

Improved Methods for Breeding Varieties Resistant to Pre-Harvest Sprouting

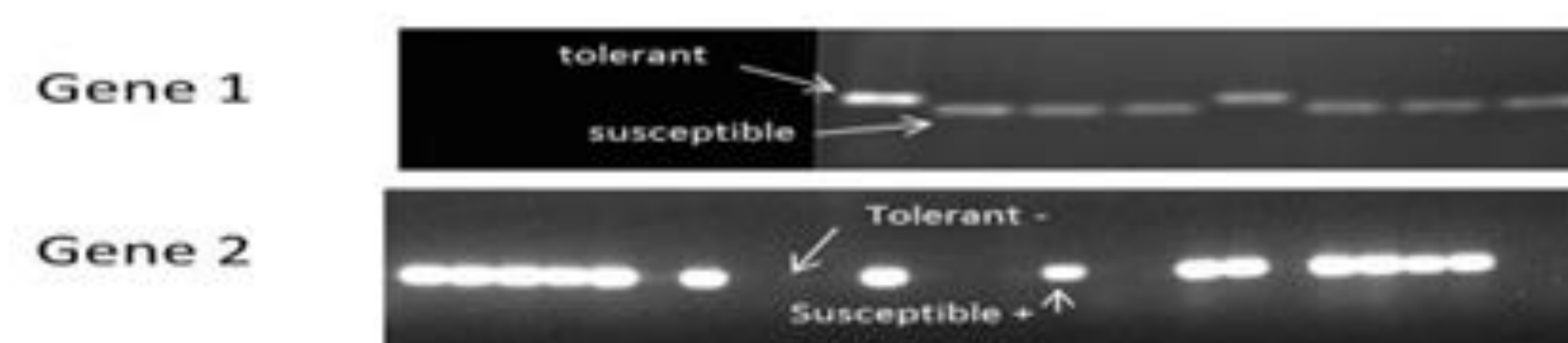
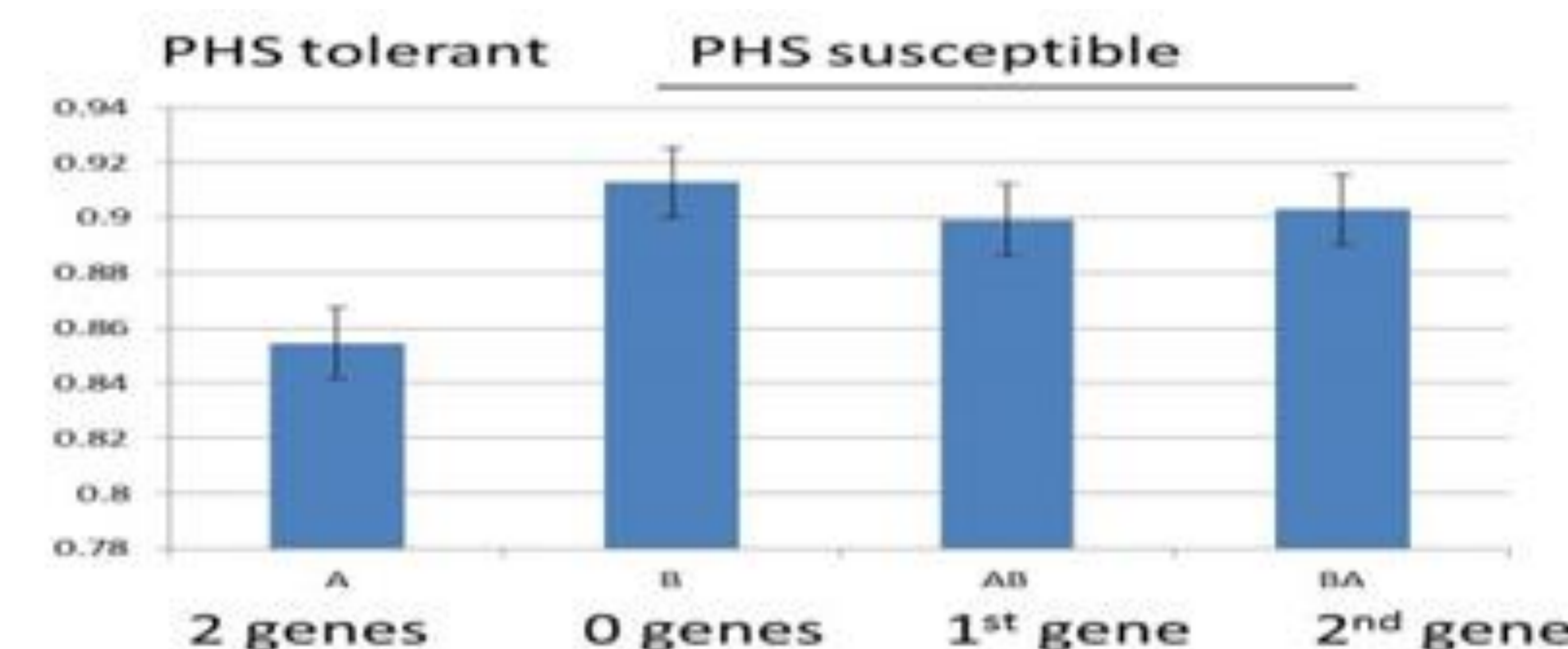
Objective: Develop rapid, cost efficient tests to identify lines with resistance to pre-harvest sprouting (PHS)

Outputs thus far: Identified gene variations associated with sprouting tolerance

Impact: Breeding for PHS tolerance, although difficult as it is influenced heavily by weather and the number of genes involved, will reduce PHS/ improve falling number, which results in higher grade and better income for producers

Deployment path: Methods transferred to breeding programs within CWA

Delivery date: 2018 following validation and identification of additional genes



Resources committed: ~\$200K /5 years. Following 10 years of previous AAFC efforts on PHS mapping.

Opportunity for collaboration: CWA breeding programs could submit lines for validation.

CWA Team: AAFC: Mark Jordan; Curt McCartney

Collaborators: WGRF Wheat Cluster