Performance of MCMC Method on Simulated Data with $N_e = 958$

Table 1 shows the pairwise prediction accuracy for a simulation where $\alpha = 15$, $\beta = .1$, $N = 1000$, and $n = 50$. The mating parameters used here translate to N_e of 958. The pairwise accuracy rates were similar to those of Simulation A, where $N_e = 650$. Furthermore, Figure 1 shows that the posterior for N_e was centered around the true value at 958 (red vertical line).

Table 1: **Pairwise Prediction Accuracy**

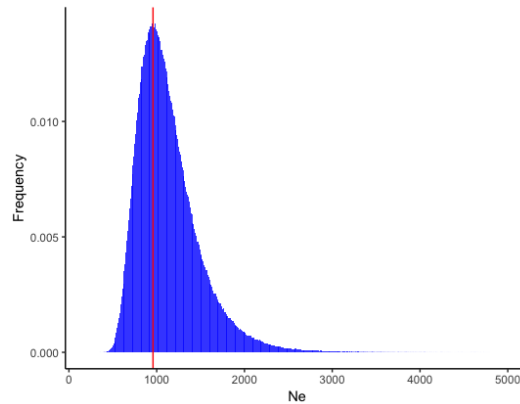|		Predicted				
		FS	HS	UR	FC	HC
	FS	4	0	0	0	0
	HS	1	255	0	0	0
True	UR	0	0	60016	0	5
	FC	1	0	0	12	0
	HC	0	0	5	6	945

Figure 1: Estimated posterior distribution of Ne from MCMC samples aggregated over 50 datasets. The red line indicates the true value at $N_e = 958$.