

ABSTRACT

The aim of this work was to create a usable data set from botanical data gathered in the 1800's by Henry David Thoreau for visualization and scientific purposes. A special focus was to preserve the work completed by Ray Angelo in his botanical index for future work. A Python script was written to scrape each HTML page on Angelo's website to gather the botanical information and index information provided. The data has been useful in drawing out patterns in Thoreau's exploration of botany. Specific plants are watched more closely, though his interest wandered throughout the botanical world. Future data work will be needed or helpful, including attribution of dates to specific pages and volumes, as well as updated botanical terms..

REFERENCES

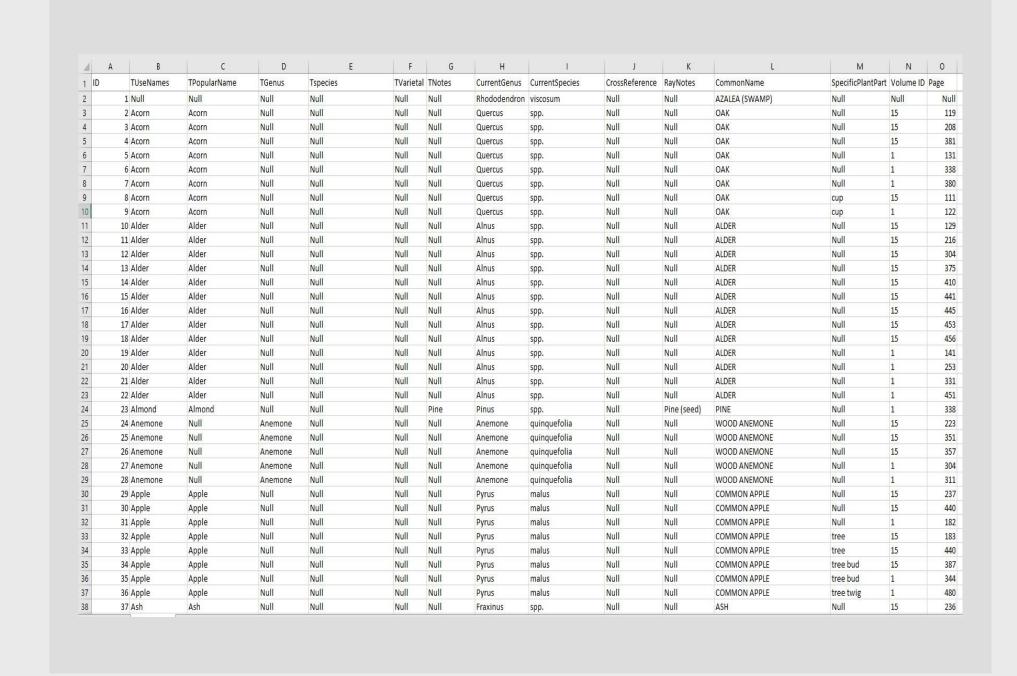
Angelo, R. (2017, May 4, 2017). Botanical index to the journal of Henry David Thoreau. Retrieved from http://www.ray-a.com/ThoreauBotIdx/index.html

Primack, R. B., & Miller-Rushing, A. J. (2012). Uncovering, collecting, and analyzing records to investigate the ecological impacts of climate change: A template from Thoreau's Concord. BioScience, 62(2), 170-181. doi:10.1525/bio.2012.62.2.10

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The Data Path



Further research is needed to complete the data sets. For example, dates (specially month and year) would be helpful in determining what Thoreau cited in winter months vs summer months. In addition, Ray's index uses the Grey's Manual of Botany 8th Edition. Since its use, other editions have been printed, and +plant taxonomy has continued to improve. Updating botanical terms will be required.

This work was completed with significant help from Dr. Peter Hook, Cornell University, and Dr. Timothy Bowman, Wayne State University.

