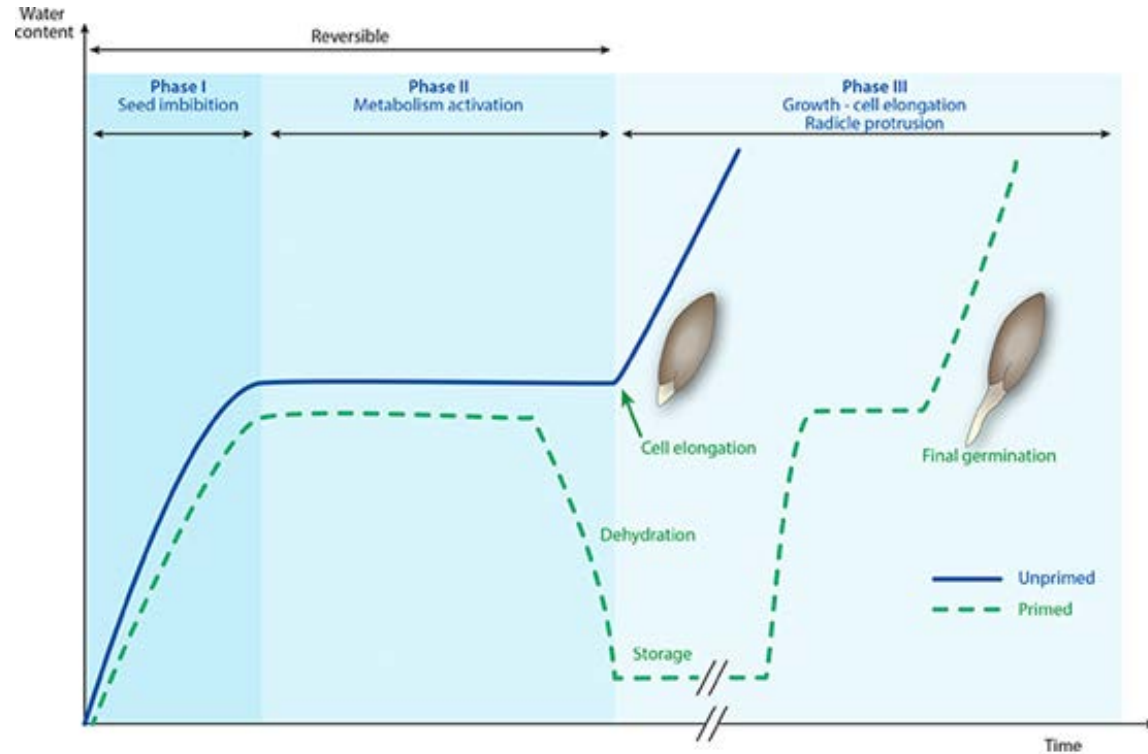

PRIMING

TOOL TO ACCELERATE THE PERFORMANCE



PRIMING

- ❖ Begins during 1970s
- ❖ Conditioning or Activation
- ❖ Germination Regulating Process

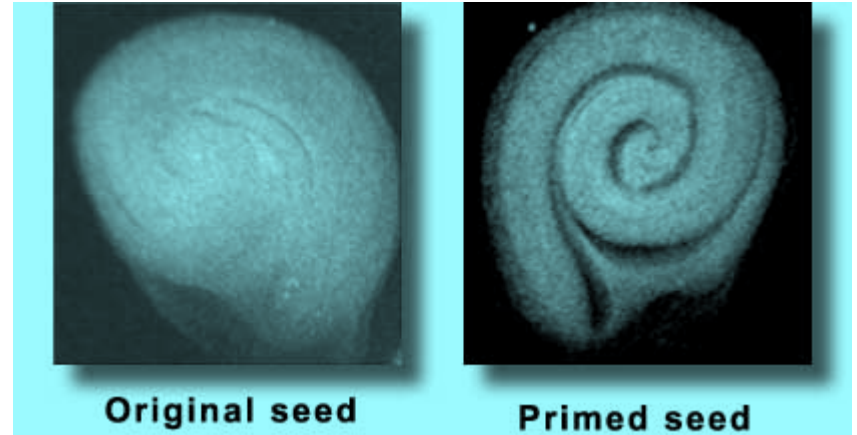


PRIMING TYPES

- * Hydro → Time
- * Osmo → Osmotic Solution with Specific Ψ
- * Solid Matrix → aeration, nutrient additions, gradual imbibition
- * Biopriming → Preplant microbes
- * Nutrient priming → improved nutrient supply

BENEFITS

- ✓ Developmental Advancement
- ✓ Removal of Dormancy
- ✓ Changes in Seed Anatomy and Morphology
- ✓ Protein and DNA Synthesis
- ✓ Effects on Germination Temperature



NEGATIVE

- ❖ Overpriming
- ❖ Inappropriate priming temperature
- ❖ Fast dehydration



MY PHD PROJECT

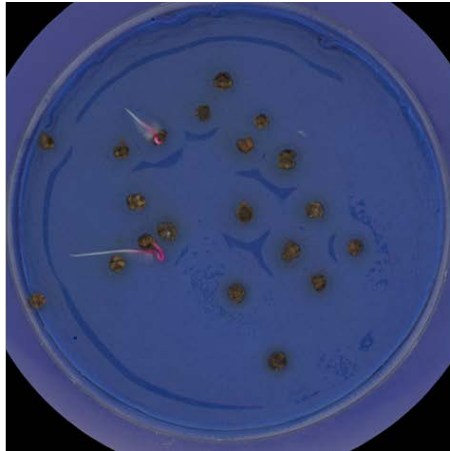
Improving the Beet seed priming Protocol by testing:

- ❖ Adding Steps
- ❖ Changing Conditions: Temperatures, light, ...
- ❖ New Set-up

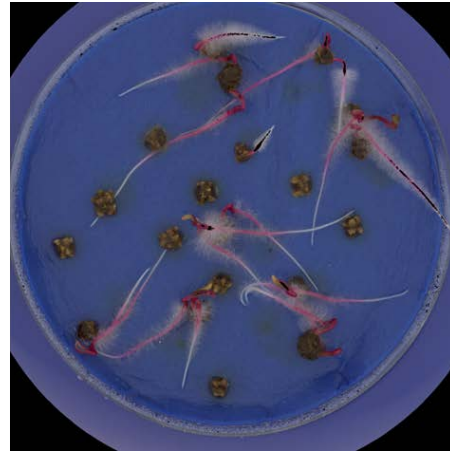


OBJECTIVES

Improved Germination



Control



Primed

Faster Bolting



CONCLUSION

- ❖ Accelerated performans vs Overpriming
- ❖ Following things should be considered:
 - ⇒ Priming method
 - ⇒ Priming situatin
 - ⇒ Priming time



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