## $_{\scriptscriptstyle 1}$ Methods

## <sub>2</sub> EGRET database

- 3 A systematic review was conducted to identify and analyze experimentally controlled germination trials
- 4 reported in the scientific literature. The search was performed using the ISI Web of Science database
- 5 with the following search terms:
- <sub>6</sub> TOPIC = ("germination rate" OR "germination tim\*" OR "mean germination time" OR "t50" OR
- <sup>7</sup> "time to germination") AND ("chill\*" OR "stratification")
- s
- The search was conducted on May 27 2022, and yielded a total of 1,360 results. Out of these, 1,203
- research articles were selected for the initial review process, where their abstracts were evaluated.
- 11 Articles were excluded if:

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- 1. study species were crops, e.g. cultivated varieties that underwent anthropogenic selection alternating dormancy traits
- 2. treatments didn't include environmental variables
- 3. studies were conducted in the field, i.e. no controlled environments
- 4. treatments were pooled, sequential or in other ways not clearly distinguishable
- 5. written in a languages other than English
- 6. reminder for future: what do we do with studies without error
- 20 These selection criteria resulted in 246 studies, including 0 species.
- 21 Data were extracted from tables and text sources. In cases where figures were used, the software
- 22 imageJ was used for data extraction. Data from figures with poor quality or overlapping datapoints
- 23 were not further considered.

## 24 Decisions on the way to analysis

- 25 We assumed that authors report % germination as relative to the total number of (we assume) viable
- 26 seeds at the start of the experiment and discarded data that reported % germination relative to some
- other seed number.

## 28 Seed dormancy classes

- <sup>29</sup> Classes of Seed Dormancy were downloaded on Nov 29 2023 from https://docs.google.com/spreadsheets/
- ${\tt 30} \quad d/e/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PoytQP3NP5RyoMb3zSXxoMmNj6rdkkyTv5CjE-jdqeovJJcEVr80GND\_L9P0nvYgdcepDACL8HX/2PACX-1vQT6PACX$
- 31 pubhtml