

Problem Set 6

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1. Get OLS estimates for Beta coefficients on log wages

	Coeff.	Std Dev
Intercept	4.913	0.063
Education	0.074	0.004
Experience	0.039	0.002
SMSA	0.164	0.016
Black	-0.188	0.017
South	-0.129	0.015
Residuals		0.377

2. Calculate Distribution of Coefficients with flat prior and with prior of 0.06 for the first Beta

3. Compare Bayesian and OLS results.

Below are the following distribution means and standard deviations. Overall the Mean of the Bayesian estimates is similar to the OLS estimates. However, the standard errors in the Bayesian Estimation are a bit tighter.

	Coeff. Mean	Std Dev
Intercept	5.181	0.420
Education	0.061	0.017
Experience	0.032	0.010
SMSA	0.176	0.021
Black	-0.191	0.057
South	-0.074	0.085
Residuals		0.377

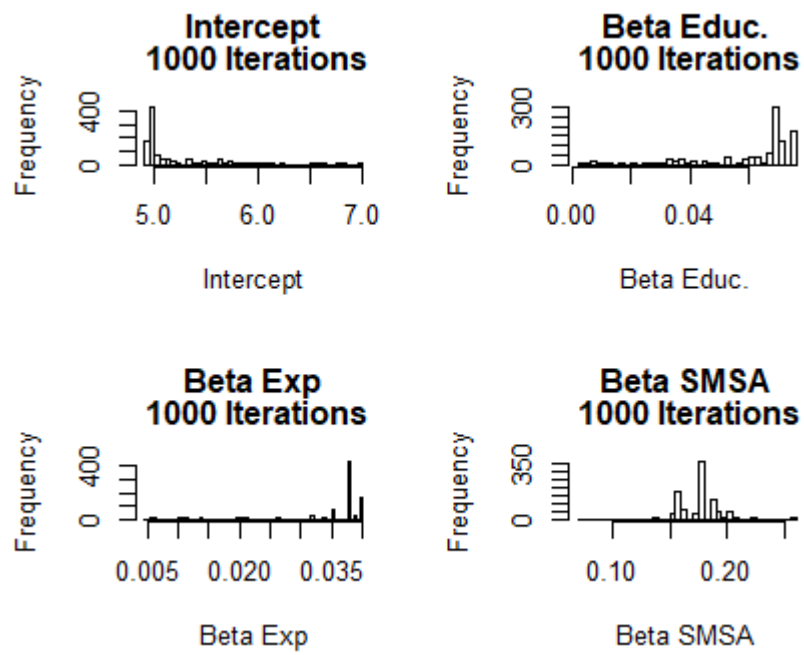


Figure 1:

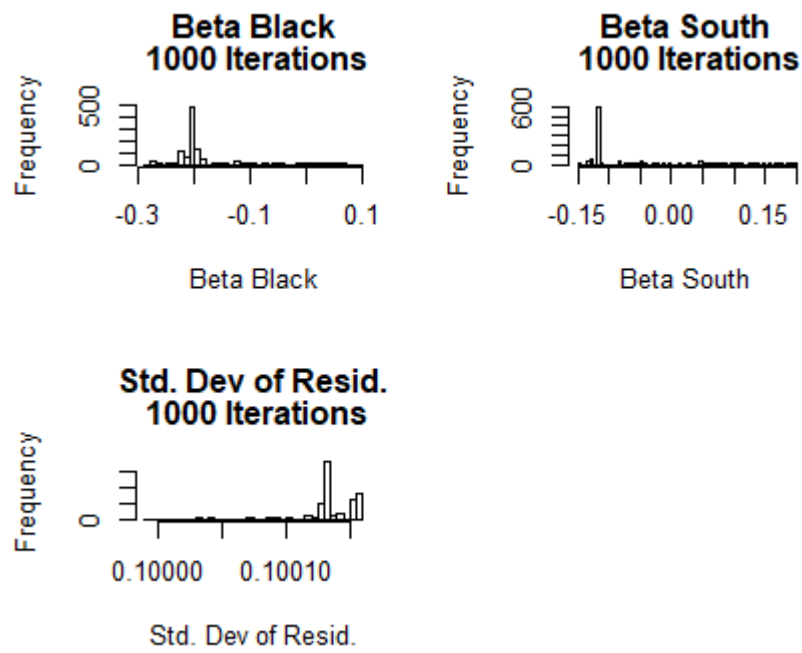


Figure 2: