Making Better Fertiliser Decisions for Cropping- BFDCII

National data base, Interrogator and training course!
Tony Cox
National Coordinator Crop Nutrition

BFDCII
MAKING
“The process of making or producing something”
“BETTER
“More desirable, satisfactory, or effective”
Oxford Dictionary
BFDCII

FERTILISER
“A chemical or natural substance added to soil or land to increase its fertility”
Oxford Dictionary

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DECISION
“A conclusion or resolution reached after consideration”
Oxford Dictionary
BFDCII

CROPPING
“A cultivated plant that is grown on a large scale commercially”
Oxford Dictionary

So how does BFDC achieve this!
• Good Science
• Innovation
• Extension
BFDCII

Good rigorous science!
- 5700 data sets
- $85 000 000 worth of research over 55 years
- Australian soil classification
- Able to be interrogated G by E
- Live data base

Very low Below Optimum Optimum Above Optimum Excessive

134 N Treatment Series

% Relative Yield

20 30 40 50 60 70 80 90 100

25 50 75 100 125 150 175 200 225 250 275 300

Soil N Nitrate N kg/ha (0-30cm)
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Innovation
“A new method, idea, product”
Oxford dictionary

BFDC is unique, new and evolving!
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Major fertiliser companies are required to use the best data sets available
• BFDCII has the best available data
• Fertcare professional development
• Being mapped to learning outcomes
• The major fertiliser companies have contributed data

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Extension
• Training package
• Universities
• Agricultural colleges
• eXtensionAus
BFDCII

Usage

- 724 registered users and growing
- Total trial data requests since 2012 = 64657, averaging 1347/month
- Total Graph requests since 2012 = 49686, averaging 974/month
- Home page hits since 2012 = 9000
  Averaging 200/month

Steps required.

- Soil sampling
- ASPAC certified test
- BFDCII
- DSS and Fertcare accredited advisor
- Recommendation including the 4R's
BFDCII

<table>
<thead>
<tr>
<th></th>
<th>CEREAL $/ha</th>
<th>CANOLA $/ha</th>
<th>PULSE $/ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard fertiliser use</td>
<td>$176.48</td>
<td>$176.48</td>
<td>$147.73</td>
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<tr>
<td>Optimal fertiliser use using BFDC</td>
<td>76.33</td>
<td>76.33</td>
<td>76.33</td>
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<tr>
<td>% savings</td>
<td>57%</td>
<td>57%</td>
<td>48%</td>
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Real case study using BFDC critical ranges and soil tests

BFDCII-Thank you!

For further information

- See Janet Clyde at the BFDCII stand for further info
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