*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**](https://knb.ecoinformatics.org/view/urn:uuid:4917e71e-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](https://docs.google.com/document/d/1tk67ZRQSzscDjlmogTTIbYmyEKy3OuXWW_vJ-_rGErQ/edit) -- 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.xlxs | WeldShare  Midge: home/deirdre/budchil/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/design | Log of which individuals were harvested |
| Notes on the experimental design | [github](https://github.com/flynn-d/budchill/blob/master/_readmeExpt.txt) | Notes started by Lizzie in 2017 on the design of the experiment |
| BBCH guide | [KNB](https://knb.ecoinformatics.org/#view/doi:10.5063/F1M906MP) | 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 call also find it in Budburst Chill Datasheet 2016-01-04.xlsx or most other of the datasheets here.) |

