



# Trial summary 2010

Horsham East TopCrop: *Fast tracking adaptation to a changing climate*  
Ash Wallace, DPI Horsham



DEPARTMENT OF  
PRIMARY INDUSTRIES

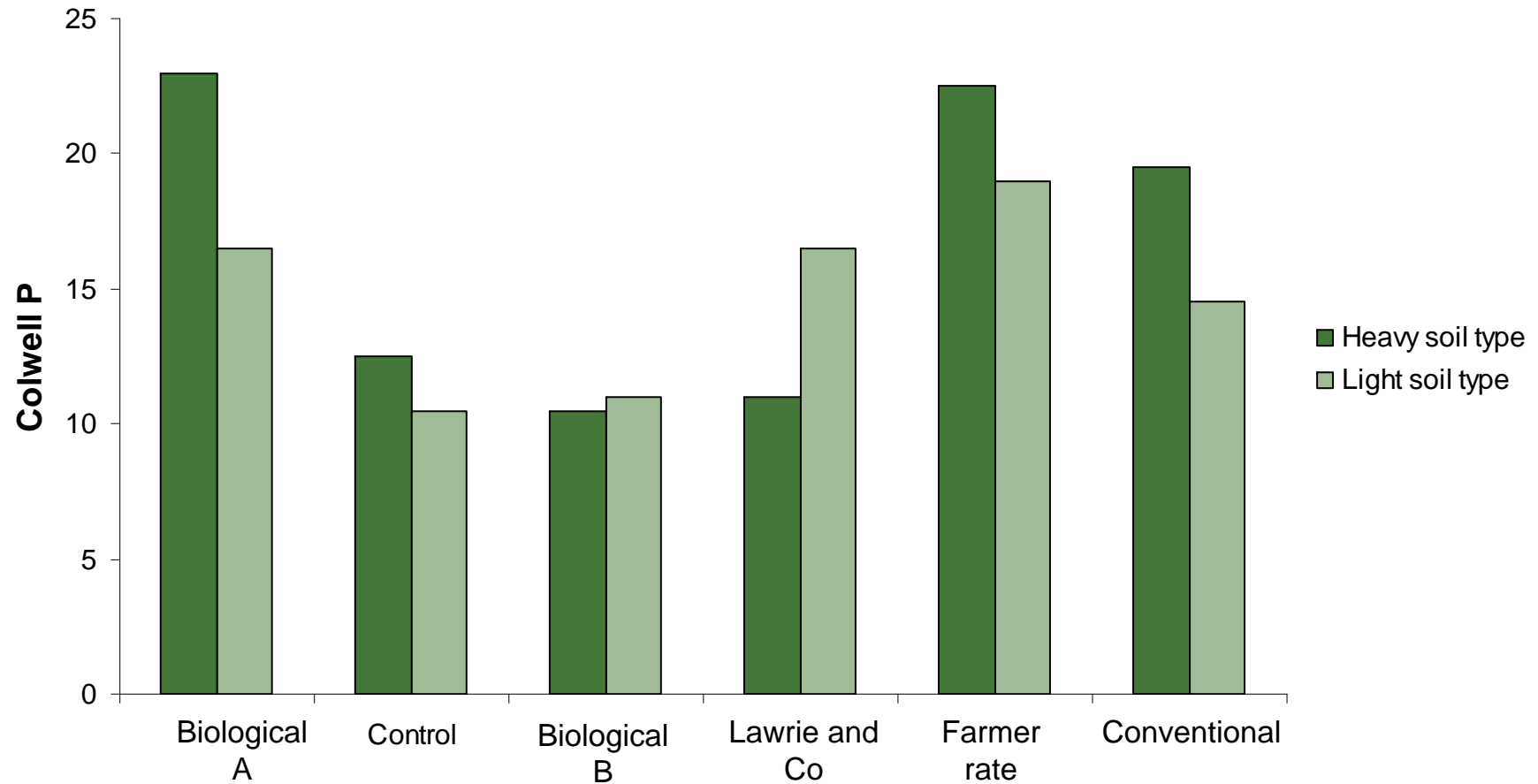
farm  
services

# Alternative fertilisers - treatments

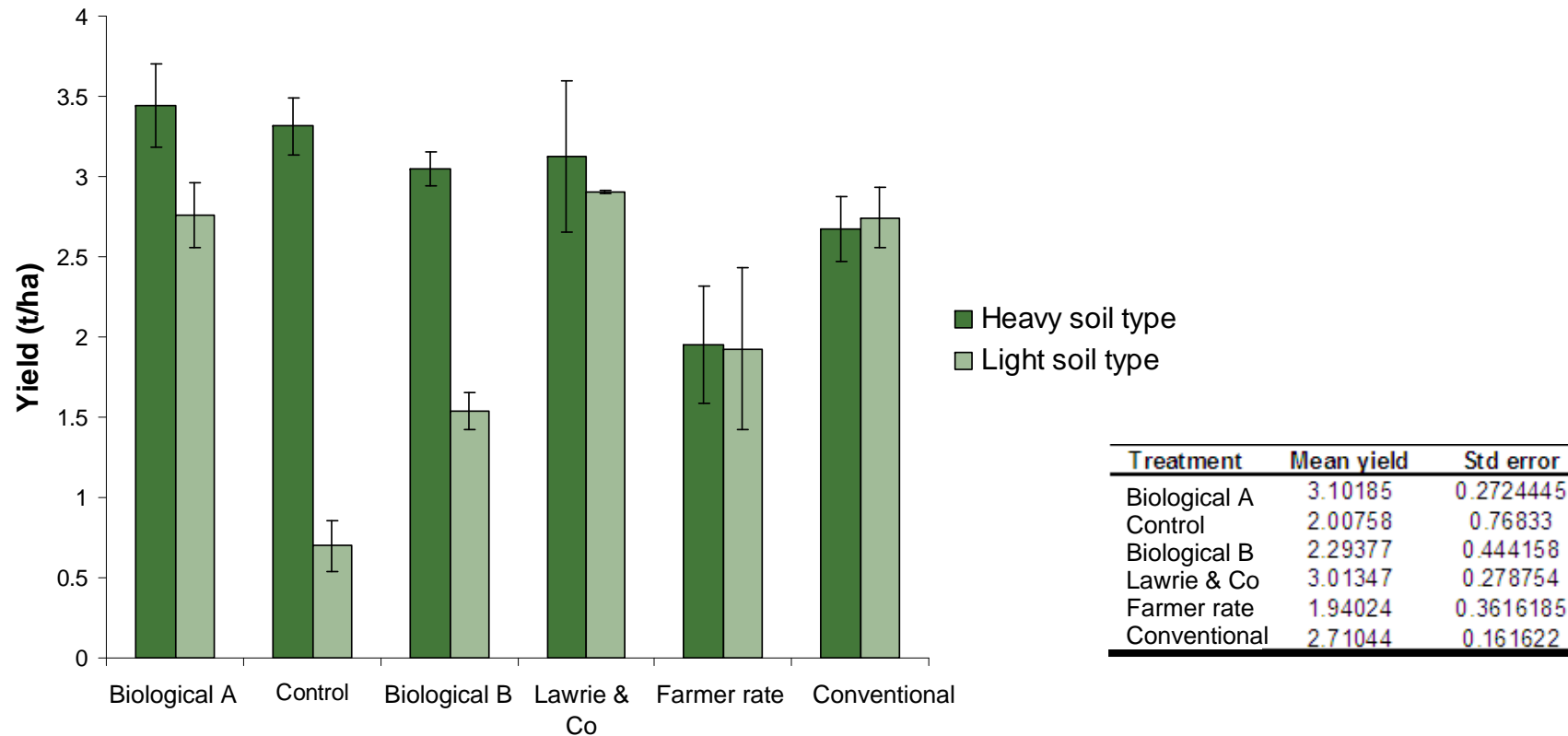
- Flagship barley sown 11<sup>th</sup> June at 50 kg/ha
- Five treatments across two soil types
  - Control (no fertiliser)
  - Farmer rate (50kg MAP at sowing and 28kg urea 31-Aug)
  - Biological company A recommendation (50kg urea deep banded, 1kg CuSO<sub>4</sub>, 2kg ZnSO<sub>4</sub>, 3L microbial product and 60kg MAP at sowing and 2.5L nutrient / microbial mix and 10kg urea 3-Sept)
  - Biological company B recommendation (30kg pelletised chicken manure and 30kg MAP at sowing)
  - Lawrie and Co recommendation (10L/t seed Surecrop VAM, 40 kg MAP and 5 kg humates at sowing and 23kg urea, 2L Growth, 1L liquid fulvic 15-Sept) \*Sown at 80 kg/ha\*
  - Conventional company recommendation (52 kg MAP/Zn blend at sowing and 80kg urea 19-Aug)



# Alternative fertilisers – starting P 2010



# Results



- Rainfall (Apr-Oct): 322mm (Annual): 624
- Trial affected by waterlogging on heavy soil – *interpret with caution, particularly farmer treatment*
- Light soil appeared more responsive – *consistent with 2009 data*
- Light soil less affected by waterlogging – possibly more reliable data?
- Bars represent standard errors

# Economics

Treatment	Upfront cost	Topdressing cost	Total cost	\$/ \$ spent
Control	-	-	-	-
Farmer rate	\$42.55	\$14.73	\$57.28	-
Biological A	\$99.06	\$18.61	\$117.67	\$2.42
Lawrie & Co	\$41.07	\$22.15	\$63.22	\$4.14
Biological B	\$36.03		\$36.03	\$2.07
Incitec Pivot	\$44.56	\$42.08	\$86.64	\$2.11

\*Grain price \$260/t

$\$/\$ \text{ spent} = [ (\text{average yield of treatment} - \text{average yield of control}) \times \$260 ] / \text{cost of treatment}$