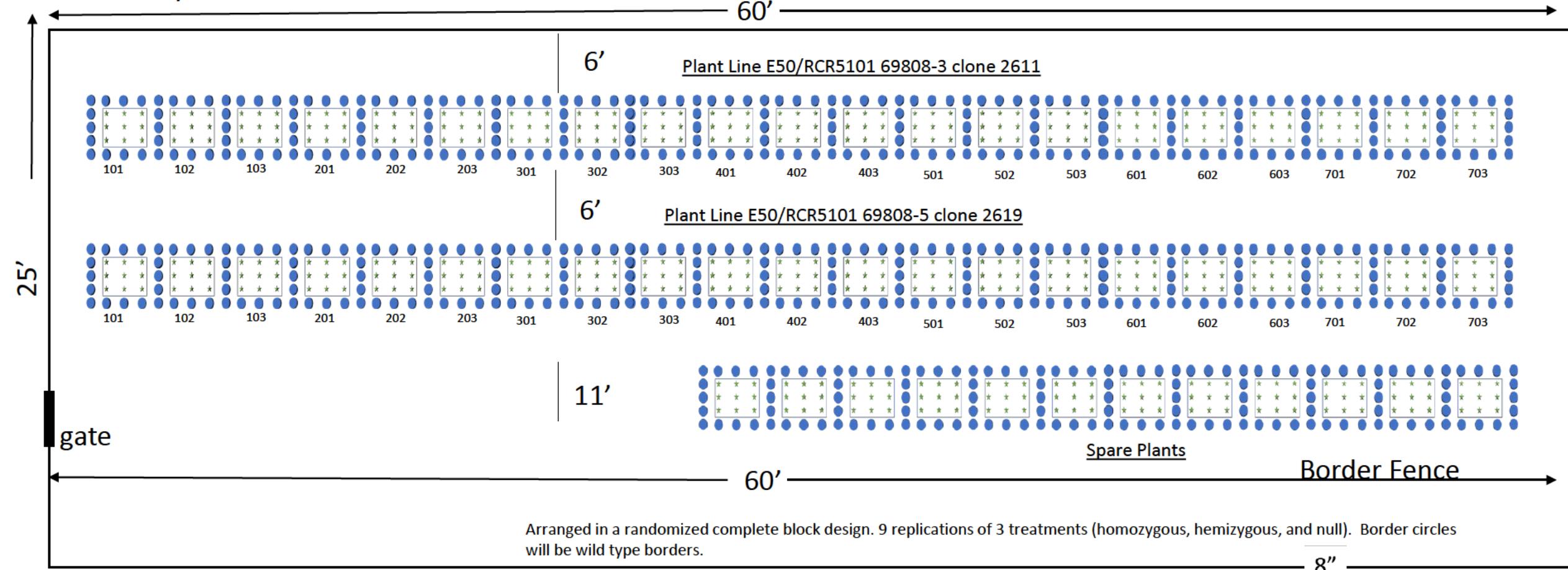


Science Update

- Field Trial Update + Nutritional Composition
- s9(2)(i) [REDACTED]

