

Date of study

December 2015 - April 2016

Date of Public Archiving: 4 February 2021. The effects of chilling on bud burst in seven North American deciduous woody species at <https://knb.ecoinformatics.org/view/urn%3Auuid%3A4917e71e-b4fc-4f18-9ca3-245d164f2317>

Last modified:

10 March 2021

26 Nov 2024 Lizzie changed some formatting mostly and made a 1 Dec 2024 Drive file update

Goal

Analysis of multiple levels of chilling (1°, 2°, 4°, 8°C) and duration of chilling (no additional, 16 days, 32 days) on seven species collected from Harvard Forest in December 2015. Experiment was done in Biochambers in winter 2016. This experiment was a follow-up to the one in 2015 (BudburstExperiment2015).

Some of these data used in Flynn & Wolkovich 2018 (*New Phytologist*).

Contributors

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General Files

File	Where	What
Log file for experiment	Google Drive -- Update 1 Dec 2024: this linked file is called 'Budchill experiment 2016 log' and Lizzie is keeping a copy (Budchill experiment 2016 log.pdf) on her computer.	Dates of harvest, measurement, and re-cutting and water change

Data and Code

Code all lives on github. Data lives on Github, with backup on WeldShare.

Github <https://github.com/flynn-d/budchill>

W: drive WeldShare > Wolkovich Lab > Budchill Experiment 2016

File	Where	What
Budburst Chill Datasheet.xlsx	WeldShare Midge: home/deirdre /budchill/datal	Entered data of budburst observations, with sheets for each entry
Budburst Chill Datasheet.csv	WeldShare Midge: home/deirdre /budchill/data	Data on budburst observations, compiled in one data frame.
Budburst Chill Data 2016-04-01.Rdata	WeldShare Midge: home/deirdre /budchill /data	R Data file with three data frame: d - raw observations of each cutting, each time. 6682 rows dx - summarized data on day of leafout or budburst. Day counted from date placed in forcing temperatures. 624 rows chillcalcs - Chill portions from Dynamic Model for each treatment, with and without field chilling included
Field Sampling Dec 2015.xlsx	WeldShare Midge: home/deirdre /budchill/desi gn	Log of which individuals were harvested
Notes on the experimental design	github	Notes started by Lizzie in 2017 on the design of the experiment
BBCH guide	KNB	Photographic guide (Also, a note on the BBCH scale we used: We used a numeric form that is converted in this file: Budburst Datasheet 2015-05-15.xlsx/BBCHscale tab. You can also find it in Budburst Chill Datasheet 2016-01-04.xlsx or most other of the datasheets here.)

