Department of Agriculture and Food

GOVERNMENT OF WESTERN AUSTRALIA

Invitation

Better Fertiliser Decisions for Cropping Systems

Training workshop to access and use the BFDC interrogator

Date: Thursday 3rd March 2016

Time: 9.30am – 1.00pm

Meeting place: Technology Park Function Centre, Bentley WA

Type of activity: The BFDC database represents the most comprehensive collation of nutrient rate response trials in Australia. It enables researches, advisors and consultants to interrogate a range of N, P, K & S rate response trials across Australia according to soil type, rainfall, locality and a range of other parameters.

At the end of the training session, users will have the capacity to investigate critical nutrient ranges for macronutrients in different crops across different rainfall zones, soil types and localities, while also being able to investigate particular trials in detail.

RSVPs essential since places are limited

RSVP to Liam Ryan

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Soil test-crop response calibrations

274 K trials fit your initial selection criteria. Their locations with Australian Soil Class are plotted on the map.

You may wish to:

- list selection summary information
- map Australian Soil Classification
- map relative yields
- map maximum yields

To choose a new region draw a polygon and refresh the trial selection.

Graph soil test value by:

(•) Relative Yield ( ) Yield Increase

Choose soil test and sample depth:

K Colwell mg/kg (668)

0-10cm (273)

View data relationship:

- plot data by crop
- plot data by soil type
- tabulate data

Limit max soil test value: (enter max soil test value for the plot)

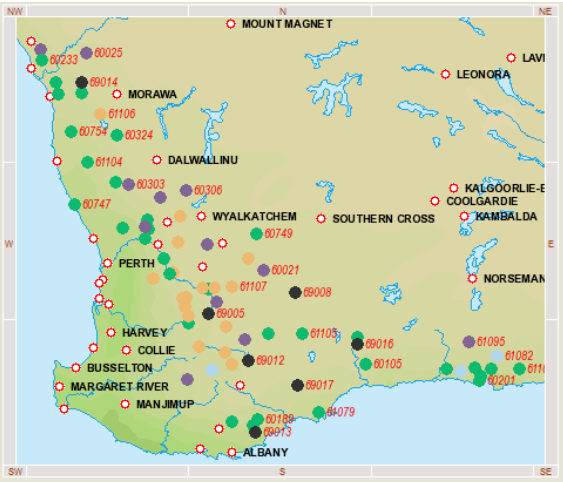
Limit plot to most responsive treatment series per trial: ☐

Refine your trial selection for determining a data relationship:

- Filter by rainfall, stored profile water, maximum yield, soil pH and/or soil organic carbon:

	Above	Below
Growing season rainfall:	mm	mm
Stored profile water:	mm	mm
Maximum yield:	t/ha	t/ha
Soil pHCaCl2:		
Soil organic carbon:	%	%

- Filter by any of the trial characteristics below:



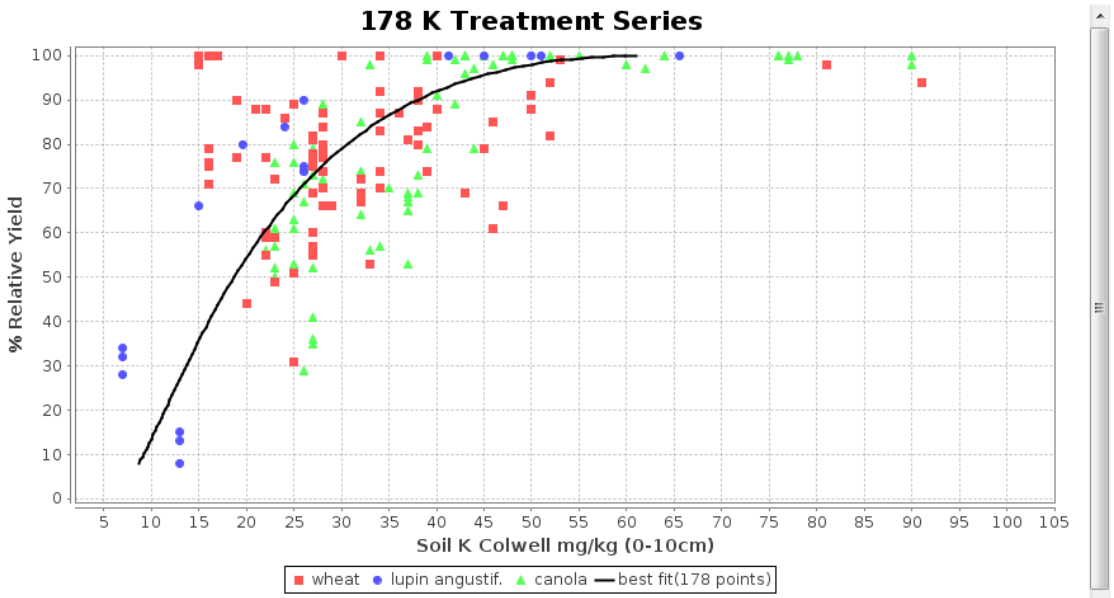
[clear] [undo] [complete] Map tools: Draw Polygon

Optional Layers | Legend

☐ Rainfall ☐ Road ☐ Vegetation

A polygon can be drawn on the map when the 'Draw Polygon' tool is selected from the Map tools menu. When doing a trial selection, only those trials falling within the polygon will be selected. To draw the polygon, click on the map to define three or more points that form a boundary around the geographic area of interest. To complete the polygon, always click the '[complete]' text below the map. The polygon boundary must not cross over itself.

print



Soil test calibration: (for WA sands)

80% Relative Yield: 31.0 (28.0 - 33.0)
90% Relative Yield: 38.0 (35.0 - 42.0)
95% Relative Yield: 44.0 (39.0 - 49.0)

Correlation R: 0.6
Regression equation: $x = e^{(1.5298(\arcsin(\sqrt{y/100})) + 1.7274)}$
70% confidence limit at 90% Relative Yield: 38.0 (36.0 - 40.0)

Slope RY(50-80): 2.5 (2.0 - 3.0)