Math 140 Fire Modeling Project

This project should be done in groups, as formed earlier this week. The report and presentation will be done jointly —submit a single report for the project with all authors' names clearly listed.

Project deliverables:

1. 8-minute demonstration of your model and results in class (groups spread over Wed Oct 10 and Fri Oct 12).

2. NetLogo code due Mon Oct 15 (save as lastnames.nlogo and email to tleise@amherst.edu)

3. Report due Mon Oct 15, which should contain the following:

   a. Title and abstract with a brief overview of your work.

   b. Introductory section, including background on your problem of interest and any prior work done by others that you found (published modeling articles, Forest Service models, etc).

   c. Modeling section following ODD protocol.

   d. Verification and validation of your model.

   e. Results section with illustrations of what behaviors your model can produce and any interesting conclusions that can be drawn from model. Include graphs showing some of the relationships between parameters and outcomes. Be sure to run sufficient repetitions to check the variability due to the probabilistic nature of the model.

   f. Reference section listing all sources used, with any standard bibliographic format.