Field Trial Update

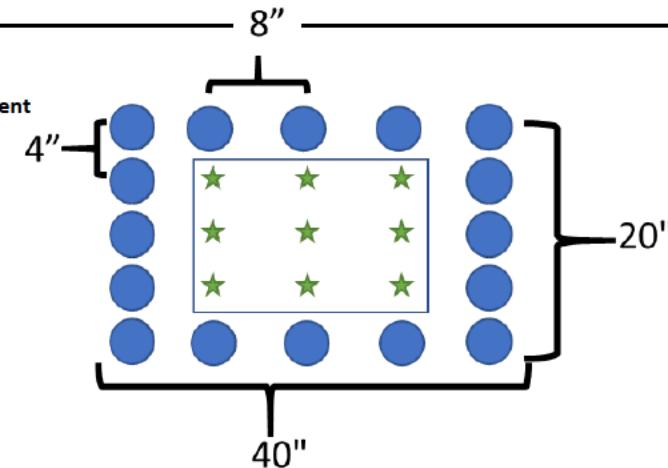
Field Trial Layout 2021



= WT

= null or transgenic in a mini-sward arrangement

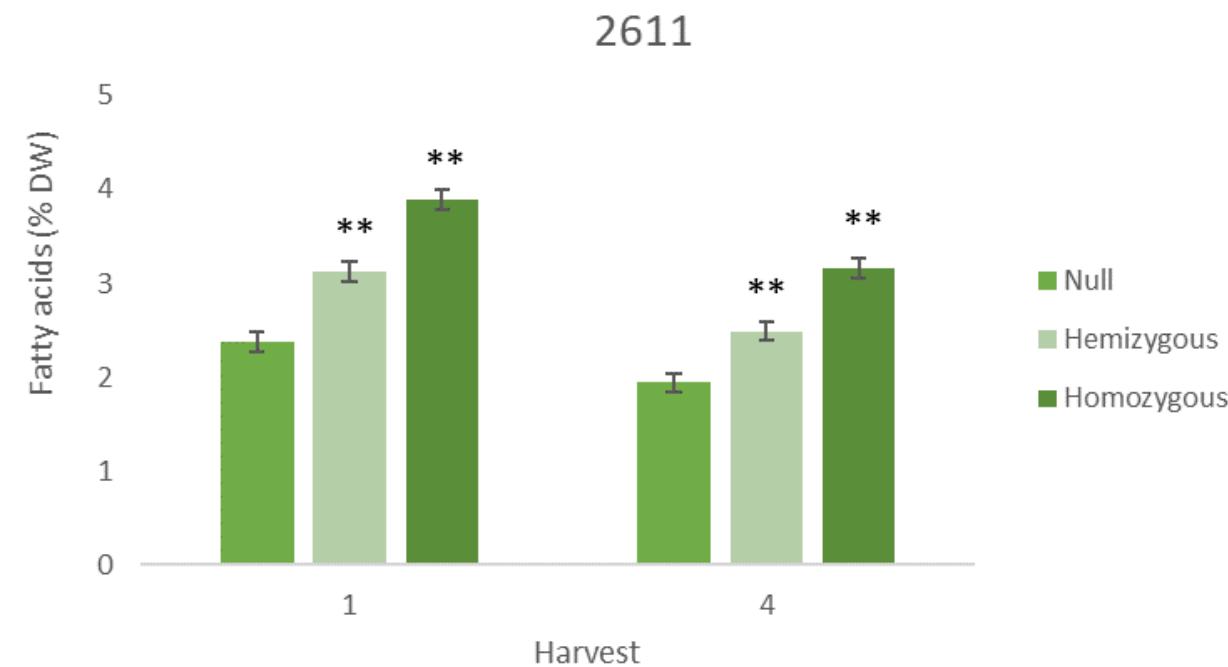
Line	Null GH FA (%DW)	Hemi GH FA (%DW)	Homo GH FA (%DW)
E50/RCR5101 2611	4.4	5.6	6.8
E50/RCR5101 2619	4.4	5.4	6.6



