS	1.091	0.056	1.142	0.067	1.055	0.072	1.033	0.055
BayesC	0.960	0.038	1.014	0.042	0.931	0.061	0.894	0.035
BayesB1	0.963	0.035	1.019	0.040	0.929	0.063	0.903	0.034
BayesA1	1.005	0.036	1.050	0.047	0.968	0.059	0.959	0.039
Lasso1	0.969	0.043	1.043	0.056	0.925	0.059	0.862	0.048
Lasso2	0.967	0.049	1.041	0.061	0.925	0.067	0.858	0.050
RR-BLUP	0.968	0.041	1.041	0.054	0.925	0.059	0.863	0.048
GBLUP	0.981	0.040	1.030	0.053	0.942	0.059	0.910	0.038
BLUP	0.966	0.053	1.020	0.053	0.895	0.119	0.287	0.259