

# Proposed Sources for a Literature Review -

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## Document's Purpose

Purpose of this document is to compile and organize scholarly articles relevant to a tree phenology project centered on Denver. The articles listed below are ordered by topical relevance. Most sources were identified through a review of key highlighted references, and all are presented in APA format. Articles italicized indicate those that have already been reviewed.

## General Urban Phenology:

1. Jochner, S., & Menzel, A. (2015). Urban phenological studies – Past, present, future. *Environmental Pollution*, 203, 250–261. <https://doi.org/10.1016/j.envpol.2015.01.003>
2. (Doesn't seem related but interesting) Anderegg W R, Abatzoglou J T, Anderegg L D, Bielory L, Kinney P L and Ziska L 2021 Anthropogenic climate change is worsening North American pollen seasons *Proc. Natl Acad. Sci.* 118 e2013284118
3. Tan P Y and Ismail M R 2014 Building shade affects light environment and urban greenery in high-density residential estates in Singapore *Urban For. Urban Greening* 13 771–84
4. Elmore, A. J., Guinn, S. M., Minsley, B. J., & Richardson, A. D. (2012). Landscape controls on the timing of spring, autumn, and growing season length in mid-Atlantic forests. *Global Change Biology*, 18(2), 656–674. <https://doi.org/10.1111/j.1365-2486.2011.02521.x>

## Denver Specific Phenology/climate:

5. *Crawford, B., Kelsey, K. C., Ibsen, P. C., Rees, A., & Charobee, A. (2024). Intra-urban variations in land surface phenology in a semi-arid environment. Environmental Research Letters. <https://doi.org/10.1088/1748-9326/ad9759>*

6. Ibsen P C, Jenerette G D, Dell T, Bagstad K J and Diffendorfer J E 2022 Urban landcover differentially drives day and nighttime air temperature across a semi-arid city *Sci. Total Environ.* 829 154589
7. Ibsen P C, Crawford B R, Corro L, Bagstad K J, McNellis B E, Jenerette G D and Diffendorfer J E 2024 Urban tree cover provides consistent mitigation of extreme heat in arid but not humid cities *Sustain. Cities Soc.* 17 105677

### **Tree Phenology:**

8. Brunner, A.M., Varkonyi-Gasic, E., Jones, R.C., 2017. Phase change and phenology in trees. In: Groover, A., Cronk, Q. (Eds.), *Comparative and Evolutionary Genomics of Angiosperm Trees*. Springer International Publishing, Cham, pp. 227–274. [https://doi.org/10.1007/7397\\_2016\\_30](https://doi.org/10.1007/7397_2016_30).

### **Using Planet Scope to Study Phenoplogical Cycles/Events:**

9. Alonzo, M., Baker, M.E., Caplan, J.S., Williams, A., Elmore, A.J., 2023. *Canopy composition drives variability in urban growing season length more than the heat island effect.* *Sci. Total Environ.* 884, 163818. <https://doi.org/10.1016/j.scitotenv.2023.163818>.
10. *Sensitivity of Urban tree leaf phenology to precipitation and temperature in a Mediterranean climate city. (Yet to be published will update citation format when published).*
11. Wang, H., Gong, F.-Y., 2024. Quantifying City- and Street-Scale urban tree phenology from Landsat-8, Sentinel-2, and PlanetScope images: a case study in downtown Beijing. *Remote Sens* 16, 2351. <https://doi.org/10.3390/rs16132351>.
12. Pan, B., Xiao, X., Luo, S., Pan, L., Yao, Y., Zhang, C., Meng, C., Qin, Y., 2025. Identify and track White flower and leaf phenology of deciduous broadleaf trees in spring with time series PlanetScope images. *ISPRS J. Photogramm. Remote Sens* 226, 127–145. <https://doi.org/10.1016/j.isprsjprs.2025.05.013>.

### **Effects of Climate Change on Phenology**

13. Richardson, A.D., Keenan, T.F., Migliavacca, M., Ryu, Y., Sonnentag, O., Toomey, M., 2013. Climate change, phenology, and phenological control of vegetation feedbacks to the climate system. *Agric. For. Meteorol.* 169, 156–173. <https://doi.org/10.1016/j.agrformet.2012.09.012>.
14. Chamberlain C J and Wolkovich E M 2021 Late spring freezes coupled with warming winters alter temperate tree phenology and growth *New Phytol.* 231 987–95

## Heat Islands

15. Ziter, C.D., Pedersen, E.J., Kucharik, C.J., Turner, M.G., 2019. Scale-dependent interactions between tree canopy cover and impervious surfaces reduce daytime urban heat during summer. *Proc. Natl. Acad. Sci.* 116, 7575–7580. <https://doi.org/10.1073/pnas.1817561116>.

## Deriving Phenological Events and Cycles

16. Bolton, D.K., Gray, J.M., Melaas, E.K., Moon, M., Eklundh, L., Friedl, M.A., 2020. Continental-scale land surface phenology from harmonized landsat 8 and Sentinel-2 imagery. *Remote Sens. Environ.* 240, 111685. <https://doi.org/10.1016/>
17. Kong, D., McVicar, T. R., Xiao, M., Zhang, Y., Peña-Arancibia, J. L., Filippa, G., Xie, Y., & Gu, X. (2022). *phenofit : An R package for extracting vegetation phenology from time series remote sensing. Methods in Ecology and Evolution*, 13(7), 1508–1527. <https://doi.org/10.1111/2041-210x.13870>
18. Kong, D., Zhang, Y., Wang, D., Chen, J., & Gu, X. (2020). Photoperiod explains the asynchronization between vegetation carbon phenology and vegetation greenness phenology. *Journal of Geophysical Research: Biogeosciences*, 125(8), e2020JG005636. <https://doi.org/10.1029/2020JG005636> **Note: Selecting the correct phenology extractinon method based on research purposed. i.e. should the inflection point method be used to calculate SOS and EOS dates.**

## Remote Sensing Applications

19. Furby, S.L., Campbell, N.A., 2001. Calibrating images from different dates to ‘like-value’ digital counts. *Remote Sens. Environ.* 77, 186–196. [https://doi.org/10.1016/S0034-4257\(01\)00205-X](https://doi.org/10.1016/S0034-4257(01)00205-X).

## Machine Learning Applications in Phenological Models

20. Dai, W., Jin, H., Zhang, Y., Liu, T., & Zhou, Z. (2019). Detecting temporal changes in the temperature sensitivity of spring phenology with global warming: Application of machine learning in phenological model. *Agricultural and Forest Meteorology*, 279, 107702. <https://doi.org/10.1016/j.agrformet.2019.107702>