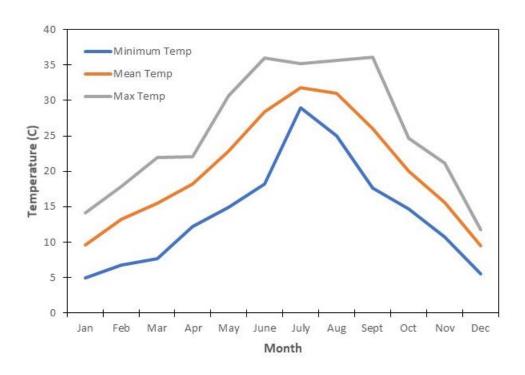
## Annals of Botany

## Seasonal patterns of increases in stem girth, vessel development, and hydraulic function in deciduous tree species

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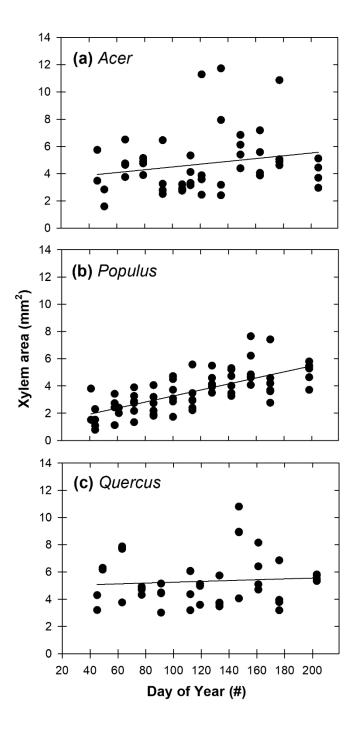
## **Supplemental Figures and Tables**



**Figure S1.** Weather data for the study period (2017), with the minimum, mean, and maximum temperature for each month.

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**Figure S2.** Xylem area of distal branches that were sampled throughout the growing season. Each point represents a single branch on the calendar day that it was harvested. Branches were selected to be of similar initial diameter at the start of the season. Branch size increased in all species, although there was variability between branches and species in the amount of xylem produced.

**Table S1.** Timing of new vessel formation and hydraulic activity (staining) of new vessels for three deciduous species grown in a common garden, with mean day (lower and upper 95% confidence intervals are included parenthetically) of 10% (D10), 50% (D50), and 90% (D90) of new vessels formed or new vessels stained, measured on distal branches. All data are from 2017. Dates are reported as the calendar day of the year, with the Month and Day of the mean date reported below for reference. The number of branches (n) that were measured is included.

Species	n	New mature vessels			Stained new vessels		
		D10	D50	D90	D10	D50	D90
Acer	48	84	118	151	N/A	N/A	N/A
Псет	70	(50-110) March 25	(108-167) April 27	(110-309) May 31	14/71	14/71	14/71
Populus	66	122 (87-137) May 2	133 (128-148) May 13	140 (136-208) May 20	122 (86-137) May 2	133 (127-146) May 13	140 (136-198) May 20
Quercus	44	62 (40-112) March 3	109 (93-132) April 19	157 (93-225) June 6	74 (33-118) March 15	106 (88-136) April 16	134 (90-250) May 14