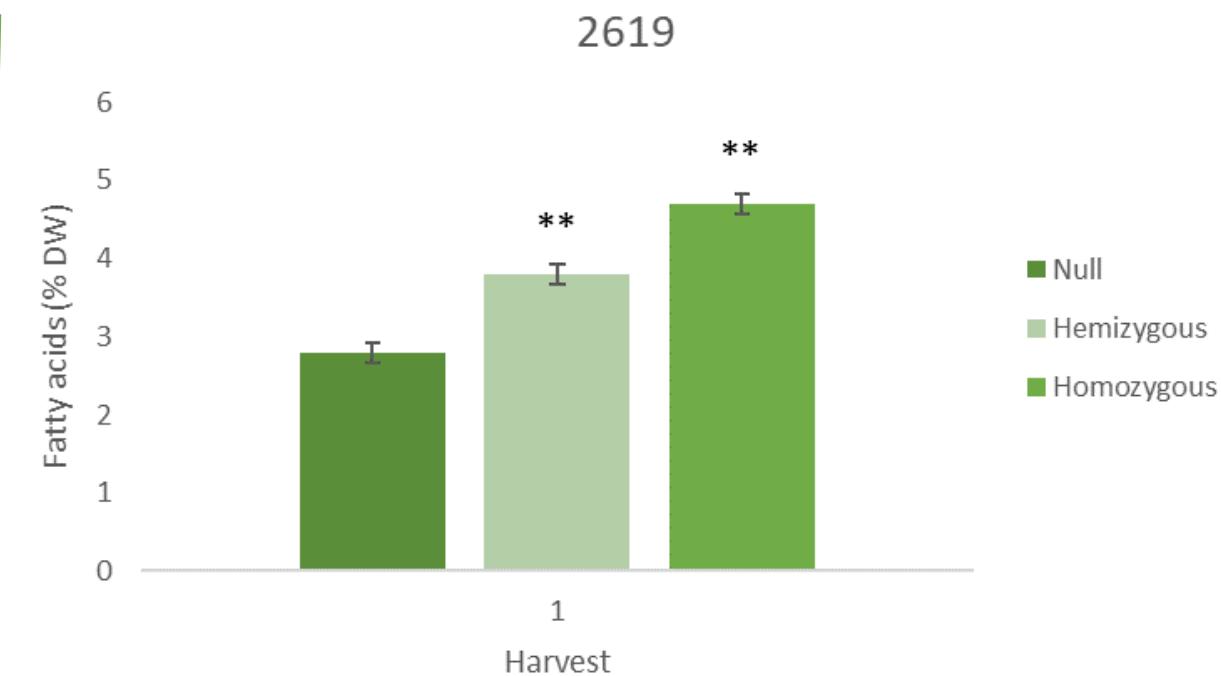
+ 0.5 kJ gDW⁻¹ GE

GE increase tbc. Estimated up to 1 kJ gDW⁻¹

2021 Field Trial Fatty Acids



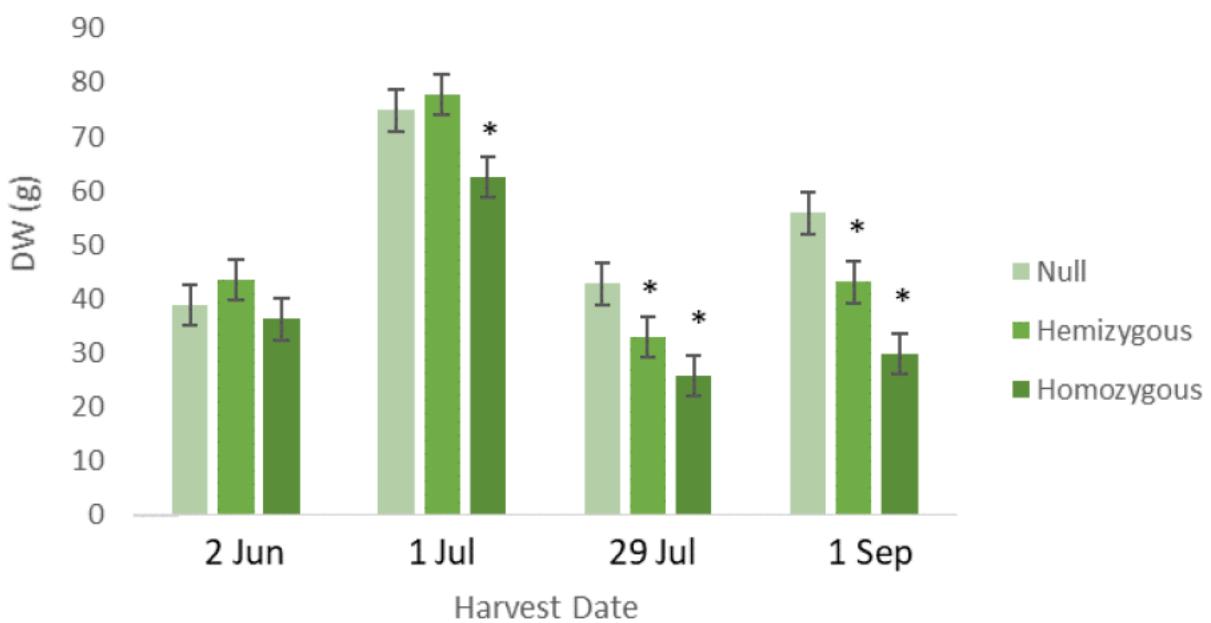
Hemi 29% increase = 0.7 point delta
 Homo 62% increase = 1.5 point delta



