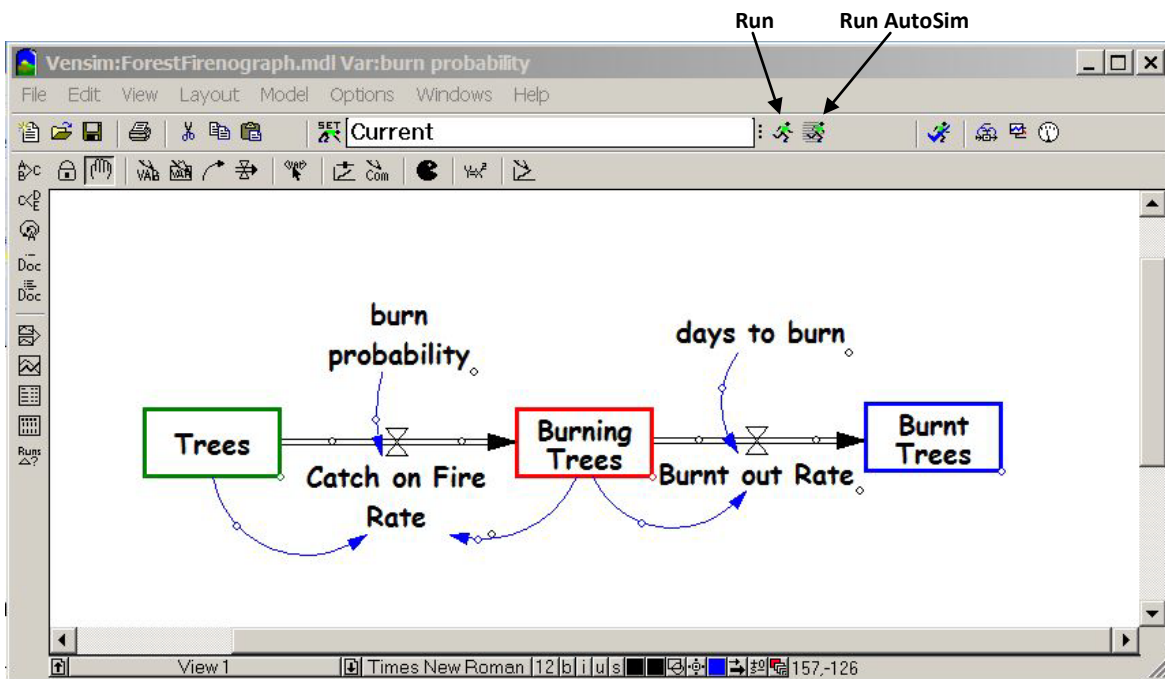


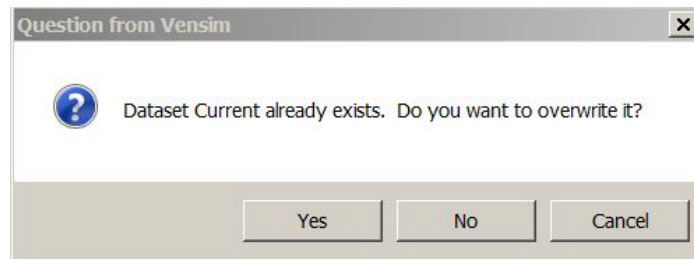
Forest Fire Inquiry

Part 1: Making Predictions

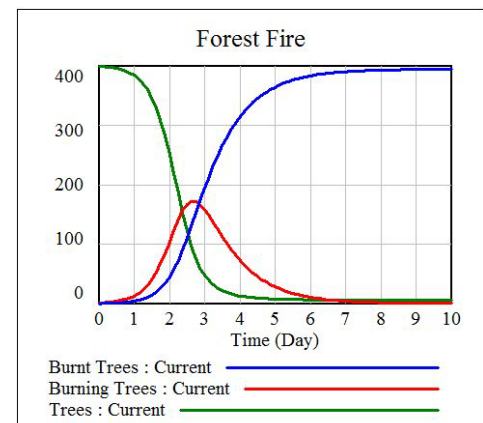
- Open ForestFire.mdl.



- **Run** the model.
 - Click on the green running man (pop-up label says Run a Simulation) on the top gray bar. A dialogue box similar to the one below may appear. Click on Yes.




- **Predict**
 1. How would the graph change if we increased the burn probability?
 2. How would the graph change if we increased the days to burn?



Part 2: Experimenting with the model

- **Run AutoSim** (run the model in automatic simulation mode).
 - Click on the green running man with the black bars (pop-up label says Automatically simulate on change). Mini-graphs will appear in the computed parts of the model. Moving the slider bars like the one shown below will allow you to change parameters.



- Experiment with burn probability
 - Start by moving the slider bar on burn probability. It can be as small as 0 and as large as 0.05.
 - As you move the slider bar, all graphs will be re-drawn. The large graph's y-axis will re-scale after you release your mouse from the slider bar.
 - To return the model to its original state, click on the **red stop sign**  on the top bar and **run** the model (not run autosim). This will restore the graph and table to their original values.
 - Questions to consider
 1. How does the forest fire change as the burn probability is changed?
 2. Do your neighbors get the same result you do when you all use the same burn probability?
 3. Is there any evidence of random numbers in this model?
- Experiment with days to burn by moving its slider.
 - Questions to consider
 4. How does the graph change when days to burn is increased?
 5. How does the number of days to burn change the behavior of the forest fire?