

Dynamics of triticale growth and quality during the season

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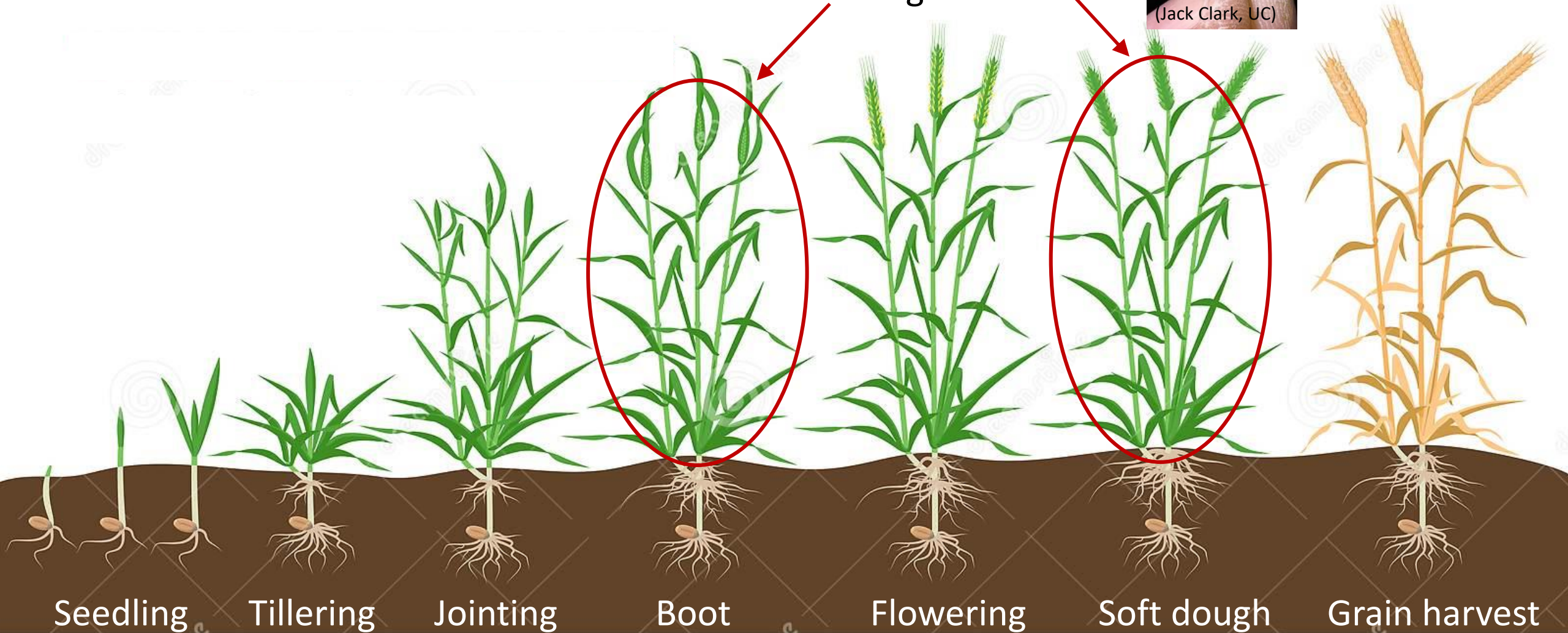
What is triticale?

