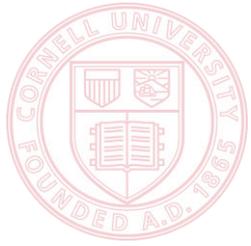


Three things

Thomas Björkman
Department of Horticulture
Cornell University



Buckwheat stands

No gaps over 8 inches

Ground cover at 18 d



5 weeks

4 w

14 inch gap





Small grains

Can inhibit vegetable growth

If killed at boot stage

Cause is *not* N shortage
or allelopathy

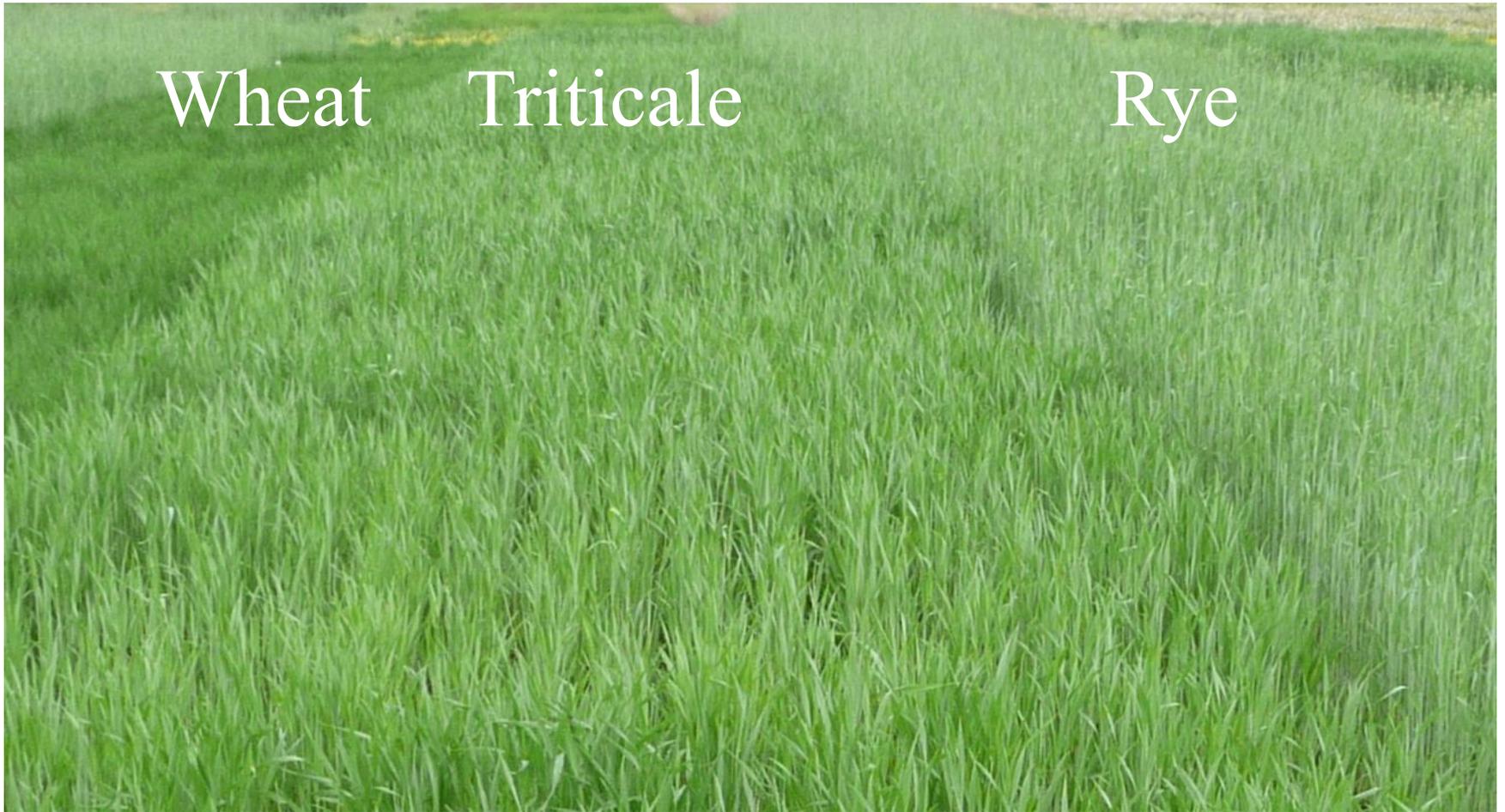


Small grains

Wheat

Triticale

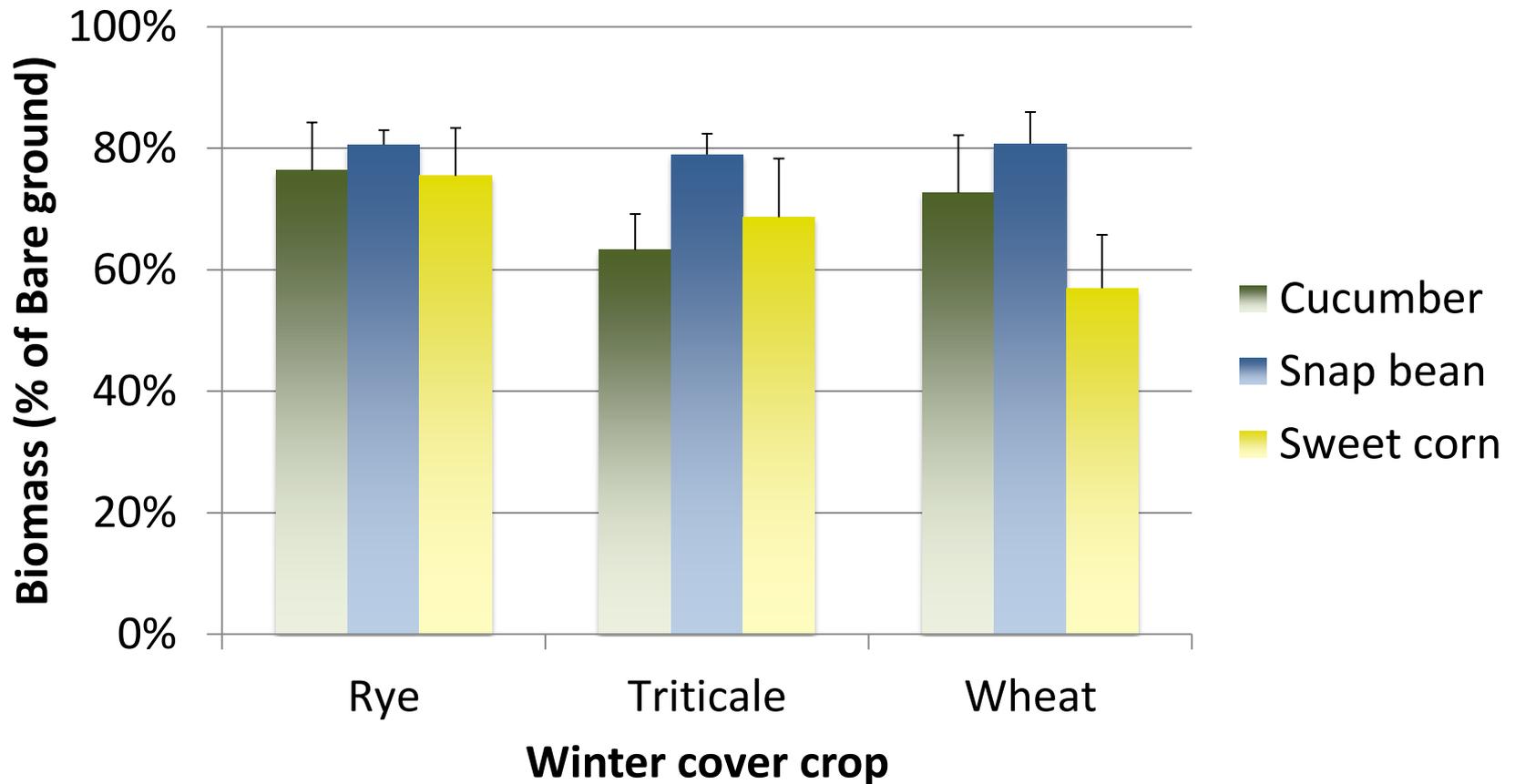
Rye

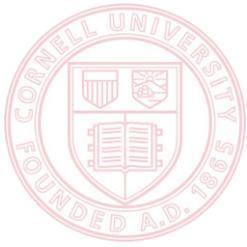




Headed grain effect

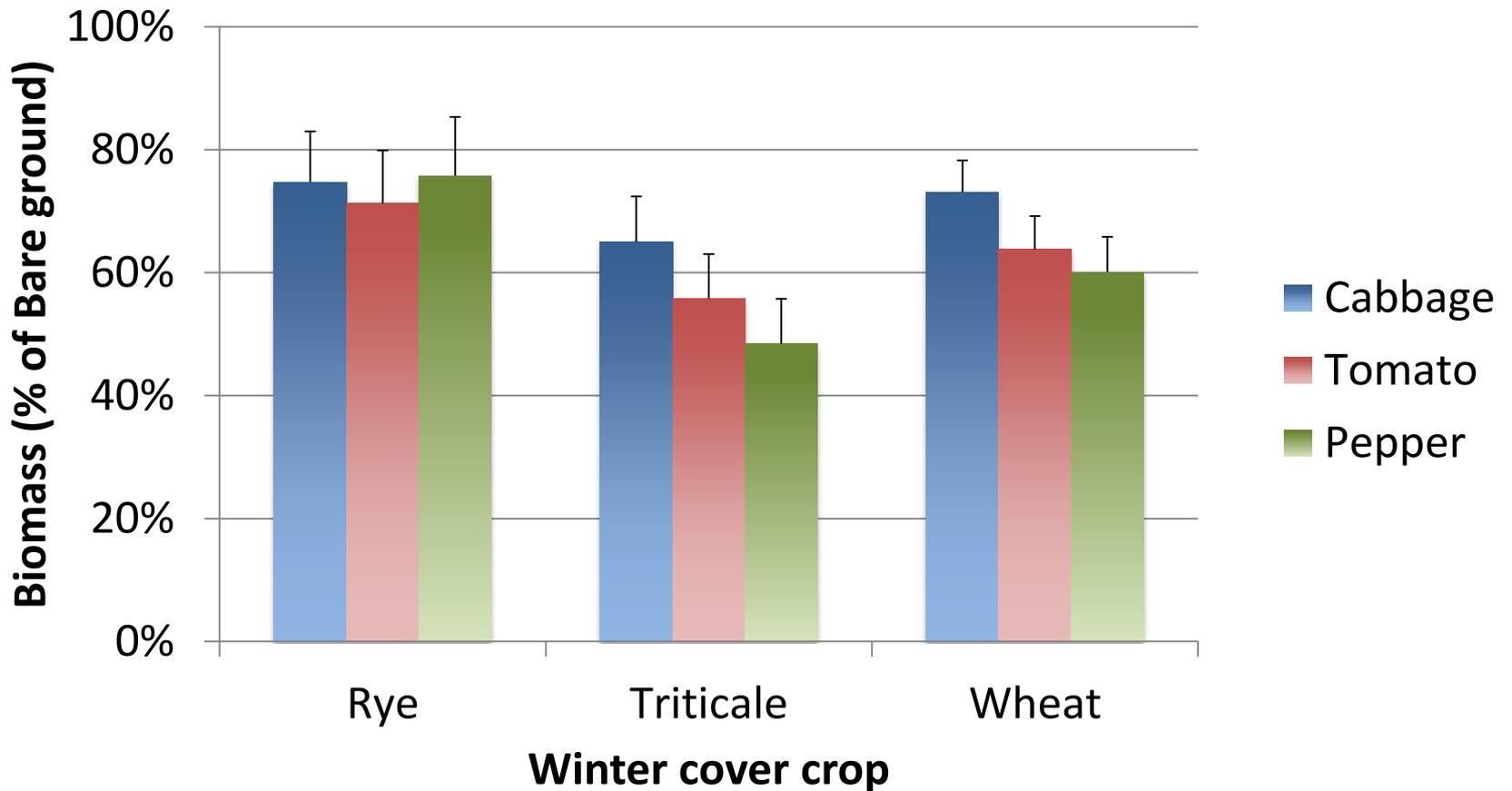
Direct-seeded vegetables after grains





Headed grain effect

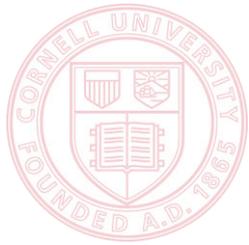
Transplanted vegetables after grains





Keys to success

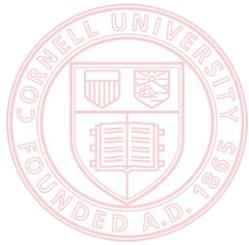
- Fast start
- No gaps
- Kill on time



Winter Hardiness

- Tiny plants frost heave
- Rosettes are hardy
- Bolted and swollen parts are less hardy

Choose variety, date, fertility to get survival you need.