Endangered Data Preservation Organizing and Visualizing Thoreau's Botanical Observations



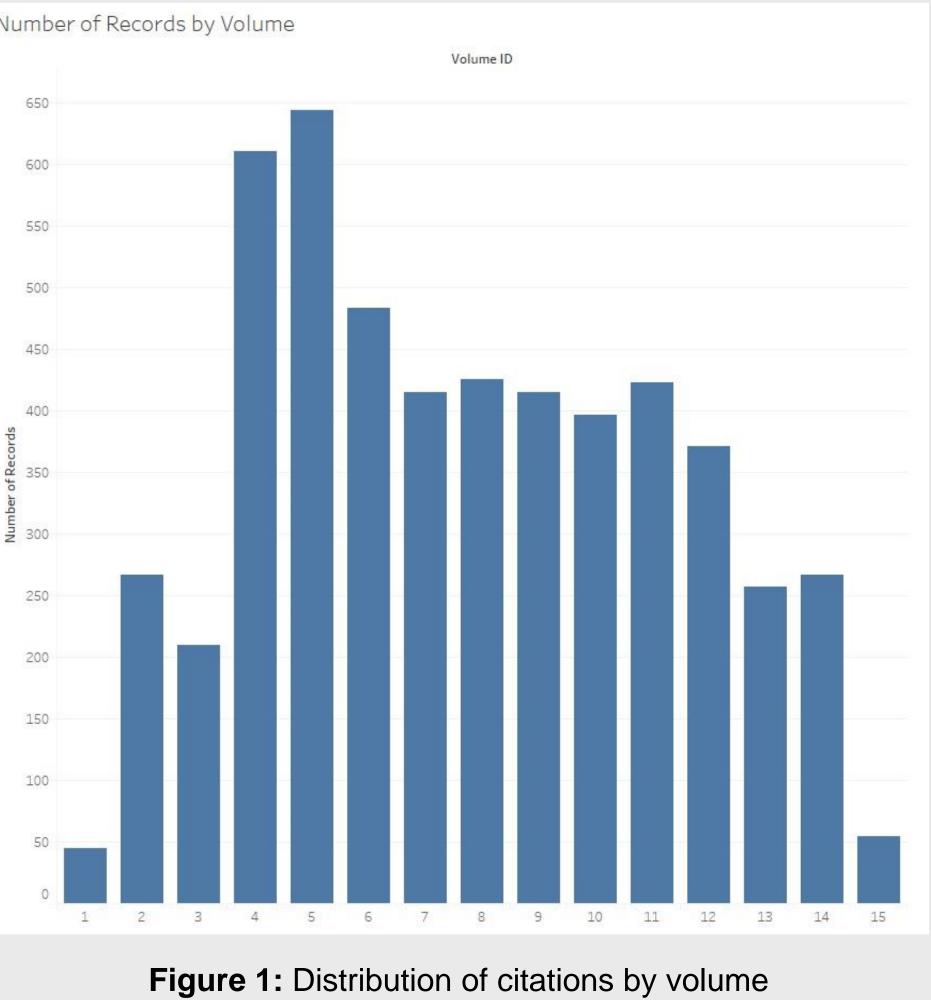
Photograph by Herbert Gleason https://www.walden.org/collection/journals/