- Winter cereal
 - Barley
 - Oats
 - Rye
 - Triticale
 - Wheat
- Wheat x rye hybrid
- Used for forage



Major growth stages

Forage harvest

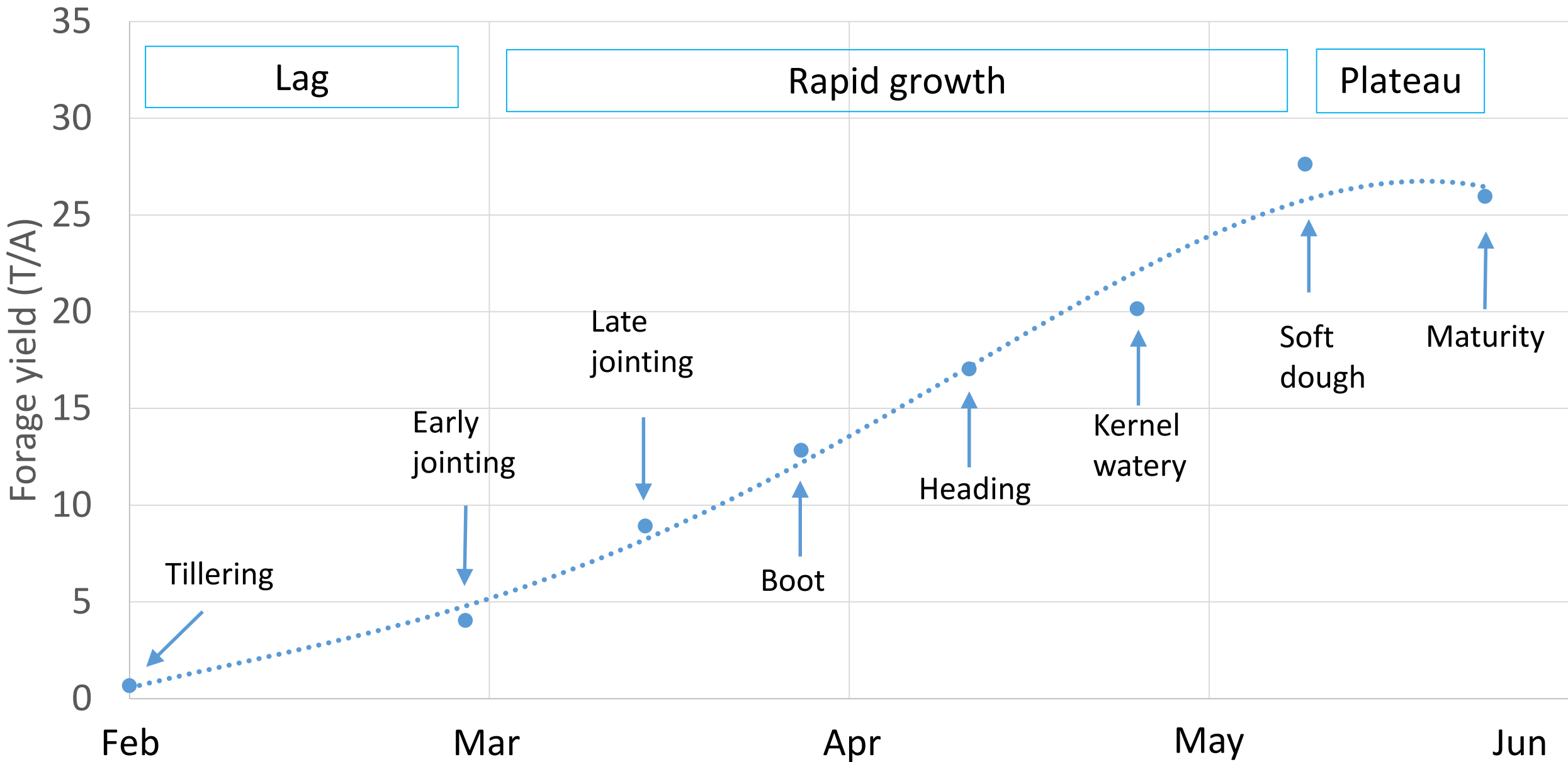


Triticale study