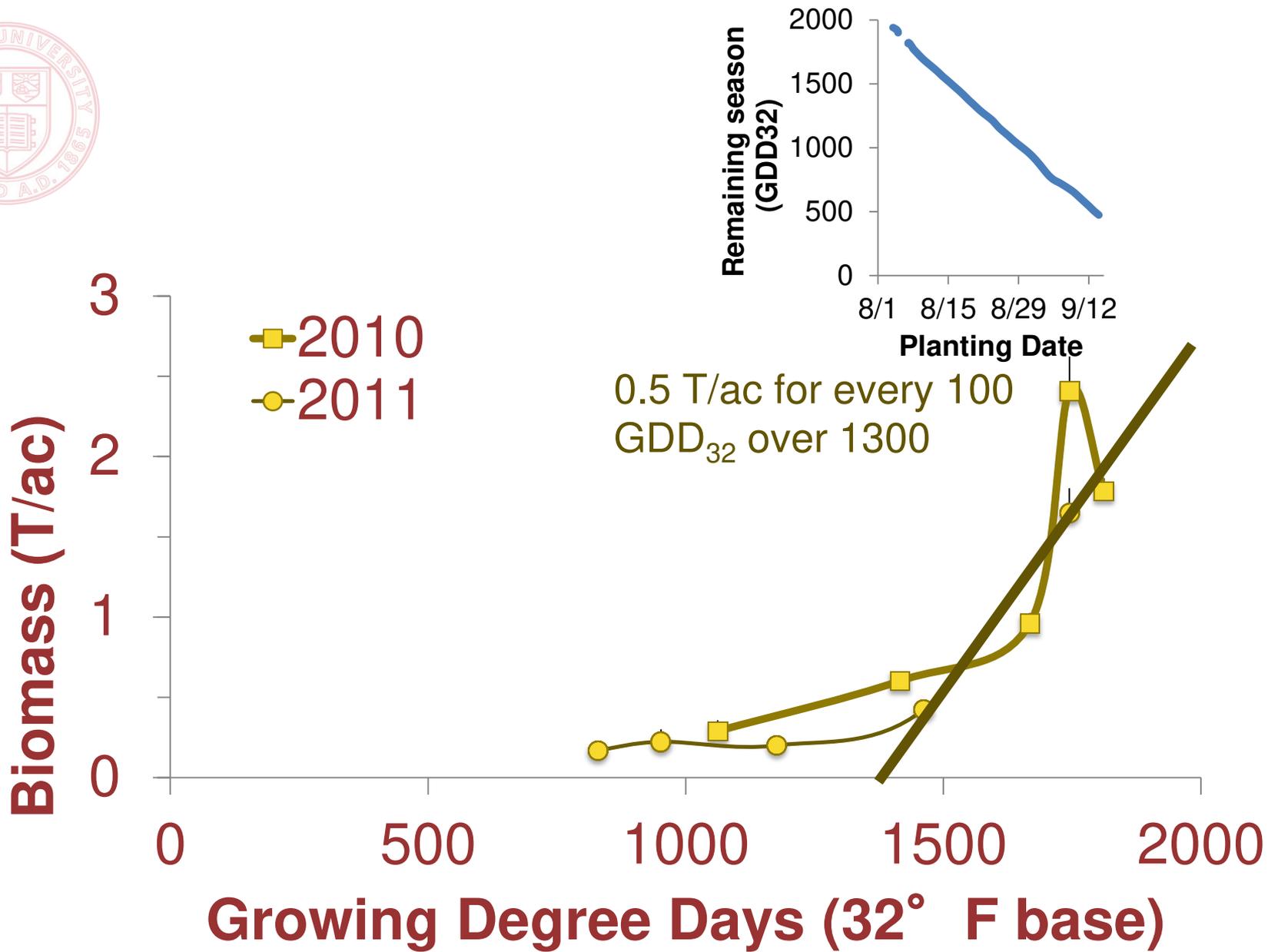
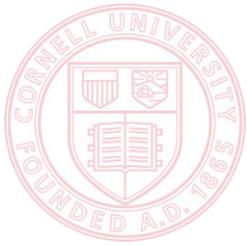