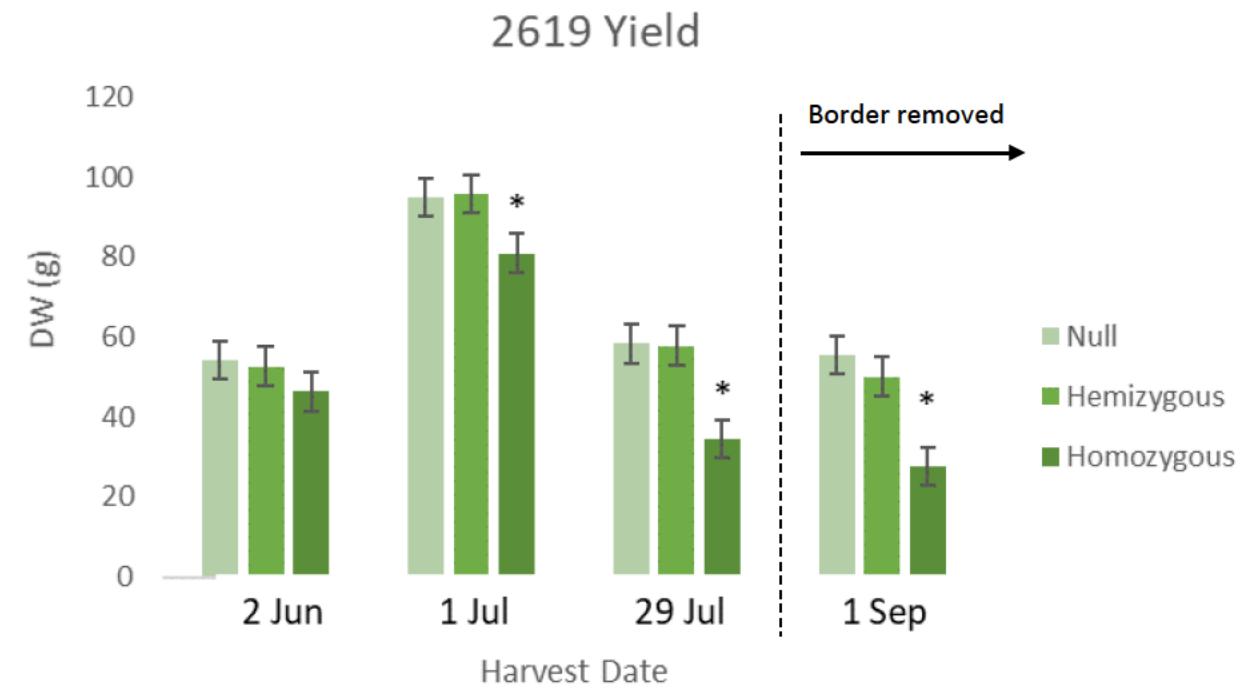
Hemi 36% increase = 1 point delta
 Homo 68% increase = 1.9 point delta

