



LawrieCo

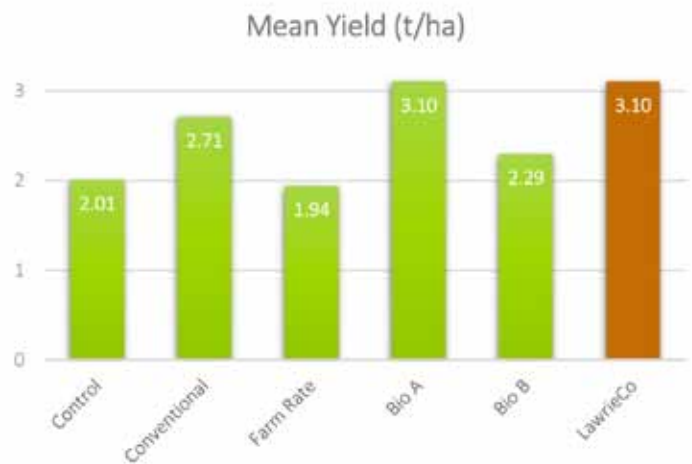
Wealth from Soil

Trial Report 2010-01

Alternative Fertiliser Returns on Flagship Barley

DPI Horsham Vic - Horsham East TopCrop

The combination of an 'average' nutrient investment coupled with high yield resulted in the LawrieCo treatment producing the Highest Return on nutrient investment.



Mean Yield Table indicates yield for each treatment across both soil types.

Key Outcomes

Equal highest Mean Yield of 3.1 T/Ha

Highest yield on light soil type 2.9 T/Ha

Average Nutrient Investment \$63 /Ha

Highest Return \$4.14 Per Dollar Invested

Trial Objective

Assess the return on investment with five alternative fertiliser treatments across two soil types on Flagship Barley.

- Apply fertiliser treatments at sowing
- Apply top dress fertiliser treatments 10-14 weeks post sowing
- Assess yield across treatments
- Return on nutrient investment based on current market prices

Return on Nutrient Investment (RONI)

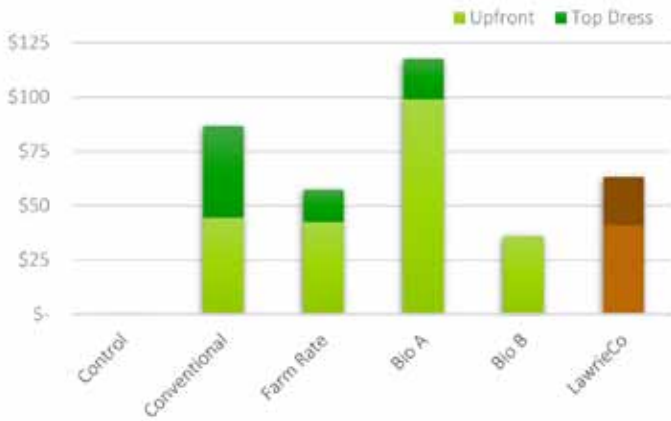
Treatment	Upfront Cost Above control	Top Dress Cost Above control, per Ha	Total Nutrient Investment	Return* (RONI) Per Dollar Invested
Control	-	-	-	-
Conventional	\$44.56	\$42.08	\$86.64	\$2.11
Farm Rate	\$42.55	\$14.73	\$57.28	-
Bio A	\$99.06	\$18.61	\$117.67	\$2.42
Bio B	\$36.03	-	\$36.03	\$2.07
LawrieCo	\$41.07	\$22.15	\$63.22	\$4.14

*Based on grain price \$260/t. \$/\$ spent = [(average yield of treatment - average yield of control) x \$260] / cost of treatment

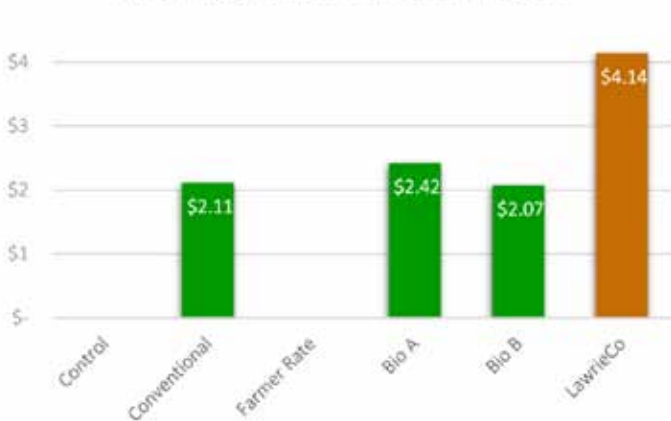
Alternative Fertiliser Returns on Flagship Barley

DPI Horsham Vic

Nutrient Investment



Return per Nutrient Dollar Invested



This report is based on information supplied in the Trial Summary 2010, Ash Wallace, DPI Horsham

Treatments

Fertiliser rates are per hectare	
Control	No fertiliser
Farm rate	50kg MAP at sowing; 28kg Urea on 31 Aug
Bio A	50kg Urea deep band; 1kg CuSO ₄ , 2kg ZnSO ₄ , 3L Microbial product and 60kg MAP at sowing; 2.5L Nutrient/microbial mix and 10kg Urea on 3 Sept
Bio B	30kg pelletised chicken manure and 30kg MAP at sowing
LawrieCo*	10L/T of seed SureCrop VAM; 40kg MAP, 5kg BioMAX Soluble Humate at sowing; 23kg Urea, 2L NutriMAX Growth, 1L BioMAX Fulvic on 15 Sept
Conventional	52kg MAP/Zn blend at sowing; 80kg Urea - 19 Aug

Trial Outline

Source	Horsham East TopCrop: Fast Tracking adaptation to a changing climate
Location	Horsham Vic
Trial Area	Five treatments across two soil types (light soil and heavy soil)
Crop	Flagship barley sown at 50 kg/Ha on 11th June
Rainfall	April to Oct: 322mm. Annual: 624mm
Measure	Soil Phosphorus (Colwell P) and Yield

*LawrieCo Treatment Products

Seed Dressing - SureCROP VAM

Stimulate root growth, root mass and early vigour.
Better plant access to moisture and nutrients in the root zone.
Increase phosphorus uptake.



P 1.7% Humic 4.4%
Ca 5.2% Fulvic 3.2%
Si 2.5% AM fungi
Zn 2.4% 32,500
Mn 1.5% propagules



Concentrated Soluble Humic - BioMAX Soluble Humate Prill

Increase fertiliser availability.
Rapid soil improvement of soil structure, moisture retention, nutrient release and stimulate soil biological processes.



Humic Acid 50%
Also as a Granule
Humic Acid 65%



NPK plus Calcium - NutriMAX Growth

Balanced growth to build yield and quality potential.
Build cell strength and natural plant responses to environmental pressures.



Nitrogen 10.5%
Phosphorus 7.6%
Potassium 4.5%
Sulphur 0.1%
Calcium 3.3%