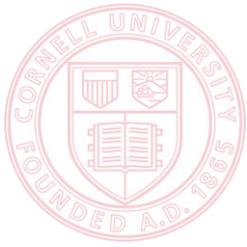
Fall crucifers

Don't plant too late

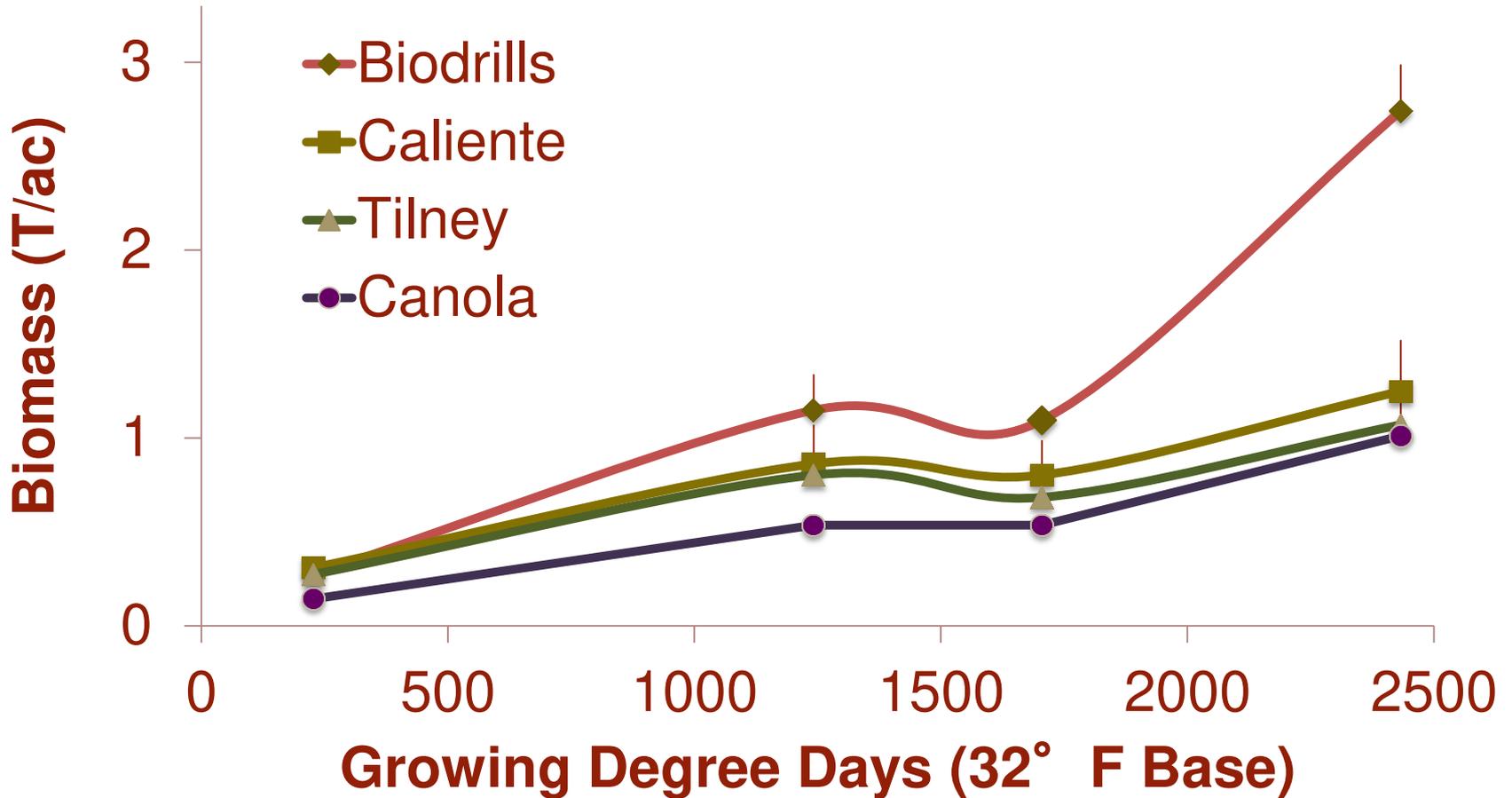
Mid August for north side of Lake Erie

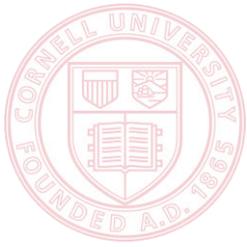