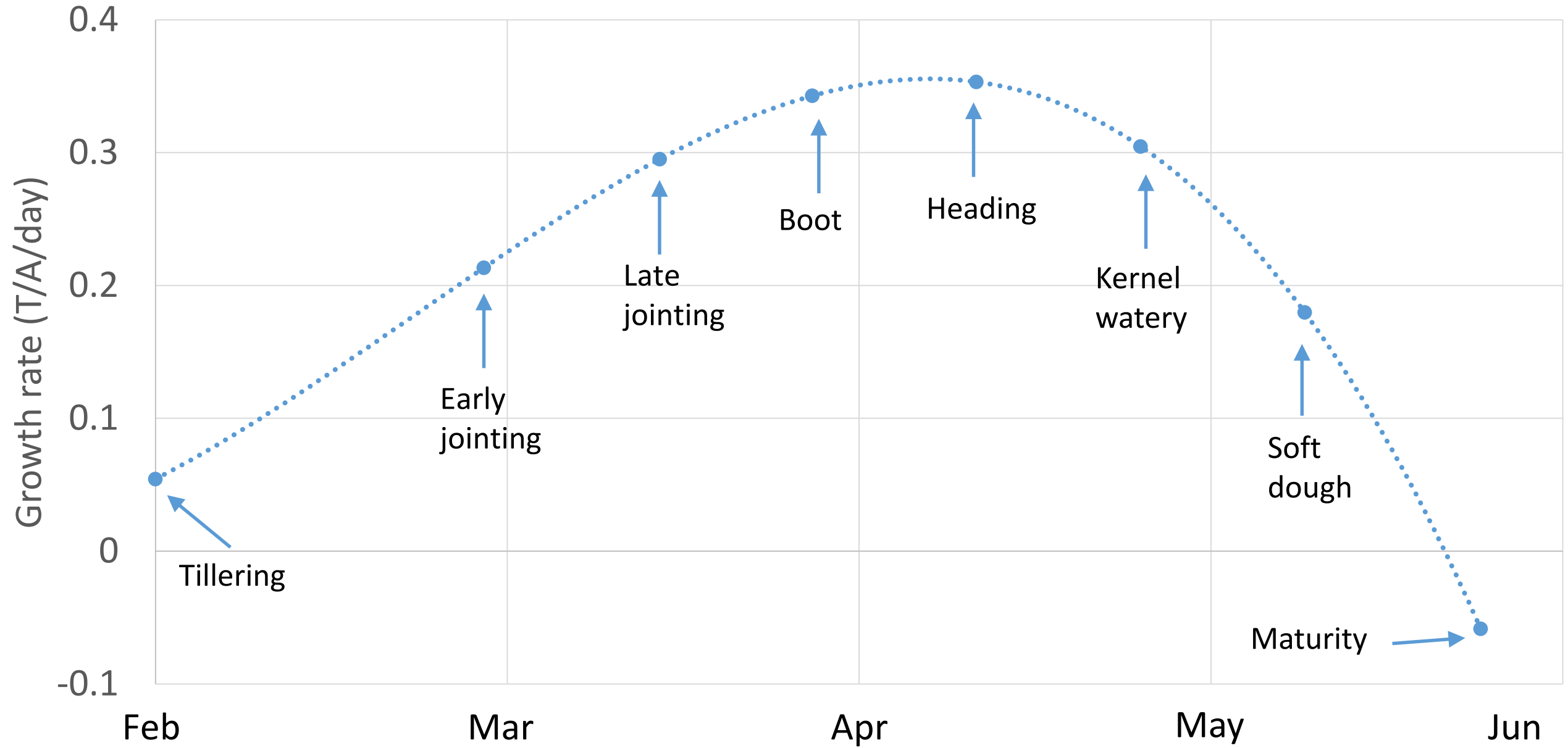
- Maricopa Ag Center
- Planted Dec 18, 2019
- 14 varieties
- Measure yield and quality at 7 harvest dates
- Compare average of varieties over time