RESULTS

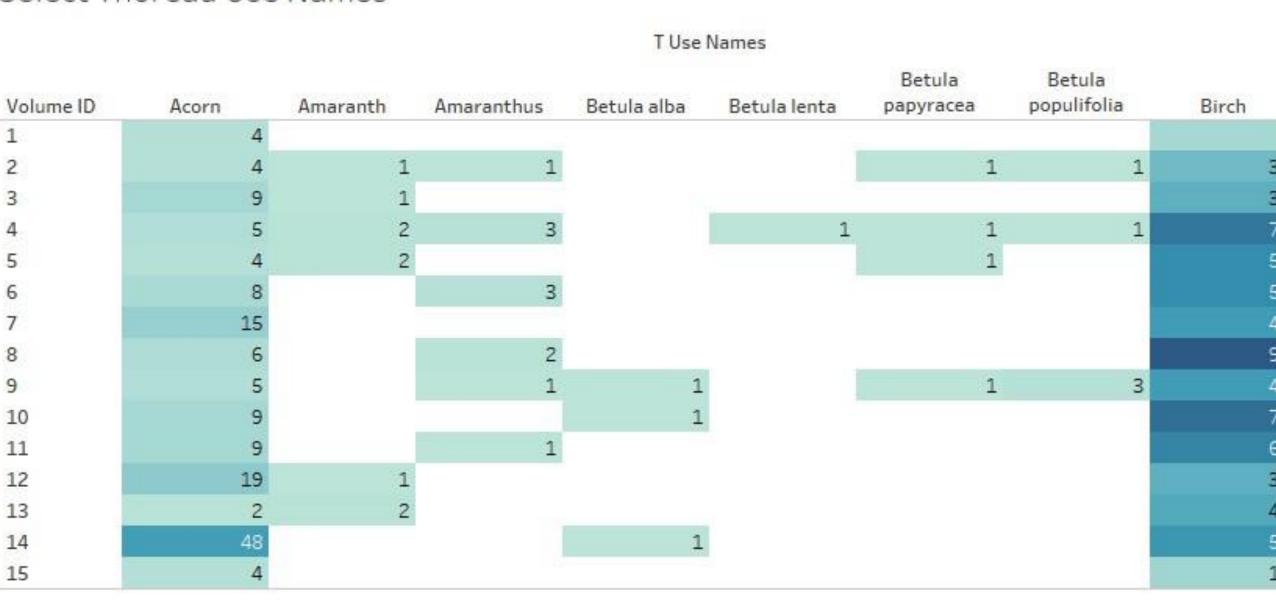
CONCLUSIONS

Acknowledgments

Number of Records by Volume

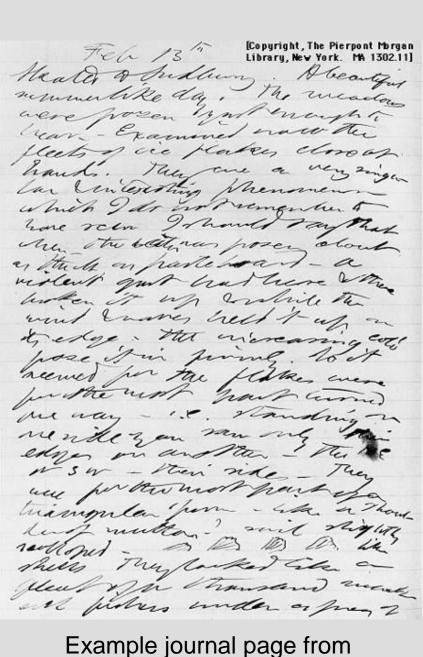


Select Thoreau Use Names



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METHODS AND MATERIALS



Thoreau's diary.

SAMPLE TRANSCRIPTION Feb 13th Skated to Sudbury. A beautiful summerlike day. The meadows were frozen just enough to bear-- -- Examined now the fleets of ice flakes close at hand. They are a very singular & interesting phenomeno which I do not remember to have seen I should say that when the water was frozen about as thick as pasteboard -- a violent gust had here & there broken it up & while the wind & waves held it up on its edge--the increasing cold froze it in seemed for the flakes firmly. So it were for the most part turned one way--i.e. standing on one side you saw only thei edges on another--the N E or S W--their--sides-- They were for the most part of a triangular form--like a shoul der of mutton? sail slightl scolloped--{drawing} like shells They looked like a

fleeet of a thousand mackeral fishers under a press of

DISCUSSION

CurrentGenusByVolume

Figure 3 & 4: Example of Thoreau's use names normalized by current Genus.

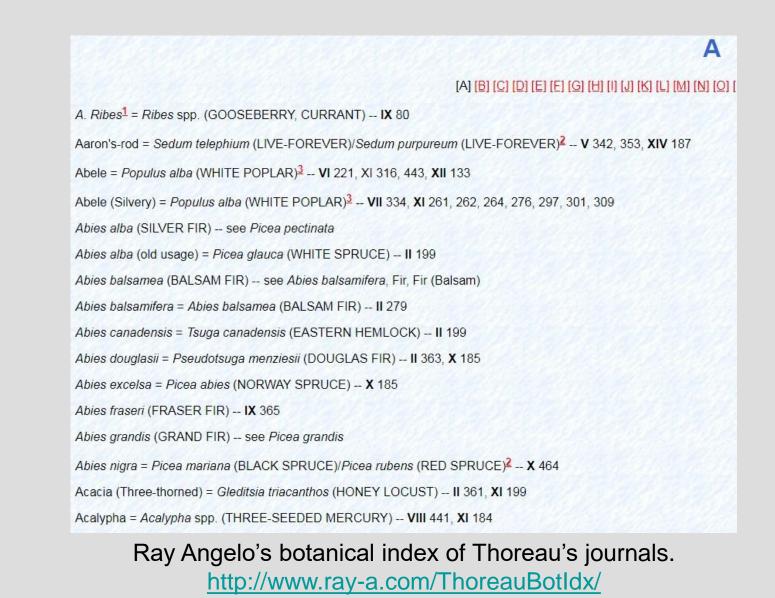




Figure 2: Current Genus by volume

