Economic Development, Jobs, Transport and Resources

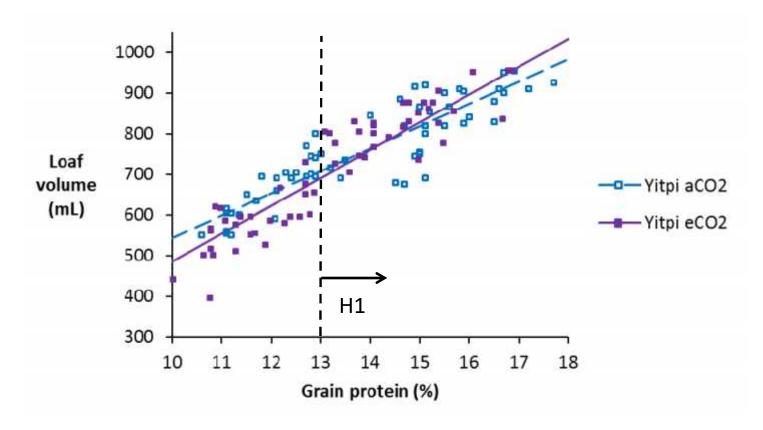
An empirical model of wheat baking quality under elevated CO₂



Malcolm McCaskill
Garry O'Leary
Cassandra Walker
Joe Panozzo
Debra Partington

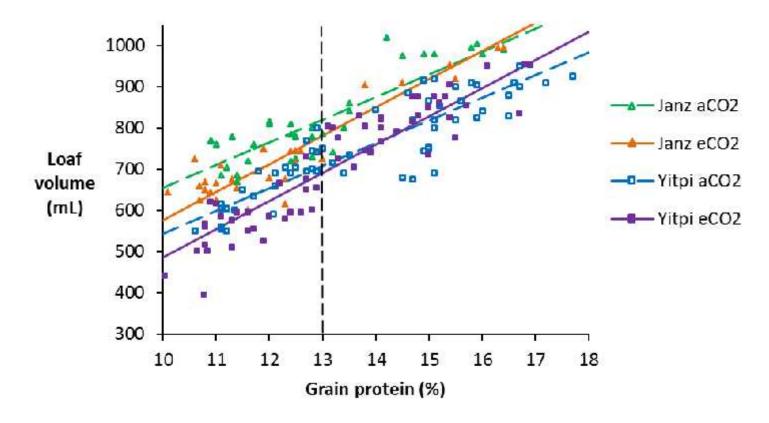


Loaf volume vs grain protein: 5 years of FACE data



- Loaf volume related to grain protein, but steeper under elevated CO₂
- Fewer samples met the 13% min for the Australian Hard-Wheat (H1) classification under eCO₂

Loaf volume vs grain protein: Janz and Yitpi



- At a given protein concentration and CO₂ level cv. Janz achieved over 100 cm³ than cv. Yitpi
- Regression model explained 82% of variation in loaf volume
- Industry incentives needed before breeders will select for proteins more efficient at rising
- Mechanistic model of grain quality under development