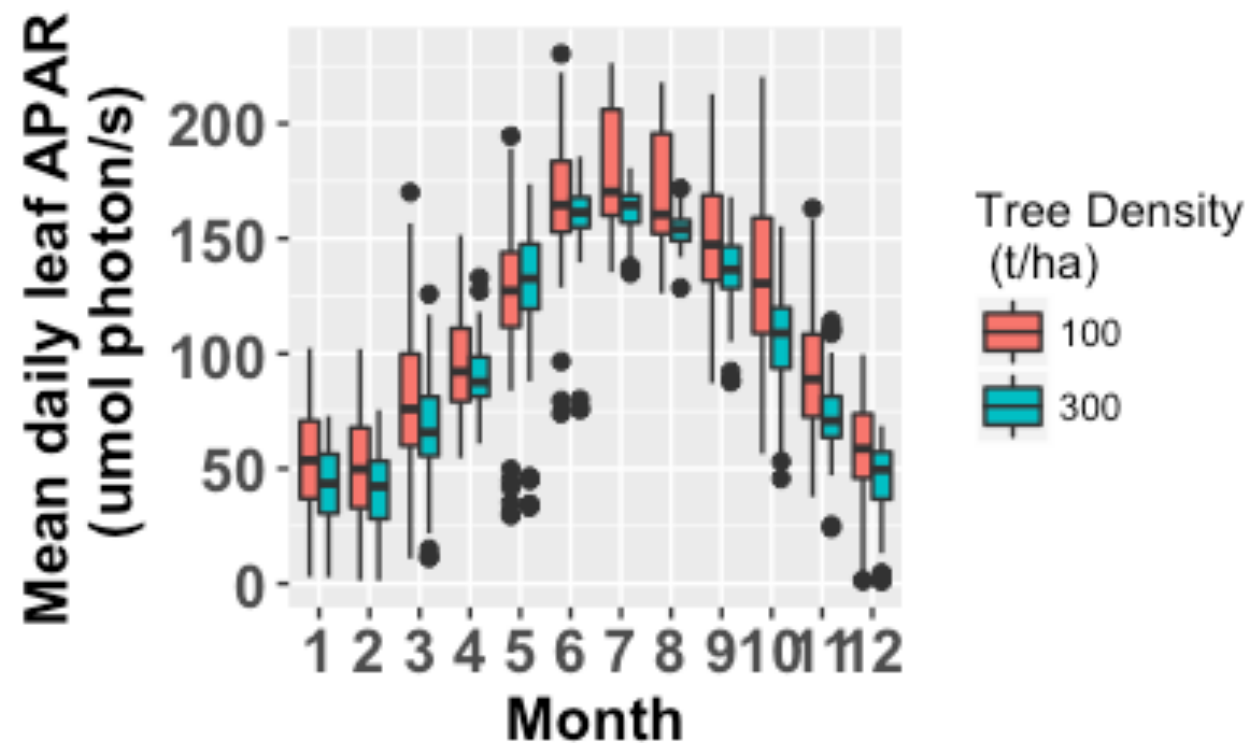


**Empirical results show a trade off such that thinning doesn't increase water yield - Evaporation increase balance transpiration decreases**

**Can we use the model to see if this generalizes through time (filling in the gaps) and across a broader range of climate forcing (beyond the 2 years of measurements)**

# RHESSys estimates - consistent with hypothesis - radiation effect



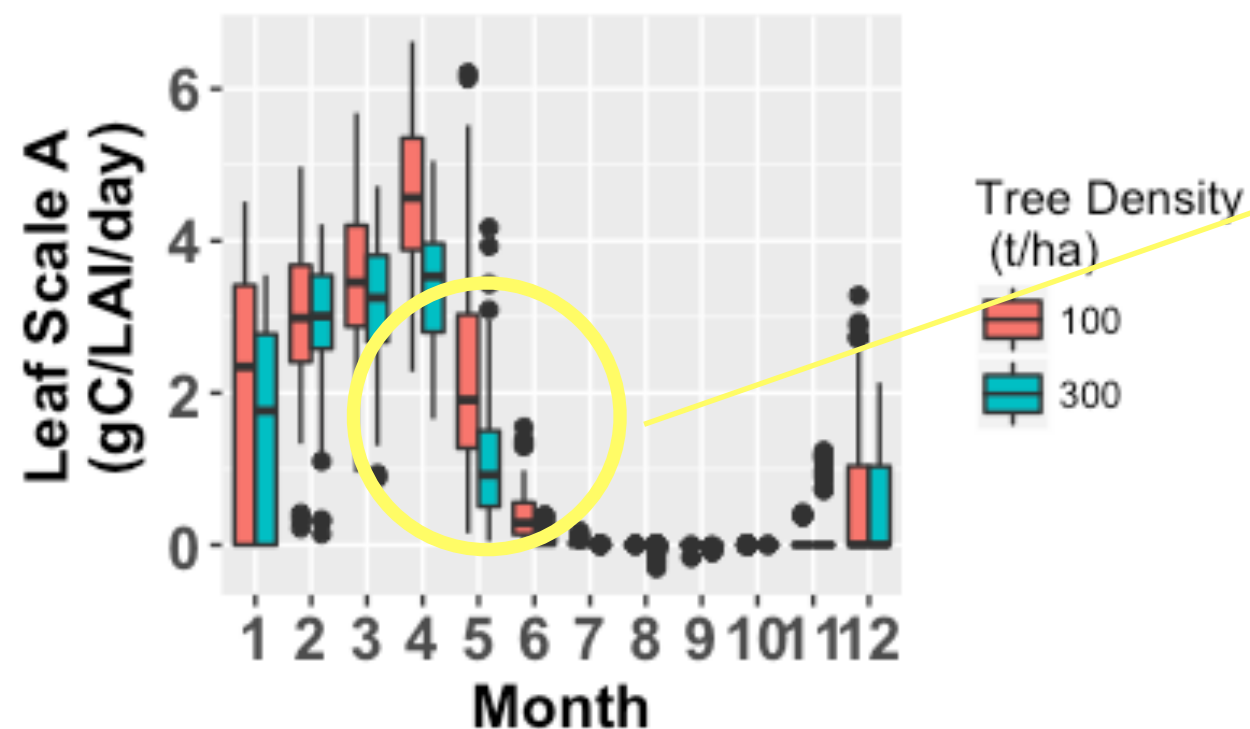
RHESSys estimates also show that with thinning (100 vs 300)

Consistent with measurements

- \* greater PAR
- \* greater leaf scale assimilation

And

- \* reduced water limitation in May (5) and June(6) - ASSUMES adjacent trees share water



~ 40% mean gain in mean annual leaf scale assimilation (A)  
Observed - 10 days ~ 60%