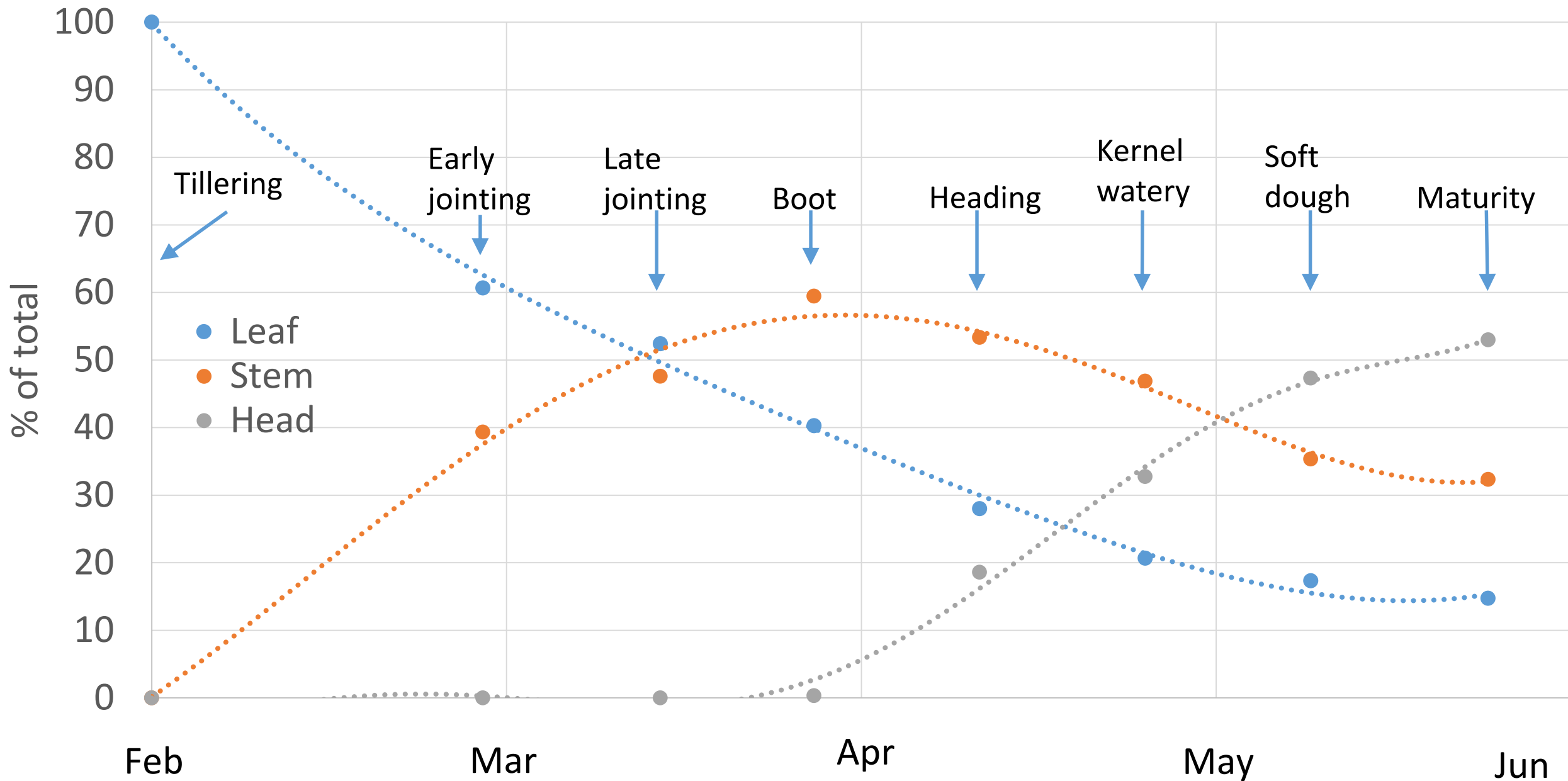
Forage yield



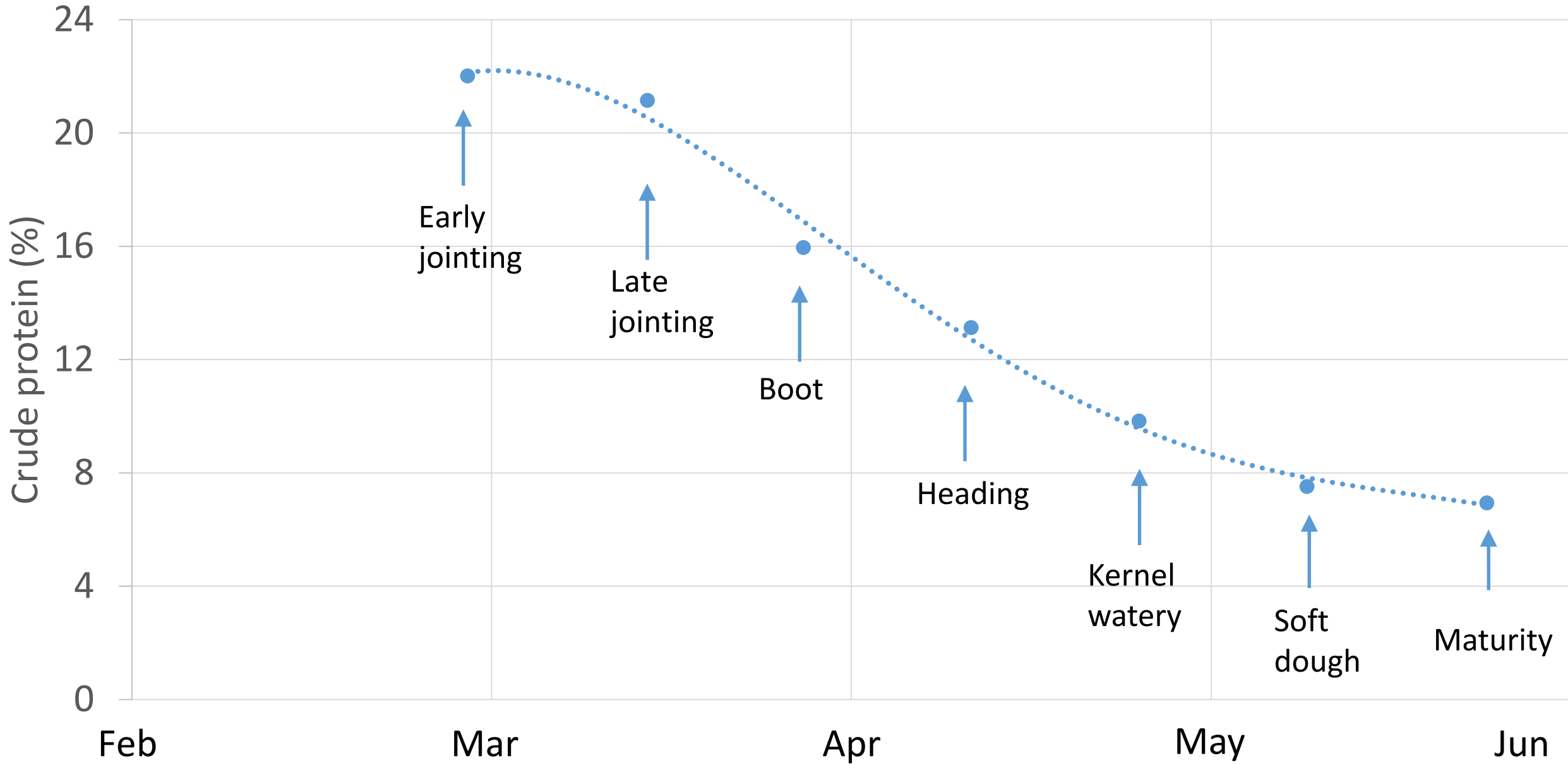
Growth rate



