

Supporting Information for: Ecological drivers of flower-leaf  
sequences: aridity and pollination success select for flowering-first in  
insect-pollinated temperate trees

**Tables**

	species	n
1	alleghaniensis	17
2	americana	97
3	angustifolia	78
4	gracilis	86
5	hortulana	106
6	maritima	76
7	mexicana	64
8	munsoniana	118
9	nigra	119
10	rivularis	112
11	subcordata	46
12	texana	20
13	umbellata	70

Table S1: Sample size

model variable	classification	Hysteranthous if	Estimate	Est.Error	Q2.5	Q25	Q75	Q97.5
mean PDSI	main	50% fl. lik. w/ BBCH 0 & 09	-0.04	0.02	-0.08	-0.06	-0.03	0.00
mean PDSI	alternate 1	25% fl. lik. w/ BBCH 0	-0.04	0.02	-0.08	-0.05	-0.02	0.01
mean PDSI	alternate 2	40% fl. lik. w/ BBCH 0 & 09	-0.04	0.02	-0.08	-0.05	-0.02	0.01
petal length	main	50% fl. lik. w/ BBCH 0 & 09	-0.21	0.26	-0.75	-0.38	-0.05	0.30
petal length	alternate 1	25% fl. lik. w/ BBCH 0	-0.15	0.28	-0.71	-0.33	0.03	0.40
petal length	alternate 2	40% fl. lik. w/ BBCH 0 & 09	-0.25	0.26	-0.77	-0.42	-0.09	0.25
fruit diameter	main	50% fl. lik. w/ BBCH 0 & 09	-1.41	0.91	-3.18	-2.00	-0.84	0.39
fruit diameter	alternate 1	25% fl. lik. w/ BBCH 0	-1.76	0.90	-3.50	-2.34	-1.22	0.08
fruit diameter	alternate 2	40% fl. lik. w/ BBCH 0 & 09	-1.80	0.89	-3.56	-2.38	-1.24	-0.05

Table S2: Estimates of the relationship between the hysternathy index and traits for three alternative models based on different classification schemes of the hysternathy index. In the table, “fl. lik.” is short for *flowering likelihood*, and “Q” for quantile representing the predicted uncertainty intervals of our model estimates

# Figures

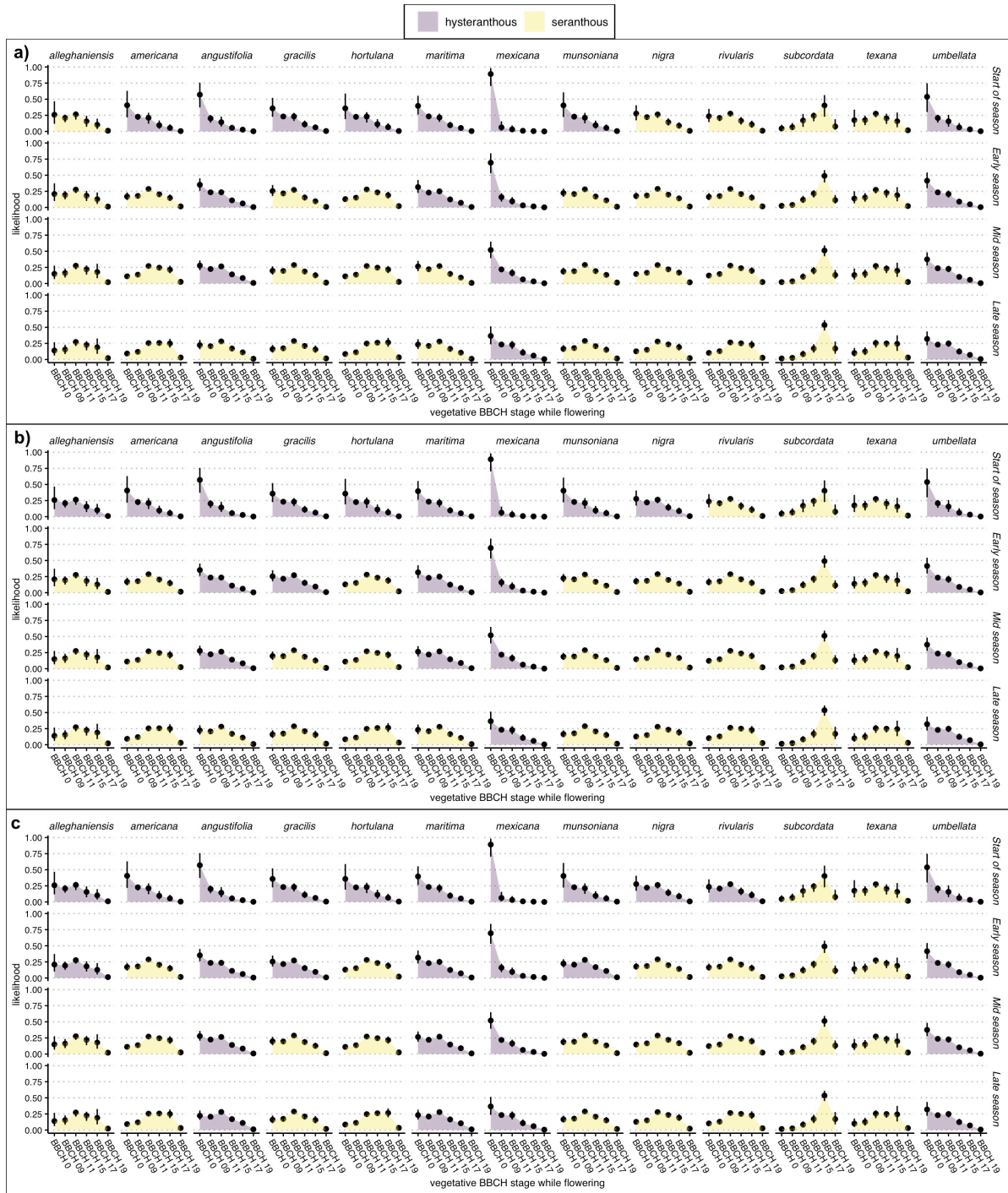


Figure S1: Predicted likelihood that a species would be in flower during each vegetative BBCH phase. Points show the mean likelihood while the bar represents the 95% uncertainty intervals. In a) species were classified as *hysteranthous* if greater than 50% probability flowering occurred in BBCH 0 and BBCH 09 (colors) for each part of the flowering season. In b) species were classified as *hysteranthous* if greater than 25% probability flowering occurred in BBCH 0 for each part of the flowering season. In c) species were classified as *hysteranthous* if greater than 40% probability flowering occurred in BBCH 0 and BBCH 09 for each part of the flowering season.