Project Description

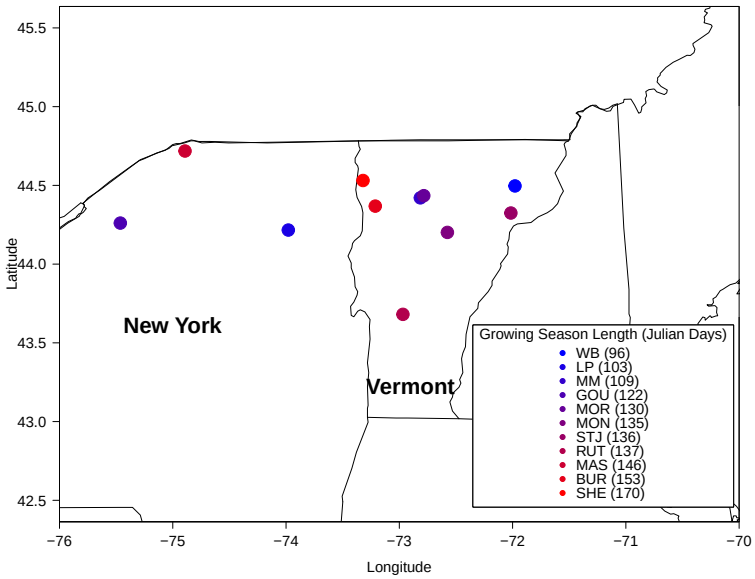

Figure 1: 11 sites vary in their growing season length (Julian Days) with very similar climate in New York and Vermont.

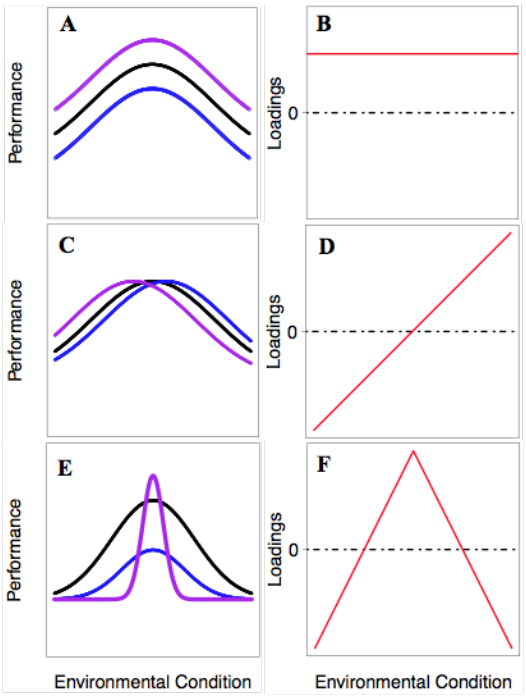

Figure 2: Predictions for the outcome of common garden experiment which vary in growing season length.

Table 1: Time table of yearly goals

Task	2017	2018	2019	2020
1) Common Garden/Field	Set up field sites: Take 50 clones and plant 5 replicates across each common garden	Phenotype phenology, stress resistance and woody biomass production		
2) Genomic Analyses		Initiate QTL mapping of phenotypes		Complete QTL mapping of phenotypes
3) Attend Conferences			Present poster at Evolution and MBE	Present talk at Evolution and MBE
4) Manuscripts		Write methods	Write methods and results	Finish manuscript and submit
5) Mentoring	Develop projects with 2-3 undergraduate researchers under same common garden	Aide undergraduate researchers to implement developed projects	Aide in writing up findings	Submit manuscripts with undergraduate researchers as primary authors
6) Public Outreach	Set up 1 common garden with high school students	Involve high school students in phenotyping	Involve high school students in phenotyping	Involve high school students in phenotyping
7) Data Management	Initiate project and share on Github	Utilize github repository to track progress and back up data		^