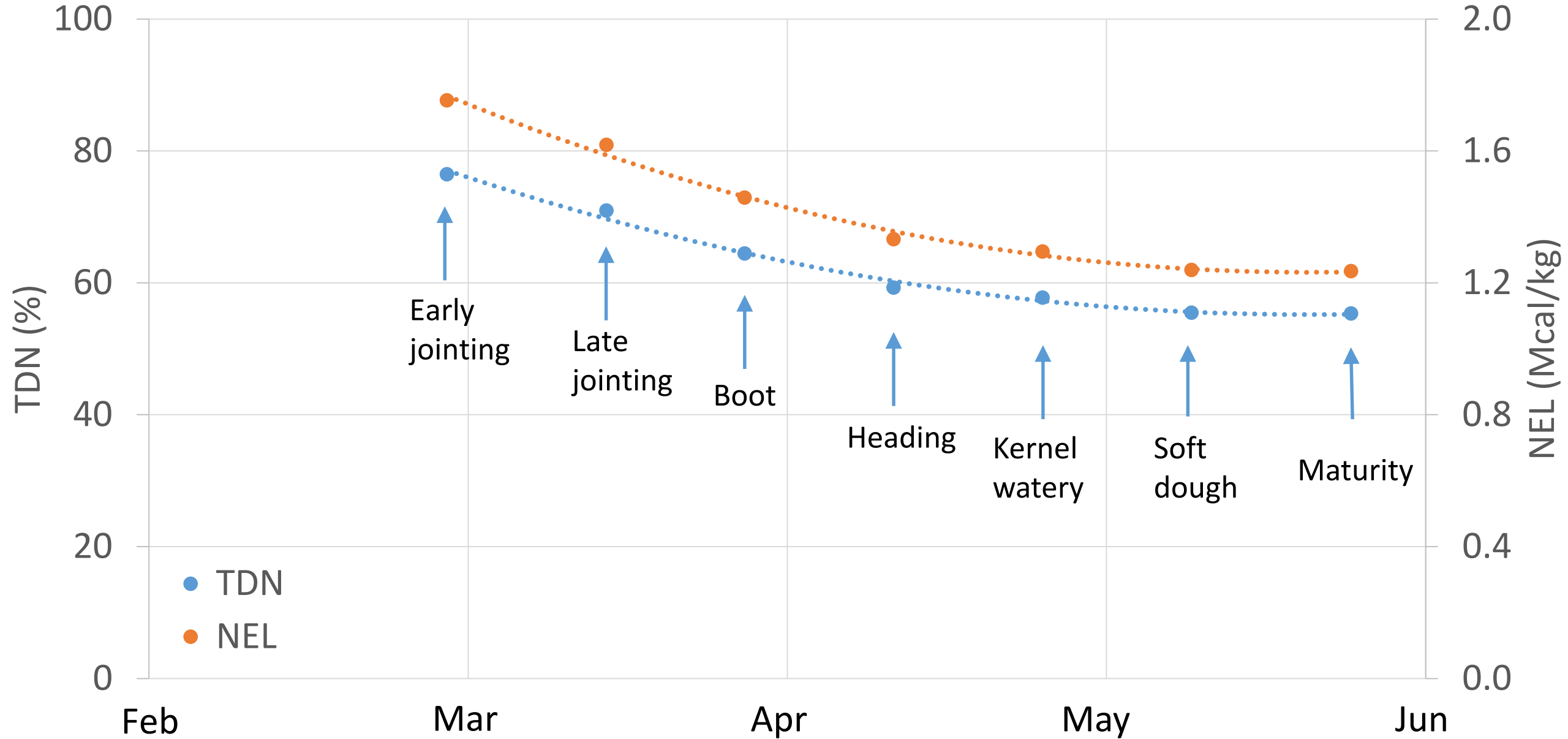
Leaf, stem, and head proportion



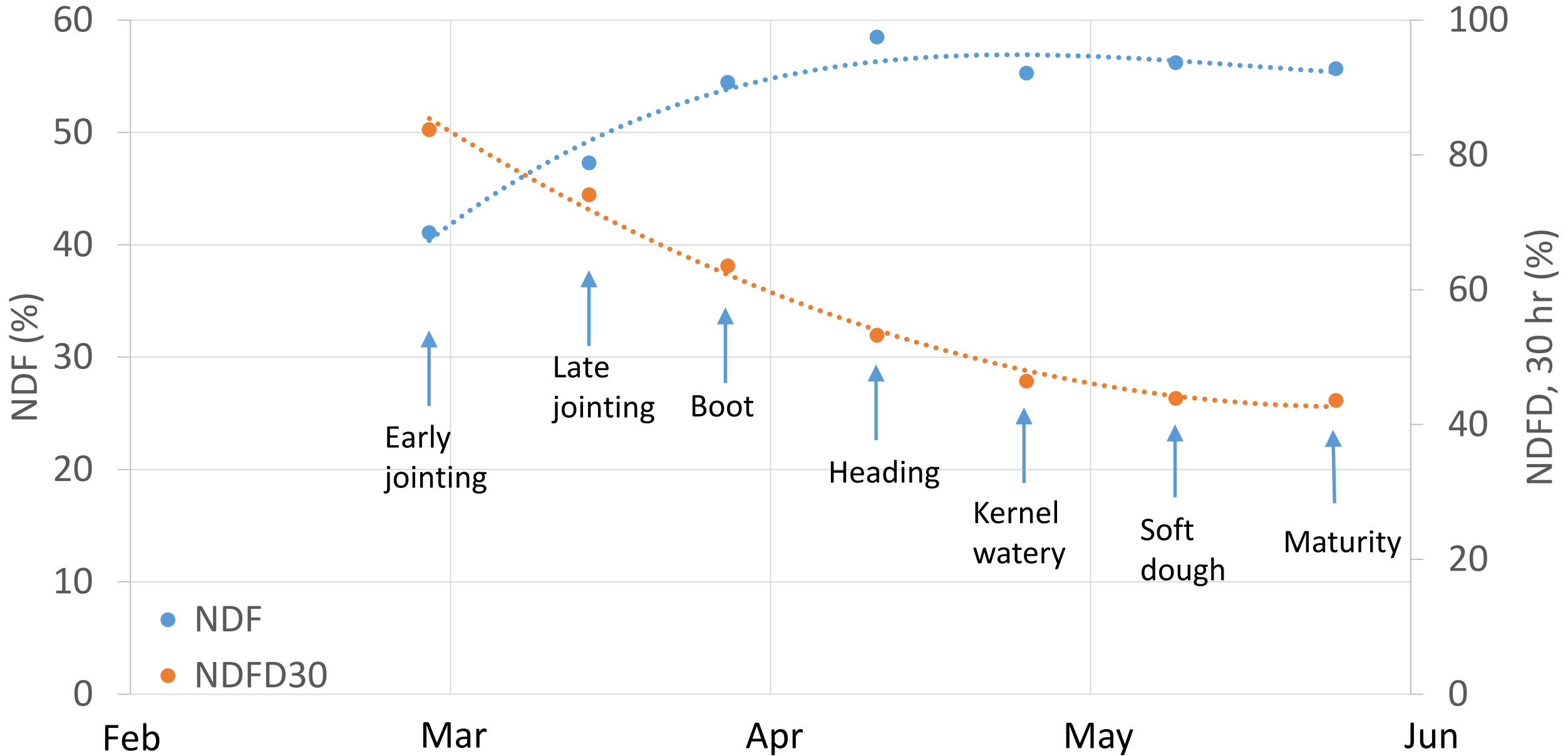
