

Test Sobol with correlation structure

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May 17, 2018

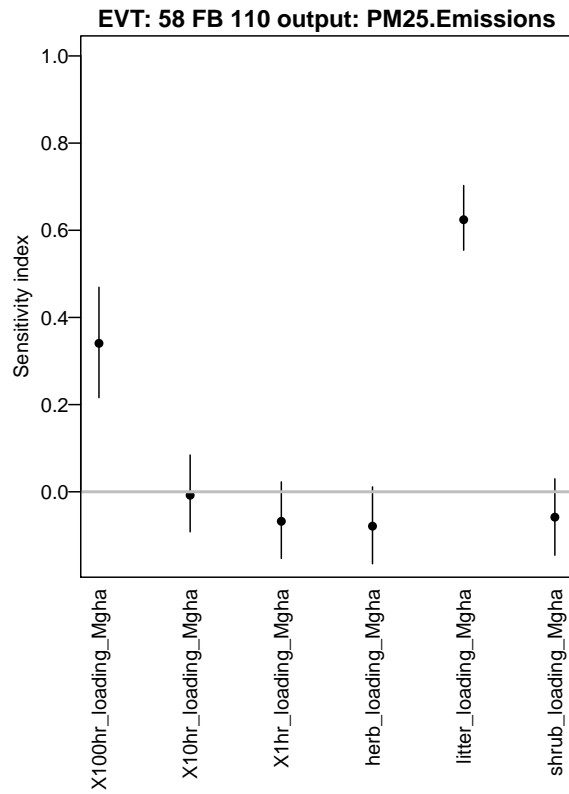
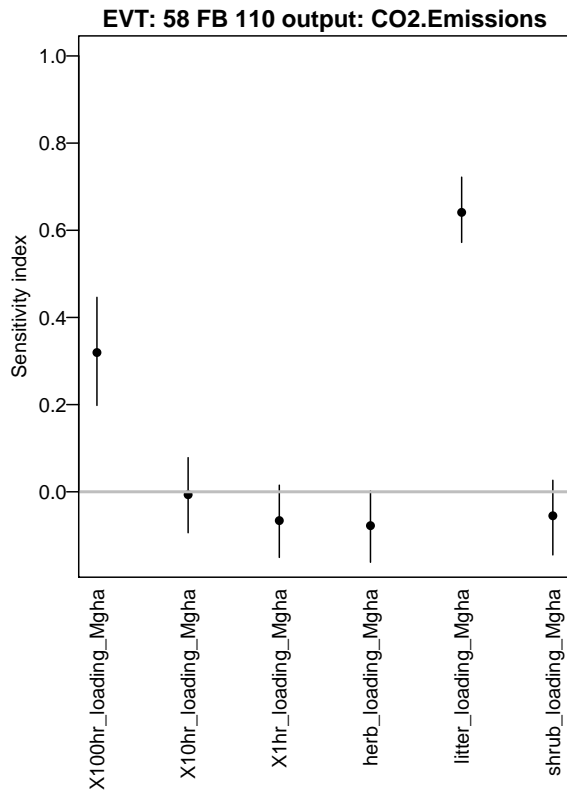
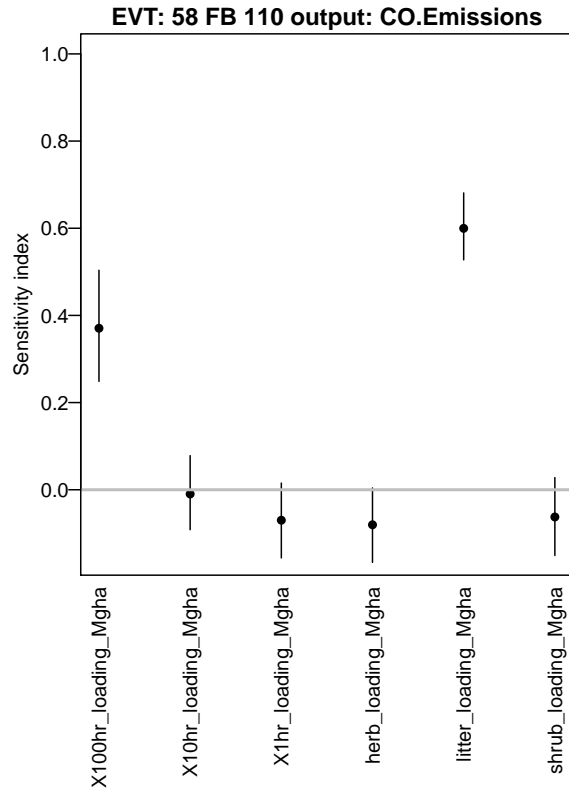
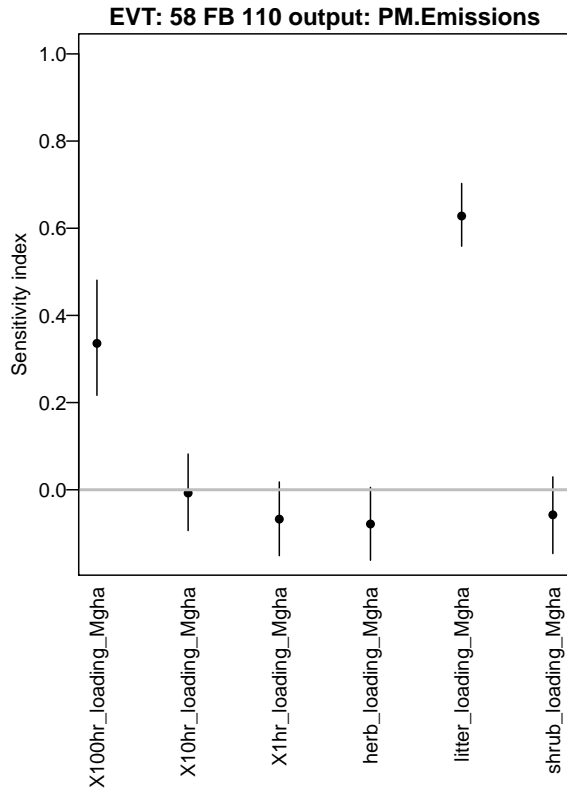
Introduction

This is to test whether the correlation structure created by the Iman method is conserved with a Sobol rearrangement, for global SA.

First generate the correlated sample, and then create the sobol object. Identify baseline values for all other necessary fuel types, and add as constant to final dataframe. Call consume (or fofem), then evaluate results. we will do this with an example evt

Next we call the consume batch processor. We can do this from R.

And now we calculate the sensitivity metrics



Now we will try FOFEM. Now let's try to create a FOFEM input file from the Sobol sample, with the switch indicated large fuel loads by size class.

Note: we're getting a warning that no ignition simulated for some of the stands. Need to look into that.

