Market Forecasting using NLS Regression

The file "Election 2016 Data.xls" contains election results by state for the U.S. Presidential election between Trump and Clinton in 2016.

1. What is the correlation among the various independent x-variables? Are there any combinations of variables that might cause problems if included together in a model?

2. Mathematically write out a potential regression model that would predict voter turnout.

3. In Excel, use the Regression tool to estimate this model.

4. In Excel, use the Solver tool to obtain the same estimates via non-linear least squares (NLS) estimation. How do these estimates compare to those obtained from the Regression tool?

5. Please calculate the mean absolute percentage error (MAPE) using the estimates obtained from NLS.

6. Can we treat the 2008 elections as a calibration sample to try and forecast the 2016 results? Why or why not?