

Table S4. R-squared (R^2) between realized and predicted genetic value in training data sets, 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	.871	.827	.824	.870	.820	.818	.848	.793	.856	.791
Rep-2	.868	.824	.817	.869	.818	.814	.848	.794	.855	.788
Rep-3	.861	.817	.813	.879	.833	.830	.846	.798	.859	.802
Rep-4	.866	.823	.819	.870	.818	.820	.856	.804	.856	.799
Rep-5	.873	.827	.822	.876	.830	.827	.862	.811	.858	.807
Rep-6	.856	.810	.805	.869	.823	.820	.843	.787	.842	.782
Rep-7	.878	.834	.830	.876	.827	.827	.854	.800	.860	.797
Rep-8	.865	.823	.818	.873	.825	.824	.855	.800	.864	.804
Rep-9	.876	.831	.827	.864	.815	.813	.845	.793	.848	.783
Rep-10	.865	.822	.816	.869	.822	.818	.850	.794	.853	.792
Rep-11	.869	.828	.823	.861	.810	.809	.852	.799	.851	.781
Rep-12	.862	.818	.812	.869	.823	.822	.853	.802	.859	.798
Rep-13	.862	.819	.814	.868	.824	.823	.861	.812	.858	.792
Rep-14	.879	.841	.837	.870	.820	.819	.862	.813	.874	.808
Rep-15	.864	.822	.819	.869	.822	.820	.858	.807	.854	.790
Rep-16	.872	.831	.827	.867	.820	.817	.861	.812	.863	.801
Rep-17	.871	.829	.822	.866	.814	.812	.858	.810	.857	.796
Rep-18	.879	.837	.832	.874	.829	.828	.854	.806	.854	.786
Rep-19	.874	.828	.823	.865	.814	.813	.841	.790	.851	.788
Rep-20	.873	.832	.828	.869	.823	.823	.855	.803	.863	.806
Rep-21	.854	.811	.807	.869	.820	.816	.858	.804	.847	.774
Rep-22	.859	.817	.812	.867	.818	.814	.856	.808	.852	.783
Rep-23	.872	.829	.825	.871	.825	.823	.858	.805	.863	.800
Rep-24	.857	.812	.806	.864	.813	.813	.846	.794	.855	.786
Rep-25	.865	.820	.817	.867	.817	.818	.856	.807	.863	.794
Rep-26	.866	.822	.817	.873	.825	.822	.861	.808	.859	.801
Rep-27	.867	.827	.822	.874	.825	.824	.861	.810	.859	.801
Rep-28	.871	.828	.823	.871	.820	.818	.850	.801	.863	.803
Rep-29	.872	.828	.823	.868	.823	.821	.854	.805	.869	.809
Rep-30	.862	.820	.814	.860	.807	.806	.854	.806	.855	.792
Average	.868	.825	.820	.869	.821	.819	.854	.803	.857	.794
SE	.007	.007	.008	.004	.006	.006	.006	.007	.007	.009