Crude protein



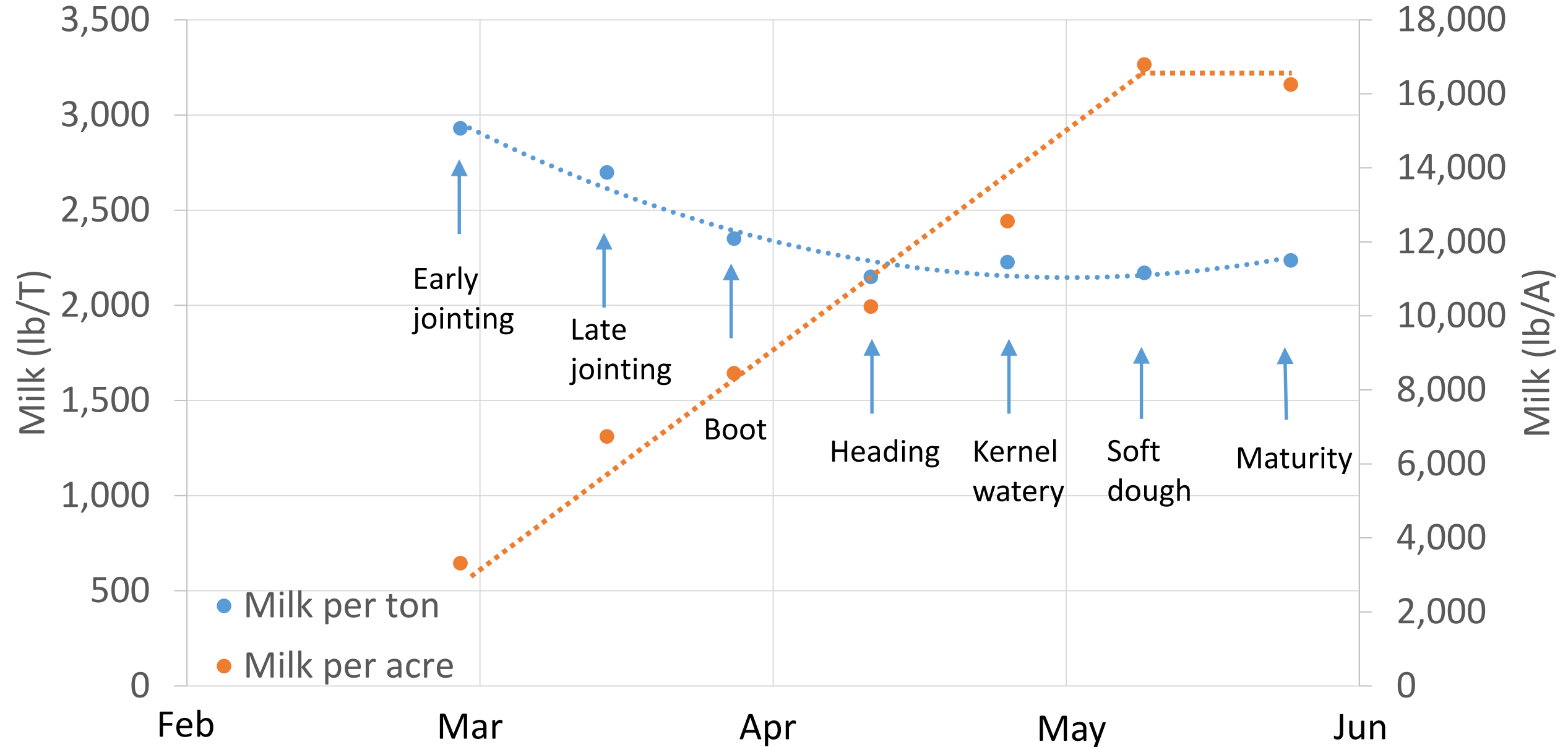
Energy



Fiber



Milk per ton and acre



Triticale from early jointing to soft dough

- Yield increases linearly
- Quality decreases then levels off near heading
- After heading, no advantage to cut sooner than soft dough
 - Quality does not change much
 - Yield not maximized until soft dough