A picture containing text, white

Description automatically generated

Supplementary figure 1. Relationship between precipitation and mean temperature for the duration of this experiment. Fit line is a penalized cubic spline ± 95% confidence interval.

Concurvity

We fit a GAM for shoot growth using both cross-basis smooths for precipitation and temperature as predictors along with co-variates of days post harvest and stem diameter with random effects of harvest and plant ID. We then checked for concurvity with the concurvity() function in the mgcv package. Concurvity is calculated with three different indices. For the temperature cross-basis, the “worst” index was 1, the “observed” index was 0.81, and the “estimate” index was 0.82. For precipitation, the “worst” index was 1, the “observed” index was 0.96, and the “estimate” index was 0.98. Inspecting pairwise concurvity showed that precipitation had high concurvity with temperature (worst = 0.99, observed = 0.94, estimate = 0.97).