

Table S1. Estimates of genomic heritability, h_G^2 , by data set, simulation scenario, genetic information used and Monte Carlo replicate.

Dataset	FRAMINGHAM						GENEVA			
Scenario	RAND			LOW-MAF			RAND		LOW-MAF	
Information	QTL	Markers	Pedigree	QTL	Markers	Pedigree	QTL	Markers	QTL	Markers
Rep-1	.757	.781	.767	.766	.762	.769	.755	.706	.768	.552
Rep-2	.775	.751	.742	.779	.713	.714	.774	.668	.777	.562
Rep-3	.781	.790	.796	.785	.788	.798	.778	.800	.783	.620
Rep-4	.780	.779	.774	.770	.736	.765	.770	.751	.784	.636
Rep-5	.779	.761	.751	.780	.741	.737	.775	.724	.784	.703
Rep-6	.766	.764	.750	.772	.776	.787	.756	.727	.757	.656
Rep-7	.776	.806	.805	.789	.761	.775	.776	.677	.775	.585
Rep-8	.785	.772	.764	.778	.747	.761	.772	.679	.777	.582
Rep-9	.769	.786	.769	.774	.760	.769	.755	.780	.774	.552
Rep-10	.768	.735	.725	.782	.744	.729	.752	.748	.775	.595
Rep-11	.775	.789	.770	.765	.723	.729	.765	.733	.769	.461
Rep-12	.767	.760	.726	.772	.755	.760	.785	.775	.777	.602
Rep-13	.779	.784	.760	.792	.773	.800	.795	.733	.770	.532
Rep-14	.805	.800	.782	.793	.723	.718	.787	.721	.778	.571
Rep-15	.781	.749	.761	.779	.759	.766	.767	.774	.779	.551
Rep-16	.774	.786	.774	.768	.753	.755	.784	.750	.786	.533
Rep-17	.778	.757	.737	.781	.710	.724	.778	.713	.768	.575
Rep-18	.788	.778	.759	.773	.754	.776	.778	.795	.772	.458
Rep-19	.776	.796	.787	.769	.735	.747	.767	.675	.769	.567
Rep-20	.776	.776	.772	.787	.754	.768	.766	.722	.784	.617
Rep-21	.771	.775	.772	.779	.750	.736	.772	.788	.756	.504
Rep-22	.757	.753	.762	.780	.734	.726	.779	.787	.769	.496
Rep-23	.771	.767	.754	.775	.757	.760	.772	.687	.797	.517
Rep-24	.772	.781	.762	.777	.742	.769	.769	.726	.777	.544
Rep-25	.777	.795	.784	.782	.768	.783	.786	.806	.779	.540
Rep-26	.762	.740	.721	.771	.747	.743	.772	.693	.765	.646
Rep-27	.781	.784	.766	.782	.758	.770	.768	.749	.775	.590
Rep-28	.775	.789	.791	.777	.736	.729	.763	.709	.782	.652
Rep-29	.772	.768	.759	.777	.741	.751	.780	.752	.777	.649
Rep-30	.769	.768	.770	.773	.738	.740	.779	.772	.778	.554
Average	.775	.774	.764	.777	.748	.755	.773	.737	.775	.573
SD	.009	.018	.020	.007	.018	.023	.010	.040	.008	.058