Or 1600 GDD_{32F} left in season



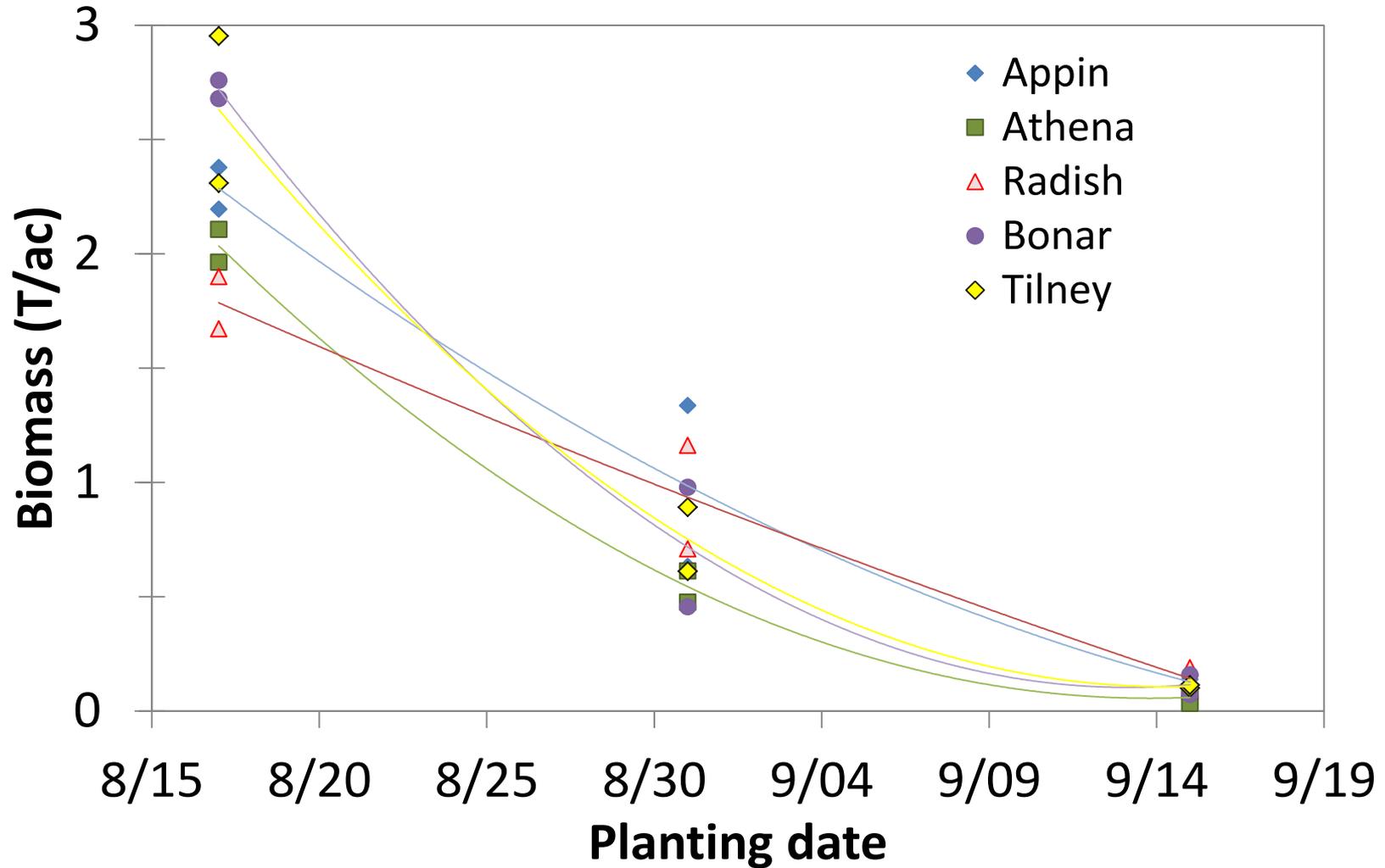


Cold hardiness does not change the story





Same date with cold hardy





Don't wait to plant



Yellow mustard



Winter canola





Wichita fertility

