

Explore Harvard Forest Buds Data: Distance Learning Alternative

- Go to Harvard Forest (HF) website using this link:
<https://harvardforest.fas.harvard.edu/schoolyard/phenology-data>
- Click on "Graph Data"
- Follow the prompts and submit on each screen;
 - Fall Phenology
 - Detailed data from a single site
 - Select **Williston Northampton School** from the dropdown menu
 - Submit again (WNM-Buds-001) **do not fill in any dates**

You will get a list of trees from our site to choose from:

Tree	<input type="checkbox"/> ALL	<input type="checkbox"/> 1 SM	<input type="checkbox"/> 2 TP	<input type="checkbox"/> 3 PO	<input type="checkbox"/> 4 HL	<input type="checkbox"/> 5 RM	<input type="checkbox"/> 6 AS	<input type="checkbox"/> 7 SH	<input type="checkbox"/> 8 WO
<input type="checkbox"/> 9 RO	<input type="checkbox"/> 10 MC	<input type="checkbox"/> 11 AL	<input type="checkbox"/> 12 BG	<input type="checkbox"/> 13 EC	<input type="checkbox"/> 14 SW	<input type="checkbox"/> 15 EC	<input type="checkbox"/> 16 BC	<input type="checkbox"/> 17 SM	<input type="checkbox"/> 18 AP
<input type="checkbox"/> 19 RM	<input type="checkbox"/> 20 BB	<input type="checkbox"/> 21 BE	<input type="checkbox"/> 23 EB						

I have marked the trees that are currently part of our research study. Please select your tree number, plus two other trees in our current site, for comparison. Then Submit.

- On the next screen, click on the green "Growing Season". This will bring up a graph in a new window.
 - Look at the graph carefully to see what it is showing you. If you want to see a graph with some other trees, select the previous tab at the top of your browser to go back.
 - When you have a graph you want to write about, take a screen clipping of the graph and paste it onto the "Harvard Forest Data Graphs" page in the Talking Tree tab.
- Interpret the graph that includes your tree. The following questions can be used to help you begin to think about the graph you are looking at.
 - How long is the growing season for your tree? Has it been the same every year?
 - How does it compare to the other trees?
 - Do you see a trend in the lengths of the growing seasons over the years shown on the graph?

Write a paragraph to express your thinking. (A sample graph and paragraph is located in the CL/Talking Trees tab.)

The following is a tree species key for your convenience. Please use the tree names when referring to specific data in your writing.

PO= pin oak
BG= Black Gum
EC= exotic cherry
SW= Stewartia
RM= red maple

BB= black birch (really a river birch!)

BE= Beech

EB= black elderberry