2021 Field Trial Yield

2611 Yield

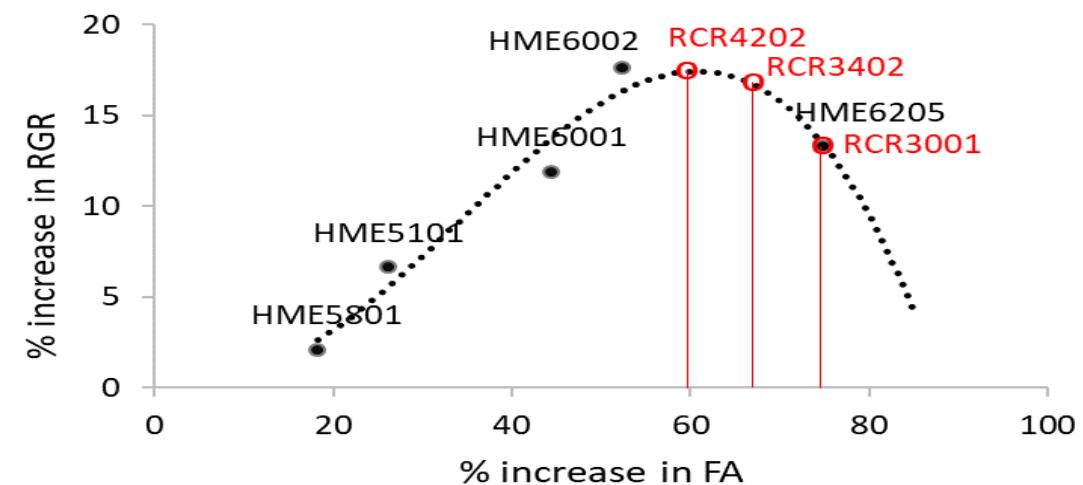


2619 Yield

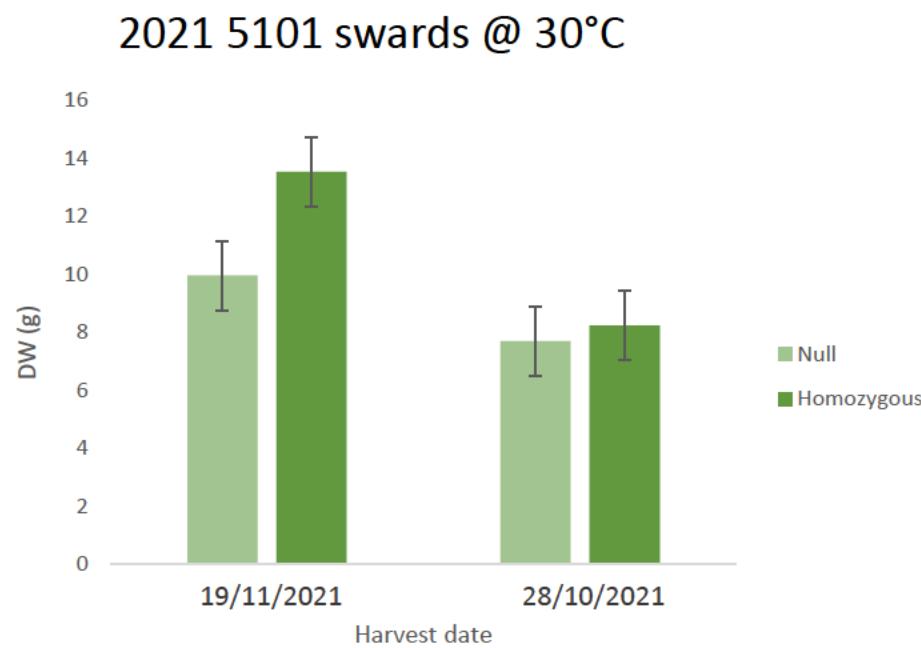


Possible Causes of Yield Penalty

- RCR5101 Event causes gene disruption?
- Overshoot ideal expression window?
- E50 background – genetic background?
- Border Effect x/?
- Heat Effect x



Heat Stress Experiment in Controlled Environment



Nutritional Composition

- Harvest
- Perform Digestible Energy Analysis
- Planning meeting next week

Four pages removed under s9(2)(i)